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16. ACTIVITY FACTORS**16.1. INTRODUCTION**

Individual or group activities are important determinants of potential exposure. Toxic chemicals introduced into the environment may not cause harm to an individual until an activity is performed that brings the individual into contact with those contaminants. An activity or time spent in a given activity will vary among individuals depending on culture, ethnicity, hobbies, location, sex, age, socioeconomic characteristics, and personal preferences. However, limited information is available regarding ethnic, cultural, and socioeconomic differences in individuals' choice of activities or time spent in a given activity. Children are of special concern because certain activities and behaviors specific to children place them at a higher risk of exposure to certain environmental agents and expose them to higher levels of many chemicals (Chance and Harmsen, 1998). Trends associated with activity patterns include increases in the proportion of the population engaging in sedentary activities and decreases in physical activity in the home and related to work, including walking to work, as there has been a strong trend toward Americans living in the suburbs (Brownson et al., 2005). Recent trends in occupational mobility include the facts that average tenure increases directly with age, and that a large proportion of American workers show substantial job stability (U.S. Census Bureau, 2010). For population mobility, the U.S. Census Bureau reported that the national residential move rate increased to 12.5% in 2009 following a record low of 11.9% in 2008 (U.S. Census Bureau, 2010).

In calculating exposure, a person's average daily dose is determined from a combination of variables including the pollutant concentration, exposure duration, and frequency of exposure (see Chapter 1). These variables can be dependent on human activity patterns and time spent at each activity and/or location.

Time activity data are generally obtained using recall questionnaires and diaries to record the person's activities and microenvironments. Other methods include the use of videotaping and global positioning system technology to provide information on individuals' locations (Elgethun et al., 2003; Phillips et al., 2001).

Obtaining accurate information on time and activities can be challenging. This is especially true for children (Cohen Hubal et al., 2000). Children engage in more contact activities than adults; therefore, a much wider distribution of activities need to be considered when assessing children's exposure

(Cohen Hubal et al., 2000). Mouthing behavior, which includes all activities in which objects, including fingers, are touched by the mouth or put into the mouth are provided in Chapter 4. Chapter 7 provides frequency and duration data for dermal (hand) contact.

This chapter summarizes data on how much time individuals spend participating in various activities in various microenvironments and on the frequency of performing various activities. Information is also provided on occupational mobility and population mobility. The data in this chapter cover a wide range of activities and populations, arranged by age group when such data are available. One of the objectives of this handbook is to provide recommended exposure factor values using a consistent set of age groups. In this chapter, several studies are used as sources for activity pattern data. In some cases, the source data could be retrieved and analyzed using the standard age groupings recommended in *Guidance for Monitoring and Assessing Childhood Exposures to Environmental Contaminants* (U.S. EPA, 2005). In other cases, the original source data were not available, and the study results are presented here using the same age groups as the original study, whether or not they conform to the standard age groupings.

The recommendations for activity factors are provided in the next section, along with a summary of the confidence ratings for these recommendations. The recommended values are based on key studies identified by U.S. Environmental Protection Agency (U.S. EPA) for this factor. Following the recommendations, key studies on activity patterns are summarized. Relevant data on activity patterns are also presented to provide the reader with added perspective on the current state-of-knowledge pertaining to activity patterns in adults and children. Additional information on microactivity patterns (i.e., hand-to-mouth, object-to-mouth, and dermal [hand] contact with surfaces and objects) is provided in Chapters 4 and 7.

16.2. RECOMMENDATIONS**16.2.1. Activity Patterns**

Assessors are commonly interested in quantitative information describing several types of time use data for adults and children including the following: time spent indoors and outdoors; time spent bathing, showering, and swimming; and time spent playing on various types of surfaces. Table 16-1 summarizes the recommended values for these factors. Note that, except for swimming, all activity factors are reported in units of minutes/day.

Time spent swimming is reported in units of minutes/month. These data are based on 2 key studies presented in this chapter: a study of children's activity patterns in California (Wiley et al., 1991) and the National Human Activity Pattern Survey (NHAPS) (U.S. EPA, 1996). Both mean and 95th percentile recommended values are provided. However, because these recommendations are based on short-term survey data, 95th percentile values may be misleading for estimating chronic (i.e., long-term) exposures and should be used with caution. Also, the upper percentile values for some activities are truncated as a result of the maximum response included in the survey (e.g., durations of more than 120 minutes/day were reported as 121 minutes/day), and could not be further refined). Table 16-2 presents the confidence ratings for the recommendations.

The recommendations for total time spent indoors and the total time spent outdoors are based on the U.S. EPA re-analysis of the source data from Wiley et al. (1991) for children <1 year of age and U.S. EPA (1996) for childhood age groups >1 year of age. Although Wiley et al. (1991) is a study of California children and the sample size was very small for infants, it provides data for children's activities for the younger age groups. Data from U.S. EPA (1996) are representative of the U.S. general population. In some cases, however, the time spent indoors or outdoors would be better addressed on a site-specific basis since the times are likely to vary depending on the climate, residential setting (i.e., rural versus urban), personal traits (e.g., health status), and personal habits. For children >1 year of age, the recommended values for time spent indoors at a residence, duration of showering and bathing, time spent swimming, and time spent playing on sand, gravel, grass or dirt are based on a U.S. EPA re-analysis of the source data from U.S. EPA (1996). For adults 18 years and older, the recommended values are taken directly from the source document (U.S. EPA, 1996).

16.2.2. Occupational Mobility

Occupational mobility may be an important factor in determining exposure. For example, the duration of exposure to occupationally-related contaminants, such as the chemicals used in an industrial or laboratory setting, will be directly associated with the period of time an individual spends in the occupation.

The median occupational tenure of the working population (109.1 million people) ages 16 years of age and older in January 1987 was 7.9 years for men and 5.4 years for women (Carey, 1988). Since the

occupational tenure varies significantly according to age and sex, the recommended values are given by 5-year age groups separately for males and females in Table 16-3. Section 16.4 provides occupational tenure for males and females combined. Part-time employment, race and the position held are important to consider in determining occupational tenure. These data are also presented in Section 16.4. Table 16-3 also presents recommendations for occupational mobility rate, by age. This rate is the percentage of persons employed in an occupation who had voluntarily entered it from another occupation. The overall percent was 5.3 (Carey, 1990). The ratings indicating confidence in the occupational mobility recommendations are presented in Table 16-4. It should be noted that the recommended values are not for use in evaluating job tenure. These data can be used for determining time spent in an occupation and not for time spent at a specific job site.

16.2.3. Population Mobility

An assessment of population mobility can assist in determining the length of time a household is exposed in a particular location. For example, the duration of exposure to site-specific contamination, such as a polluted stream from which a family fishes or contaminated soil on which children play or vegetables are grown, will be directly related to the period of time residents live near the contaminated site.

There are two key studies from which the population mobility recommendations were derived: the U.S. Census Bureau American Housing Survey, (U.S. Census Bureau, 2008a) and Johnson and Capel (1992). The U.S. Bureau of Census (2008a) provides data on current residence time and Johnson and Capel (1992) provide data on residential occupancy period. Table 16-5 presents the recommendations for population mobility. Table 16-6 presents the confidence ratings for these recommendations.

The 50th and 90th percentiles for current residence time from the U.S. Census Bureau (2008a) are 8 years and 32 years, respectively. The mean and 90th percentile for residential occupancy period from Johnson and Capel (1992) are 12 years and 26 years, respectively.

Chapter 16—Activity Factors

Table 16-1. Recommended Values for Activity Patterns ^a			
Age Group	Mean	95 th Percentile	Source
Time Indoors (total) minutes/day			
Birth to <1 month	1,440	-	
1 to <3 months	1,432	-	U.S. EPA analysis of source data from Wiley et al. (1991) for age groups from birth to <12 months. Average for boys and girls, whole population. See Table 16-14.
3 to <6 months	1,414	-	
6 to <12 months	1,301	-	
1 to <2 years	1,353	-	
2 to <3 years	1,316	-	U.S. EPA re-analysis of source data from U.S. EPA (1996) for age groups from 1 to <21 years, whole population. See Table 16-21.
3 to <6 years	1,278	-	
6 to <11 years	1,244	-	
11 to <16 years	1,260	-	
16 to <21 years	1,248	-	Adults, ≥18 years (U.S. EPA, 1996). Total minutes/24 hours (1,440) minus time outdoors, doers ^b only. See Table 16-22.
18 to <65 years	1,159	-	
≥65 years	1,142	-	
Time Outdoors (total) minutes/day			
Birth to <1 month	0	-	U.S. EPA analysis of source data from Wiley et al. (1991) for age groups from birth to <12 months. Average for boys and girls, whole population. See Table 16-14.
1 to <3 months	8	-	
3 to <6 months	26	-	
6 to <12 months	139	-	
1 to <2 years	36	-	U.S. EPA re-analysis of source data from U.S. EPA (1996) for age groups from 1 to <21 years, whole population. See Table 16-21.
2 to <3 years	76	-	
3 to <6 years	107	-	
6 to <11 years	132	-	
11 to <16 years	100	-	Adults, ≥18 years (U.S. EPA, 1996). Sum of minutes spent outdoors away from the residence and minutes spent outdoors at the residence. Doers ^b only. See Table 16-22.
16 to <21 years	102	-	
18 to <65 years	281	-	
≥65 years	298	-	
Time Indoors (at residence) minutes/day			
Birth to <1 year	1,108	1,440	
1 to <2 years	1,065	1,440	
2 to <3 years	979	1,296	Children, Birth to <21 years: U.S. EPA re-analysis of source data from U.S. EPA (1996). Doers ^b only. See Table 16-15.
3 to <6 years	957	1,355	
6 to <11 years	893	1,275	
11 to <16 years	889	1,315	
16 to <21 years	833	1,288	Adults, ≥18 years (U.S. EPA, 1996). Doers ^b only. See Table 16-16.
18 to <65 years	948	1,428	
≥65 years	1,175	1,440	
Showering minutes/day			
Birth to <1 year	15	-	
1 to <2 years	20	-	
2 to <3 years	22	44	U.S. EPA re-analysis of source data from U.S. EPA (1996). Doers ^b only. See Table 16-29.
3 to <6 years	17	34	
6 to <11 years	18	41	
11 to <16 years	18	40	
16 to <21 years	20	45	

Table 16-1. Recommended Values for Activity Patterns (continued)

Age Group	Mean	95 th Percentile	Source
Bathing minutes/day			
Birth to <1 year	19	30	
1 to <2 years	23	32	
2 to <3 years	23	45	
3 to <6 years	24	60	U.S. EPA re-analysis of source data from
6 to <11 years	24	46	U.S. EPA (1996). Doers ^b only. See Table 16-29.
11 to <16 years	25	43	
16 to <21 years	33	60	
Bathing/Showering minutes/day			
18 to <65 years	17	-	U.S. EPA (1996). Doers ^b only. See Table 16-30.
≥65 years	17	-	
Swimming minutes/month			
Birth to <1 year	96	-	
1 to <2 years	105	-	
2 to <3 years	116	181	Children, Birth to <21 years: U.S. EPA re-analysis of source data from U.S. EPA (1996). Doers ^b only. See Table 16-40.
3 to <6 years	137	181	
6 to <11 years	151	181	
11 to <16 years	139	181	Adults, ≥18 years (U.S. EPA, 1996). Doers ^b only. See Table 16-42.
16 to <21 years	145	181	
18 to <65 years	45 ^c	181	
≥65 years	40 ^c	181	
Playing on Sand/Gravel minutes/day			
Birth to <1 year	18	-	
1 to <2 years	43	121	
2 to <3 years	53	121	Children, <21 years: U.S. EPA re-analysis of source data from U.S. EPA (1996). Doers ^b only. See Table 16-43.
3 to <6 years	60	121	
6 to <11 years	67	121	
11 to <16 years	67	121	Adults, ≥18 years (U.S. EPA, 1996). Doers ^b only. See Table 16-44.
16 to <21 years	83	-	
18 to <65 years	0 ^c	121	
≥65 years	0 ^c	-	
Playing on Grass minutes/day			
Birth to <1 year	52	-	
1 to <2 years	68	121	
2 to <3 years	62	121	Children, <21 years: U.S. EPA re-analysis of source data from U.S. EPA (1996). Doers ^b only. See Table 16-43.
3 to <6 years	79	121	
6 to <11 years	73	121	Adults, ≥18 years (U.S. EPA, 1996). Doers ^b only. See Table 16-44.
11 to <16 years	75	121	
16 to <21 years	60	-	
18 to <65 years	60 ^c	121	
≥65 years	121 ^c	-	

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Table 16-1. Recommended Values for Activity Patterns (continued)			
Age Group	Mean	95 th Percentile	Source
			Playing on Dirt minutes/day
Birth to <1 year	33	-	
1 to <2 years	56	121	
2 to <3 years	47	121	Children, <21 years: U.S. EPA re-analysis of source data from U.S. EPA (1996). Doers ^b only. See Table 16-43.
3 to <6 years	63	121	
6 to <11 years	63	121	
11 to <16 years	49	120	Adults, ≥18 years (U.S. EPA, 1996). Doers ^b only. See Table 16-44.
16 to <21 years	30	-	
18 to <65 years	0 ^c	120	
≥65 years	0 ^c	-	

- Percentiles were not calculated for sample sizes less than 10 or in cases where the mean was calculated by summing the means from multiple locations or activities.

^a These activities are averaged over seasons.

^b Doers are those respondents who engaged or participated in the activity.

^c Median value, mean not available in U.S. EPA (1996).

Note: All activities are reported in units of minutes/day, except swimming, which is reported in units of minutes/month. There are 1,440 minutes in a day. Time indoors and outdoors may not add up to 1,440 minutes due to activities that could not be classified as either indoors or outdoors.

Table 16-2. Confidence in Recommendations for Activity Patterns

General Assessment Factors	Rationale	Rating
Soundness		High
<i>Adequacy of Approach</i>	The survey methodologies and data analyses were adequate. For the reanalysis of U.S. EPA (1996) study data, responses were weighted; however, adult data were not reanalyzed. The California children's activity pattern survey design (Wiley et al., 1991) and NHAPS (U.S. EPA, 1996) consisted of large overall sample sizes that varied with age. Data were collected via questionnaires and interviews.	
<i>Minimal (or Defined) Bias</i>	Measurement or recording error may have occurred since the diaries were based on 24 hour recall. The sample sizes for some age groups were small for some activity factors. The upper ends of the distributions were truncated for some factors. The data were based on short-term data.	
Applicability and Utility		Medium
<i>Exposure Factor of Interest</i>	The key studies focused on activities of children and adults.	
<i>Representativeness</i>	U.S. EPA (1996) was a nationally representative survey of the U.S. population and the reanalysis was weighted; the Wiley et al. (1991) survey was conducted in California and it was not representative of the U.S. population.	
<i>Currency</i>	The Wiley et al. (1991) study was conducted between April 1989 and February 1990; the U.S. EPA (1996) study was conducted between October 1992 and September 1994.	
<i>Data Collection Period</i>	Data were collected for a 24-hour period.	
Clarity and Completeness		Medium
<i>Accessibility</i>	The original studies are widely available to the public; U.S. EPA analysis of the original raw data from U.S. EPA (1996) is available upon request.	
<i>Reproducibility</i>	The methodologies were clearly presented; enough information was included to reproduce the results.	
<i>Quality Assurance</i>	Quality assurance methods were not well described in study reports.	
Variability and Uncertainty		Medium
<i>Variability in Population</i>	Variability was characterized across various age categories of children and adults.	
<i>Uncertainty</i>	The studies were based on short term recall data, and the upper ends of the distributions were truncated.	
Evaluation and Review		Medium
<i>Peer Review</i>	The original studies received a high level of peer review. The re-analysis of the U.S. EPA (1996) data to conform to the standardized age categories was not peer-reviewed.	
<i>Number and Agreement of Studies</i>	There were 2 key studies.	
Overall Rating		Medium for the mean; low for upper percentile

Table 16-3. Recommended Values for Occupational Mobility

Age Group	Median Tenure	Median Tenure	Source
	(years) Men	(years) Women	
All ages, ≥16 years	7.9	5.4	(Carey, 1988). See Table 16-103
16 to 24 years	2.0	1.9	
25 to 29 years	4.6	4.1	
30 to 34 years	7.6	6.0	
35 to 39 years	10.4	7.0	
40 to 44 years	13.8	8.0	
45 to 49 years	17.5	10.0	
50 to 54 years	20.0	10.8	
55 to 59 years	21.9	12.4	
60 to 64 years	23.9	14.5	
65 to 69 years	26.9	15.6	
≥70 years	30.5	18.8	
Age Group	Occupational Mobility Rate ^a (percent)		
16 to 24 years	12.7		(Carey, 1990). See Table 16-107
25 to 34 years	6.6		
35 to 44 years	4.0		
45 to 54 years	1.9		
55 to 64 years	1.0		
≥64 years	0.3		
Total, ≥16 years	5.3		

^a Occupational mobility rate = percentage of persons employed in an occupation who had voluntarily entered it from another occupation.

Table 16-4. Confidence in Recommendations for Occupational Mobility		
General Assessment Factors	Rationale	Rating
Soundness		Medium
<i>Adequacy of Approach</i>	Both studies are based on the U.S. Census Bureau’s Current Population Survey which uses valid methodologies and approaches and is representative of the U.S. population with sample sizes of approximately 50,000 a month. Both studies are secondary analyses based on supplemental data to the January, 1987, Current Population Survey (a U.S. Census publication).	
<i>Minimal (or Defined) Bias</i>	Much of the original study data is not available. Only median values are reported. There is minimal concern about sampling and non-sampling error and non-response bias as in all surveys based on statistical samples.	
Applicability and Utility		Medium
<i>Exposure Factor of Interest</i>	Occupational tenure was the focus of both key studies.	
<i>Representativeness</i>	The data are statistically representative of the U.S. population.	
<i>Currency</i>	The data were collected over 20 years ago in 1986 and 1987. It is questionable whether the results would be the same if current data were analyzed based on changes in the economy that have occurred since the study was conducted.	
<i>Data Collection Period</i>	Data were collected in 1986–1987.	
Clarity and Completeness		Medium
<i>Accessibility</i>	The studies are widely available to the public. The Current Population Survey January, 1987: Occupational Mobility and Job Tenure data are available from the U.S. Census Bureau.	
<i>Reproducibility</i>	Results can be reproduced and methodology can be followed and evaluated.	
<i>Quality Assurance</i>	Quality assurance methods were not well described.	
Variability and Uncertainty		High
<i>Variability in Population</i>	The study provided averages according to sex, race, and education; age averages and percentiles were provided.	
<i>Uncertainty</i>	The studies are based on recall data.	
Evaluation and Review		Medium
<i>Peer Review</i>	The studies received a high level of peer review.	
<i>Number and Agreement of Studies</i>	There are 2 key studies based on the same data source.	
Overall Rating		Medium

Table 16-5. Recommended Values for Population Mobility			
	Mean	95 th Percentile	Source
Residential Occupancy Period	12 years	33 years	(Johnson and Capel, 1992). See Table 16-108.
Current Residence Time	13 years	46 years	(U.S. Census Bureau, 2008a). See Table 16-111.

Table 16-6. Confidence in Recommendations for Population Mobility		
General Assessment Factors	Rationale	Rating
Soundness		Medium
<i>Adequacy of Approach</i>	Both key studies are based on U.S. Census Bureau studies which used valid data collection methodologies and approaches and are representative of the U.S. population.	
<i>Minimal (or Defined) Bias</i>	Data do not account for each member of the household; values are more realistic estimates for the individual's total residence time than the average time a household has been living at its current residence. The moving process was modeled in Johnson and Capel (1992). For the mean and percentile calculations of U.S. Census Bureau (2008a) data, an even distribution was assumed within different ranges which may bias the statistics.	
Applicability and Utility		Medium
<i>Exposure Factor of Interest</i>	The Census data provided length of time at current residence. The other study used modeling to estimate total time.	
<i>Representativeness</i>	The sample surveyed was statistically representative of the U.S. population.	
<i>Currency</i>	The data were collected in 2007 and 1985–1987, and reported in 2008 and 1992, respectively.	
<i>Data Collection Period</i>	Data were collected throughout the calendar year.	
Clarity and Completeness		High
<i>Accessibility</i>	The studies are widely available to the public.	
<i>Reproducibility</i>	Results can be reproduced or methodology can be followed and evaluated.	
<i>Quality Assurance</i>	Quality assurance is discussed in the documentation on the U.S. Census Bureau studies.	
Variability and Uncertainty		Medium
<i>Variability in Population</i>	The study provided data by age and sex. Variability across several geographic regions was noted. Type of ownership was also addressed.	
<i>Uncertainty</i>	The U.S. Census Bureau data was truncated at 65 years.	
Evaluation and Review		High
<i>Peer Review</i>	The studies received high levels of peer review and appear in publications.	
<i>Number and Agreement of Studies</i>	The 2 studies produced similar results.	
Overall Rating		Medium

16.3. ACTIVITY PATTERNS

16.3.1. Key Activity Pattern Studies

16.3.1.1. Wiley et al. (1991)—Study of Children's Activity Patterns

The California Study of Children's Activity Patterns survey (Wiley et al., 1991) provided estimates of the time children spent in various activities and locations (microenvironments) on a typical day. The sample population consisted of 1,200 children, under 12 years of age, selected from English-speaking households using Random Digit Dial (RDD) methods. This represented a survey response rate of 77.9%. One child was selected from each household. If the selected child was less than 9 years old, the adult in the household who spent the most time with the child responded. However, if the selected child was between 9 and 11 years old, that child responded. The population was also stratified to provide representative estimates for major regions of the state. The survey questionnaire included a time diary which provided information on the children's activity and location patterns based on a 24-hour recall period. In addition, the survey questionnaire included questions about potential exposure to sources of indoor air pollution (e.g., presence of smokers) on the diary day, and the socio-demographic characteristics of children and adult respondents. The questionnaires and the time diaries were administered via a computer-assisted telephone interviewing (CATI) technology (Wiley et al., 1991). The telephone interviews were conducted during April 1989 to February 1990 over 4 seasons: spring (April to June 1989), summer (July to September 1989), fall (October to December 1989), and winter (January to February 1990).

The data obtained from the survey interviews resulted in 10 major activity categories, 113 detailed activity codes, 6 major categories of locations, and 63 detailed location codes. The time respondents under 12 years of age spent in the 10 activity categories (plus a "don't know" or non-coded activity category) are presented in Table 16-7. For each of the 10 activity categories, this table presents the mean duration for all survey participants, the percentage of respondents who reported participating in the activity (i.e., percent doers), and the mean, median, and maximum duration for only those survey respondents who engaged in the activity (i.e., doers). It also includes the detailed activity with the highest mean duration of time for each activity category. The activity category with the highest time expenditure was personal needs and care, with a mean of 794 minutes/day (13.2 hours/day). Night sleep was the detailed activity that had the highest mean

duration in that activity category. The activity category "don't know" had a mean duration of about 2 minutes/day and only 4% of the respondents reported missing activity time.

Table 16-8 presents the mean time spent in the 10 activity categories by age and sex. Because the original source data were available, U.S. EPA re-analyzed the data according to the standardized age categories used in this handbook. Differences between activity patterns in boys and girls tended to be small. Table 16-9 presents the mean time spent in the 10 activity categories grouped by season and geographic region in the state of California. There were seasonal differences for 5 activity categories: personal needs and care, education, entertainment/social, recreation, and communication/passive leisure. Time expenditure differences in various regions of the state were minimal for childcare, work-related, goods/services, personal needs and care, education, entertainment/social, and recreation.

Table 16-10 presents the distribution of time across 6 location categories. The mean duration for all survey participants, the percent of respondents engaging in the activity (i.e., percent doers); the mean, median, and maximum duration for doers only; and the detailed locations with the highest average time expenditure are shown. For all survey respondents, the largest mean amount of time spent was at home (1,078 minutes/day); 99% of respondents spent time at home (mean of 1,086 minutes/day for these individuals only). Table 16-11 and Table 16-12 show the average time spent in the 6 locations grouped by age and sex, and season and region, respectively. Again, because the original source data were available, the age categories used by Wiley et al. (1991) have been replaced in Table 16-11 by the standardized age categories used in this handbook. There were relatively large differences among the age groups in time expenditure for educational settings (see Table 16-11). There were small differences in time expenditure at the 6 locations by region, but time spent in school decreased in the summer months compared with other seasons (see Table 16-12).

Table 16-13 shows the average time children spent in proximity to gasoline fumes and gas oven fumes. In general, the sampled children spent more time closer to gasoline fumes than to gas oven fumes. The age categories in Table 16-13 have been modified to conform to the standardized categories used in this handbook.

The U.S. EPA estimated the total time indoors and outdoors using the data from the Wiley et al. (1991) study. Activities performed indoors were assumed to include household work, child care, personal needs and care, education, and communication/passive leisure. The average times spent in these indoor activities and half the time spent in each activity which could have occurred either indoors or outdoors (i.e., work-related, goods/services, organizational activities, entertainment/social, don't know/not coded) were summed. Table 16-14 summarizes the results of this analysis using the standard age groups.

A limitation of this study is that the sampling population was restricted to only English-speaking households; therefore, the data obtained do not represent the diverse population group present in California. Another limitation is that time use values obtained from this survey were based on short-term recall (24-hour) data; therefore, the data set obtained may be biased. Other limitations are as follows: the survey was conducted in California and is not representative of the national population, and the significance of the observed differences in the data obtained (i.e., sex, age, seasons, and regions) were not tested statistically. An advantage of this study is that time expenditure in various activities and locations were presented for children grouped by age, sex, and season. Also, potential exposures of respondents to pollutants were explored in the survey. Another advantage is the use of the CATI program in obtaining time diaries, which allows automatic coding of activities and locations onto a computer tape, and allows activities forgotten by respondents to be inserted into their appropriate position during interviewing.

**16.3.1.2. U.S. EPA (1996)—Descriptive Statistics
Tables From a Detailed Analysis of the
National Human Activity Pattern Survey
(NHAPS) Data**

U.S. EPA (1996) analyzed data collected by the National Human Activity Pattern Survey. This survey was conducted by U.S. EPA and is the largest and most current human activity pattern survey available (U.S. EPA, 1996). Data for 9,386 respondents in the 48 contiguous United States were collected via minute-by-minute 24-hour diaries. NHAPS was conducted from October 1992 through September 1994 by the University of Maryland's Survey Research Center using CATI technology to collect 24-hour retrospective diaries and answers to a number of personal and exposure related questions from each respondent. Detailed data were collected

for a maximum of 82 different possible locations, and a maximum of 91 different activities. Participants were selected using a RDD method. The response rate was 63% overall. If the chosen respondent was a child less than 10 years of age, an adult in the household gave a proxy interview. Each participant was asked to recount their entire daily routine from midnight to midnight immediately previous to the day that they were interviewed. The survey collected information on duration and frequency of selected activities and of the time spent in selected microenvironments. In addition, demographic information was collected for each respondent to allow for statistical summaries to be generated according to specific groups of the U.S. population (i.e., by sex, age, race, employment status, census region, season, etc.). Saturdays and Sundays were over sampled to ensure an adequate weekend sample.

For children, the source data from U.S. EPA for selected locations, both indoors and outdoors, and activities have been reviewed and re-analyzed by U.S. EPA to conform to the age categories recommended in *Guidance on Selecting Age Groups for Monitoring and Assessing Childhood Exposures to Environmental Contaminants* (U.S. EPA, 2005). This analysis was weighted according to geographic, socioeconomic, time/season, and other demographic factors to ensure that results were representative of the U.S. population. The weighted sample matched the 1990 U.S. census population for each sex, age group, census region, and the day-of-week and seasonal responses were equally distributed.

Table 16-15 through Table 16-64 provide data from the NHAPS study. Because no data were available on subjects' age in months, age groups less than 1 year old were consolidated into a single group. These tables provide statistics for 24-hour cumulative time spent (mean, minimum, percentiles, and maximum) in selected locations or engaging in selected activities. The original analysis generated statistics for the subset of the survey population that reported being in the location or doing the activity in question (i.e., doers only). For the reanalysis, statistics were calculated for the entire survey population (i.e., whole population) and for doers only. When the sample size was 10 persons or fewer, percentile values were not calculated.

Re-analyzed data are presented for the time children, aged birth to less than 21 years, spent in selected locations both indoors and outdoors and doing various selected activities. Each children only table is followed by a table for the whole population which presents data for specific populations (i.e., by sex, age, race, ethnicity, employment, education, Census region, day of the week, season, asthma

status, and bronchitis/emphysema status) and includes the time adults, aged 18 years and older, spent in various locations and doing various activities. Table 16-15 and Table 16-16 present data for time spent in rooms of the house (e.g., kitchen, bathroom, bedroom, and garage), and all rooms combined, for children and by demographic characteristics (including adulthood) respectively. Table 16-17 and Table 16-18 present data for time spent in other indoor locations (e.g., restaurants, indoors at school, and grocery/convenience stores). Table 16-19 and Table 16-20 present data for the time survey participants spent outdoors on school grounds/playgrounds, parks or golf courses, or pool rivers, or lakes.

Table 16-21 provides data on time spent in indoor and outdoor environments for children birth to <21 years of age. The U.S. EPA estimated the time spent indoors by adding the average times spent indoors at the respondents' home (kitchen, living room, bathroom, etc.), at other houses, and inside other locations such as school, restaurants, etc. Time outdoors was estimated by adding the average time spent outdoors at the respondents' pool and yard, others' pool and yard, and outside other locations such as sidewalk, street, neighborhood, parking lot, service station/gas station, school grounds, park/golf course, pool, river, lake, farm, etc. Table 16-22 provides data on time spent in outdoor and indoor environments for adults aged 18 years and older. The average time spent outdoors was estimated by summing the average time spent outdoors away from the residence and the average time spent outdoors at the residence. Note that these averages are for doers only and thus over-estimate the total time spent in the environments for the population.

Table 16-23 and Table 16-24 present data for the time spent in various types of vehicles and mass transit (i.e., car, truck/van, bus, trains, airplanes), and in all vehicles combined. Table 16-25 and Table 16-26 present data for the time children and adults spent in various major activity categories (e.g., sleeping, napping, eating, attending school, outdoor recreation, active sports, exercise, and walking). Table 16-27 presents data for activities associated with time spent working.

Table 16-28 through Table 16-36 provide data related to showering and bathing. Data on handwashing activities are in Table 16-37 and Table 16-38. Table 16-39 and Table 16-40 provide data for children on monthly swimming (in a freshwater pool) frequency and swimming duration, respectively. Table 16-41 and Table 16-42 provide data by demographic characteristics (including adulthood) on monthly swimming (in a freshwater

pool) frequency and swimming duration, respectively. Table 16-43 provides data on the time children spent playing on dirt, sand/gravel, or grass, and Table 16-44 displays these data by demographic characteristics (including adulthood).

Table 16-45 and Table 16-46 provide data on the number of minutes spent near excessive dust. Table 16-47 and Table 16-48 provide information on frequency of sweeping or vacuuming. Table 16-49 through Table 16-51 provide information on time spent in the presence of smokers and time spent smoking. Table 16-52 through Table 16-64 provide information on activities that may be related to specific sources of pollution (e.g., time spent near open flames, time spent near heavy traffic, frequency of use of dishwashers and washing machines). For this data set, the authors' original age categories for children were used because the methodology used to generate these data could not be reproduced.

The advantages of the NHAPS data set are that it is representative of the U.S. population. The reanalysis done by U.S. EPA to get estimates for childhood age groups that correspond to the *Guidance on Selecting Age Groups for Monitoring and Assessing Childhood Exposures to Environmental Contaminants* (U.S. EPA, 2005) was weighted and thus the results presented are balanced geographically, seasonally, and for day/time. Also, the NHAPS is inclusive of all ages, sexes, and races. A disadvantage of the study is that for the standard age categories, the number of respondents is small for the "doers" of many activities. In addition, the durations exceeding 60, 120, and 181 minutes were not collected for some activities. Therefore, the actual time spent at the high end of the distribution for these activities could not be accurately estimated. In addition, some of the activities were not necessarily mutually exclusive (e.g., time spent in active sports likely overlaps with exercise time).

16.3.2. Relevant Activity Pattern Studies

16.3.2.1. Hill (1985)—Patterns of Time Use

Hill (1985) investigated the total amount of time American adults spend in 1 year performing various activities and the variation in time use across 3 different dimensions: demographic characteristics, geographical location, and seasonal characteristics. In this study, time estimates were based on data collected from time diaries in 4 waves (1/season) of a survey conducted in the fall of 1975 through the fall of 1976 for the 1975–1976 Time Allocation Study. The sampling periods included 2 weekdays, 1 Saturday and 1 Sunday. The information gathered was in response to the survey question "What were

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you doing?” The survey also provided information on secondary activities (i.e., respondents performing more than 1 activity at the same time). Hill (1985) analyzed time estimates from 971 individuals for 10 broad categories of activities based on data collected from 87 activities. These estimates included seasonal variation in time use patterns and comparisons of time use patterns for different days of the week.

Analysis of the 1975–1976 survey data revealed very small regional differences in time use among the broad activity patterns (Hill, 1985). The weighted mean hours/week spent performing the 10 major activity categories presented by region are shown in Table 16-65. Table 16-66 presents the time spent per day, by the day of the week for the 10 major activity categories. Adult time use was dominated in descending order by personal care (including sleep), market work, passive leisure, and housework. Collectively, these activities represent about 80% of available time (Hill, 1985).

According to Hill (1985), sleep (included in personal care) was the single most dominant activity averaging about 56.3 hours/week. Television watching (included in passive leisure) averaged about 21.8 hours/week, and housework activities averaged about 14.7 hours/week. Weekdays were predominantly market-work oriented. Weekends (Saturday and Sunday) were predominantly devoted to household tasks (“sleeping in,” socializing, and active leisure) (Hill, 1985). Table 16-67 presents the mean time spent performing these 10 groups of activities during each wave of interview (fall, winter, spring, and summer). Adjustments were made to the data to assure equal distributions of weekdays, Saturdays, and Sundays (Hill, 1985). The data indicate that the time periods adults spent performing market work, child care, shopping, organizational activities, and active leisure were fairly constant throughout the year (Hill, 1985). The mean hours spent per week in performing the 10 major activity patterns are presented by sex in Table 16-68. These data indicate that time use patterns determined by data collected for the mid-1970’s survey show sex differences. Men spent more time on activities related to labor market work and education, and women spent more time on household work activities.

A limitation associated with this study is that the time use data were obtained from an old survey conducted in the mid-1970s. Because of fairly rapid changes in American society, applying these data to current exposure assessments may result in some biases. Another limitation is that time use data were not presented for children. An advantage of this study is that time diaries were kept and data were not based

on recall. The former approach may result in a more accurate data set. Another advantage of this study is that the survey is seasonally balanced since it was conducted throughout the year and the data are from a large survey sample.

16.3.2.2. *Timmer et al. (1985)—How Children Use Time*

Timmer et al. (1985) conducted a study using the data obtained on children’s time use from a 1981–1982 panel study. Data were obtained for 389 children between 3 and 17 years of age. Data were collected using a time diary and a standardized interview. The time diary involved children reporting their activities beginning at 12:00 a.m. the previous night, the duration and location of each activity, the presence of another individual, and whether they were performing other activities at the same time. The standardized interview was administered to the children to gather information about their psychological, intellectual (using reading comprehension tests), and emotional well-being; their hopes and goals; their family environment; and their attitudes and beliefs.

For preschool children, parents provided information about the child’s previous day’s activities. Children in first through third grades completed the time diary with their parents’ assistance and, in addition, completed reading tests. Children in 4th grade and above provided their own diary information and participated in the interview. Parents were asked to assess their children’s socioemotional and intellectual development, and a survey form was sent to a teacher of each school-age child to evaluate their socioemotional and intellectual development. The activity descriptor codes used in this study were developed by Juster et al. (1983).

The mean time spent performing major activities on weekdays and weekends by age, sex, and type of day is presented in Table 16-69. On weekdays, children spend about 40% of their time sleeping, 20% in school, and 10% eating, and performing personal care activities (Timmer et al., 1985). The data in Table 16-69 indicate that girls spent more time than boys performing household work and personal care activities and less time playing sports. Also, the children spent most of their free time watching television.

Table 16-70 presents the mean time children spent during weekdays and weekends performing major activities by 5 different age groups. The significant effects of each variable (i.e., age and sex) are also shown. Older children spent more time performing household and market work, studying,

and watching television and less time eating, sleeping, and playing. The authors estimated that, on average, boys spent 19.4 hours a week and girls spent 17.8 hours/week watching television.

U.S. EPA estimated the total time indoors and outdoors using the Timmer et al. (1985) data. Activities performed indoors were assumed to include household work, personal care, eating, sleeping, attending school, studying, attending church, watching television, and engaging in household conversations. The average times spent in these indoor activities and half the time spent in each activity which could have occurred indoors or outdoors (e.g., market work, sports, hobbies, art activities, playing, reading, and other passive leisure) were summed. Table 16-71 summarizes the results of this analysis by age group and day of the week.

A limitation associated with this study is that it was conducted in 1981. It is likely that activity patterns of children have changed from 1981 to the present. Thus, the application of these data to current exposure assessments may bias their results. Another limitation is that the data do not provide overall annual estimates of children's time use since data were collected only during the time of the year when children attended school and not during school vacations. An advantage of this survey is that diary recordings of activity patterns were kept and the data obtained were not based entirely on recall. Another advantage is that parents assisted younger children with keeping their diaries and with interviews, minimizing any bias that may have been created by having younger children record their own data.

16.3.2.3. Robinson and Thomas (1991)—Time Spent in Activities, Locations, and Microenvironments: A California-National Comparison

Robinson and Thomas (1991) reviewed and compared data from the 1987–1988 California Air Resources Board (CARB) time-activity study for California residents and from a similar 1985 national study, *Americans' Use of Time*, conducted at the University of Maryland. Both studies used the diary approach to collect data. Time-use patterns were collected for individuals aged 12 years and older. Telephone interviews based on the RDD procedure were conducted for 1,762 and 2,762 respondents for the CARB study and the national study, respectively. Robinson and Thomas (1991) defined a set of 16 microenvironments based on the activity and location codes employed in the 2 studies. The mean durations of time spent in the 16 microenvironments by age, are presented in Table 16-72. In both studies,

children and adults spent the majority of their time sleeping, and engaging in leisure and work/study-related activities.

Table 16-73 shows the mean time spent in the 10 major activities by sex and for all respondents between the ages of 18-64 years. Table 16-74 presents the mean time spent at 3 major locations for the CARB and national study grouped by total sample and sex, ages 18-64 years. The mean duration of time spent in locations for total sample population, 12 years and older, across 3 types of locations is presented in Table 16-75 for both studies.

The limitations associated with the Robinson and Thomas (1991) study are that the CARB survey was performed in California only and may not be representative of the U.S. population as a whole, and the studies were conducted in the 1980s and activity patterns may have changed over time. Another limitation is that the data are based on short-term studies. Finally, the available data could not be re-analyzed to conform to the standardized age categories used in this handbook.

16.3.2.4. Funk et al. (1998)—Quantifying the Distribution of Inhalation Exposure in Human Populations: Distribution of Time Spent by Adults, Adolescents, and Children at Home, at Work, and at School

Funk et al. (1998) used the data from the CARB study to determine distributions of exposure time by tracking the time spent participating in daily activities for male and female children, adolescents, and adults. CARB performed 2 studies from 1987 to 1990; the first was focused on adults (18 years and older) and adolescents (12 to 17 years old), and the second focused on children (6 to 11 years old). The targeted groups were non-institutionalized English speaking Californians with telephones in their residences. Individuals were contacted by telephone and asked to account for every minute within the previous 24 hours, including the amount of time spent on an activity and the location of the activity. The surveys were conducted on different days of the week as well as different seasons of the year.

Using the location descriptors provided in the CARB study, Funk et al. (1998) categorized the activities into 2 groups, “at home” (any activity at principal residence) and “away.” Each activity was assigned to 1 of 3 inhalation rate levels (low, moderate, or high) based on the level of exertion expected from the activity. Ambiguous activities were assigned to moderate inhalation rate levels. Among the adolescents and children studied, means

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were determined for the aggregate age groups. Sample sizes are shown in Table 16-76.

Funk et al. (1998) used several statistical methods, such as Chi-square, Kolmogorov-Smirnov, and Anderson-Darling, to determine whether the time spent in an activity group had a known distribution. Most of the activities performed by all individuals were assigned a low or moderate inhalation rate (see Table 16-77).

The aggregate time periods spent at home in each activity are shown in Table 16-78. Aggregate time spent at home performing different activities was compared between sexes. There were no significant differences between adolescent males and females in any of the activity groups (see Table 16-79). There were significant differences between males and females among adults in all activity groups except for the low activity group (see Table 16-58). In children, ages 6 to 11 years, differences between sex and age were observed at the low inhalation rate levels. There were significant differences ($p < 0.05$) between 2 age groups (6 to 8 years, and 9 to 11 years) and sex at the moderate inhalation rate level (see Table 16-80).

A limitation of this study was that large proportions of the respondents in the study did not participate in high-inhalation rate-level activities. The Funk et al. (1998) study was based on data from 1 geographic location, collected more than a decade ago. Thus, it may not be representative of current activities among the general population of the United States.

16.3.2.5. *Cohen Hubal et al. (2000)—Children’s Exposure Assessment: A Review of Factors Influencing Children’s Exposure and the Data Available to Characterize and Assess That Exposure*

Cohen Hubal et al. (2000) reviewed available data from the Consolidated Human Activity Database [CHAD, U.S. EPA (2009)], including activity pattern data, to characterize and assess environmental exposures to children. Data from the 2 key studies in this chapter (U.S. EPA, 1996; Wiley et al., 1991) are included in CHAD. CHAD was developed by the U.S. EPA’s National Exposure Research Laboratory to provide access to existing human activity pattern data for use in exposure and risk assessment efforts. It is available online at <http://www.epa.gov/chadnet1/>. Data from twelve activity pattern studies conducted at the city, state, and national levels are included in CHAD. CHAD contains both the original raw data from each study and data modified based on predefined format

requirements. Modifications made to data included: recoding of variables to fit into them a common activity/location code system, and standardization of time diaries to an exact 24-hour length. Detailed information on the coding system and the studies included in CHAD is available in the CHAD User Manual, available at [http://oaspub.epa.gov/chad/CHAD_Datafiles\\$.startup#Manual](http://oaspub.epa.gov/chad/CHAD_Datafiles$.startup#Manual), and in McCurdy et al. (2000).

A total of 144 activity codes and 115 location codes were used in CHAD (McCurdy et al., 2000). Although some participants in a study conducted multiple activities, many activities were only conducted within a few studies. The same is true for activity locations. The selection of exposure estimates for a particular activity or particular location should be based on study parameters that closely relate to the exposure scenario being assessed. The maximum amount of time, on average, within a majority of the studies was sleeping or taking a nap, while the maximum amount of time spent at a particular location was at home or at work, depending on the study.

Many of the limitations of CHAD data arise from the incorporation of multiple studies into the time diary functions specified in CHAD. Activities and locations were coded similarly to the NHAPS study; studies with differing coding systems were modified to fit the NHAPS codes. In some cases start times and end times from a study had to be adjusted to fit a 24-hour period. Respondents were not randomly distributed in CHAD. For example, some cities or states were over sampled because entire studies were carried out in those places. Other studies excluded large groups of people such as smokers, or non-English speakers, or people without telephones. Many surveys were age restricted, or they preferentially sampled certain target groups. As a result, users are cautioned against using random individuals in CHAD to represent the U.S. population as a whole (Stallings et al., 2002).

CHAD contains 3,009 person-days of macroactivity data for 2,640 children less than 12 years of age (Cohen Hubal et al., 2000) (see Table 16-81). The number of hours these children spent in various microenvironments are shown in Table 16-82 and the time they spent in various activities indoors at home is shown in Table 16-83.

Cohen Hubal et al. (2000) noted that CHAD contains approximately “140 activity codes and 110 location codes, but the data generally are not available for all activity locations for any single respondent. In fact, not all of the codes were used for most of the studies. Even though many codes are used in macroactivity studies, many of the activity

codes do not adequately capture the richness of what children actually do. They are much too broadly defined and ignore many child-oriented behaviors. Thus, there is a need for more and better-focused research into children's activities."

U.S. EPA updated the analysis performed by Cohen Hubal et al. (2000) using CHAD data downloaded in 2000, sorted according to the age groups recommended in *Guidance on Selecting Age Groups for Monitoring and Assessing Childhood Exposures to Environmental Contaminants* (U.S. EPA, 2005). Table 16-84 and Table 16-85 show the results. In this analysis, individual study participants within CHAD whose behavior patterns were measured over multiple days were treated as multiple 1-day activity patterns. This is a potential source of error or bias in the results because a single individual may contribute multiple data sets to the aggregate population being studied.

Advantages of the CHAD database are that it includes data from 12 activity pattern studies and is a fairly comprehensive tool for cohort development and for simulating individuals within exposure assessments. However, because the database is comprised of separate studies, issues such as quality assurance and consistency between the studies are difficult to assess. In addition, current human activity pattern surveys do not collect data on microactivities that are important to understanding exposures, especially for children, nor do they discriminate sufficiently among activities important to developing energy expenditure estimates.

16.3.2.6. Wong et al. (2000)—Adult Proxy Responses to a Survey of Children's Dermal Soil Contact Activities

Wong et al. (2000) conducted telephone surveys to gather information on children's activity patterns as related to dermal contact with soil during outdoor play on bare dirt or mixed grass and dirt surfaces. This study, the second Soil Contact Survey (SCS-II), was a follow-up to the initial Soil Contact Survey (SCS-I), conducted in 1996, that primarily focused on assessing adult behavior related to dermal contact with soil and dust (Garlock et al., 1999). As part of SCS-I, information was gathered on the behavior of children under the age of 18 years, however, the questions were limited to clothing choices and the length of time between soil contact and hand washing. Questions were posed for SCS-II to further define children's outdoor activities and hand washing and bathing frequency. For both soil contact surveys households were randomly phoned in order to obtain nationally representative results. The adult

respondents were questioned as surrogates for 1 randomly chosen child under the age of 18 residing within the household.

In the SCS-II, of 680 total adult respondents with a child in their household, 500 (73.5%) reported that their child played outdoors on bare dirt or mixed grass and dirt surfaces (identified as "players"). Those children that reportedly did not play outdoors ("non-players") were typically very young (≤ 1 year) or relatively older (≥ 14 years). Of the 500 children that played outdoors, 497 played outdoors in warm weather months (April through October) and 390 were reported to play outdoors during cold weather months (November through March). These results are presented in Table 16-86. The frequency (days/week), duration (hours/day), and total hours/week spent playing outdoors was determined for those children identified as "players" (see Table 16-87). The responses indicated that children spent a relatively high percentage of time outdoors during the warmer months, and a lesser amount of time outdoors in cold weather. The median play frequency reported was 7 days/week in warm weather and 3 days/week in cold weather. Median play duration was 3 hours/day in warm weather and 1 hour/day during cold weather months.

Adult respondents were then questioned as to how many times per day their child washed his/her hands and how many times the child bathed or showered per week, during both warm and cold weather months. This information provided an estimate of the time between skin contact with soil and removal of soil by washing (i.e., exposure time). Hand washing and bathing frequencies for child players are reported in Table 16-88. Based on these results, hand washing occurred a median of 4 times per day during both warm and cold weather months. The median frequency for baths and showers was estimated to be 7 times per week for both warm and cold weather.

Based on reported household incomes, the respondents sampled in SCS-II tended to have higher incomes than that of the general population. This may be explained by the fact that phone surveys cannot sample households without telephones. Additional uncertainty or error in the study results may have occurred as a result of the use of surrogate respondents. Adult respondents were questioned regarding child activities that may have occurred in prior seasons, introducing the chance of recall error. In some instances, a respondent did not know the answer to a question or refused to answer. Table 16-89 compares mean play duration data from SCS-II to similar activities identified in NHAPS (U.S. EPA, 1996). Table 16-90 compares the number

of times per day a child washed his or her hands, based on data from SCS-II and NHAPS. As indicated in Table 16-89 and Table 16-90, where comparison is possible, NHAPS and SCS-II results showed similarities in observed behaviors.

An advantage of this study includes the fact that a random household survey was conducted to obtain nationally representative results. A limitation of the study is that questions were limited to clothing choices and the length of time between soil contact and hand washing. In addition, the participants were questioned about events from prior seasons, which may have introduced recall error.

16.3.2.7. Graham and McCurdy (2004)— Developing Meaningful Cohorts for Human Exposure Models

Graham and McCurdy (2004) used a statistical model (general linear model and analysis of variance [GLM/ANOVA]) to assess the significance of various factors in explaining variation in time spent outdoors, indoors and in motor vehicles. These factors, which are commonly used in developing cohorts for exposure modeling, included age, sex, weather, ethnicity, day type, and precipitation. Activity pattern data from CHAD, containing 30 or more records per day, were used in the analysis (Graham and McCurdy, 2004). Data from the 2 key studies in this chapter (U.S. EPA, 1996; Wiley et al., 1991) are included in CHAD.

Table 16-91 presents data on time spent outdoors for people who spent >0 time outdoors (i.e., doers). Graham and McCurdy (2004) found that all the factors evaluated were significant ($p < 0.001$) in explaining differences in time spent outdoors (Graham and McCurdy, 2004). An evaluation of sex differences in time spent outdoors by age cohorts was also conducted. Table 16-92 presents descriptive statistics and the results of the 2-sample Kolmogorov-Smirnov (K-S) test for this evaluation. As shown in Table 16-92, there were statistically significant sex differences in time spent outdoors starting with the 6 to 10 year old age category and continuing through all age groups, up to and including >64 years of age. In addition, Graham and McCurdy (2004) evaluated the effect of physical activity and concluded that this was the most important factor in explaining time spent outdoors. For time spent indoors (see Table 16-93), there were statistically significant effects for all the factors evaluated, with sex, weather, and day type being the most important variables. Regarding time spent in motor vehicles (see Table 16-94), precipitation was

the only factor found to have no significant effects (Graham and McCurdy, 2004).

Based on the results of these analyses, Graham and McCurdy (2004) noted that “besides age and sex, other important attributes for defining cohorts are the physical activity level of individuals, weather factors such as daily maximum temperature in combination with months of the year, and combined weekday/weekend with employment status.” The authors also noted that even though the factors evaluated were found to be statistically significant in explaining differences in time spent outdoors, indoors, and in motor vehicles, “parameters such as lifestyle and life stages that are absent from CHAD might have reduced the amount of unexplained variance.” The authors recommended that, in defining cohorts for exposure modeling, age and sex should be used as “first-order” attributes, followed by physical activity level, daily maximum temperature, and day type (weekend/weekday or day-of-the-week/working status) (Graham and McCurdy, 2004).

The CHAD database is a fairly comprehensive tool for cohort development and for simulating individuals within exposure assessments. However, the database is comprised of 12 separate studies, and because of this, issues such as quality assurance and consistency between the studies are difficult to assess. In addition, current human activity pattern surveys do not collect data on microactivities that are important to understanding exposures, especially for children, nor do they discriminate sufficiently among activities important to developing energy expenditure estimates. Other limitations of the CHAD database are described earlier in this chapter by Cohen Hubal et al. (2000) in Section 16.3.2.5.

16.3.2.8. Juster et al. (2004)—*Changing Times of American Youth: 1983–2003*

Juster et al. (2004) evaluated changes in time use patterns of children by comparing data collected in a 1981–1982 pilot study of children ages 6 to 17 to data from the 2002–2003 Child Development Supplement (CDS) to the Panel Study of Income Dynamics (PSID). The 1981–1982 pilot study is the same study described in Timmer et al. (1985). The 2002–2003 CDS gathered 24-hour time diary data on 2,908 children ages 6 to 17; as was done in the 1997 CDS, information was collected on 1 randomly selected weekday and 1 randomly selected weekend day (Juster et al., 2004).

Table 16-95 and Table 16-96 present the mean time children spent (in minutes/day) performing major activities on weekdays and weekend days,

respectively, for the years 1981–1982 and 2002–2003. Table 16-97 shows the weekly time spent in these activities for the years 1981–1982 and 2002–2003. Juster et al. (2004) noted that the time spent in school and studying increased while time spent in active sports and outdoors activities decreased during the period studied.

An advantage of this survey is that diary recordings of activity patterns were kept and the data obtained were not based entirely on recall. Another advantage is that because parents assisted younger children with keeping their diaries and with interviews, minimizing any bias that may have been created by having younger children record their own data. A limitation associated with this study is that the data from the Timmer et al. (1985) study were collected in 1981 and it is likely that the activity patterns of children have changed from 1981 to the present. Another limitation is that the data from the CDS study do not provide overall annual estimates of children's time use since data were collected only during the time of the year when children attended school and not during school vacations.

16.3.2.9. Vandewater et al. (2004)—Linking Obesity and Activity Level With Children's Television and Video Game Use

Vandewater et al. (2004) evaluated children's media use and participation in active and sedentary activities using 24-hour time-use diaries collected in 1997, as part of the Child Development Supplement to the Panel Study of Income Dynamics. The PSID is an ongoing, longitudinal study of U.S. individuals and their families conducted by the Survey Research Center of the University of Michigan. In 1997, PSID families with children younger than 12 years of age completed the CDS and reported all activities performed by the children on 1 randomly selected weekday and 1 randomly selected weekend day. Since minorities, low-income families, and less educated individuals were oversampled in the PSID, sample weights were applied to the data (Vandewater et al., 2004). More information on the CDS can be found [on-line](http://psidonline.isr.umich.edu/CDS/) at <http://psidonline.isr.umich.edu/CDS/>.

Using time use diary data from 2,831 children participating in the CDS, Vandewater et al. (2004) estimated the time in minutes over the 2-day study period (i.e., sum of time spent on 1 weekday and 1 weekend day) that children spent watching television, playing games on video games consoles or computers, reading, and using computers for other purposes besides playing games. In addition, the time

spent participating in highly active (i.e., playing sports), moderately active (i.e., fishing, boating, camping, taking music lessons, and singing), and sedentary (i.e., using the phone, doing puzzles, playing board games, and relaxing) activities was determined. Table 16-98 presents the means and standard deviations for the time spent in the selected activities by age and sex.

A limitation of this study is that the survey was not designed for exposure assessment purposes. Therefore, the time use data set may be biased. However, the survey provides a database of current information on various human activities. This information can be used to assess various exposure pathways and scenarios associated with these activities.

16.3.2.10. U.S. Department of Labor (2007)—American Time Use Survey, 2006 Results

The American Time Use Study has been conducted annually since 2003 by the U.S. Department of Labor's (DOL) Bureau of Labor Statistics (U.S. Department of Labor, 2007). The purpose of the study is to collect "data on what activities people do during the day and how much time they spend doing them." In 2006, the survey focused on "the time Americans worked, did household activities, cared for household children, participated in educational activities, and engaged in leisure and sports activities." Approximately 13,000 individuals, 15 years of age and older, were interviewed during 2006. Participants were randomly selected and interviewed using the CATI method and were asked to recall their activities on the day before the interview. The survey response rate was 55.1% (U.S. Department of Labor, 2007). Data were collected for all days of the week, including weekends (i.e., 10% of the individuals were interviewed about their activities on 1 of the 5 weekdays, and 25% of the individuals were interviewed about their activities on 1 of the 2 weekend days). Demographic information, including age, sex, race/ethnicity, marital status, and educational level were also collected, and sample weights were applied to records to "reduce bias in the estimates due to differences in sampling and response rates across populations and days of the week." Data were collected for 17 major activities, which were subsequently combined into 12 categories for publication of the results. Table 16-99 provides information on the average amount of time spent in the 12 major time use categories by sex, age, race/ethnicity, marital status, and educational level (U.S. Department of Labor, 2007). Estimates of time

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use in sub-categories of the 12 major categories are presented in Table 16-100. The majority of time was spent engaging in personal care activities (9.41 hours/day) which included sleeping (8.63 hours/day), followed by leisure and sports activities (5.09 hours/day), and work activities (3.75 hours/day). Note that because these data are averaged over both weekdays and weekends for the entire year, the amount of time spent daily on work-related activities does not reflect that of a typical work day.

Table 16-101 provides estimates of time use for all children ages 15 to 19 years by sex. It also provides a more detailed breakdown of the Leisure and Sports category for all children, ages 15 to 19 years old.

The limitation of this study is that it did not account for all activities during the day and therefore estimates about total time indoors and outdoors could not be calculated. The advantages are the large sample size, the representativeness of the sample, and the currency of the data.

16.3.2.11. Nader et al. (2008)—Moderate-to-Vigorous Physical Activity From Ages 9 to 15 Years

Nader et al. (2008) conducted a longitudinal study of 1,032 children from ages 9 to 15 years. The purpose of the study was to determine the amount of time children 9 to 15 years of age engaged in moderate-to-vigorous physical activities (MVPA) and compare results with the recommendations issued by the U.S. Department of Health and Human Services and the U.S. Department of Agriculture (USDA, 2005) of a minimum of 60 minutes/day. Participants were recruited from university-based community hospitals located in Arkansas, California, Kansas, Massachusetts, Pennsylvania, Virginia, Washington, North Carolina, and Wisconsin. Children's activity levels were recorded for 4 to 7 days using an accelerometer, set so that it recorded minute-by-minute movement counts. The study participants included 517 boys and 515 girls.

The study found that at age nine years, children engaged in 3 hours of MVPA/day. By age 15 years, the amount of time engaged in MVPA was dropped to 49 minutes/day on weekdays and 35 minutes/day on weekends. Boys spent 18 more minutes/day of MVPA than girls on weekdays and 13 more minutes/day on weekends. Estimates of the mean time spent in MVPA by various age groups are presented in Table 16-102.

Advantages of this study include the fact that both weekdays and weekends were included in the

study and the use of an accelerometer to measure physical activity. A limitation of the study is the fact that the sample of children was not nationally representative of the U.S. population. In addition, the study did not provide information about the amount of time spent at specific activities.

16.4. OCCUPATIONAL MOBILITY

16.4.1. Key Occupational Mobility Studies

16.4.1.1. Carey (1988)—Occupational Tenure in 1987: Many Workers Have Remained in Their Fields

Carey (1988) presented median occupational and employer tenure for different age groups, sex, earnings, ethnicity, and educational attainment. Occupational tenure was defined as “the cumulative number of years a person worked in his or her current occupation, regardless of number of employers, interruptions in employment, or time spent in other occupations” (Carey, 1988). The information presented was obtained from supplemental data to the January 1987 Current Population Study, a U.S. Census Bureau publication. Carey (1988) did not present information on the survey design.

The median occupational tenure by age and sex, race, and employment status are presented in Table 16-103, Table 16-104, and Table 16-105, respectively. The median occupational tenure of the working population (109.1 million people) 16 years of age and older in January of 1987 was 6.6 years (see Table 16-103). Table 16-103 also shows that median occupational tenure increased from 1.9 years for workers 16 to 24 years old to 21.9 years for workers 70 years and older. The median occupational tenure for men 16 years and older was higher (7.9 years) than for women of the same age group (5.4 years). Table 16-104 indicates that Whites had longer occupational tenure (6.7 years) than Blacks (5.8 years), and Hispanics (4.5 years). Full-time workers had more occupational tenure than part-time workers 7.2 years and 3.1 years, respectively (see Table 16-105).

Table 16-106 presents the median occupational tenure among major occupational groups. The median tenure ranged from 4.1 years for service workers to 10.4 years for people employed in farming, forestry, and fishing.

The strength of an individual's attachment to a specific occupation has been attributed to the individual's investment in education (Carey, 1988). Carey (1988) reported the median occupational tenure for the surveyed working population by age and educational level. Workers with 5 or more years of college had the highest median occupational tenure

of 10.1 years. Workers that were 65 years and older with 5 or more years of college had the highest occupational tenure level of 33.8 years. The median occupational tenure was 10.6 years for self-employed workers and 6.2 years for wage and salary workers (Carey, 1988).

A limitation associated with this study is that the survey design employed in the data collection was not presented, though it can be found on the U.S. Census Bureau's website. Therefore, the validity and accuracy of the data set cannot be determined. Another limitation is that only median values were reported in the study. An advantage of this study is that occupational tenure (years spent in a specific occupation) was obtained for various age groups by sex, ethnicity, employment status, and educational level. Another advantage of this study is that the data were based on a survey population which appears to represent the general U.S. population.

16.4.1.2. Carey (1990)—Occupational Tenure, Employer Tenure, and Occupational Mobility

Carey (1990) conducted another study that was similar in scope to the study of Carey (1988). The January 1987 Current Population Study was used. This study provided data on occupational mobility and employer tenure in addition to occupational tenure. Occupational tenure was defined in Carey (1988) as the "the cumulative number of years a person worked in his or her current occupation, regardless of number of employees, interruptions in employment, or time spent in other locations." Employer tenure was defined as "the length of time a worker has been with the same employer," while occupational mobility was defined as "the number of workers who change from 1 occupation to another" (Carey, 1990). Occupational mobility was measured by asking individuals who were employed in both January 1986 and January 1987 if they were doing the same kind of work in each of these months (Carey, 1990). Carey (1990) further analyzed the occupational mobility data and obtained information on entry and exit rates for occupations. These rates were defined as "the percentage of persons employed in an occupation who had voluntarily entered it from another occupation" and an exit rate was defined as "the percentage of persons employed in an occupation who had voluntarily left for a new occupation" (Carey, 1990).

Table 16-107 shows the voluntary occupational mobility rates in January 1987 for workers 16 years and older. For all workers, the overall voluntary occupational mobility rate during that year was 5.3%.

These data also show that younger workers left occupations at a higher rate than older workers. Carey (1990) reported that 10 million of the 100.1 million individuals employed in January 1986 and in January 1987 had changed occupations during that period, resulting in an overall mobility rate of 9.9%. Executive, administrative, and managerial occupations had the highest entry rate of 5.3%, followed by administrative support (including clerical) at 4.9%. Sales had the highest exit rate of 5.3% and service had the 2nd highest exit rate of 4.8% (Carey, 1990). In January 1987, the median employer tenure for all workers was 4.2 years. The median employee tenure was 12.4 years for those workers that were 65 years of age and older (Carey, 1990).

Because the study was conducted by Carey (1990) in a manner similar to that of the previous study (Carey, 1988), the same advantages and disadvantages associated with Carey (1988) also apply to this data set.

16.5. POPULATION MOBILITY

16.5.1. Key Population Mobility Studies

16.5.1.1. Johnson and Capel (1992)—A Monte Carlo Approach to Simulating Residential Occupancy Periods and Its Application to the General U.S. Population

Johnson and Capel (1992) developed a methodology to estimate the distribution of the residential occupancy period (ROP) in the national population. ROP denotes the time (years) between a person moving into a residence and the time the person moves out or dies. The methodology used a Monte Carlo approach to simulate a distribution of ROP for 500,000 persons using data on population, mobility, and mortality.

The methodology consisted of 6 steps. The 1st step defined the population of interest and categorized them by location, sex, age, sex, and race. Next the demographic groups were selected and the fraction of the specified population that fell into each group was developed using U.S. Census Bureau data. A mobility table was developed based on census data, which provided the probability that a person with specified demographics did not move during the previous year. The fifth step used data on vital statistics published by the National Center for Health Statistics and developed a mortality table which provided the probability that individuals with specific demographic characteristics would die during the upcoming year. As a final step, a computer based algorithm was used to apply a Monte Carlo approach to a series of persons selected at random from the population being analyzed.

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Table 16-108 presents the results for residential occupancy periods for the total population, by sex. The estimated mean ROP for the total population was 11.7 years. The distribution was skewed (Johnson and Capel, 1992): the 25th, 50th, and 75th percentiles were 3, 9, and 16 years, respectively. The 90th, 95th, and 99th percentiles were 26, 33, and 47 years, respectively. The mean ROP was 11.1 years for males and 12.3 years for females, and the median value was 8 years for males and 9 years for females.

Descriptive statistics for groups defined by current ages were also calculated. These data, presented by sex, are shown in Table 16-109. The mean ROP increases from age 3 to age 12 years and there is a noticeable decrease at age 24 years. However, there is a steady increase from age 24 through age 81 years.

There are a few biases within this methodology that have been noted by the authors. The probability of not moving is estimated as a function only of sex and age. The Monte Carlo process assumes that this probability is independent of (1) the calendar year to which it is applied, and (2) the past history of the person being simulated. These assumptions, according to Johnson and Capel (1992), are not entirely correct. They believe that extreme values are a function of sample size and will, for the most part, increase as the number of simulated persons increases.

16.5.1.2. U.S. Census Bureau (2008a)—American Housing Survey for the United States in 2007

This survey is a national sample of 55,000 interviews in which data were collected from present owners, renters, Black householders, and Hispanic householders. The data reflect the number of years a unit has been occupied and represent all occupied housing units that the residents' rented or owned at the time of the survey.

The results of the survey pertaining to residence time of owner/renter occupied units in the United States are presented in Table 16-110. Using the data in Table 16-110, the percentages of householders living in houses for specified time ranges were determined and are presented in Table 16-111. Based on the U.S. Census Bureau data in Table 16-111, the 50th percentile and the 90th percentile values were calculated for the number of years lived in the householder's current house. These values were calculated by apportioning the total sample size (110,692 households) to the indicated percentile associated with the applicable range of years lived in the current home. Assuming an even distribution

within the appropriate range, the 50th and 90th percentile values for years living in the current home were determined to be 8.0 and 32.0 years, respectively. Based on the above data, 8 and 32 years are assumed to best represent a central tendency estimate of length of residence and upper percentile estimate of residence time, respectively.

A limitation associated with the above analysis is the assumption that there is an even distribution within the different ranges. As a result, the 50th and 90th percentile values may be biased.

16.5.2. Relevant Population Mobility Studies

16.5.2.1. Israeli and Nelson (1992)—Distribution and Expected Time of Residence for U.S. Households

In risk assessments, the average current residence time (time since moving into current residence) has often been used as a substitute for the average total residence time (time between moving into and out of a residence) (Israeli and Nelson, 1992). Israeli and Nelson (1992) have estimated distributions of expected time of residence for U.S. households. Distributions and averages for both current and total residence times were calculated for several housing categories using the 1985 and 1987 U.S. Census Bureau housing survey data. The total residence time distribution was estimated from current residence time data by modeling the moving process (Israeli and Nelson, 1992). Israeli and Nelson (1992) estimated the average total residence time for a household to be approximately 4.6 years or 1/6 of the expected life span (see Table 16-112). The maximal total residence time that a given fraction of households will live in the same residence is presented in Table 16-113. For example, only 5% of the individuals in the "All Households" category will live in the same residence for 23 years and 95% will move in less than 23 years.

The authors note that the data presented are for the expected time a household will stay in the same residence. The data do not predict the expected residence time for each member of the household, which is generally expected to be smaller (Israeli and Nelson, 1992). These values are more realistic estimates for the individual total residence time, than the average time a household has been living at its current residence. The expected total residence time for a household is consistently less than the average current residence time. This is the result of greater weighting of short residence time when calculating the average total residence time than when calculating the average current residence time (Israeli and Nelson, 1992). When averaging total residence

over a time interval, frequent movers may appear several times, but when averaging current residence times, each household appears only once (Israeli and Nelson, 1992). According to Israeli and Nelson (1992), the residence time distribution developed by the model is skewed and the median values are considerably less than the means, which are less than the average current residence times.

Advantages of this study are the large sample size and its representativeness to the U.S. population, since it was based on U.S. Census Bureau housing survey data. Several limitations of the study have been noted by Israeli and Nelson (1992) above. An additional limitation is the age of the study and the fact that the U.S. Census Bureau housing survey is based on recall data.

16.5.2.2. National Association of Realtors (NAR) (1993)—The Home Buying and Selling Process

The NAR survey was conducted by mailing a questionnaire to 15,000 home buyers throughout the United States who purchased homes during the second half of 1993. The survey was conducted in December 1993 and 1,763 usable responses were received, equaling a response rate of 12% (NAR, 1993). Of the respondents, 41% were first time buyers. Home buyer names and addresses were obtained from Dataman Information Services (DIS). DIS compiles information on residential real estate transactions from more than 600 counties throughout the United States using courthouse deed records. Most of the 250 Metropolitan Statistical Areas are also covered in the DIS data compilation.

The home buyers were questioned on the length of time they owned their previous home. The typical homebuyer (40%) was found to have lived in their previous home between 4 and 7 years (see Table 16-114). The survey results indicate that the average tenure of home buyers is 7.1 years based on an overall residence history of the respondents (NAR, 1993). In addition, the median length of residence in respondents' previous homes was found to be 6 years (see Table 16-115).

The distances the respondents moved to their new homes were typically short distances. Data presented in Table 16-116 indicate that the mean distances range from 230 miles for new home buyers and 270 miles for repeat buyers to 110 miles for first time buyers and 190 for existing home buyers. Seventeen percent (17%) of respondents purchased homes over 100 miles from their previous homes and 49% purchased homes less than 10 miles away.

Advantages of this study are the large sample size and its representativeness to the U.S. population, since it was based on 15,000 home buyers throughout the United States. A limitation of the study is the fact that the data are over 17 years old.

16.5.2.3. U.S. Census Bureau (2008b)—Current Population Survey 2007, Annual Social and Economic Supplement

The Current Population Survey is conducted monthly by the U.S. Census Bureau. The sample is selected to be statistically representative of the civilian non-institutionalized U.S. population. The data presented in Table 16-117 and Table 16-118 are yearly averages for the year 2006–2007. Approximately 50,000 people are surveyed each month.

Table 16-117 presents data on general mobility by demographic factors (i.e., sex, age, education, marital status, nativity, tenure, and poverty status). “Movers” are respondents who did not report living at the same residence 1 year earlier than the date of interview. Of the total number of respondents, 13% had moved residences. Of those, 65% moved within the same county. Table 16-118 presents data on these intercounty moves and shows that of these intercounty moves, over 60% moved less than 200 miles.

Advantages of this study are the large sample size, the currency of the data set, and its representativeness to the U.S. population. Limitations are that the study is based on recall data and that due to the Current Population Survey design, data for states are not as reliable as nationwide estimates.

16.6. REFERENCES FOR CHAPTER 16

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Table 16-7. Mean Time (minutes/day) Children Under 12 Years of Age Spent in Ten Major Activity Categories, for All Respondents and Doers

Activity Category	Mean Duration (All)	% Doers ^a	Mean Duration (Doers) ^a	Median Duration (Doers) ^a	Maximum Duration (Doers) ^a	Detailed Activity with Highest Average Minutes
Work-related ^b	10	25	39	30	405	Eating at Work/School/Daycare
Household ^c	53	86	61	40	602	Travel to Household
Childcare ^d	<1	<1	83	30	290	Other Child Care
Good/Service ^e	21	26	81	60	450	Errands
Personal Needs and Care ^f	794	100	794	770	1,440	Night Sleep
Education ^g	110	35	316	335	790	School Classes
Organizational Activities ^h	4	4	111	105	435	Attend Meetings
Entertain/Social ⁱ	15	17	87	60	490	Visiting with Others
Recreation ^j	239	92	260	240	835	Games
Communication/Passive Leisure ^k	192	93	205	180	898	TV Use
Don't know/Not coded	2	4	41	15	600	-
All Activities	1,440	-	-	-	-	-

^a Doers indicate the respondents who reported participating in each activity category.

^b Includes: travel to and during work/school; children's paid work; eating at work/school/daycare; and accompanying or watching adult at work.

^c Includes: food preparation; meal cleanup; cleaning; clothes care; car and home repair/painting; building a fire; plant and pet care; and traveling to household.

^d Includes: baby and child care; helping/teaching children; talking and reading; playing while caring for children; medical care; travel related to child care; and other care.

^e Includes: shopping; medical appointments; obtaining personal care services (e.g., haircuts), government and financial services, and repairs; travel related to goods and services; and errands.

^f Includes: bathing, showering, and going to bathroom; medical care; help and care; meals; night sleep and daytime naps, dressing and grooming; and travel for personal care.

^g Includes: student and other classes; daycare; homework; library; and travel for education.

^h Includes: attending meetings and associated travel.

ⁱ Includes: sports events; eating and amusements; movies and theater; visiting museums, zoos, art galleries, etc.; visiting others; parties and other social events; and travel to social activities.

^j Includes: active sports; leisure; hobbies; crafts; art; music/drama/dance; games; playing; and travel to leisure activities.

^k Includes: radio and television use; reading; conversation; paperwork; other passive leisure; and travel to passive leisure activities.

Source: Wiley et al. (1991).

Table 16-8. Mean Time (minutes/day) Children Under 12 Years of Age Spent in Ten Major Activity Categories, by Age and Sex

Activity Category ^a	Boys									
	Birth to 1 Month	1 to <3 Months	3 to <6 Months	6 to <12 Months	1 to <2 Years	2 to <3 Years	3 to <6 Years	6 to <11 Years	11 Years ^b	Birth to 11 Years
Work-related	0	0	0	1	8	9	10	12	13	11
Household	12	30	49	28	35	44	44	61	63	58
Childcare	0	0	0	0	0	0	0	0	3	2
Goods/Services	0	16	14	28	27	14	28	22	24	26
Personal Needs and Care	910	1,143	937	919	903	889	802	726	707	802
Education	180 ^c	0	75	70	33	69	67	120	120	100
Organizational Activities	0	0	0	0	7	0	5	11	16	6
Entertainment/Social	0	0	0	0	8	6	15	15	43	18
Recreation	0	0	26	104	314	304	294	265	227	228
Communication/Passive Leisure	338	250	339	292	106	103	175	208	226	226
Sample Sizes (Unweighted)	3	7	15	31	54	62	151	239	62	624
Activity Category ^a	Girls									
	Birth to 1 Month	1 to <3 Months	3 to <6 Months	6 to <12 Months	1 to <2 Years	2 to <3 Years	3 to <6 Years	6 to <11 Years	11 Years ^b	Birth to 11 Years
Work-related	0	0	5	1	3	22	9	10	19	11
Household	28	29	23	25	45	65	49	67	78	58
Childcare	0	0	0	0	0	0	0	2	9	2
Goods/Services	0	18	14	24	24	34	31	26	15	26
Personal Needs and Care	1,123	1,115	971	922	894	858	820	747	703	802
Education	0	0	110	94	25	40	81	134	151	100
Organizational Activities	0	0	0	0	0	2	3	8	13	6
Entertainment/Social	0	0	0	1	13	6	16	17	52	18
Recreation	0	0	10	147	256	305	270	224	175	228
Communication/Passive Leisure	290	278	308	226	179	107	161	203	225	189
Sample Sizes (Unweighted)	4	10	11	23	43	50	151	225	59	576

^a See Table 16-3 for a description of what is included in each activity category.

^b The source data end at 11 years of age, so the 11 to <16 year category is truncated and the 16 to <21 year category is not included.

^c The data for this age group and category are 2 values of 0 and 1 of 540.

Note: Column totals may not sum to 1,440 due to rounding.

Source: U.S. EPA analysis of source data used by Wiley et al. (1991).

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Table 16-9. Mean Time (minutes/day) Children Under 12 Years of Age Spent in Ten Major Activity Categories, Grouped by Seasons and Regions

Activity Category ^a	Season					Region of California			
	Winter (Jan–Mar)	Spring (Apr–June)	Summer (July–Sept)	Fall (Oct–Dec)	All Seasons	Southern Coast	Bay Area	Rest of State	All Regions
Work-related	10	10	6	13	10	10	10	8	10
Household	47	58	53	52	53	45	62	55	53
Childcare	<1	1	<1	<1	<1	<1	<1	1	<1
Goods/Services	19	17	26	23	21	20	21	23	21
Personal Needs and Care	799	774	815	789	794	799	785	794	794
Education	124	137	49	131	110	109	115	109	110
Organizational Activities	3	5	5	3	4	2	6	6	4
Entertainment/Social	14	12	12	22	15	17	10	16	15
Recreation	221	243	282	211	239	230	241	249	239
Communication/ Passive Leisure	203	180	189	195	192	206	190	175	192
Don't know/Not coded	<1	2	3	<1	2	1	1	3	2
All Activities ^b	1,442	1,439	1,441	1,441	1,441	1,440	1,442	1,439	1,441
Sample Sizes (Unweighted)	318	204	407	271	1,200	224	263	713	1,200

^a See Table 16-3 for a description of what is included in each activity category.

^b The column totals may not be equal to 1,440 due to rounding.

Source: Wiley et al. (1991).

Table 16-10. Time (minutes/day) Children Under 12 Years of Age Spent in 6 Major Location Categories, for All Respondents and Doers

Location Category	Mean Duration (All)	% Doers ^a	Mean Duration (Doers) ^a	Median Duration (Doers) ^a	Maximum Duration (Doers) ^a	Detailed Location with Highest Average Time
Home	1,078	99	1,086	1,110	1,440	Home – Bedroom
School/Childcare	109	33	330	325	1,260	School or Daycare Facility
Friend's/Other's House	80	32	251	144	1,440	Friend's/Other's House – Bedroom
Stores, Restaurants, Shopping Places	24	35	69	50	475	Shopping Mall
In-transit	69	83	83	60	1,111	Traveling in Car
Other Locations	79	57	139	105	1,440	Park, Playground
Don't Know/Not Coded	<1	1	37	30	90	-
All Locations	1,440	-	-	-	-	-

^a Doers indicate the respondents who reported participating in each activity category.

Source: Wiley et al. (1991).

Table 16-11. Mean Time (minutes/day) Children Under 12 Years of Age Spent in 6 Location Categories, Grouped by Age and Sex

Location Category	Boys									
	Birth to 1 Month	1 to <3 Months	3 to <6 Months	6 to <12 Months	1 to <2 Years	2 to <3 Years	3 to <6 Years	6 to <11 Years	11 Years ^a	Birth to 11 Years
Home	938	1,295	1,164	1,189	1,177	1,161	1,102	1,016	1,010	1,079
School/Childcare	0	1	26	53	73	86	79	110	99	89
Friend's/Other's House	418	40	127	63	54	69	89	110	111	95
Stores, Restaurants, Shopping Places	0	14	21	36	29	22	24	23	20	24
In-transit	77	51	69	63	56	61	67	64	72	65
Other Locations	7	40	33	36	52	41	78	116	127	88
Don't Know/Not Coded	0	0	0	0	0	0	0	0	0	0
Sample Sizes (Unweighted)	3	7	15	31	54	62	151	239	62	624
Location Category	Girls									
	Birth to 1 Month	1 to <3 Months	3 to <6 Months	6 to <12 Months	1 to <2 Years	2 to <3 Years	3 to <6 Years	6 to <11 Years	11 Years ^a	Birth to 11 Years
Home	1,285	1,341	1,151	1,192	1,162	1,065	1,118	1,012	862	1,058
School/Childcare	0	0	109	99	56	61	78	116	128	95
Friend's/Other's House	0	12	44	32	109	103	66	119	193	103
Stores, Restaurants, Shopping Places	0	13	20	15	21	40	32	25	24	27
In-transit	73	56	42	58	55	86	78	70	95	74
Other Locations	83	19	73	43	38	86	67	97	137	84
Don't Know/Not Coded	0	0	0	0	0	0	1	0	0	0
Sample Sizes (Unweighted)	4	10	11	23	43	50	151	225	59	576

^a The source data end at 11 years of age, so the 11 to <16 year category is truncated and the 16 to <21 year category is not included.

Note: Column totals may not sum to 1,440 due to rounding.

Source: U.S. EPA analysis of source data used by Wiley et al. (1991).

Location Category	Season					Region of California			
	Winter (Jan–Mar)	Spring (Apr–June)	Summer (July–Sept)	Fall (Oct–Dec)	All Seasons	Southern Coast	Bay Area	Rest of State	All Regions
Home	1,091	1,042	1,097	1,081	1,078	1,078	1,078	1,078	1,078
School/Childcare	119	141	52	124	109	113	103	108	109
Friend's/Other's House	69	75	108	69	80	73	86	86	80
Stores, Restaurants, Shopping Places	22	21	30	24	24	26	23	23	24
In transit	75	75	60	65	69	71	73	63	69
Other Locations	63	85	93	76	79	79	76	81	79
Don't Know/Not Coded	<1	<1	<1	<1	<1	<1	<1	<1	<1
All Locations ^a	1,439	1,439	1,440	1,439	1,439	1,439	1,440	1,440	1,439
Sample Sizes (Unweighted N's)	318	204	407	271	1,200	224	263	713	1,200

^a The column totals may not sum to 1,440 due to rounding.

Source: Wiley et al. (1991).

Potential Exposures	Boys									
	Birth to 1 Month	1 to <3 Months	3 to <6 Months	6 to <12 Months	1 to <2 Years	2 to <3 Years	3 to <6 Years	6 to <11 Years	11 Years ^a	Birth to 11 Years
Gasoline Fume	3	9	0	2	1	4	2	2	7	3
Gas Oven Fume	0	0	2	2	1	3	0	1	0	1
Sample Size (Unweighted N)	3	7	15	31	54	62	151	239	62	624
Potential Exposure	Girls									
	Birth to 1 Month	1 to <3 Months	3 to <6 Months	6 to <12 Months	1 to <2 Years	2 to <3 Years	3 to <6 Years	6 to <11 Years	11 Years ^a	Birth to 11 Years
Gasoline Fume	0	3	0	3	1	2	1	2	1	2
Gas Oven Fume	0	0	0	0	0	3	2	1	0	1
Sample Size (Unweighted N)	4	10	11	23	43	50	151	225	59	576

^a The source data end at 11 years of age, so the 11 to <16 year category is truncated and the 16 to <21 year category is not included.

Source: U.S. EPA analysis of source data used by Wiley et al. (1991).

Table 16-14. Mean Time (minutes/day) Children Under 12 Years of Age Spent Indoors and Outdoors, Grouped by Age and Sex

Age Group	Boys			Girls		
	N	Indoor ^a	Outdoor ^b	N	Indoor ^a	Outdoor ^b
Birth to <1 Month	3	1,440	0	4	1,440	0
1 to <3 Months	7	1,432	8	10	1,431	9
3 to <6 Months	15	1,407	33	11	1,421	19
6 to <12 Months	31	1,322	118	23	1,280	160
1 to <2 Years	54	1,101	339	43	1,164	276
2 to <3 Years	62	1,121	319	50	1,102	338
3 to <6 Years	151	1,117	323	151	1,140	300
6 to <11 Years	239	1,145	295	225	1,183	255
11 Years ^c	62	1,166	274	59	1,215	225
All Ages	624	1,181	258	576	1,181	258

^a Time indoors was estimated by adding the average times spent performing indoor activities (household work, child care, personal needs and care, education, and communication/passive leisure) and half the time spent in each activity which could have occurred either indoors or outdoors (i.e., work-related, goods/services, organizational activities, entertainment/social, don't know/not coded).
^b Time outdoors was estimated by adding the average time spent in recreation activities and half the time spent in each activity which could have occurred either indoors or outdoors (i.e., work-related, goods/services, organizational activities, entertainment/social, don't know/not coded).

^c The source data end at 11 years of age, so the 11 to <16 year category is truncated and the 16 to <21 year category is not included.
 N = Sample size.

Note: Indoor and outdoor minutes/day may not sum to 1,440 minutes/day due to rounding.

Source: U.S. EPA analysis of source data used by Wiley et al. (1991).

Table 16-15. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined Whole Population and Doers Only, Children <21 Years															
Age (years)	N	Mean	Min	Percentiles											Max
				1	2	5	10	25	50	75	90	95	98	99	
Kitchen—Whole Population															
Birth to <1	63	36	0	0	0	0	0	0	10	70	109	125	134	158	195
1 to <2	118	56	0	0	0	0	0	0	40	90	132	195	232	242	392
2 to <3	118	48	0	0	0	0	0	0	30	75	120	146	173	188	215
3 to <6	357	47	0	0	0	0	0	0	30	75	105	150	180	222	362
6 to <11	497	42	0	0	0	0	0	0	30	60	105	135	150	196	690
11 to <16	466	37	0	0	0	0	0	0	24	55	90	130	180	249	450
16 to <21	481	34	0	0	0	0	0	0	15	50	90	130	170	195	545
Kitchen—Doers Only															
Birth to <1	33	69	10	10	10	13	15	30	70	90	124	133	157	176	195
1 to <4	76	87	10	10	13	19	30	45	70	110	173	214	240	281	392
2 to <3	80	70	10	10	11	15	15	30	60	105	136	155	184	195	215
3 to <6	252	67	2	5	10	15	15	30	60	90	133	165	210	232	362
6 to <11	342	61	1	2	5	10	15	30	50	79	120	145	172	229	690
11 to <16	323	54	1	2	4	5	10	20	40	65	114	150	218	281	450
16 to <21	305	54	1	2	3	5	10	20	35	65	120	159	194	209	545
Living Room/Family Room/Den—Whole Population															
Birth to <1	63	279	0	0	0	0	0	90	210	420	666	724	788	938	1,180
1 to <2	118	172	0	0	0	0	0	25	120	279	410	533	616	652	810
2 to <3	118	173	0	0	0	0	0	56	138	239	346	499	599	680	1,125
3 to <6	357	164	0	0	0	0	0	45	122	240	376	476	680	742	900
6 to <11	497	137	0	0	0	0	0	30	95	210	322	420	547	612	695
11 to <16	466	170	0	0	0	0	0	36	120	240	395	570	687	774	1,305
16 to <21	481	157	0	0	0	0	0	0	120	240	370	501	690	819	1,080
Living Room/Family Room/Den—Doers Only															
Birth to <1	54	326	25	28	31	57	90	136	268	450	686	744	789	973	1,180
1 to <2	93	219	10	15	19	25	60	90	180	310	444	540	642	667	810
2 to <3	105	195	1	5	10	22	34	90	150	255	377	527	603	691	1,125
3 to <6	290	202	5	8	19	30	50	90	153	270	415	498	705	778	900
6 to <11	403	169	5	10	10	20	30	60	130	240	349	449	579	655	695
11 to <16	380	209	2	10	16	30	45	85	165	275	436	594	705	776	1,305
16 to <21	352	214	5	10	15	24	40	85	165	285	440	547	720	909	1,080
Dining Room—Whole Population															
Birth to <1	63	9	0	0	0	0	0	0	0	0	30	70	86	96	105
1 to <2	118	19	0	0	0	0	0	0	0	0	17	60	90	176	315
2 to <3	118	19	0	0	0	0	0	0	0	0	30	80	105	146	150
3 to <6	357	17	0	0	0	0	0	0	0	0	10	60	96	133	300
6 to <11	497	13	0	0	0	0	0	0	0	0	5	57	70	120	225
11 to <16	466	11	0	0	0	0	0	0	0	0	0	33	65	119	390
16 to <21	481	7	0	0	0	0	0	0	0	0	0	30	45	90	330
Dining Room—Doers Only															
Birth to <1	9	60	15	-	-	-	-	-	-	-	-	-	-	-	105
1 to <2	32	72	10	12	13	16	30	34	53	66	110	237	287	301	315
2 to <3	34	65	15	15	15	18	29	30	60	90	105	134	150	150	150
3 to <6	93	65	10	10	10	15	16	30	55	85	120	150	209	286	300
6 to <11	126	53	5	5	5	6	15	30	45	60	98	135	150	196	225
11 to <16	90	59	5	5	5	10	15	30	38	69	122	166	202	283	390
16 to <21	67	50	5	5	7	15	15	20	35	60	90	124	135	201	330

Table 16-15. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined Whole Population and Doers Only, Children <21 Years (continued)

Age (years)	N	Mean	Min	Percentiles											Max	
				1	2	5	10	25	50	75	90	95	98	99		
Bathroom—Whole Population																
Birth to <1	63	16	0	0	0	0	0	0	0	0	30	40	59	81	87	90
1 to <2	118	26	0	0	0	0	0	0	0	15	30	45	60	80	239	600
2 to <3	118	29	0	0	0	0	0	1	20	30	60	62	138	290	345	
3 to <6	357	22	0	0	0	0	0	0	15	30	49	65	90	120	270	
6 to <11	497	22	0	0	0	0	0	0	15	30	45	60	81	118	535	
11 to <16	466	20	0	0	0	0	0	0	15	30	45	60	86	97	220	
16 to <21	481	26	0	0	0	0	0	10	20	32	59	65	105	123	547	
Bathroom—Doers Only																
Birth to <1	31	32	5	7	8	10	15	18	30	40	60	78	87	89	90	
1 to <2	77	39	6	6	8	10	15	15	30	30	57	60	176	349	600	
2 to <3	88	38	2	3	5	12	15	15	30	45	60	70	208	319	345	
3 to <6	240	33	1	1	2	5	11	15	30	38	60	75	112	123	270	
6 to <11	356	31	1	2	3	5	9	15	25	35	50	60	90	180	535	
11 to <16	335	29	1	2	2	5	6	12	20	35	50	64	90	100	220	
16 to <21	392	31	1	2	5	5	10	15	25	40	60	72	111	135	547	
Bedroom—Whole Population																
Birth to <1	63	749	0	0	104	468	566	653	750	863	972	1,092	1,119	1,179	1,275	
1 to <2	118	771	0	56	340	443	559	645	808	884	975	1,029	1,190	1,325	1,440	
2 to <3	118	701	0	5	91	419	517	618	718	835	894	931	979	990	1,040	
3 to <6	357	696	0	92	210	432	540	630	695	790	875	945	1,033	1,135	1,440	
6 to <11	497	653	0	0	0	304	480	585	660	735	840	906	1,005	1,096	1,440	
11 to <16	466	626	0	0	20	134	403	543	645	745	860	950	1,027	1,118	1,277	
16 to <21	481	588	0	0	0	60	335	475	595	720	855	960	1,082	1,146	1,375	
Bedroom—Doers Only																
Birth to <1	61	774	435	453	470	495	590	660	750	865	975	1,095	1,119	1,182	1,275	
1 to <2	116	785	330	362	384	450	570	656	810	885	975	1,030	1,191	1,328	1,440	
2 to <3	116	713	30	215	266	484	520	620	720	836	896	931	981	990	1,040	
3 to <6	353	704	165	210	268	464	540	630	695	790	875	945	1,034	1,137	1,440	
6 to <11	486	667	120	183	261	439	513	599	660	735	843	912	1,005	1,100	1,440	
11 to <16	457	638	15	55	115	179	430	550	646	750	860	951	1,029	1,122	1,277	
16 to <21	463	611	15	34	100	273	395	480	600	725	859	974	1,090	1,147	1,375	
Garage—Whole Population																
Birth to <1	63	1	0	0	0	0	0	0	0	0	0	0	0	0	34	89
1 to <2	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 to <3	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 to <6	357	1	0	0	0	0	0	0	0	0	0	0	0	0	7	165
6 to <11	497	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
11 to <16	466	2	0	0	0	0	0	0	0	0	0	0	0	19	51	240
16 to <21	481	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Garage—Doers Only																
Birth to <1	1	-	89	-	-	-	-	-	-	-	-	-	-	-	-	89
1 to <2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 to <3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 to <6	4	-	15	-	-	-	-	-	-	-	-	-	-	-	-	165
6 to <11	3	-	30	-	-	-	-	-	-	-	-	-	-	-	-	120
11 to <16	12	79	10	11	11	13	16	20	40	139	183	210	228	234	240	
16 to <21	4	-	10	-	-	-	-	-	-	-	-	-	-	-	-	60

Chapter 16—Activity Factors

Table 16-15. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined Whole Population and Doers Only, Children <21 Years (continued)															
Age (years)	N	Mean	Min	Percentiles											Max
				1	2	5	10	25	50	75	90	95	98	99	
All Rooms Combined—Whole Population															
Birth to <1	63	1,091	0	391	631	742	786	943	1,105	1,258	1,440	1,440	1,440	1,440	
1 to <2	118	1,047	0	63	377	651	705	915	1,050	1,239	1,440	1,440	1,440	1,440	
2 to <3	118	971	0	66	342	640	727	852	995	1,120	1,232	1,295	1,354	1,369	
3 to <6	357	951	0	284	402	621	716	810	930	1,110	1,245	1,354	1,440	1,440	
6 to <11	497	873	0	0	0	420	631	758	880	1,005	1,175	1,275	1,374	1,440	
11 to <16	466	876	0	0	117	370	575	751	871	1,043	1,215	1,314	1,440	1,440	
16 to <21	481	819	0	0	165	375	510	645	810	995	1,170	1,287	1,419	1,440	
All Rooms Combined—Doers Only															
Birth to <1	62	1,108	630	633	658	751	821	956	1,108	1,259	1,440	1,440	1,440	1,440	
1 to <2	116	1,065	370	399	495	674	715	923	1,050	1,243	1,440	1,440	1,440	1,440	
2 to <3	117	979	30	288	551	650	746	857	1,005	1,120	1,232	1,296	1,355	1,369	
3 to <6	355	957	150	352	451	634	720	810	930	1,110	1,245	1,355	1,440	1,440	
6 to <11	486	893	190	335	389	541	655	765	885	1,009	1,177	1,275	1,385	1,440	
11 to <16	459	889	40	141	300	441	590	758	875	1,046	1,218	1,315	1,440	1,440	
16 to <21	473	833	85	206	321	433	525	660	815	1,000	1,170	1,288	1,420	1,440	
N	= Sample size.														
Min	= Minimum.														
Max	= Maximum.														
-	= Percentiles were not calculated for sample sizes less than 10.														
Source: U.S. EPA re-analysis of source data from U.S. EPA (1996).															

Table 16-16. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined, Doers Only

		Kitchen													
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		7,063	92.6	94.2	1.1	1	1,320	10	30	60	120	205	270	365	460
Sex	Male	2,988	75.0	80.8	1.5	1	840	10	30	55	90	155	215	300	392
Sex	Female	4,072	105.6	101.0	1.6	1	1,320	10	35	75	145	230	295	395	475
Sex	Refused	3	40.0	31.2	18.0	15	75	15	15	30	75	75	75	75	75
Age (years)	-	144	102.7	110.8	9.2	5	840	15	30	70	130	215	260	485	540
Age (years)	1 to 4	335	73.7	54.4	3.0	5	392	15	30	60	100	140	180	225	240
Age (years)	5 to 11	477	60.5	53.0	2.4	1	690	10	30	50	75	120	150	180	235
Age (years)	12 to 17	396	55.0	58.1	2.9	1	450	5	15	36	65	125	155	240	340
Age (years)	18 to 64	4,531	90.3	90.9	1.4	1	1,320	10	30	60	120	200	260	345	420
Age (years)	>64	1,180	131.4	119.6	3.5	3	825	15	49	100	172	275	360	490	620
Race	White	5,827	95.1	95.2	1.2	1	840	10	30	65	120	210	273	380	465
Race	Black	641	79.4	92.0	3.6	2	1,320	10	30	60	100	175	230	275	380
Race	Asian	113	89.4	95.5	9.0	5	690	10	30	75	115	150	220	265	650
Race	Some Others	119	69.1	60.8	5.6	2	315	7	30	55	90	150	195	210	315
Race	Hispanic	266	84.2	77.3	4.7	1	585	10	30	60	110	190	240	305	360
Race	Refused	97	90.3	113.6	11.5	5	880	7	30	60	90	190	275	480	880
Hispanic	No	6,458	93.4	94.8	1.2	1	1,320	10	30	60	120	210	270	370	460
Hispanic	Yes	497	83.9	82.9	3.7	1	675	10	30	60	110	180	240	315	415
Hispanic	DK	32	82.3	71.9	12.7	5	300	10	35	60	113	185	240	300	300
Hispanic	Refused	76	88.4	118.6	13.6	5	880	7	30	60	90	190	240	480	880
Employment	-	1,200	62.3	55.4	1.6	1	690	10	30	50	85	125	153	213	260
Employment	Full Time	2,965	77.7	77.5	1.4	1	840	10	30	60	100	165	225	300	376
Employment	Part Time	608	97.7	94.0	3.8	1	755	10	30	70	134	213	270	405	445
Employment	Not Employed	2,239	126.9	115.8	2.4	1	1,320	12	45	95	175	270	342	470	545
Employment	Refused	51	106.4	168.5	23.6	2	880	5	30	48	130	210	250	840	880
Education	-	1,346	63.9	62.3	1.7	1	880	10	30	50	85	130	165	235	285
Education	< High School	678	108.1	102.9	4.0	1	775	10	34	80	150	230	295	405	545
Education	High School Graduate	2,043	107.2	102.3	2.3	1	840	10	35	75	150	235	300	415	500
Education	< College	1,348	94.4	101.2	2.8	1	1,320	10	30	60	120	210	280	380	450
Education	College Graduate	933	91.9	92.1	3.0	2	840	10	30	60	120	200	261	330	410
Education	Post Graduate	715	88.2	87.7	3.3	1	770	10	30	60	113	190	260	380	405
Census Region	Northeast	1,645	99.6	99.7	2.5	1	840	10	30	70	130	210	300	390	465
Census Region	Midwest	1,601	96.1	93.6	2.3	1	833	10	30	65	125	213	270	355	450
Census Region	South	2,383	86.3	87.1	1.8	1	880	10	30	60	115	190	245	330	420
Census Region	West	1,434	91.4	99.1	2.6	1	1,320	10	30	60	119	195	255	380	480
Day Of Week	Weekday	4,849	90.1	92.2	1.3	1	1,320	10	30	60	119	195	255	360	450
Day Of Week	Weekend	2,214	98.3	98.2	2.1	1	840	10	30	66	135	220	280	390	480
Season	Winter	1,938	96.6	100.3	2.3	1	1,320	10	30	65	120	210	285	390	485
Season	Spring	1,780	89.0	90.2	2.1	1	840	10	30	60	120	195	255	350	420
Season	Summer	1,890	89.3	91.0	2.1	1	880	10	30	60	120	195	255	362	430
Season	Fall	1,455	96.2	94.5	2.5	1	770	10	30	65	125	210	275	375	470
Asthma	No	6,510	92.4	93.6	1.2	1	1,320	10	30	60	120	205	270	365	450
Asthma	Yes	503	94.0	96.0	4.3	1	785	10	30	60	120	210	270	345	450
Asthma	DK	50	104.4	143.7	20.3	7	880	10	30	60	120	195	240	713	880
Angina	No	6,798	91.6	93.0	1.1	1	1,320	10	30	60	120	200	265	360	450
Angina	Yes	207	122.5	111.4	7.7	4	657	10	45	100	155	255	360	415	620
Angina	DK	58	105.9	138.4	18.2	2	880	10	30	60	135	240	240	545	880
Bronchitis/Emphysema	No	6,671	91.8	92.6	1.1	1	1,320	10	30	60	120	200	265	360	445
Bronchitis/Emphysema	Yes	338	104.8	113.4	6.2	1	825	10	30	71	135	225	300	480	657
Bronchitis/Emphysema	DK	54	117.9	142.4	19.4	2	880	10	30	76	160	240	275	545	880

Table 16-16. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined, Doers Only (continued)															
Bathroom															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		6,661	35.0	48.8	0.6	1	870	5	15	25	40	60	90	137	255
Sex	Male	3,006	32.7	50.4	0.9	1	870	5	15	21	35	60	75	150	300
Sex	Female	3,653	36.9	47.4	0.8	1	665	5	15	30	45	70	90	135	240
Sex	Refused	2	27.5	3.5	2.5	25	30	25	25	28	30	30	30	30	30
Age (years)	-	122	43.9	67.0	6.1	2	530	5	15	30	45	85	120	300	360
Age (years)	1 to 4	328	35.9	46.5	2.6	1	600	10	15	30	40	60	75	125	270
Age (years)	5 to 11	490	31.0	38.6	1.7	1	535	5	15	27	35	53	60	100	200
Age (years)	12 to 17	445	29.1	32.9	1.6	1	547	5	15	20	35	60	65	90	100
Age (years)	18 to 64	4,486	34.5	46.1	0.7	1	665	5	15	25	40	60	90	135	250
Age (years)	>64	790	42.2	69.4	2.5	1	870	5	15	30	45	75	120	240	360
Race	White	5,338	34.3	48.6	0.7	1	870	5	15	25	40	60	85	135	255
Race	Black	711	36.9	39.6	1.5	1	460	5	15	30	45	70	98	135	186
Race	Asian	117	33.6	41.4	3.8	5	375	5	15	25	40	60	90	110	210
Race	Some Others	134	47.3	69.6	6.0	1	535	5	15	30	45	95	120	315	422
Race	Hispanic	283	38.6	61.5	3.7	1	546	5	15	24	45	60	80	270	425
Race	Refused	78	34.6	49.2	5.6	3	360	5	10	20	35	60	135	165	360
Hispanic	No	6,067	34.5	45.9	0.6	1	705	5	15	25	40	60	90	135	240
Hispanic	Yes	498	39.2	68.6	3.1	1	870	5	15	25	45	60	90	270	425
Hispanic	DK	33	44.4	72.3	12.6	5	422	10	15	30	45	60	120	422	422
Hispanic	Refused	63	44.1	95.2	12.0	3	665	5	10	20	35	60	150	360	665
Employment	-	1,240	32.0	39.7	1.1	1	600	5	15	30	35	60	70	100	180
Employment	Full Time	3,130	33.4	44.8	0.8	1	595	5	15	25	40	60	80	123	240
Employment	Part Time	583	35.5	43.9	1.8	1	430	5	15	29	45	60	90	140	270
Employment	Not Employed	1,661	40.2	61.6	1.5	1	870	5	15	30	45	75	110	210	340
Employment	Refused	47	34.7	54.8	8.0	3	360	5	15	25	30	55	75	360	360
Education	-	1,386	32.2	42.8	1.1	1	665	5	15	25	35	60	70	110	200
Education	< High School	522	40.9	64.5	2.8	1	870	5	15	30	45	70	100	240	350
Education	High School Graduate	1,857	35.8	50.2	1.2	1	600	5	15	25	40	63	90	135	270
Education	< College	1,305	36.1	44.1	1.2	1	540	5	15	25	45	70	95	150	225
Education	College Graduate	913	35.0	54.1	1.8	1	705	5	15	20	40	60	90	150	340
Education	Post Graduate	678	32.1	42.8	1.6	1	460	5	15	22	40	60	75	110	300
Census Region	Northeast	1,497	34.3	51.2	1.3	1	600	5	15	25	40	60	80	140	335
Census Region	Midwest	1,465	35.8	54.5	1.4	1	870	5	15	25	40	60	90	145	315
Census Region	South	2,340	35.1	42.0	0.9	1	510	5	15	30	40	60	90	135	214
Census Region	West	1,359	34.9	50.4	1.4	1	705	5	15	25	40	60	90	140	250
Day Of Week	Weekday	4,613	33.9	46.7	0.7	1	870	5	15	25	40	60	85	135	240
Day Of Week	Weekend	2,048	37.5	53.2	1.2	1	600	5	15	30	45	65	90	150	300
Season	Winter	1,853	37.0	50.7	1.2	1	665	5	15	30	42	65	90	150	270
Season	Spring	1,747	36.6	50.5	1.2	1	870	5	15	30	45	60	90	135	240
Season	Summer	1,772	32.8	44.5	1.1	1	570	5	15	25	38	60	80	135	210
Season	Fall	1,289	33.0	49.1	1.4	1	540	5	11	20	35	60	90	140	303
Asthma	No	6,132	34.9	48.8	0.6	1	870	5	15	25	40	60	90	135	255
Asthma	Yes	493	35.2	38.2	1.7	1	410	5	15	30	45	65	90	140	220
Asthma	DK	36	49.5	121.1	20.2	3	665	5	10	18	30	60	360	665	665
Angina	No	6,473	34.6	46.8	0.6	1	870	5	15	25	40	60	90	135	240
Angina	Yes	145	51.9	88.3	7.3	3	600	7	20	30	45	75	185	546	570
Angina	DK	43	44.9	111.2	17.0	3	665	5	10	15	30	50	110	665	665
Bronchitis/Emphysema	No	6,327	34.8	48.1	0.6	1	870	5	15	25	40	60	90	135	255
Bronchitis/Emphysema	Yes	296	36.8	47.5	2.8	1	600	5	15	30	44	60	90	180	250
Bronchitis/Emphysema	DK	38	54.6	122.7	19.9	3	665	5	10	17.5	30	110	360	665	665

Table 16-16. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined, Doers Only (continued)

Bedroom															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		9,151	563.1	184.6	1.9	3	1,440	300	460	540	660	780	880	1,005	1,141
Sex	Male	4,157	549.6	183.0	2.8	3	1,440	285	450	540	640	780	860	980	1,095
Sex	Female	4,990	574.3	185.3	2.6	5	1,440	312	470	555	660	790	900	1,030	1,185
Sex	Refused	4	648.8	122.8	61.4	540	785	540	545	635	753	785	785	785	785
Age (years)	-	184	525.1	193.5	14.3	15	1,440	195	420	513	600	720	860	950	1,295
Age (years)	1 to 4	488	742.0	167.1	7.6	30	1,440	489	635	740	840	930	990	1,095	1,200
Age (years)	5 to 11	689	669.1	162.9	6.2	35	1,440	435	600	665	740	840	915	1,065	1,140
Age (years)	12 to 17	577	636.2	210.9	8.8	15	1,375	165	542	645	750	875	970	1,040	1,210
Age (years)	18 to 64	5,891	532.7	173.0	2.3	3	1,440	295	440	520	610	723	820	975	1,110
Age (years)	>64	1,322	550.8	172.0	4.7	15	1,440	315	475	540	610	735	840	1,000	1,140
Race	White	7,403	553.4	175.9	2.0	3	1,440	300	455	540	640	760	850	975	1,105
Race	Black	923	612.3	219.9	7.2	15	1,440	300	480	597	725	895	990	1,160	1,323
Race	Asian	153	612.3	187.4	15.2	25	1,285	345	510	600	705	830	950	1,005	1,245
Race	Some Others	174	590.7	200.2	15.2	15	1,405	300	464	580	700	830	960	1,050	1,152
Race	Hispanic	378	602.6	214.4	11.0	25	1,440	265	480	588	720	865	958	1,095	1,213
Race	Refused	120	555.8	198.6	18.1	30	1,405	285	440	534	630	763	875	1,290	1,295
Hispanic	No	8,326	560.9	182.6	2.0	3	1,440	300	460	540	650	780	870	1,000	1,140
Hispanic	Yes	684	597.4	206.3	7.9	15	1,440	300	480	585	713	840	958	1,095	1,200
Hispanic	DK	43	542.3	169.9	25.9	135	1,002	300	420	555	660	756	830	1,002	1,002
Hispanic	Refused	98	523.4	180.2	18.2	30	1,295	255	415	515	600	735	795	930	1,295
Employment	-	1,736	679.5	185.5	4.5	15	1,440	390	590	675	785	892	960	1,065	1,170
Employment	Full Time	3,992	513.5	157.6	2.5	3	1,440	283	435	510	585	680	765	890	1,000
Employment	Part Time	777	551.6	169.4	6.1	15	1,335	330	455	540	630	750	835	1,005	1,100
Employment	Not Employed	2,578	566.4	191.2	3.8	5	1,440	300	478	540	650	780	905	1,095	1,223
Employment	Refused	68	514.0	209.6	25.4	30	1,440	210	420	498	585	725	795	1,200	1,440
Education	-	1,925	668.3	188.8	4.3	15	1,440	360	575	663	780	885	960	1,060	1,170
Education	< High School	807	554.8	180.6	6.4	5	1,440	300	450	540	630	775	860	1,015	1,160
Education	High School Graduate	2,549	534.1	176.2	3.5	3	1,440	285	447	520	607	720	835	975	1,151
Education	< College	1,740	539.1	176.1	4.2	5	1,440	282	450	530	615	735	825	1,005	1,135
Education	College Graduate	1,223	526.0	164.9	4.7	15	1,404	300	445	515	600	713	785	965	1,070
Education	Post Graduate	907	525.2	160.6	5.3	3	1,355	315	445	510	600	690	780	950	1,095
Census Region	Northeast	2,037	561.5	185.3	4.1	5	1,440	300	457	540	655	781	885	1,020	1,139
Census Region	Midwest	2,045	552.4	179.2	4.0	3	1,440	280	450	540	643	765	860	965	1,035
Census Region	South	3,156	570.0	186.4	3.3	10	1,440	300	465	552	660	790	900	1,055	1,155
Census Region	West	1,913	564.9	186.4	4.3	5	1,440	305	460	540	660	793	875	995	1,152
Day Of Week	Weekday	6,169	552.6	174.5	2.2	3	1,440	325	450	539	635	760	855	975	1,130
Day Of Week	Weekend	2,982	584.9	202.4	3.7	3	1,440	223	480	570	690	825	920	1,055	1,170
Season	Winter	2,475	576.0	183.8	3.7	5	1,440	305	475	555	660	805	900	1,035	1,148
Season	Spring	2,365	559.0	176.7	3.6	15	1,440	315	455	540	655	770	855	960	1,095
Season	Summer	2,461	566.1	195.2	3.9	3	1,440	285	455	545	660	810	900	1,030	1,190
Season	Fall	1,850	547.2	179.9	4.2	3	1,440	270	450	538	630	750	850	960	1,100
Asthma	No	8,420	560.8	182.8	2.0	3	1,440	300	460	540	655	780	870	1,000	1,140
Asthma	Yes	671	593.8	201.5	7.8	30	1,440	300	475	580	690	835	946	1,060	1,327
Asthma	DK	60	543.1	218.4	28.2	30	1,295	223	423	540	605	760	983	1,275	1,295
Angina	No	8,836	564.2	183.9	2.0	3	1,440	300	460	540	660	785	880	1,005	1,140
Angina	Yes	244	535.5	203.9	13.1	20	1,440	215	450	523	613	770	840	1,135	1,230
Angina	DK	71	522.1	193.9	23.0	30	1,295	180	420	540	600	690	820	990	1,295
Bronchitis/Emphysema	No	8,660	563.1	184.2	2.0	3	1,440	300	460	540	660	780	880	1,005	1,141
Bronchitis/Emphysema	Yes	423	570.1	192.0	9.3	15	1,440	294	450	555	660	795	900	1,055	1,110
Bronchitis/Emphysema	DK	68	524.8	186.7	22.6	30	1,295	240	420	540	600	700	820	930	1,295

Table 16-16. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined, Doers Only (continued)

		Garage														
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		193	117.8	144.5	10.4	1	790	5	20	60	150	296	480	665	690	
Sex	Male	120	144.1	162.6	14.8	2	790	10	30	94	183	315	518	675	690	
Sex	Female	73	74.6	94.3	11.0	1	530	5	15	30	120	180	240	450	530	
Age (years)	-	1	20.0	-	-	20	20	20	20	20	20	20	20	20	20	
Age (years)	1 to 4	4	83.5	47.5	23.7	15	120	15	52	100	115	120	120	120	120	
Age (years)	5 to 11	6	63.3	63.4	25.9	10	165	10	25	30	120	165	165	165	165	
Age (years)	12 to 17	12	80.8	78.4	22.6	10	240	10	20	51	148	185	240	240	240	
Age (years)	18 to 64	130	134.5	165.1	14.5	1	790	5	20	68	180	360	526	675	690	
Age (years)	>64	40	88.6	84.1	13.3	5	300	8	25	60	143	228	270	300	300	
Race	White	165	109.5	127.5	9.9	1	690	5	20	60	135	240	315	526	675	
Race	Black	12	205.0	219.5	63.4	5	570	5	38	90	405	530	570	570	570	
Race	Asian	1	5.0	-	-	5	5	5	5	5	5	5	5	5	5	
Race	Some Others	6	186.3	308.4	125.9	10	790	10	18	30	240	790	790	790	790	
Race	Hispanic	8	120.0	164.9	58.3	15	510	15	23	60	135	510	510	510	510	
Race	Refused	1	120.0	-	-	120	120	120	120	120	120	120	120	120	120	
Hispanic	No	174	116.6	138.5	10.5	1	690	5	20	60	155	296	460	570	675	
Hispanic	Yes	17	128.6	207.3	50.3	5	790	5	20	60	110	510	790	790	790	
Hispanic	Refused	2	127.5	10.6	7.5	120	135	120	120	128	135	135	135	135	135	
Employment	-	21	79.7	67.5	14.7	10	240	15	25	51	120	165	185	240	240	
Employment	Full Time	85	145.3	175.2	19.0	1	790	5	20	65	180	405	530	675	790	
Employment	Part Time	17	50.1	52.0	12.6	5	194	5	15	30	60	135	194	194	194	
Employment	Not Employed	70	112.3	127.4	15.2	5	690	5	30	75	135	255	450	480	690	
Education	-	22	76.5	67.6	14.4	10	240	10	20	51	120	165	185	240	240	
Education	< High School	14	188.9	195.0	52.1	5	675	5	30	120	235	510	675	675	675	
Education	High School Graduate	63	127.3	159.3	20.1	2	690	5	25	60	165	300	530	665	690	
Education	< College	48	121.6	147.8	21.3	5	790	10	30	60	140	296	450	790	790	
Education	College Graduate	25	118.2	145.8	29.2	5	480	5	20	60	120	405	460	480	480	
Education	Post Graduate	21	75.9	88.1	19.2	1	300	2	10	30	120	195	260	300	300	
Census Region	Northeast	23	137.2	159.5	33.2	5	510	15	30	60	195	460	510	510	510	
Census Region	Midwest	42	131.4	166.4	25.7	10	690	20	40	88	120	260	665	690	690	
Census Region	South	60	103.7	128.6	16.6	2	570	5	13	53	128	283	428	480	570	
Census Region	West	68	115.3	139.7	16.9	1	790	5	20	73	153	300	315	530	790	
Day Of Week	Weekday	116	128.7	159.0	14.8	1	790	5	25	60	165	315	510	665	690	
Day Of Week	Weekend	77	101.4	118.4	13.5	2	675	10	20	60	120	240	300	526	675	
Season	Winter	51	115.6	161.8	22.7	2	690	5	15	50	150	240	526	665	690	
Season	Spring	59	136.8	163.3	21.3	5	790	10	30	90	165	315	570	675	790	
Season	Summer	51	101.1	121.3	17.0	1	530	5	20	60	120	260	450	460	530	
Season	Fall	32	112.9	110.2	19.5	5	480	10	25	85	158	240	315	480	480	
Asthma	No	184	118.6	146.3	10.8	1	790	5	25	60	150	300	480	665	690	
Asthma	Yes	9	101.1	102.6	34.2	5	270	5	15	60	180	270	270	270	270	
Angina	No	187	118.2	146.2	10.7	1	790	5	20	60	150	300	480	665	690	
Angina	Yes	6	104.2	78.6	32.1	10	220	10	25	110	150	220	220	220	220	
Bronchitis/Emphysema	No	185	114.1	142.9	10.5	1	790	5	20	60	135	260	480	665	690	
Bronchitis/Emphysema	Yes	8	201.9	163.6	57.9	15	450	15	60	178	338	450	450	450	450	

Table 16-16. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined, Doers Only (continued)

		Basement														
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		274	142.2	162.9	9.8	1	931	10	30	90	180	330	535	705	765	
Sex	Male	132	160.4	180.7	15.7	1	931	10	40	90	203	490	565	720	765	
Sex	Female	141	125.7	143.3	12.1	2	810	10	30	75	175	265	420	705	720	
Sex	Refused	1	60.0	-	-	60	60	60	60	60	60	60	60	60	60	
Age (years)	-	3	171.7	122.7	70.8	30	245	30	30	240	245	245	245	245	245	
Age (years)	1 to 4	8	94.8	55.7	19.7	28	180	28	48	90	138	180	180	180	180	
Age (years)	5 to 11	25	135.4	145.9	29.2	15	705	15	60	105	140	270	420	705	705	
Age (years)	12 to 17	26	97.5	113.1	22.2	1	515	10	30	60	150	240	275	515	515	
Age (years)	18 to 64	170	151.3	172.7	13.2	1	810	5	30	90	210	410	555	720	765	
Age (years)	>64	42	143.8	173.5	26.8	5	931	10	40	90	170	330	455	931	931	
Race	White	248	133.8	154.1	9.8	1	810	10	30	90	168	315	510	705	720	
Race	Black	15	183.8	165.5	42.7	12	515	12	40	150	270	450	515	515	515	
Race	Asian	2	135.0	106.1	75.0	60	210	60	60	135	210	210	210	210	210	
Race	Some Others	3	468.7	455.7	263.1	20	931	20	20	455	931	931	931	931	931	
Race	Hispanic	1	30.0	-	-	30	30	30	30	30	30	30	30	30	30	
Race	Refused	5	263.2	173.1	77.4	60	540	60	231	240	245	540	540	540	540	
Hispanic	No	263	139.0	161.7	10.0	1	931	10	30	90	180	330	510	705	765	
Hispanic	Yes	6	185.0	197.3	80.6	15	555	15	30	150	210	555	555	555	555	
Hispanic	DK	1	185.0	-	-	185	185	185	185	185	185	185	185	185	185	
Hispanic	Refused	4	271.3	198.8	99.4	60	540	60	150	243	393	540	540	540	540	
Employment	-	57	115.6	124.2	16.5	1	705	12	40	90	150	240	420	515	705	
Employment	Full Time	107	149.1	178.6	17.3	1	810	5	30	75	210	450	540	720	765	
Employment	Part Time	22	115.0	114.8	24.5	10	535	25	60	78	150	185	290	535	535	
Employment	Not Employed	85	158.0	176.3	19.1	5	931	10	35	120	210	330	600	720	931	
Employment	Refused	3	151.7	110.3	63.7	30	245	30	30	180	245	245	245	245	245	
Education	-	65	129.5	133.4	16.6	1	705	15	45	90	160	270	420	535	705	
Education	< High School	15	169.9	203.5	52.5	5	605	5	30	90	255	565	605	605	605	
Education	High School Graduate	78	159.4	188.7	21.4	5	810	5	40	90	195	420	720	765	810	
Education	< College	48	160.6	184.2	26.6	2	931	10	25	120	203	400	600	931	931	
Education	College Graduate	39	146.7	150.8	24.1	10	555	10	30	70	210	450	510	555	555	
Education	Post Graduate	29	73.1	66.3	12.3	1	245	10	30	60	100	210	210	245	245	
Census Region	Northeast	90	115.6	118.7	12.5	5	555	10	40	73	150	250	400	540	555	
Census Region	Midwest	123	129.0	146.9	13.2	2	765	10	30	90	180	270	510	605	630	
Census Region	South	35	188.0	205.8	34.8	10	931	28	45	110	255	450	720	931	931	
Census Region	West	26	234.4	247.7	48.6	1	810	1	30	165	325	705	720	810	810	
Day Of Week	Weekday	178	135.3	159.4	11.9	1	810	10	30	83	180	315	535	720	765	
Day Of Week	Weekend	96	154.8	169.3	17.3	5	931	10	50	98	190	450	540	600	931	
Season	Winter	80	144.5	147.0	16.4	5	630	14	30	90	221	315	480	610	630	
Season	Spring	65	174.2	196.8	24.4	1	931	5	60	105	210	490	555	810	931	
Season	Summer	79	142.4	180.7	20.3	1	765	5	30	85	150	455	605	720	765	
Season	Fall	50	96.4	83.1	11.7	5	332	10	30	60	145	240	255	301	332	
Asthma	No	253	143.1	164.2	10.3	1	931	10	35	90	180	330	540	705	765	
Asthma	Yes	20	124.7	151.0	33.8	1	510	6	16	73	178	383	510	510	510	
Asthma	DK	1	245.0	-	-	245	245	245	245	245	245	245	245	245	245	
Angina	No	269	141.4	163.7	10.0	1	931	10	30	90	180	330	535	705	765	
Angina	Yes	3	201.7	122.1	70.5	65	300	65	65	240	300	300	300	300	300	
Angina	DK	2	152.5	130.8	92.5	60	245	60	60	153	245	245	245	245	245	
Bronchitis/Emphysema	No	265	139.0	161.0	9.9	1	931	10	30	90	180	330	515	705	765	
Bronchitis/Emphysema	Yes	8	233.8	214.2	75.7	20	605	20	68	180	375	605	605	605	605	
Bronchitis/Emphysema	DK	1	245.0	-	-	245	245	245	245	245	245	245	245	245	245	

Table 16-16. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined, Doers Only (continued)

		Utility/Laundry Room														
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		458	73.2	71.9	3.4	1	510	5	25	60	100	150	200	300	360	
Sex	Male	70	78.4	95.7	11.4	1	510	5	20	60	90	168	345	360	510	
Sex	Female	388	72.3	66.8	3.4	2	510	5	28	60	105	150	190	240	330	
Age (years)	-	6	65.8	34.4	14.0	25	120	25	40	60	90	120	120	120	120	
Age (years)	1 to 4	3	75.0	116.9	67.5	5	210	5	5	10	210	210	210	210	210	
Age (years)	5 to 11	3	105.7	168.4	97.2	2	300	2	2	15	300	300	300	300	300	
Age (years)	12 to 17	8	55.5	77.1	27.3	1	240	1	17	33	53	240	240	240	240	
Age (years)	18 to 64	362	73.6	73.9	3.9	2	510	5	20	60	105	150	195	325	405	
Age (years)	>64	76	72.6	58.1	6.7	2	345	10	30	60	90	150	180	245	345	
Race	White	400	69.2	65.8	3.3	2	510	5	25	60	90	150	180	258	353	
Race	Black	35	100.5	103.2	17.5	1	510	5	20	60	135	240	300	510	510	
Race	Asian	4	82.5	37.7	18.9	30	120	30	60	90	105	120	120	120	120	
Race	Some Others	6	86.7	27.9	11.4	60	120	60	65	78	120	120	120	120	120	
Race	Hispanic	10	95.9	78.8	24.9	4	225	4	20	105	120	218	225	225	225	
Race	Refused	3	170.0	264.2	152.5	15	475	15	15	20	475	475	475	475	475	
Hispanic	No	435	72.1	69.9	3.4	1	510	5	25	60	90	150	190	300	360	
Hispanic	Yes	20	81.7	63.0	14.1	4	225	5	40	60	120	183	218	225	225	
Hispanic	DK	1	55.0	-	-	55	55	55	55	55	55	55	55	55	55	
Hispanic	Refused	2	247.5	321.7	227.5	20	475	20	20	248	475	475	475	475	475	
Employment	-	12	76.8	107.8	31.1	1	300	1	4	23	135	240	300	300	300	
Employment	Full Time	206	69.2	78.4	5.5	2	510	5	20	60	90	135	203	360	405	
Employment	Part Time	51	72.2	62.5	8.8	2	225	5	15	55	120	150	180	225	225	
Employment	Not Employed	187	77.7	63.8	4.7	5	475	10	30	60	115	150	180	245	345	
Employment	Refused	2	76.0	104.7	74.0	2	150	2	2	76	150	150	150	150	150	
Education	-	17	72.0	90.9	22.0	1	300	1	10	35	90	240	300	300	300	
Education	< High School	51	71.8	49.4	6.9	15	245	20	30	60	90	120	180	195	245	
Education	High School Graduate	163	71.6	71.6	5.6	2	510	6	30	60	90	140	180	325	405	
Education	< College	107	77.2	71.7	6.9	2	475	5	20	60	120	155	200	225	240	
Education	College Graduate	60	74.0	77.3	10.0	5	510	10	27	60	98	154	190	203	510	
Education	Post Graduate	60	71.3	79.9	10.3	5	360	5	18	60	90	155	263	360	360	
Census Region	Northeast	105	80.9	84.6	8.3	2	510	5	25	60	120	180	225	345	360	
Census Region	Midwest	116	64.9	63.3	5.9	2	475	5	15	60	90	135	155	215	240	
Census Region	South	151	72.7	69.5	5.7	1	510	10	30	60	90	150	210	245	330	
Census Region	West	86	75.9	69.9	7.5	4	405	5	30	60	115	150	180	360	405	
Day Of Week	Weekday	322	68.6	66.7	3.7	1	510	5	23	60	90	140	180	240	345	
Day Of Week	Weekend	136	84.1	82.1	7.0	5	510	10	30	60	120	180	240	360	405	
Season	Winter	145	75.2	81.0	6.7	1	510	5	17	60	90	165	215	360	475	
Season	Spring	89	81.9	83.0	8.8	5	510	10	30	60	100	180	240	405	510	
Season	Summer	132	69.3	60.8	5.3	2	360	5	25	60	120	135	155	240	325	
Season	Fall	92	67.3	58.6	6.1	3	345	10	22	60	90	125	180	245	345	
Asthma	No	432	73.8	73.2	3.5	1	510	5	25	60	105	150	200	325	360	
Asthma	Yes	26	64.2	44.8	8.8	10	200	10	25	60	90	120	130	200	200	
Angina	No	440	72.1	70.2	3.3	1	510	5	25	60	100	150	185	270	360	
Angina	Yes	16	103.1	109.9	27.5	5	360	5	30	60	138	345	360	360	360	
Angina	DK	2	72.5	17.7	12.5	60	85	60	60	73	85	85	85	85	85	
Bronchitis/emphysema	No	428	73.3	73.5	3.6	1	510	5	24	60	105	150	200	325	360	
Bronchitis/emphysema	Yes	30	72.4	43.5	7.9	10	200	15	45	60	90	125	150	200	200	

Table 16-16. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined, Doers Only (continued)

Indoors in a Residence (all rooms)															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		9,343	1,001.4	275.1	2.8	8	1,440	575	795	985	1,235	1,395	1,440	1,440	1,440
Sex	Male	4,269	945.9	273.5	4.2	8	1,440	540	750	900	1,160	1,350	1,430	1,440	1,440
Sex	Female	5,070	1,048.1	267.9	3.8	30	1,440	620	840	1,050	1,280	1,420	1,440	1,440	1,440
Sex	Refused	4	1,060.0	135.6	67.8	900	1,200	900	950	1,070	1,170	1,200	1,200	1,200	1,200
Age (years)	-	187	1,001.1	279.9	20.5	265	1,440	565	799	955	1,230	1,440	1,440	1,440	1,440
Age (years)	1 to 4	498	1,211.6	218.7	9.8	270	1,440	795	1,065	1,260	1,410	1,440	1,440	1,440	1,440
Age (years)	5 to 11	700	1,005.1	222.3	8.4	190	1,440	686	845	975	1,165	1,334	1,412.5	1,440	1,440
Age (years)	12 to 17	588	969.5	241.8	10.0	95	1,440	585	812	950	1,155	1,310	1,405	1,440	1,440
Age (years)	18 to 64	6,022	947.9	273.0	3.5	8	1,440	540	750	900	1,165	1,350	1,428	1,440	1,440
Age (years)	>64	1,348	1,174.6	229.3	6.2	60	1,440	760	1,030	1,210	1,375	1,440	1,440	1,440	1,440
Race	White	7,556	999.4	275.7	3.2	8	1,440	570	795	980	1,235	1,395	1,440	1,440	1,440
Race	Black	941	1,016.0	272.5	8.9	190	1,440	600	815	1,000	1,245	1,410	1,440	1,440	1,440
Race	Asian	157	983.5	254.7	20.3	30	1,440	600	810	930	1,180	1,355	1,420	1,440	1,440
Race	Some Others	181	996.1	268.3	19.9	10	1,440	604	805	975	1,198	1,380	1,440	1,440	1,440
Race	Hispanic	382	1,009.4	281.8	14.4	55	1,440	555	810	1,005	1,250	1,410	1,440	1,440	1,440
Race	Refused	126	1,019.7	276.6	24.6	270	1,440	575	840	975	1,255	1,440	1,440	1,440	1,440
Hispanic	No	8,498	1,000.4	275.4	3.0	8	1,440	575	795	980	1,235	1,395	1,440	1,440	1,440
Hispanic	Yes	696	1,009.8	270.8	10.3	55	1,440	585	810	1,000	1,230	1,405	1,440	1,440	1,440
Hispanic	DK	46	1,097.9	286.7	42.3	401	1,440	645	835	1,173	1,355	1,440	1,440	1,440	1,440
Hispanic	Refused	103	984.1	269.5	26.6	270	1,440	565	810	950	1,200	1,375	1,440	1,440	1,440
Employment	-	1,768	1,053.3	248.5	5.9	95	1,440	675	870	1,030	1,255	1,413	1,440	1,440	1,440
Employment	Full Time	4,068	881.0	259.2	4.1	8	1,440	515	715	835	1,046	1,290	1,385	1,440	1,440
Employment	Part Time	797	982.4	243.1	8.6	255	1,440	600	820	970	1,170	1,320	1,380	1,440	1,440
Employment	Not Employed	2,639	1,158.0	233.8	4.6	60	1,440	735	1,015	1,190	1,350	1,440	1,440	1,440	1,440
Employment	Refused	71	995.1	268.1	31.8	445	1,440	575	810	940	1,255	1,440	1,440	1,440	1,440
Education	-	1,963	1,044.5	251.9	5.7	95	1,440	660	855	1,020	1,254	1,410	1,440	1,440	1,440
Education	< High School	829	1,093.4	278.6	9.7	150	1,440	630	870	1,130	1,345	1,440	1,440	1,440	1,440
Education	High School Graduate	2,602	1,008.1	279.3	5.5	30	1,440	565	803	995	1,245	1,400	1,440	1,440	1,440
Education	< College	1,788	974.3	272.6	6.4	10	1,440	570	775	930	1,205	1,371	1,436	1,440	1,440
Education	College Graduate	1,240	939.5	275.0	7.8	30	1,440	528	745	885	1,165	1,335	1,428	1,440	1,440
Education	Post Graduate	921	943.7	274.3	9.0	8	1,440	540	750	900	1,155	1,350	1,410	1,440	1,440
Census Region	Northeast	2,068	1,003.4	278.4	6.1	30	1,440	570	795	980	1,245	1,405	1,440	1,440	1,440
Census Region	Midwest	2,087	1,001.7	280.6	6.1	8	1,440	565	790	989	1,250	1,390	1,440	1,440	1,440
Census Region	South	3,230	999.0	270.2	4.8	10	1,440	585	800	970	1,228	1,400	1,440	1,440	1,440
Census Region	West	1,958	1,002.8	274.0	6.2	30	1,440	575	800	1,000	1,230	1,390	1,440	1,440	1,440
Day Of Week	Weekday	6,286	965.7	272.6	3.4	30	1,440	567	770	911	1,190	1,380	1,440	1,440	1,440
Day Of Week	Weekend	3,057	1,074.8	265.7	4.8	8	1,440	615	895	1,105	1,290	1,420	1,440	1,440	1,440
Season	Winter	2,513	1,034.9	278.2	5.6	30	1,440	590	825	1,015	1,285	1,432	1,440	1,440	1,440
Season	Spring	2,424	977.9	267.2	5.4	10	1,440	580	780	955	1,185	1,370	1,435	1,440	1,440
Season	Summer	2,522	980.5	274.0	5.5	8	1,440	555	785	960	1,201	1,365	1,440	1,440	1,440
Season	Fall	1,884	1,014.8	277.5	6.4	30	1,440	589	805	997	1,260	1,405	1,440	1,440	1,440
Asthma	No	8,591	999.1	274.4	3.0	8	1,440	576	795	980	1,230	1,393	1,440	1,440	1,440
Asthma	Yes	689	1,027.4	284.4	10.8	190	1,440	555	825	1,025	1,260	1,430	1,440	1,440	1,440
Asthma	DK	63	1,025.7	264.3	33.3	445	1,440	630	840	960	1,315	1,410	1,440	1,440	1,440
Angina	No	9,019	997.8	274.1	2.9	8	1,440	575	795	975	1,230	1,391	1,440	1,440	1,440
Angina	Yes	249	1,125.5	281.4	17.8	180	1,440	660	925	1,185	1,380	1,440	1,440	1,440	1,440
Angina	DK	75	1,024.1	285.1	32.9	150	1,440	560	840	975	1,305	1,425	1,440	1,440	1,440
Bronchitis/Emphysema	No	8,840	997.7	274.8	2.9	8	1,440	575	795	975	1,230	1,395	1,440	1,440	1,440
Bronchitis/Emphysema	Yes	432	1,070.5	273.8	13.2	205	1,440	585	868	1,110	1,293	1,440	1,440	1,440	1,440
Bronchitis/Emphysema	DK	71	1,045.5	273.0	32.4	445	1,440	565	845	975	1,320	1,440	1,440	1,440	1,440

Table 16-16. Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined, Doers Only (continued)

-	= Indicates missing data.
DK	= The respondent replied "don't know".
Refused	= Refused data.
N	= Doer sample size.
Mean	= Mean 24-hour cumulative number of minutes for doers.
SD	= Standard deviation.
SE	= Standard error.
Min	= Minimum number of minutes.
Max	= Maximum number of minutes. Percentiles are the percentage of doers below or equal to a given number of minutes.
Source:	U.S. EPA (1996).

Table 16-17. Time Spent (minutes/day) at Selected Indoor Locations Whole Population and Doers Only, Children <21 years

Age (years)	N	Mean	Min	Percentiles										Max		
				1	2	5	10	25	50	75	90	95	98		99	
Restaurants—Whole Population																
Birth to <1	63	13	0	0	0	0	0	0	0	0	0	45	69	105	194	330
1 to <2	118	7	0	0	0	0	0	0	0	0	0	30	62	88	102	120
2 to <3	118	9	0	0	0	0	0	0	0	0	0	45	62	92	111	120
3 to <6	357	7	0	0	0	0	0	0	0	0	0	21	52	90	120	130
6 to <11	497	6	0	0	0	0	0	0	0	0	0	15	45	85	110	180
11 to <16	466	10	0	0	0	0	0	0	0	0	0	35	60	90	137	315
16 to <21	481	35	0	0	0	0	0	0	0	0	20	105	240	380	466	645
Restaurants—Doers Only																
Birth to <1	10	85	10	-	-	-	-	-	-	-	-	-	-	-	-	330
1 to <2	15	58	5	6	8	12	21	33	55	83	99	110	116	118	118	120
2 to <3	17	63	20	21	22	24	28	45	60	80	102	116	118	119	120	120
3 to <6	43	57	4	7	9	10	16	30	45	90	120	120	122	126	130	130
6 to <11	57	54	5	5	6	10	15	30	45	60	107	124	140	158	180	180
11 to <16	78	59	2	3	7	10	18	30	45	65	102	141	223	283	315	315
16 to <21	135	126	1	4	5	10	17	30	60	170	334	437	537	546	645	645
School—Whole Population																
Birth to <1	63	4	0	0	0	0	0	0	0	0	0	0	46	100	165	165
1 to <2	118	13	0	0	0	0	0	0	0	0	0	22	156	453	665	665
2 to <3	118	23	0	0	0	0	0	0	0	0	0	193	414	503	545	545
3 to <6	357	75	0	0	0	0	0	0	0	0	416	540	569	589	630	630
6 to <11	497	187	0	0	0	0	0	0	0	397	444	480	552	601	665	665
11 to <16	466	201	0	0	0	0	0	0	0	420	459	495	578	630	855	855
16 to <21	481	131	0	0	0	0	0	0	0	308	430	495	566	629	855	855
School—Doers Only																
Birth to <1	2	-	60	-	-	-	-	-	-	-	-	-	-	-	-	165
1 to <2	8	-	5	-	-	-	-	-	-	-	-	-	-	-	-	665
2 to <3	11	251	10	10	10	10	10	83	269	388	510	528	538	542	545	665
3 to <6	71	379	5	23	34	110	160	228	418	540	570	590	615	627	630	630
6 to <11	235	396	5	64	129	195	305	370	400	435	480	540	612	643	665	665
11 to <16	229	409	15	38	96	132	290	395	420	450	495	559	631	696	855	855
16 to <21	171	367	15	22	31	90	185	270	388	440	525	576	726	801	855	855
Grocery/Convenience Stores, Other Stores, and Malls—Whole Population																
Birth to <1	63	39	0	0	0	0	0	0	0	30	98	178	224	241	250	250
1 to <2	118	16	0	0	0	0	0	0	0	0	62	87	146	202	255	255
2 to <3	118	18	0	0	0	0	0	0	0	0	60	86	133	250	360	360
3 to <6	357	17	0	0	0	0	0	0	0	0	62	111	189	223	420	420
6 to <11	497	14	0	0	0	0	0	0	0	0	49	101	167	225	320	320
11 to <16	466	18	0	0	0	0	0	0	0	0	54	122	204	300	413	413
16 to <21	481	36	0	0	0	0	0	0	0	15	120	230	402	484	960	960
Grocery/Convenience Stores, Other Stores, and Malls—Doers Only																
Birth to <1	21	88	5	5	5	24	30	55	130	190	235	244	247	250	250	250
1 to <2	23	81	5	7	9	17	30	55	65	93	152	205	235	245	255	255
2 to <3	27	80	10	11	13	20	33	45	60	82	120	234	313	337	360	360
3 to <6	64	96	5	5	5	16	23	50	73	116	204	236	339	382	420	420
6 to <11	91	76	3	3	5	5	14	20	60	110	170	230	255	262	320	320
11 to <16	104	82	1	2	5	10	10	20	45	120	199	300	359	383	413	413
16 to <21	146	120	2	4	5	5	10	22	60	149	330	456	517	562	960	960
N	= Sample size.															
Min	= Minimum.															
Max	= Maximum.															
-	= Percentiles were not calculated for sample sizes less than 10.															
Source:	U.S. EPA re-analysis of source data from U.S. EPA (1996).															

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only

		Restaurant													
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		2,059	94.5	119.9	2.6	1	925	10	30	60	95	185	351	548	660
Sex	Male	986	87.5	114.2	3.6	1	900	10	30	60	90	160	305	550	660
Sex	Female	1,073	101.0	124.7	3.8	1	925	10	40	60	105	230	380	540	670
Age (years)	-	30	126.1	138.2	25.2	15	495	30	45	60	150	398	490	495	495
Age (years)	1 to 4	61	62.7	47.7	6.1	4	330	10	35	55	85	115	120	130	330
Age (years)	5 to 11	84	56.7	38.1	4.2	5	180	10	30	45	85	120	120	140	180
Age (years)	12 to 17	122	69.8	78.4	7.1	2	455	10	30	45	65	165	250	325	360
Age (years)	18 to 64	1,503	101.2	131.2	3.4	1	925	10	30	60	105	211	400	570	675
Age (years)	>64	259	83.6	83.5	5.2	3	750	19	45	60	90	150	215	315	520
Race	White	1,747	91.7	114.7	2.7	1	925	10	30	60	95	175	320	535	640
Race	Black	148	102.8	141.3	11.6	3	805	5	30	60	95	295	430	555	735
Race	Asian	37	81.3	78.9	13.0	15	480	18	30	60	90	135	200	480	480
Race	Some Others	30	145.2	194.8	35.6	5	765	10	45	83	120	433	750	765	765
Race	Hispanic	78	123.0	156.8	17.8	10	700	15	40	60	110	375	585	660	700
Race	Refused	19	123.8	127.6	29.3	20	480	20	30	70	210	330	480	480	480
Hispanic	No	1,911	92.9	117.6	2.7	1	925	10	30	60	95	180	330	542	645
Hispanic	Yes	129	116.7	148.0	13.0	1	765	15	40	60	115	360	435	660	700
Hispanic	DK	5	76.0	134.3	60.1	5	315	5	10	10	40	315	315	315	315
Hispanic	Refused	14	114.5	134.7	36.0	30	480	30	30	60	90	330	480	480	480
Employment	-	263	62.3	57.9	3.6	2	455	10	30	45	80	120	140	273	330
Employment	Full Time	1,063	105.5	142.4	4.4	1	925	10	35	60	105	235	485	630	735
Employment	Part Time	208	122.6	144.8	10.0	1	805	5	33	65	123	320	441	595	660
Employment	Not Employed	515	76.3	61.4	2.7	3	490	15	40	60	90	145	195	260	315
Employment	Refused	10	135.0	133.5	42.2	30	425	30	60	83	135	378	425	425	425
Education	-	299	72.2	79.6	4.6	1	548	10	30	50	85	130	250	360	480
Education	< High School	132	134.8	171.8	15.0	5	925	10	30	60	152	375	535	700	750
Education	High School Graduate	590	99.4	136.3	5.6	3	910	10	35	60	90	203	435	645	680
Education	< College	431	94.9	114.9	5.5	1	770	10	35	60	105	180	340	550	640
Education	College Graduate	359	89.5	104.1	5.5	1	765	10	35	60	100	165	295	490	570
Education	Post Graduate	248	95.0	109.4	6.9	3	765	15	40	60	115	180	260	560	675
Census Region	Northeast	409	94.4	113.6	5.6	2	765	15	35	60	100	210	330	507	585
Census Region	Midwest	504	96.9	120.9	5.4	1	805	10	30	60	105	190	340	560	675
Census Region	South	680	92.7	125.1	4.8	2	910	10	30	60	90	195	365	550	650
Census Region	West	466	94.9	116.9	5.4	1	925	10	30	60	110	175	375	535	640
Day Of Week	Weekday	1,291	97.3	128.8	3.6	1	925	10	30	60	93	210	377	555	700
Day Of Week	Weekend	768	89.8	103.2	3.7	1	770	10	36	60	105	155	280	510	620
Season	Winter	524	97.7	125.7	5.5	3	875	15	35	60	105	178	351	595	685
Season	Spring	559	91.6	109.7	4.6	2	925	10	35	60	95	180	360	505	555
Season	Summer	556	95.1	123.0	5.2	1	910	10	30	60	94	210	360	555	675
Season	Fall	420	93.6	121.7	5.9	1	900	10	30	60	95	185	325	540	653
Asthma	No	1,903	94.1	117.4	2.7	1	910	10	35	60	100	180	330	545	653
Asthma	Yes	150	96.3	143.6	11.7	4	925	10	30	46	90	238	485	590	670
Asthma	DK	6	196.3	220.9	90.2	30	480	30	30	79	480	480	480	480	480
Angina	No	1,998	94.9	120.7	2.7	1	925	10	30	60	100	190	355	550	660
Angina	Yes	50	69.0	53.6	7.6	3	340	15	45	60	90	105	120	286	340
Angina	DK	11	140.3	171.3	51.6	30	480	30	30	70	120	480	480	480	480
Bronchitis/Emphysema	No	1,945	93.7	117.7	2.7	1	910	10	30	60	97	180	335	548	653
Bronchitis/Emphysema	Yes	104	96.1	130.1	12.8	5	925	15	30	60	90	235	360	500	620
Bronchitis/Emphysema	DK	10	232.8	288.2	91.1	10	875	10	30	79	480	678	875	875	875

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only (continued)

		Indoors at Bar/Nightclub/Bowling Alley														
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		352	175.8	132.2	7.0	3	870	30	90	150	223	328	487	570	615	
Sex	Male	213	174.3	133.2	9.1	5	870	30	90	140	220	340	479	568	615	
Sex	Female	139	178.1	131.2	11.1	3	630	30	95	150	225	300	530	600	605	
Age (years)	-	4	158.8	98.0	49.0	75	300	75	98	130	220	300	300	300	300	
Age (years)	5 to 11	4	98.8	57.5	28.8	45	170	45	53	90	145	170	170	170	170	
Age (years)	12 to 17	8	151.3	77.7	27.5	50	270	50	80	160	205	270	270	270	270	
Age (years)	18 to 64	313	180.2	136.7	7.7	3	870	30	90	150	225	370	498	590	615	
Age (years)	>64	23	141.2	85.2	17.8	5	328	30	75	135	180	240	325	328	328	
Race	White	297	173.6	132.6	7.7	3	870	30	90	140	220	328	487	590	630	
Race	Black	25	205.4	126.6	25.3	50	540	60	120	180	240	417	498	540	540	
Race	Asian	8	169.9	153.3	54.2	5	479	5	38	175	225	479	479	479	479	
Race	Some Others	7	197.3	187.6	70.9	70	615	70	110	135	185	615	615	615	615	
Race	Hispanic	10	121.3	52.3	16.5	5	198	5	105	118	160	179	198	198	198	
Race	Refused	5	246.6	127.2	56.9	73	410	73	180	270	300	410	410	410	410	
Hispanic	No	327	177.1	134.5	7.4	3	870	30	90	150	225	340	489	590	615	
Hispanic	Yes	20	144.9	85.1	19.0	5	440	38	110	120	160	222	343	440	440	
Hispanic	DK	2	142.5	31.8	22.5	120	165	120	120	143	165	165	165	165	165	
Hispanic	Refused	3	261.0	171.9	99.2	73	410	73	73	300	410	410	410	410	410	
Employment	-	12	133.8	73.6	21.2	45	270	45	60	135	178	225	270	270	270	
Employment	Full Time	223	182.4	138.3	9.3	5	870	30	90	150	228	340	525	600	630	
Employment	Part Time	43	201.2	155.5	23.7	5	615	45	90	150	270	455	520	615	615	
Employment	Not Employed	70	146.3	97.4	11.6	3	479	30	73	123	180	255	328	462	479	
Employment	Refused	4	176.3	115.1	57.6	45	300	45	83	180	270	300	300	300	300	
Education	-	13	146.5	84.2	23.3	45	300	45	60	150	185	270	300	300	300	
Education	< High School	28	218.0	170.2	32.2	60	870	75	120	175	235	420	568	870	870	
Education	High School Graduate	117	177.8	130.1	12.0	3	630	25	90	150	225	360	489	540	570	
Education	< College	95	205.3	152.8	15.7	5	650	30	105	180	240	462	590	615	650	
Education	College Graduate	55	141.8	92.8	12.5	10	417	20	75	120	205	265	340	410	417	
Education	Post Graduate	44	131.4	90.2	13.6	30	400	30	60	110	178	265	290	400	400	
Census Region	Northeast	83	179.3	137.0	15.0	5	650	45	89	140	240	328	489	630	650	
Census Region	Midwest	88	169.8	126.2	13.5	5	615	30	90	148	212	299	487	568	615	
Census Region	South	91	175.7	132.0	13.8	3	870	35	90	148	225	270	462	570	870	
Census Region	West	90	178.5	135.5	14.3	5	605	30	85	153	225	407	479	590	605	
Day Of Week	Weekday	192	167.5	133.5	9.6	5	650	30	80	120	210	340	520	590	605	
Day Of Week	Weekend	160	185.9	130.4	10.3	3	870	45	108	165	228	322	475	568	630	
Season	Winter	93	182.7	131.7	13.7	5	650	40	87	150	240	410	455	560	650	
Season	Spring	83	186.1	147.6	16.2	5	870	30	90	140	230	380	498	570	870	
Season	Summer	99	160.3	130.7	13.1	3	630	30	75	120	189	285	530	605	630	
Season	Fall	77	176.4	117.2	13.4	15	615	30	100	165	220	299	410	600	615	
Asthma	No	331	176.3	133.7	7.4	3	870	30	90	150	225	340	487	590	615	
Asthma	Yes	18	169.4	109.0	25.7	60	530	60	105	135	210	270	530	530	530	
Asthma	DK	3	160.0	124.9	72.1	60	300	60	60	120	300	300	300	300	300	
Angina	No	345	177.0	132.8	7.1	3	870	30	90	150	225	340	487	590	615	
Angina	Yes	5	82.0	47.2	21.1	5	120	5	75	90	120	120	120	120	120	
Angina	DK	2	210.0	127.3	90.0	120	300	120	120	210	300	300	300	300	300	
Bronchitis/Emphysema	No	333	177.3	133.3	7.3	3	870	30	90	150	225	340	487	590	615	
Bronchitis/Emphysema	Yes	17	148.6	108.5	26.3	50	530	50	110	120	175	210	530	530	530	
Bronchitis/Emphysema	DK	2	165.0	190.9	135.0	30	300	30	30	165	300	300	300	300	300	

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only (continued)															
Indoors at School															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		1,224	343.4	179.1	5.1	1	995	10	210	395	454	540	585	660	723
Sex	Male	581	358.6	167.7	7.0	1	995	30	255	400	450	540	600	690	778
Sex	Female	643	329.6	187.9	7.4	1	855	5	180	390	455	540	582	640	683
Age (years)	-	18	314.1	230.9	54.4	5	713	5	165	248	520	625	713	713	713
Age (years)	1 to 4	43	288.5	217.6	33.2	5	665	10	60	269	500	580	595	665	665
Age (years)	5 to 11	302	396.3	109.2	6.3	5	665	170	365	403	445	535	565	625	640
Age (years)	12 to 17	287	402.6	125.5	7.4	15	855	120	383	420	450	500	565	710	778
Age (years)	18 to 64	550	295.4	207.3	8.8	1	995	5	104	300	460	553	612	683	785
Age (years)	>64	24	187.7	187.0	38.2	2	585	3	45	120	328	480	510	585	585
Race	White	928	348.5	180.5	5.9	1	995	10	213	400	458	545	600	665	723
Race	Black	131	339.8	169.3	14.8	2	855	15	230	390	445	510	580	624	645
Race	Asian	39	332.4	179.9	28.8	5	840	20	190	365	450	560	580	840	840
Race	Some Others	36	363.6	155.6	25.9	10	820	105	273	366	458	502	598	820	820
Race	Hispanic	76	294.0	175.7	20.2	2	565	10	143	363	432	495	525	540	565
Race	Refused	14	279.7	221.3	59.1	5	681	5	60	260	440	625	681	681	681
Hispanic	No	1,082	344.9	179.6	5.5	1	995	10	210	395	455	540	598	665	730
Hispanic	Yes	127	333.0	173.8	15.4	2	820	15	200	390	445	500	565	600	630
Hispanic	DK	5	293.0	244.7	109.4	3	562	3	65	415	420	562	562	562	562
Hispanic	Refused	10	329.5	180.1	56.9	5	625	5	200	350	445	538	625	625	625
Employment	-	616	390.3	130.2	5.2	5	855	115	365	410	450	525	570	640	665
Employment	Full Time	275	331.3	222.0	13.4	1	995	5	115	405	510	575	625	690	755
Employment	Part Time	138	280.9	174.8	14.9	1	800	10	160	285	412	480	537	660	683
Employment	Not Employed	190	258.7	199.5	14.5	1	855	5	60	263	410	528	572	778	840
Employment	Refused	5	166.0	179.1	80.1	5	440	5	5	180	200	440	440	440	440
Education	-	679	388.9	132.8	5.1	5	855	100	360	410	450	525	580	640	710
Education	< High School	24	233.3	179.6	36.7	1	540	2	30	298	374	460	465	540	540
Education	High School Graduate	114	186.6	193.6	18.1	1	785	4	20	108	295	480	580	645	690
Education	< College	173	281.4	209.9	16.0	1	995	5	120	255	425	550	640	820	855
Education	College Graduate	93	300.4	208.7	21.6	1	755	5	115	320	470	540	580	730	755
Education	Post Graduate	141	373.5	193.4	16.3	1	683	15	250	442	510	575	615	655	680
Census Region	Northeast	261	345.7	181.5	11.2	1	995	11	210	385	455	535	620	710	855
Census Region	Midwest	290	334.4	176.7	10.4	1	730	10	180	390	440	530	585	645	683
Census Region	South	427	354.0	178.5	8.6	1	855	10	235	415	462	540	575	640	755
Census Region	West	246	332.8	180.3	11.5	1	820	15	195	378	440	555	595	681	713
Day Of Week	Weekday	1,179	346.8	177.5	5.2	1	995	10	222	395	455	540	585	655	723
Day Of Week	Weekend	45	252.0	198.5	29.6	20	820	40	105	180	360	555	632	820	820
Season	Winter	392	369.3	164.4	8.3	1	855	20	285	405	457	545	600	680	710
Season	Spring	353	355.1	165.5	8.8	1	855	12	250	400	455	535	575	636	713
Season	Summer	207	316.8	196.4	13.6	2	995	10	125	365	445	557	585	640	723
Season	Fall	272	311.0	195.3	11.8	1	855	5	120	365	445	540	595	660	778
Asthma	No	1,095	342.8	179.2	5.4	1	995	10	200	390	455	540	585	660	723
Asthma	Yes	124	350.7	178.8	16.1	1	855	10	250	402	445	535	605	645	800
Asthma	DK	5	287.0	190.7	85.3	5	445	5	180	365	440	445	445	445	445
Angina	No	1,209	344.6	178.9	5.1	1	995	10	210	395	455	540	595	660	723
Angina	Yes	9	205.8	169.5	56.5	15	510	15	90	180	275	510	510	510	510
Angina	DK	6	292.2	178.9	73.0	5	480	5	180	324	440	480	480	480	480
Bronchitis/Emphysema	No	1,175	344.8	178.8	5.2	1	995	10	212	395	455	540	595	660	730
Bronchitis/Emphysema	Yes	42	306.7	188.2	29.0	3	632	10	120	378	444	465	580	632	632
Bronchitis/Emphysema	DK	7	315.4	163.7	61.9	5	440	5	180	378	440	440	440	440	440

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only (continued)

Office or Factory														
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles						
								5	25	50	75	90	95	98
All		1,975	394.0	230.8	5.2	1	1,440	9	180	485	550	630	675	818
Sex	Male	1,012	410.8	233.5	7.3	1	1,440	10	225	495	565	645	710	855
Sex	Female	963	376.3	226.7	7.3	1	855	5	120	480	540	600	645	750
Age (years)	-	49	438.9	232.6	33.2	10	900	20	299	500	555	675	780	900
Age (years)	1 to 4	12	31.6	25.6	7.4	5	90	5	13	25	45	60	90	90
Age (years)	5 to 11	14	100.9	155.1	41.5	2	580	2	10	33	178	195	580	580
Age (years)	12 to 17	19	145.4	181.1	41.6	1	625	1	10	50	240	510	625	625
Age (years)	18 to 64	1,749	419.0	218.4	5.2	1	1,440	10	273	500	555	630	680	818
Age (years)	>64	132	145.8	194.0	16.9	1	705	3	10	40	205	495	540	675
Race	White	1,612	387.6	232.0	5.8	1	1,440	6	150	480	550	628	675	800
Race	Black	191	413.9	218.0	15.8	1	1,037	10	268	485	540	635	720	900
Race	Asian	42	428.0	216.8	33.4	10	780	30	285	492	553	660	745	780
Race	Some Others	28	480.9	200.9	38.0	40	795	75	348	540	583	715	780	795
Race	Hispanic	74	394.5	237.8	27.6	1	840	5	230	493	560	645	720	840
Race	Refused	28	482.9	246.1	46.5	30	997	30	373	533	608	818	860	997
Hispanic	No	1,805	393.5	229.6	5.4	1	1,440	10	180	483	550	630	675	810
Hispanic	Yes	138	393.6	238.6	20.3	1	840	5	180	498	560	644	675	795
Hispanic	DK	7	262.6	242.1	91.5	1	610	1	12	245	540	610	610	610
Hispanic	Refused	25	470.0	258.8	51.8	17	860	30	311	525	615	810	818	860
Employment	-	43	121.3	178.0	27.1	1	685	2	10	40	178	307	580	685
Employment	Full Time	1,535	455.6	200.3	5.1	1	1,440	15	400	510	570	644	700	837
Employment	Part Time	164	293.0	197.0	15.4	1	750	10	95	343	480	525	555	615
Employment	Not Employed	213	77.6	123.0	8.4	1	705	3	10	30	90	215	305	640
Employment	Refused	20	449.2	184.8	41.3	30	675	60	334	523	550	645	675	675
Education	-	80	225.1	248.5	27.8	1	860	3	15	105	470	608	675	860
Education	< High School	104	329.5	264.4	25.9	2	930	5	51	389	553	640	705	855
Education	High School Graduate	631	396.9	228.1	9.1	1	997	10	210	492	550	615	675	800
Education	< College	462	393.1	228.8	10.6	1	1,440	5	210	480	540	615	660	820
Education	College Graduate	415	437.2	205.2	10.1	1	900	10	325	510	570	640	690	800
Education	Post Graduate	283	396.9	232.2	13.8	2	860	5	175	480	565	640	675	818
Census Region	Northeast	465	399.1	226.2	10.5	1	930	10	215	485	550	625	675	840
Census Region	Midwest	439	389.3	229.1	10.9	1	997	8	180	480	550	630	670	800
Census Region	South	666	408.6	228.2	8.8	1	1,440	10	225	498	555	630	675	840
Census Region	West	405	369.1	240.4	11.9	1	900	5	95	470	550	630	675	800
Day Of Week	Weekday	1,759	406.8	225.2	5.4	1	997	10	237	495	555	630	675	810
Day Of Week	Weekend	216	289.6	249.1	16.9	1	1,440	3	30	283	495	600	670	900
Season	Winter	531	390.7	231.7	10.1	1	997	10	180	480	550	625	675	835
Season	Spring	470	385.2	240.7	11.1	1	1,440	5	120	480	553	630	695	837
Season	Summer	550	393.5	224.5	9.6	1	1,037	9	200	483	540	614	675	810
Season	Fall	424	408.4	226.6	11.0	1	840	10	239	500	567	640	675	770
Asthma	No	1,845	395.0	230.4	5.4	1	1,440	8	185	490	550	630	675	810
Asthma	Yes	114	371.7	231.3	21.7	3	840	10	120	463	540	630	675	837
Asthma	DK	16	437.0	272.1	68.0	5	860	5	233	520	588	780	860	860
Angina	No	1,931	395.7	229.7	5.2	1	1,440	10	195	490	550	630	675	811
Angina	Yes	26	265.5	246.8	48.4	5	650	9	15	175	490	630	645	650
Angina	DK	18	392.3	282.6	66.6	5	860	5	30	490	550	780	860	860
Bronchitis/Emphysema	No	1,873	395.6	230.0	5.3	1	1,440	8	195	490	550	630	675	818
Bronchitis/Emphysema	Yes	86	356.4	236.1	25.5	5	800	10	75	428	540	620	660	800
Bronchitis/Emphysema	DK	16	403.9	289.5	72.4	5	860	5	30	490	583	780	860	860

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only (continued)															
Schools, Churches, Hospitals, and Public Buildings															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		2,932	274.3	205.9	3.8	1	1,440	20	95	221	430	540	615	725	805
Sex	Male	1,234	285.1	206.7	5.9	1	1,440	30	110	255	425	540	620	745	840
Sex	Female	1,698	266.5	205.1	5.0	1	1,440	20	90	200	430	540	610	713	800
Age (years)	-	50	269.0	221.0	31.3	5	1,030	30	100	193	400	590	625	872	1,030
Age (years)	1 to 4	98	233.0	235.8	23.8	1	1,440	5	60	150	390	545	595	900	1,440
Age (years)	5 to 11	391	351.2	149.6	7.6	5	665	70	245	389	440	535	562	625	645
Age (years)	12 to 17	355	366.3	161.2	8.6	1	935	60	260	415	446	502	605	710	805
Age (years)	18 to 64	1,653	267.7	221.2	5.4	1	1,440	15	87	190	450	570	655	760	855
Age (years)	>64	385	151.1	128.6	6.6	5	710	21	60	115	195	340	435	525	615
Race	White	2,310	268.2	204.3	4.3	1	1,440	20	90	210	429	540	612	705	765
Race	Black	332	303.5	207.1	11.4	1	1,440	35	135	285	440	540	630	775	1,000
Race	Asian	61	295.0	199.4	25.5	5	900	30	135	240	425	535	565	840	900
Race	Some Others	57	314.7	203.5	27.0	10	967	30	135	360	455	525	598	820	967
Race	Hispanic	141	283.9	229.8	19.4	2	1,440	11	100	237	430	525	630	840	940
Race	Refused	31	257.8	192.5	34.6	5	681	5	120	240	430	495	625	681	681
Hispanic	No	2,654	271.3	203.6	4.0	1	1,440	20	94	215	425	540	612	712	800
Hispanic	Yes	240	306.4	230.8	14.9	1	1,440	20	110	288	445	568	695	840	940
Hispanic	DK	13	279.4	230.7	64.0	35	760	35	65	235	420	562	760	760	760
Hispanic	Refused	25	286.6	175.4	35.1	5	625	55	145	255	440	495	565	625	625
Employment	-	821	343.5	171.1	6.0	1	1,440	55	190	393	441	520	570	645	713
Employment	Full Time	1,029	300.3	239.8	7.5	1	1,440	15	90	215	510	610	685	775	900
Employment	Part Time	293	251.3	199.3	11.6	1	1,030	20	85	200	387	525	610	800	880
Employment	Not Employed	775	176.4	148.4	5.3	1	855	15	60	121	250	400	475	570	641
Employment	Refused	14	212.9	147.7	39.5	5	440	5	120	190	305	430	440	440	440
Education	-	917	340.3	172.6	5.7	1	1,440	45	190	390	440	525	580	645	713
Education	< High School	166	172.6	138.0	10.7	1	735	27	70	124	235	375	465	525	640
Education	High School Graduate	617	207.3	199.0	8.0	1	1,440	15	60	135	295	510	585	690	785
Education	< College	520	247.5	213.6	9.4	1	1,000	15	85	165	420	553	640	760	855
Education	College Graduate	351	261.6	214.3	11.4	1	1,005	15	85	180	450	560	625	750	800
Education	Post Graduate	361	319.1	236.2	12.4	1	1,440	30	110	290	510	615	683	765	900
Census Region	Northeast	645	272.7	211.6	8.3	1	1,440	25	90	215	420	545	630	735	855
Census Region	Midwest	686	275.4	207.2	7.9	1	1,440	30	88	239	425	540	615	745	850
Census Region	South	1,036	278.4	201.0	6.2	1	1,440	20	110	230	440	535	600	690	778
Census Region	West	565	267.4	207.2	8.7	1	1,440	15	100	200	420	555	620	712	820
Day Of Week	Weekday	2,091	309.8	212.6	4.6	1	1,440	15	115	340	460	565	632	750	855
Day Of Week	Weekend	841	186.0	156.9	5.4	1	1,440	40	85	140	230	385	525	640	735
Season	Winter	847	296.6	201.2	6.9	1	1,440	30	120	285	444	545	615	710	770
Season	Spring	805	276.8	204.6	7.2	1	1,440	30	110	220	420	535	600	725	840
Season	Summer	667	254.1	209.7	8.1	1	1,015	20	80	180	420	550	630	738	890
Season	Fall	613	262.4	207.3	8.4	1	1,005	14	75	210	425	540	615	712	778
Asthma	No	2,689	273.2	207.3	4.0	1	1,440	20	94	217	430	540	615	725	820
Asthma	Yes	229	288.0	191.6	12.7	1	855	25	120	275	435	533	605	645	800
Asthma	DK	14	270.0	171.2	45.8	5	565	5	145	280	430	445	565	565	565
Angina	No	2,836	277.1	206.4	3.9	1	1,440	20	100	230	430	540	615	725	805
Angina	Yes	78	176.4	172.8	19.6	5	890	28	60	120	195	480	575	625	890
Angina	DK	18	258.3	165.6	39.0	3	565	3	145	270	378	480	565	565	565
Bronchitis/Emphysema	No	2,794	277.0	207.3	3.9	1	1,440	20	95	228	430	540	615	726	840
Bronchitis/Emphysema	Yes	121	212.6	166.3	15.1	10	662	30	90	145	375	445	490	605	630
Bronchitis/Emphysema	DK	17	275.8	163.4	39.6	5	565	5	145	305	415	440	565	565	565

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only (continued)

Malls, Grocery Stores, or Other Stores															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		2,697	115.0	141.0	2.7	1	1,080	10	30	60	135	285	482	570	640
Sex	Male	1,020	120.2	157.1	4.9	1	840	5	30	60	130	375	530	609	658
Sex	Female	1,677	111.8	130.1	3.2	1	1,080	10	30	60	135	255	400	550	600
Age (years)	-	50	139.4	137.6	19.5	15	660	20	45	93	180	339	420	565	660
Age (years)	1 to 4	110	90.0	77.9	7.4	5	420	10	40	65	105	210	250	359	360
Age (years)	5 to 11	129	77.7	68.0	6.0	3	320	5	30	60	110	180	225	255	280
Age (years)	12 to 17	140	88.7	101.4	8.6	1	530	5	20	45	124	223	318	384	413
Age (years)	18 to 64	1,871	125.9	156.8	3.6	1	1,080	10	30	60	150	360	525	600	658
Age (years)	>64	397	88.6	88.5	4.4	1	655	10	30	60	120	180	255	400	470
Race	White	2,234	111.6	139.4	3.0	1	1,080	10	30	60	130	265	495	570	640
Race	Black	237	123.0	152.3	9.9	2	800	10	25	60	135	370	480	600	613
Race	Asian	37	158.9	151.7	24.9	2	600	14	50	105	220	410	480	600	600
Race	Some Others	52	150.2	146.7	20.3	5	660	14	65	103	180	280	588	600	660
Race	Hispanic	110	133.1	138.3	13.2	1	720	10	35	90	195	310	450	535	540
Race	Refused	27	124.7	131.1	25.2	10	515	10	30	60	207	300	380	515	515
Hispanic	No	2,476	114.4	141.8	2.9	1	1,080	10	30	60	132	285	495	570	640
Hispanic	Yes	188	126.1	133.2	9.7	1	720	10	30	90	173	270	450	540	610
Hispanic	DK	12	49.4	37.7	10.9	2	122	2	18	48	70	105	122	122	122
Hispanic	Refused	21	122.4	138.5	30.2	10	515	20	33	60	180	290	380	515	515
Employment	-	372	86.9	86.3	4.5	1	660	5	30	60	120	206	255	360	384
Employment	Full Time	1,170	136.8	176.7	5.2	1	1,080	10	30	60	150	480	562	640	690
Employment	Part Time	285	134.1	147.7	8.8	2	540	6	30	65	186	400	480	520	540
Employment	Not Employed	854	91.2	87.2	3.0	1	585	10	30	60	120	195	255	360	420
Employment	Refused	16	98.9	110.0	27.5	10	357	10	32	53	115	290	357	357	357
Education	-	420	88.3	91.9	4.5	1	660	5	29	60	120	210	263	384	420
Education	< High School	206	128.9	155.7	10.8	2	1,080	10	30	75	150	330	500	570	605
Education	High School Graduate	792	126.3	158.9	5.6	1	960	5	30	60	150	365	524	600	660
Education	< College	583	129.8	149.5	6.2	1	800	10	30	70	165	345	510	563	651
Education	College Graduate	411	117.9	144.1	7.1	1	720	10	30	60	135	290	515	600	640
Education	Post Graduate	285	78.2	95.7	5.7	1	630	10	25	50	90	160	250	450	555
Census Region	Northeast	622	110.2	134.9	5.4	1	755	5	30	60	130	280	465	563	600
Census Region	Midwest	601	108.2	133.1	5.4	2	840	10	30	60	130	250	440	560	645
Census Region	South	871	127.9	155.8	5.3	1	1,080	10	30	60	155	320	520	600	660
Census Region	West	603	107.9	130.7	5.3	1	840	10	30	60	120	255	430	550	600
Day Of Week	Weekday	1,721	117.5	148.9	3.6	1	1,080	10	30	60	135	320	510	586	650
Day Of Week	Weekend	976	110.6	125.7	4.0	1	840	5	30	65	135	255	380	560	608
Season	Winter	683	111.7	134.0	5.1	2	840	10	30	60	135	255	420	568	660
Season	Spring	679	115.8	142.2	5.5	1	720	10	30	60	130	300	500	588	645
Season	Summer	759	113.1	147.5	5.4	1	1,080	5	30	60	125	300	510	570	610
Season	Fall	576	120.2	138.9	5.8	1	840	10	30	60	160	295	480	550	640
Asthma	No	2,480	116.2	142.4	2.9	1	1,080	10	30	60	135	288	495	575	640
Asthma	Yes	208	101.1	125.0	8.7	1	600	5	30	60	120	245	420	545	550
Asthma	DK	9	85.1	79.6	26.5	33	290	33	55	58	60	290	290	290	290
Angina	No	2,607	116.0	142.1	2.8	1	1,080	10	30	60	135	290	495	570	640
Angina	Yes	74	90.8	103.9	12.1	2	630	15	37	64	105	150	190	510	630
Angina	DK	16	62.7	68.1	17.0	2	290	2	30	55	60	110	290	290	290
Bronchitis/Emphysema	No	2,553	115.7	141.7	2.8	1	1,080	10	30	60	135	285	481	570	640
Bronchitis/Emphysema	Yes	130	104.8	131.3	11.5	5	613	10	25	60	135	193	505	575	609
Bronchitis/Emphysema	DK	14	71.1	66.9	17.9	20	290	20	35	57	70	110	290	290	290

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only (continued)															
Indoors at a Gym/Health Club															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		364	129.7	104.3	5.5	5	686	30	60	110	155	240	320	525	600
Sex	Male	176	147.2	115.6	8.7	5	686	30	78	120	175	285	360	533	660
Sex	Female	188	113.2	89.9	6.6	5	660	30	60	93	135	200	279	420	560
Age (years)	-	6	202.5	227.9	93.0	30	560	30	55	75	420	560	560	560	560
Age (years)	1 to 4	5	156.0	29.9	13.4	105	180	105	160	160	175	180	180	180	180
Age (years)	5 to 11	28	105.3	69.5	13.1	5	325	30	58	83	141	165	270	325	325
Age (years)	12 to 17	39	165.4	122.1	19.5	15	660	30	90	138	206	330	440	660	660
Age (years)	18 to 64	254	123.1	98.8	6.2	5	686	30	60	100	150	210	295	475	600
Age (years)	>64	32	141.4	114.2	20.2	10	533	30	60	103	173	292	340	533	533
Race	White	307	134.3	109.4	6.2	5	686	30	65	110	164	255	330	533	600
Race	Black	30	117.7	75.4	13.8	5	320	10	60	115	145	235	285	320	320
Race	Asian	10	75.2	36.5	11.5	30	145	30	54	60	95	133	145	145	145
Race	Some Others	11	112.9	69.1	20.8	25	270	25	65	90	153	179	270	270	270
Race	Hispanic	4	83.8	42.7	21.3	40	140	40	53	78	115	140	140	140	140
Race	Refused	2	57.5	3.5	2.5	55	60	55	55	58	60	60	60	60	60
Hispanic	No	345	132.0	105.9	5.7	5	686	30	65	110	160	240	325	533	600
Hispanic	Yes	17	90.1	58.8	14.3	5	255	5	60	90	115	140	255	255	255
Hispanic	Refused	2	57.5	3.5	2.5	55	60	55	55	58	60	60	60	60	60
Employment	-	72	139.6	103.3	12.2	5	660	30	76	120	165	265	330	440	660
Employment	Full Time	176	131.2	112.5	8.5	5	686	30	60	110	150	240	330	560	660
Employment	Part Time	40	129.3	92.8	14.7	25	420	35	60	95	168	285	325	420	420
Employment	Not Employed	75	117.9	91.3	10.5	5	533	25	60	90	145	230	285	475	533
Employment	Refused	1	40.0	-	-	40	40	40	40	40	40	40	40	40	40
Education	-	81	136.9	99.7	11.1	5	660	30	75	120	164	215	325	440	660
Education	< High School	9	110.6	97.7	32.6	10	300	10	30	80	165	300	300	300	300
Education	High School Graduate	61	128.5	110.0	14.1	5	660	25	75	105	145	210	310	525	660
Education	< College	71	145.6	129.1	15.3	5	600	35	65	110	170	285	533	560	600
Education	College Graduate	81	122.0	99.5	11.1	15	686	30	60	98	135	220	285	420	686
Education	Post Graduate	61	115.6	76.9	9.8	10	415	40	60	90	145	225	265	320	415
Census Region	Northeast	83	140.5	107.2	11.8	20	660	40	70	120	170	240	330	600	660
Census Region	Midwest	62	127.0	88.7	11.3	5	440	25	60	113	170	285	300	340	440
Census Region	South	118	125.7	107.0	9.9	5	660	15	60	105	150	240	330	533	540
Census Region	West	101	127.0	108.5	10.8	5	686	50	60	92	135	225	292	525	560
Day Of Week	Weekday	281	121.3	96.6	5.8	5	686	30	60	98	145	210	295	475	560
Day Of Week	Weekend	83	158.1	123.7	13.6	5	660	30	77	120	180	285	415	600	660
Season	Winter	127	139.8	108.3	9.6	5	686	25	75	120	177	240	330	533	660
Season	Spring	85	141.5	115.2	12.5	10	600	30	65	102	164	285	340	560	600
Season	Summer	81	109.9	87.4	9.7	5	525	30	60	90	130	160	310	440	525
Season	Fall	71	119.9	99.0	11.7	20	660	30	56	98	150	215	295	420	660
Asthma	No	333	132.4	106.8	5.9	5	686	30	62	110	160	255	325	533	600
Asthma	Yes	28	100.1	69.4	13.1	5	330	25	60	86	118	210	230	330	330
Asthma	DK	3	101.7	55.8	32.2	60	165	60	60	80	165	165	165	165	165
Angina	No	357	130.5	105.0	5.6	5	686	30	62	110	155	240	325	525	600
Angina	Yes	4	90.0	47.6	23.8	60	160	60	60	70	120	160	160	160	160
Angina	DK	3	81.7	65.3	37.7	30	155	30	30	60	155	155	155	155	155
Bronchitis/Emphysema	No	352	130.7	104.8	5.6	5	686	30	61	110	158	240	320	525	600
Bronchitis/Emphysema	Yes	10	97.3	92.8	29.4	10	330	10	45	77	120	245	330	330	330
Bronchitis/Emphysema	DK	2	107.5	67.2	47.5	60	155	60	60	108	155	155	155	155	155

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only (continued)

Indoors at an Auto Repair Shop/Gas Station															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		153	190.7	234.5	19.0	1	930	5	15	60	360	565	645	695	748
Gender	Male	105	241.5	250.3	24.4	2	930	5	15	115	495	600	675	700	748
Gender	Female	48	79.6	144.5	20.9	1	595	3	10	15	70	295	485	595	595
Age (years)	-	3	161.7	115.6	66.7	90	295	90	90	100	295	295	295	295	295
Age (years)	1 to 4	4	40.0	50.2	25.1	10	115	10	13	18	68	115	115	115	115
Age (years)	5 to 11	5	22.0	21.7	9.7	5	60	5	15	15	15	60	60	60	60
Age (years)	12 to 17	7	153.9	205.1	77.5	3	505	3	5	55	390	505	505	505	505
Age (years)	18 to 64	118	223.8	249.3	23.0	1	930	5	15	75	480	600	675	700	748
Age (years)	> 64	16	58.1	96.9	24.2	2	358	2	15	20	43	225	358	358	358
Race	White	130	195.5	237.5	20.8	1	930	5	15	60	390	588	645	700	748
Race	Black	12	149.7	203.3	58.7	2	565	2	7	75	229	495	565	565	565
Race	Asian	5	173.0	231.2	103.4	5	525	5	15	25	295	525	525	525	525
Race	Some Others	3	15.0	10.0	5.8	5	25	5	5	15	25	25	25	25	25
Race	Hispanic	3	350.0	330.1	190.6	15	675	15	15	360	675	675	675	675	675
Hispanic	No	148	188.9	233.7	19.2	1	930	5	15	60	370	565	630	700	748
Hispanic	Yes	5	243.0	279.7	125.1	15	675	15	15	150	360	675	675	675	675
Employment	-	16	84.2	146.7	36.7	3	505	3	13	18	70	390	505	505	505
Employment	Full Time	84	283.6	263.8	28.8	3	930	5	18	230	540	630	680	748	930
Employment	Part Time	16	104.2	147.4	36.8	5	390	5	13	18	188	359	390	390	390
Employment	Not Employed	35	65.9	94.7	16.0	1	432	2	15	30	90	160	358	432	432
Employment	Refused	2	17.5	17.7	12.5	5	30	5	5	18	30	30	30	30	30
Education	-	18	95.1	153.9	36.2	3	505	3	10	18	79	390	505	505	505
Education	< High School	16	327.2	301.2	75.3	5	930	5	60	278	615	675	930	930	930
Education	High School Graduate	51	233.4	243.1	34.0	2	748	5	20	120	480	565	675	695	748
Education	< College	32	253.5	252.8	44.7	2	700	5	15	157	518	595	680	700	700
Education	College Graduate	19	72.9	126.3	29.0	1	508	1	5	20	90	295	508	508	508
Education	Post Graduate	17	49.0	73.4	17.8	5	235	5	10	15	35	225	235	235	235
Census Region	Northeast	29	247.3	257.1	47.7	2	930	3	30	120	432	600	748	930	930
Census Region	Midwest	48	230.9	251.6	36.3	1	700	5	18	75	510	600	680	700	700
Census Region	South	43	165.7	211.6	32.3	3	675	5	15	50	358	555	595	675	675
Census Region	West	33	115.0	198.9	34.6	5	675	5	10	15	100	505	645	675	675
Day Of Week	Weekday	121	204.6	244.9	22.3	1	930	5	15	60	390	595	675	700	748
Day Of Week	Weekend	32	137.9	184.2	32.6	2	540	3	15	40	200	505	510	540	540
Season	Winter	28	177.1	258.1	48.8	2	930	5	15	30	355	595	700	930	930
Season	Spring	44	189.6	223.3	33.7	2	645	5	15	80	385	565	600	645	645
Season	Summer	52	171.7	223.8	31.0	1	680	3	10	30	348	540	675	675	680
Season	Fall	29	239.4	251.4	46.7	5	748	8	35	95	445	605	695	748	748
Asthma	No	145	191.3	235.3	19.5	1	930	5	15	60	360	565	645	700	748
Asthma	Yes	8	179.9	234.8	83.0	5	600	5	5	38	375	600	600	600	600
Angina	No	149	191.0	235.3	19.3	1	930	5	15	60	360	585	645	700	748
Angina	Yes	4	177.5	235.7	117.9	5	510	5	10	98	345	510	510	510	510
Bronchitis/Emphysema	No	146	189.0	235.0	19.4	1	930	5	15	58	360	585	645	700	748
Bronchitis/Emphysema	Yes	7	225.0	240.0	90.7	5	555	5	5	95	510	555	555	555	555

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only (continued)															
Indoors at the Laundromat															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		40	99.3	85.2	13.5	2	500	5	55	91	120	153	238	500	500
Gender	Male	9	150.2	146.8	48.9	2	500	2	115	120	150	500	500	500	500
Gender	Female	31	84.5	51.8	9.3	5	265	5	50	80	115	137	155	265	265
Age (years)	5 to 11	3	80.7	17.9	10.3	60	92	60	60	90	92	92	92	92	92
Age (years)	18 to 64	33	101.2	91.7	16.0	2	500	5	50	90	120	155	265	500	500
Age (years)	> 64	4	97.5	63.6	31.8	5	150	5	60	118	135	150	150	150	150
Race	White	31	102.2	93.8	16.9	2	500	5	50	90	120	155	265	500	500
Race	Black	6	75.7	50.3	20.5	5	130	5	34	85	115	130	130	130	130
Race	Hispanic	3	116.7	30.6	17.6	90	150	90	110	150	150	150	150	150	150
Hispanic	No	37	97.9	88.2	14.5	2	500	5	50	90	120	155	265	500	500
Hispanic	Yes	3	116.7	30.6	17.6	90	150	90	90	110	150	150	150	150	150
Employment	-	3	80.7	17.9	10.3	60	92	60	60	90	92	92	92	92	92
Employment	Full Time	20	97.6	104.7	23.4	2	500	4	42	84	115	143	328	500	500
Employment	Part Time	4	127.5	91.9	45.9	75	265	75	78	85	178	265	265	265	265
Employment	Not Employed	13	97.4	60.9	16.9	5	210	5	45	115	137	150	210	210	210
Education	-	3	80.7	17.9	10.3	60	92	60	60	90	92	92	92	92	92
Education	< High School	6	95.0	53.3	21.8	5	150	5	60	113	130	150	150	150	150
Education	High School Graduate	17	101.4	64.4	15.6	5	265	5	59	90	120	210	265	265	265
Education	< College	6	91.5	56.4	23.0	10	155	10	34	115	120	155	155	155	155
Education	College Graduate	7	126.4	168.2	63.6	5	500	5	45	70	110	500	500	500	500
Education	Post Graduate	1	2.0	-	-	2	2	2	2	2	2	2	2	2	2
Census Region	Northeast	6	168.7	166.5	68.0	45	500	45	75	126	140	500	500	500	500
Census Region	Midwest	8	94.0	60.3	21.3	5	210	5	58	94	118	210	210	210	210
Census Region	South	18	85.9	61.8	14.6	2	265	2	50	76	115	155	265	265	265
Census Region	West	8	82.5	52.9	18.7	5	150	5	35	100	118	150	150	150	150
Day Of Week	Weekday	25	103.3	100.7	20.1	2	500	5	50	90	115	155	265	500	500
Day Of Week	Weekend	15	92.5	52.7	13.6	10	210	10	60	92	130	150	210	210	210
Season	Winter	11	86.5	58.0	17.5	2	210	2	45	80	120	140	210	210	210
Season	Spring	12	85.6	71.7	20.7	5	265	5	35	74	120	130	265	265	265
Season	Summer	12	118.7	125.8	36.3	5	500	5	55	101	113	137	500	500	500
Season	Fall	5	113.8	48.4	21.7	34	155	34	115	115	150	155	155	155	155
Asthma	No	37	95.5	83.9	13.8	2	500	5	50	90	120	150	210	500	500
Asthma	Yes	3	146.3	106.5	61.5	59	265	59	59	115	265	265	265	265	265
Angina	No	40	99.3	85.2	13.5	2	500	5	55	91	120	153	238	500	500
Bronchitis/Emphysema	No	35	92.3	84.3	14.3	2	500	5	50	90	115	130	210	500	500
Bronchitis/Emphysema	Yes	5	148.0	83.3	37.2	30	265	30	140	150	155	265	265	265	265

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only (continued)

Indoors at Work (Non-Specific)															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		137	393.9	242.6	20.7	5	979	15	180	440	555	662	810	940	960
Gender	Male	96	435.3	244.0	24.9	10	979	20	245	473	598	765	840	960	979
Gender	Female	41	297.2	212.4	33.2	5	780	15	90	280	495	550	590	780	780
Age (years)	-	4	568.8	394.7	197.4	90	940	90	248	623	890	940	940	940	940
Age (years)	1 to 4	2	200.0	70.7	50.0	150	250	150	150	200	250	250	250	250	250
Age (years)	5 to 11	4	33.8	11.1	5.5	20	45	20	25	35	43	45	45	45	45
Age (years)	12 to 17	2	207.5	166.2	117.5	90	325	90	90	208	325	325	325	325	325
Age (years)	18 to 64	121	409.7	230.9	21.0	5	979	15	240	450	560	660	793	850	960
Age (years)	> 64	4	293.8	289.5	144.7	10	610	10	50	278	538	610	610	610	610
Race	White	113	397.9	235.2	22.1	5	979	15	210	450	555	660	780	940	960
Race	Black	13	379.2	286.5	79.5	10	850	10	85	405	510	810	850	850	850
Race	Some Others	1	405.0	-	-	405	405	405	405	405	405	405	405	405	405
Race	Hispanic	9	314.8	266.2	88.7	30	793	30	95	245	440	793	793	793	793
Race	Refused	1	840.0	-	-	840	840	840	840	840	840	840	840	840	840
Hispanic	No	121	388.7	242.1	22.0	5	979	15	180	405	550	660	795	940	960
Hispanic	Yes	12	361.1	242.1	69.9	30	793	30	138	370	510	660	793	793	793
Hispanic	DK	2	585.0	35.4	25.0	560	610	560	560	585	610	610	610	610	610
Hispanic	Refused	2	717.5	173.2	122.5	595	840	595	595	718	840	840	840	840	840
Employment	-	8	118.8	113.9	40.3	20	325	20	35	68	200	325	325	325	325
Employment	Full Time	97	440.7	237.6	24.1	10	979	15	300	480	585	690	815	960	979
Employment	Part Time	21	341.2	188.2	41.1	30	795	115	240	330	435	590	610	795	795
Employment	Not Employed	9	250.6	218.6	72.9	5	630	5	95	150	360	630	630	630	630
Employment	Refused	2	425.0	586.9	415.0	10	840	10	10	425	840	840	840	840	840
Education	-	11	234.1	266.3	80.3	20	840	20	40	150	325	610	840	840	840
Education	< High School	12	460.4	181.7	52.5	115	795	115	330	495	558	615	795	795	795
Education	High School Graduate	50	409.6	273.7	38.7	5	979	15	150	463	619	735	940	970	979
Education	< College	29	368.9	237.6	44.1	10	850	10	160	405	510	660	765	850	850
Education	College Graduate	22	405.7	184.2	39.3	90	815	150	240	375	540	595	645	815	815
Education	Post Graduate	13	443.7	218.1	60.5	10	793	10	360	500	585	630	793	793	793
Census Region	Northeast	22	405.5	193.8	41.3	15	765	90	320	398	540	660	662	765	765
Census Region	Midwest	26	418.6	250.9	49.2	10	940	13	180	473	610	690	780	940	940
Census Region	South	58	379.7	233.2	30.6	5	979	10	150	420	540	619	810	815	979
Census Region	West	31	391.7	289.5	52.0	10	960	20	90	405	630	795	850	960	960
Day Of Week	Weekday	121	401.8	242.5	22.0	5	979	15	210	450	560	660	810	940	960
Day Of Week	Weekend	16	334.3	243.3	60.8	13	795	13	98	340	495	690	795	795	795
Season	Winter	42	390.8	241.5	37.3	10	960	30	175	405	550	660	765	960	960
Season	Spring	34	361.3	237.0	40.6	10	840	30	150	360	525	660	815	840	840
Season	Summer	41	400.9	262.9	41.1	5	979	13	210	450	570	690	810	979	979
Season	Fall	20	441.8	219.4	49.1	10	793	13	285	490	620	661	728	793	793
Asthma	No	124	393.2	237.3	21.3	5	960	20	180	440	553	660	795	850	940
Asthma	Yes	13	400.9	300.2	83.2	10	979	10	240	320	590	793	979	979	979
Angina	No	133	397.7	243.3	21.1	5	979	15	190	440	555	662	810	940	960
Angina	Yes	3	266.7	255.8	147.7	90	560	90	90	150	560	560	560	560	560
Angina	DK	1	280.0	-	-	280	280	280	280	280	280	280	280	280	280
Bronchitis/Emphysema	No	131	397.1	242.0	21.1	5	979	20	180	440	555	662	810	940	960
Bronchitis/Emphysema	Yes	5	333.4	299.4	133.9	10	619	10	13	460	565	619	619	619	619
Bronchitis/Emphysema	DK	1	280.0	-	-	280	280	280	280	280	280	280	280	280	280

Table 16-18. Time Spent (minutes/day) at Selected Indoor Locations, Doers Only (continued)															
Indoors at Dry Cleaners															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		34	82.0	151.7	26.0	2	515	5	5	10	90	325	500	515	515
Gender	Male	11	105.5	166.0	50.1	2	515	2	5	10	103	325	515	515	515
Gender	Female	23	70.8	146.8	30.6	5	500	5	5	10	35	300	485	500	500
Age (years)	-	1	485.0	-	-	485	485	485	485	485	485	485	485	485	485
Age (years)	1 to 4	2	20.0	21.2	15.0	5	35	5	5	20	35	35	35	35	35
Age (years)	18 to 64	28	61.0	120.9	22.9	2	515	5	5	10	55	300	325	515	515
Age (years)	> 64	3	185.0	273.4	157.8	10	500	10	10	45	500	500	500	500	500
Race	White	25	70.7	143.7	28.7	2	515	5	5	10	35	300	485	515	515
Race	Black	7	131.4	199.0	75.2	5	500	5	10	20	325	500	500	500	500
Race	Some Others	1	10.0	-	-	10	10	10	10	10	10	10	10	10	10
Race	Hispanic	1	91.0	-	-	91	91	91	91	91	91	91	91	91	91
Hispanic	No	31	83.8	158.5	28.5	2	515	5	5	10	45	325	500	515	515
Hispanic	Yes	3	63.7	46.5	26.8	10	91	10	10	90	91	91	91	91	91
Employment	-	2	20.0	21.2	15.0	5	35	5	5	20	35	35	35	35	35
Employment	Full Time	25	83.1	151.8	30.4	2	515	5	5	10	90	325	485	515	515
Employment	Part Time	1	500.0	-	-	500	500	500	500	500	500	500	500	500	500
Employment	Not Employed	6	28.5	33.9	13.9	5	91	5	10	10	45	91	91	91	91
Education	-	2	20.0	21.2	15.0	5	35	5	5	20	35	35	35	35	35
Education	< High School	4	234.0	209.2	104.6	45	500	45	68	196	400	500	500	500	500
Education	High School Graduate	8	84.1	165.0	58.3	5	485	5	13	18	62	485	485	485	485
Education	< College	6	146.3	220.3	90.0	5	515	5	10	12	325	515	515	515	515
Education	College Graduate	12	13.5	24.2	7.0	2	90	2	5	5	10	10	90	90	90
Education	Post Graduate	2	50.0	63.6	45.0	5	95	5	5	50	95	95	95	95	95
Census Region	Northeast	8	110.0	187.3	66.2	5	485	5	5	10	180	485	485	485	485
Census Region	Midwest	10	19.1	30.1	9.5	5	103	5	5	8	20	62	103	103	103
Census Region	South	8	197.0	212.0	74.9	15	515	15	30	93	400	515	515	515	515
Census Region	West	8	17.8	29.4	10.4	2	90	2	5	10	10	90	90	90	90
Day Of Week	Weekday	23	94.0	172.8	36.0	2	515	5	5	10	90	485	500	515	515
Day Of Week	Weekend	11	57.1	96.0	28.9	5	325	5	5	10	95	103	325	325	325
Season	Winter	12	74.6	158.1	45.6	5	485	5	5	10	13	325	485	485	485
Season	Spring	4	44.5	41.7	20.8	10	103	10	15	33	74	103	103	103	103
Season	Summer	8	20.3	32.0	11.3	2	95	2	5	5	23	95	95	95	95
Season	Fall	10	155.4	205.7	65.1	5	515	5	13	55	300	508	515	515	515
Asthma	No	32	86.7	155.2	27.4	2	515	5	5	12	91	325	500	515	515
Asthma	Yes	2	7.5	3.5	2.5	5	10	5	5	7.5	10	10	10	10	10
Angina	No	33	83.9	153.6	26.7	2	515	5	5	10	90	325	500	515	515
Angina	Yes	1	20.0	-	-	20	20	20	20	20	20	20	20	20	20
Bronchitis/Emphysema	No	33	84.1	153.5	26.7	2	515	5	5	10	90	325	500	515	515
Bronchitis/Emphysema	Yes	1	15.0	-	-	15	15	15	15	15	15	15	15	15	15
-	= Indicates missing data.														
DK	= The respondent replied "don't know".														
Refused	= Refused data.														
N	= Doer sample size.														
SD	= Standard deviation.														
SE	= Standard error.														
Min	= Minimum number of minutes.														
Max	= Maximum number of minutes.														
Source:	U.S. EPA (1996).														

Table 16-19. Time Spent (minutes/day) in Selected Outdoor Locations Whole Population and Doers Only, Children <21 Years

Age (years)	N	Mean	Min	Percentiles										Max	
				1	2	5	10	25	50	75	90	95	98		99
School Grounds/Playground—Whole Population															
Birth to <1	63	2	0	0	0	0	0	0	0	0	0	0	0	53	140
1 to <2	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 to <3	118	4	0	0	0	0	0	0	0	0	0	0	50	131	175
3 to <6	357	5	0	0	0	0	0	0	0	0	0	0	64	127	625
6 to <11	497	8	0	0	0	0	0	0	0	0	10	60	121	170	315
11 to <16	466	10	0	0	0	0	0	0	0	0	20	80	120	160	570
16 to <21	481	8	0	0	0	0	0	0	0	0	0	50	135	180	510
School Grounds/Playground—Doers Only															
Birth to <1	1	-	140	-	-	-	-	-	-	-	-	-	-	-	140
1 to <2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 to <3	5	-	10	-	-	-	-	-	-	-	-	-	-	-	175
3 to <6	12	138	20	22	24	31	42	59	118	138	150	364	521	573	625
6 to <11	52	80	10	10	10	10	15	30	59	106	169	217	280	298	315
11 to <16	62	72	3	4	5	5	5	21	53	95	149	178	217	360	570
16 to <21	34	116	10	10	10	13	18	46	95	161	201	305	418	464	510
Parks or Golf Courses—Whole Population															
Birth to <1	63	3	0	0	0	0	0	0	0	0	0	0	45	63	85
1 to <2	118	3	0	0	0	0	0	0	0	0	0	0	0	25	360
2 to <3	118	12	0	0	0	0	0	0	0	0	0	24	126	246	755
3 to <6	357	10	0	0	0	0	0	0	0	0	0	71	163	220	585
6 to <11	497	16	0	0	0	0	0	0	0	0	0	72	328	483	665
11 to <16	466	19	0	0	0	0	0	0	0	0	0	114	265	452	1,065
16 to <21	481	22	0	0	0	0	0	0	0	0	0	150	381	546	870
Parks or Golf Courses—Doers Only															
Birth to <1	3	-	30	-	-	-	-	-	-	-	-	-	-	-	85
1 to <2	2	-	30	-	-	-	-	-	-	-	-	-	-	-	360
2 to <3	7	-	21	-	-	-	-	-	-	-	-	-	-	-	755
3 to <6	26	144	25	26	28	31	44	63	113	165	273	388	505	545	585
6 to <11	34	236	25	30	35	43	52	73	123	394	568	644	662	663	665
11 to <16	38	237	15	15	15	15	27	86	164	266	470	851	954	1,010	1,065
16 to <21	47	225	1	7	14	15	24	60	160	308	557	633	677	773	870
Pool, River, or Lake—Whole Population															
Birth to <1	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 to <2	118	1	0	0	0	0	0	0	0	0	0	0	0	0	118
2 to <3	118	12	0	0	0	0	0	0	0	0	0	14	228	352	435
3 to <6	357	5	0	0	0	0	0	0	0	0	0	0	85	163	630
6 to <11	497	9	0	0	0	0	0	0	0	0	0	0	220	295	375
11 to <16	466	4	0	0	0	0	0	0	0	0	0	0	60	160	235
16 to <21	481	8	0	0	0	0	0	0	0	0	0	0	145	240	570
Pool, River, or Lake—Doers Only															
Birth to <1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to <2	1	-	118	-	-	-	-	-	-	-	-	-	-	-	118
2 to <3	6	-	95	-	-	-	-	-	-	-	-	-	-	-	435
3 to <6	9	-	45	-	-	-	-	-	-	-	-	-	-	-	630
6 to <11	24	178	25	26	27	32	46	75	155	294	319	359	370	373	375
11 to <16	16	121	58	58	59	59	60	60	85	206	225	228	232	234	235
16 to <21	22	179	20	22	24	31	40	55	125	238	415	548	564	567	570
-	= Indicates missing data.														
N	= Doer sample size.														
Min	= Minimum number of minutes.														
Max	= Maximum number of minutes.														
Source:	U.S. EPA (1996).														

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only															
Outdoors on School Grounds/Playground															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		259	98.4	110.1	6.8	1	690	5	30	70	120	208	300	540	570
Sex	Male	0.136	118.0	126.4	10.8	1	690	10	35	85	149	255	370	555	625
Sex	Female	123	76.7	83.9	7.6	1	570	5	20	51	120	180	225	270	440
Age (years)	-	2	275.0	374.8	265.0	10	540	10	10	275	540	540	540	540	540
Age (years)	1 to 4	9	85.0	61.1	20.4	10	175	10	30	65	140	175	175	175	175
Age (years)	5 to 11	64	88.0	95.6	12.0	5	625	10	30	60	120	170	220	315	625
Age (years)	12 to 17	76	78.7	88.2	10.1	3	570	5	25	55	105	165	225	370	570
Age (years)	18 to 64	101	119.8	127.6	12.7	1	690	5	30	85	165	240	360	540	555
Age (years)	>64	7	65.0	47.3	17.9	5	150	5	30	60	95	150	150	150	150
Race	White	208	98.2	106.5	7.4	1	690	9	30	70	125	190	281	510	555
Race	Black	23	128.4	157.5	32.9	5	570	5	25	67	170	300	540	570	570
Race	Asian	6	59.0	66.1	27.0	10	179	10	10	35	85	179	179	179	179
Race	Some Others	7	70.0	59.7	22.6	10	180	10	10	60	105	180	180	180	180
Race	Hispanic	15	83.7	103.0	26.6	1	370	1	10	30	120	228	370	370	370
Hispanic	No	225	102.6	113.7	7.6	3	690	9	30	70	125	210	300	540	570
Hispanic	Yes	32	71.2	79.9	14.1	1	370	1	13	33	110	150	228	370	370
Hispanic	DK	2	57.5	31.8	22.5	35	80	35	35	58	80	80	80	80	80
Employment	-	143	80.2	88.0	7.4	3	625	9	25	55	115	160	215	315	570
Employment	Full Time	48	130.3	127.2	18.4	1	555	10	40	85	180	300	360	555	555
Employment	Part Time	24	129.7	158.9	32.4	3	690	10	35	85	144	228	510	690	690
Employment	Not Employed	42	95.4	94.8	14.6	1	440	5	30	80	120	180	235	440	440
Employment	Refused	2	322.5	307.6	217.5	105	540	105	105	323	540	540	540	540	540
Education	-	162	86.6	94.6	7.4	3	625	10	27	60	120	170	220	370	570
Education	< High School	11	124.8	171.9	51.8	1	540	1	5	45	180	345	540	540	540
Education	High School Graduate	33	113.6	110.7	19.3	3	555	5	30	90	160	240	290	555	555
Education	< College	19	129.8	147.4	33.8	5	510	5	33	70	210	440	510	510	510
Education	College Graduate	19	122.1	149.9	34.4	5	690	5	50	85	125	235	690	690	690
Education	Post Graduate	15	102.9	98.1	25.3	1	360	1	30	75	125	235	360	360	360
Census Region	Northeast	66	106.0	115.2	14.2	5	690	10	30	85	150	190	281	540	690
Census Region	Midwest	53	86.1	109.2	15.0	3	540	5	20	50	115	190	290	510	540
Census Region	South	82	85.5	92.4	10.2	1	570	5	30	60	115	180	255	360	570
Census Region	West	58	119.3	125.6	16.5	1	625	10	30	85	160	235	440	555	625
Day Of Week	Weekday	205	87.0	105.5	7.4	1	625	5	25	55	115	180	240	540	555
Day Of Week	Weekend	54	141.5	117.1	15.9	10	690	25	67	113	180	290	345	440	690
Season	Winter	53	72.2	102.0	14.0	1	555	3	20	35	85	130	315	440	555
Season	Spring	88	108.6	96.5	10.3	5	540	10	45	85	148	215	255	510	540
Season	Summer	65	116.4	137.9	17.1	5	690	10	30	75	135	270	360	625	690
Season	Fall	53	85.5	96.2	13.2	5	540	5	20	55	120	180	235	345	540
Asthma	No	237	100.9	113.2	7.4	1	690	5	30	70	120	215	315	540	570
Asthma	Yes	22	70.9	62.0	13.2	5	179	10	15	45	145	160	165	179	179
Angina	No	254	99.1	110.8	7.0	1	690	5	30	69	120	208	300	540	570
Angina	Yes	5	61.2	53.4	23.9	1	130	1	15	70	90	130	130	130	130
Bronchitis/Emphysema	No	248	100.6	111.6	7.1	1	690	5	30	71	125	210	300	540	570
Bronchitis/Emphysema	Yes	10	52.7	45.4	14.4	9	160	9	22	44	60	125	160	160	160
Bronchitis/Emphysema	DK	1	15.0	0.0	0.0	15	15	15	15	15	15	15	15	15	15

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)

		Outdoor Playing													
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		59	97.4	95.4	12.4	5	435	15	45	60	110	210	360	420	435
Gender	Male	26	108.2	94.8	18.6	15	360	15	60	75	135	280	345	360	360
Gender	Female	33	88.8	96.4	16.8	5	435	5	45	60	100	150	420	435	435
Age (years)	-	1	170.0	-	-	170	170	170	170	170	170	170	170	170	170
Age (years)	1 to 4	4	83.3	89.7	44.8	15	210	15	20	54	147	210	210	210	210
Age (years)	5 to 11	9	148.3	144.3	48.1	5	360	5	55	60	280	360	360	360	360
Age (years)	12 to 17	1	15.0	-	-	15	15	15	15	15	15	15	15	15	15
Age (years)	18 to 64	40	92.1	86.4	13.7	20	435	28	53	65	103	143	307	435	435
Age (years)	> 64	4	52.5	15.0	7.5	30	60	30	45	60	60	60	60	60	60
Race	White	50	93.9	90.2	12.8	5	420	15	45	60	100	202	345	390	420
Race	Black	2	86.5	37.5	26.5	60	113	60	60	87	113	113	113	113	113
Race	Asian	1	100.0	-	-	100	100	100	100	100	100	100	100	100	100
Race	Some Others	1	30.0	-	-	30	30	30	30	30	30	30	30	30	30
Race	Hispanic	5	149.0	164.9	73.7	20	435	20	60	110	120	435	435	435	435
Hispanic	No	51	93.3	89.7	12.6	5	420	15	45	60	100	194	345	360	420
Hispanic	Yes	8	123.1	130.2	46.0	20	435	20	60	90	115	435	435	435	435
Employment	-	15	123.5	124.4	32.1	5	360	5	15	60	210	345	360	360	360
Employment	Full Time	15	67.2	30.9	8.0	20	135	20	45	60	85	113	135	135	135
Employment	Part Time	7	87.7	54.1	20.5	30	194	30	60	60	110	194	194	194	194
Employment	Not Employed	22	103.2	110.1	23.5	25	435	30	45	60	105	150	420	435	435
Education	-	15	123.5	124.4	32.1	5	360	5	15	60	210	345	360	360	360
Education	< High School	5	57.0	6.7	3.0	45	60	45	60	60	60	60	60	60	60
Education	High School Graduate	10	148.5	150.5	47.6	30	435	30	60	95	135	428	435	435	435
Education	< College	18	74.7	45.2	10.6	20	194	20	45	60	95	150	194	194	194
Education	College Graduate	8	75.4	35.5	12.5	30	120	30	45	75	107	120	120	120	120
Education	Post Graduate	3	58.3	24.7	14.2	30	75	30	30	70	75	75	75	75	75
Census Region	Northeast	17	114.1	103.3	25.0	15	360	15	60	70	120	345	360	360	360
Census Region	Midwest	12	78.6	32.4	9.3	30	150	30	60	65	98	113	150	150	150
Census Region	South	15	109.7	109.5	28.3	30	420	30	30	60	135	280	420	420	420
Census Region	West	15	81.2	107.7	27.8	5	435	5	20	60	105	165	435	435	435
Day Of Week	Weekday	42	86.8	79.2	12.2	5	360	15	30	60	100	165	280	360	360
Day Of Week	Weekend	17	123.5	126.0	30.6	25	435	25	45	60	120	420	435	435	435
Season	Winter	10	66.5	46.3	14.6	5	150	5	30	60	105	135	150	150	150
Season	Spring	10	135.3	114.7	36.3	45	435	45	60	108	165	303	435	435	435
Season	Summer	31	92.4	95.0	17.1	5	420	15	45	60	100	210	345	420	420
Season	Fall	8	108.0	115.7	40.9	25	360	25	30	68	142	360	360	360	360
Asthma	No	56	94.8	91.5	12.2	5	435	15	45	60	108	194	360	420	435
Asthma	Yes	3	145.0	173.9	100.4	30	345	30	30	60	345	345	345	345	345
Angina	No	58	97.0	96.1	12.6	5	435	15	45	60	105	210	360	420	435
Angina	Yes	1	120.0	-	-	120	120	120	120	120	120	120	120	120	120
Bronchitis/Emphysema	No	55	90.1	87.1	11.7	5	435	15	45	60	100	170	345	360	435
Bronchitis/Emphysema	Yes	4	198.5	157.5	78.8	60	420	60	90	157	307	420	420	420	420

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)															
Outdoors at a Park/Golf Course															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		506	198.6	190.2	8.5	1	1,065	20	60	135	270	465	590	748	870
Sex	Male	291	205.8	183.1	10.7	1	1,015	25	60	150	285	510	590	730	755
Sex	Female	214	187.7	199.4	13.6	5	1,065	15	55	120	250	435	590	870	930
Sex	Refused	1	420.0	-	-	420	420	420	420	420	420	420	420	420	420
Age (years)	-	10	122.4	60.2	19.0	30	225	30	60	120	160	202	225	225	225
Age (years)	1 to 4	21	149.9	176.3	38.5	21	755	25	50	85	150	360	425	755	755
Age (years)	5 to 11	54	207.6	184.5	25.1	25	665	35	70	125	275	555	635	660	665
Age (years)	12 to 17	52	238.5	242.2	33.6	15	1,065	15	60	148	338	590	840	915	1,065
Age (years)	18 to 64	314	197.8	185.9	10.5	1	1,015	20	60	150	270	440	580	748	870
Age (years)	>64	55	189.0	182.9	24.7	10	735	20	30	120	300	510	570	590	735
Race	White	441	205.3	195.3	9.3	1	1,065	20	60	150	275	480	605	795	915
Race	Black	19	114.5	103.7	23.8	15	425	15	30	90	155	240	425	425	425
Race	Asian	8	185.6	233.4	82.5	30	665	30	33	48	315	665	665	665	665
Race	Some Others	16	171.3	154.2	38.6	30	560	30	58	120	235	405	560	560	560
Race	Hispanic	20	169.5	135.8	30.4	30	555	33	77	145	205	373	495	555	555
Race	Refused	2	75.0	63.6	45.0	30	120	30	30	75	120	120	120	120	120
Hispanic	No	469	202.7	193.6	8.9	1	1,065	20	60	135	270	480	605	755	915
Hispanic	Yes	34	154.8	135.0	23.2	15	555	30	60	138	175	310	555	555	555
Hispanic	DK	1	10.0	-	-	10	10	10	10	10	10	10	10	10	10
Hispanic	Refused	2	75.0	63.6	45.0	30	120	30	30	75	120	120	120	120	120
Employment	-	128	208.2	209.6	18.5	15	1,065	25	60	120	275	555	645	840	915
Employment	Full Time	201	195.8	189.0	13.3	8	1,015	25	60	135	270	450	570	748	930
Employment	Part Time	41	213.5	215.6	33.7	20	870	20	60	132	260	540	660	870	870
Employment	Not Employed	132	190.9	166.0	14.5	1	810	15	60	160	270	420	525	730	735
Employment	Refused	4	130.0	106.8	53.4	30	280	30	60	105	200	280	280	280	280
Education	-	140	202.7	204.7	17.3	15	1,065	21	60	120	270	499	640	840	915
Education	< High School	32	180.8	207.8	36.7	30	995	30	30	110	245	385	570	995	995
Education	High School Graduate	108	219.7	197.2	19.0	10	1,015	20	78	163	281	545	625	730	810
Education	<College	93	191.6	171.2	17.8	1	870	15	60	150	275	440	510	748	870
Education	College Graduate	83	203.5	183.1	20.1	5	930	23	60	145	270	450	590	795	930
Education	Post Graduate	50	157.8	166.6	23.6	10	735	20	45	75	255	338	555	703	735
Census Region	Northeast	106	184.9	177.4	17.2	1	1,065	20	60	124	240	450	574	635	660
Census Region	Midwest	124	194.6	188.7	16.9	10	1,015	30	60	135	255	420	590	735	995
Census Region	South	136	218.8	211.5	18.1	10	930	20	60	150	325	525	720	840	915
Census Region	West	140	192.9	179.4	15.2	5	870	18	58	131	273	430	575	755	810
Day Of Week	Weekday	276	196.0	189.3	11.4	5	1,015	20	60	145	253	510	625	748	840
Day Of Week	Weekend	230	201.7	191.8	12.6	1	1,065	20	60	130	280	455	580	810	915
Season	Winter	83	209.1	195.2	21.4	15	1,065	30	60	165	275	440	660	795	1,065
Season	Spring	163	168.5	159.1	12.5	8	930	20	50	120	235	360	510	570	755
Season	Summer	192	219.6	199.9	14.4	5	1,015	20	65	155	290	535	630	840	915
Season	Fall	68	198.7	217.9	26.4	1	995	20	60	118	280	555	735	810	995
Asthma	No	466	192.1	178.8	8.3	1	1,015	20	60	135	270	450	580	700	755
Asthma	Yes	38	284.5	288.7	46.8	30	1,065	35	90	170	390	870	995	1,065	1,065
Asthma	DK	2	75.0	63.6	45.0	30	120	30	30	75	120	120	120	120	120
Angina	No	494	197.9	189.8	8.5	1	1,065	20	60	135	270	459	590	755	915
Angina	Yes	9	247.8	235.3	78.4	35	730	35	60	120	330	730	730	730	730
Angina	DK	3	170.0	170.6	98.5	30	360	30	30	120	360	360	360	360	360
Bronchitis/Emphysema	No	490	197.0	184.6	8.3	1	1,065	20	60	145	270	455	585	735	840
Bronchitis/Emphysema	Yes	14	273.1	339.1	90.6	20	995	20	75	100	280	930	995	995	995
Bronchitis/Emphysema	DK	2	75.0	63.6	45.0	30	120	30	30	75	120	120	120	120	120

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)

		Outdoors at a Pool/River/Lake														
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		283	209.6	185.7	11.0	5	1,440	25	60	150	296	480	570	670	690	
Sex	Male	152	229.8	202.7	16.4	10	1,440	30	83	174	305	510	600	690	900	
Sex	Female	131	186.0	161.3	14.1	5	645	20	60	135	280	440	550	630	630	
Age (years)	-	6	175.0	157.0	64.1	60	480	60	85	115	195	480	480	480	480	
Age (years)	1 to 4	14	250.6	177.5	47.4	90	630	90	130	168	370	560	630	630	630	
Age (years)	5 to 11	29	175.4	117.9	21.9	25	390	30	60	145	293	365	375	390	390	
Age (years)	12 to 17	22	128.3	94.4	20.1	40	420	58	60	83	210	225	235	420	420	
Age (years)	18 to 64	187	224.5	203.8	14.9	5	1,440	20	60	150	320	511	615	690	900	
Age (years)	>64	25	194.2	161.8	32.4	20	525	30	60	115	277	480	510	525	525	
Race	White	246	201.6	182.3	11.6	5	1,440	25	60	145	285	440	560	670	690	
Race	Black	12	380.6	231.9	66.9	20	690	20	178	450	563	615	690	690	690	
Race	Asian	4	265.0	247.1	123.5	30	505	30	53	263	478	505	505	505	505	
Race	Some Others	5	237.0	129.9	58.1	70	435	70	220	225	235	435	435	435	435	
Race	Hispanic	12	161.0	131.7	38.0	20	390	20	53	113	265	375	390	390	390	
Race	Refused	4	243.8	208.6	104.3	90	550	90	115	168	373	550	550	550	550	
Hispanic	No	259	208.9	187.8	11.7	5	1,440	25	60	150	295	480	585	670	690	
Hispanic	Yes	20	210.9	160.1	35.8	20	540	29	88	155	338	451	526	540	540	
Hispanic	Refused	4	243.8	208.6	104.3	90	550	90	115	168	373	550	550	550	550	
Employment	-	66	176.9	131.3	16.2	25	630	40	70	143	235	370	420	560	630	
Employment	Full Time	119	210.7	176.1	16.1	10	900	20	65	150	298	510	600	645	670	
Employment	Part Time	26	217.0	199.9	39.2	20	670	30	60	120	320	570	580	670	670	
Employment	Not Employed	69	238.9	236.2	28.4	5	1,440	20	65	145	370	510	630	690	1,440	
Employment	Refused	3	141.7	52.5	30.3	90	195	90	90	140	195	195	195	195	195	
Education	-	73	172.9	130.0	15.2	20	630	30	70	140	225	370	420	560	630	
Education	< High School	18	267.6	159.4	37.6	40	600	40	145	248	375	525	600	600	600	
Education	High School Graduate	69	213.2	224.1	27.0	10	1,440	20	60	145	285	511	670	690	1,440	
Education	< College	62	233.3	192.4	24.4	5	690	30	65	150	360	550	580	615	690	
Education	College Graduate	37	230.9	187.3	30.8	14	645	20	70	173	400	505	630	645	645	
Education	Post Graduate	24	172.7	197.0	40.2	20	900	25	45	113	240	370	480	900	900	
Census Region	Northeast	61	220.7	172.4	22.1	30	900	30	60	180	325	390	510	670	900	
Census Region	Midwest	41	219.2	257.2	40.2	10	1,440	20	60	120	280	480	600	1,440	1,440	
Census Region	South	111	182.2	161.3	15.3	5	670	20	60	118	280	420	525	630	645	
Census Region	West	70	237.6	181.8	21.7	25	690	40	90	180	300	548	615	690	690	
Day Of Week	Weekday	165	188.8	179.9	14.0	10	1,440	30	60	125	255	420	511	615	670	
Day Of Week	Weekend	118	238.6	190.4	17.5	5	900	20	75	188	350	555	630	690	690	
Season	Winter	30	173.2	181.7	33.2	20	630	20	40	103	270	493	585	630	630	
Season	Spring	77	206.5	163.6	18.6	15	690	30	80	180	288	480	555	670	690	
Season	Summer	151	219.7	196.8	16.0	5	1,440	26	65	155	300	445	580	630	900	
Season	Fall	25	201.4	189.7	37.9	20	670	45	70	105	310	510	510	670	670	
Asthma	No	262	209.0	188.2	11.6	5	1,440	25	60	150	295	480	580	670	690	
Asthma	Yes	17	238.8	162.0	39.3	15	570	15	105	225	350	525	570	570	570	
Asthma	DK	4	121.3	59.2	29.6	60	195	60	75	115	168	195	195	195	195	
Angina	No	272	205.9	185.2	11.2	5	1,440	25	60	145	291	480	570	645	690	
Angina	Yes	8	359.4	178.8	63.2	60	690	60	288	340	435	690	690	690	690	
Angina	DK	3	141.7	52.5	30.3	90	195	90	90	140	195	195	195	195	195	
Bronchitis/Emphysema	No	266	211.0	189.1	11.6	5	1,440	25	60	150	296	480	580	670	690	
Bronchitis/Emphysema	Yes	14	197.1	131.5	35.2	15	440	15	90	173	300	370	440	440	440	
Bronchitis/Emphysema	DK	3	141.7	52.5	30.3	90	195	90	90	140	195	195	195	195	195	

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)															
Outdoors on a Sidewalk, Street, or in the Neighborhood															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		896	85.8	133.8	4.5	1	1,440	2	15	40	90	223	405	565	615
Sex	Male	409	108.8	168.1	8.3	1	1,440	3	20	45	120	330	525	615	710
Sex	Female	487	66.5	91.9	4.2	1	580	1	15	35	75	152	255	435	465
Age (years)	-	15	72.5	69.4	17.9	1	290	1	40	55	90	120	290	290	290
Age (years)	1 to 4	30	54.8	52.7	9.6	1	235	2	10	43	78	125	158	235	235
Age (years)	5 to 11	75	110.8	116.8	13.5	1	540	5	20	65	178	240	410	465	540
Age (years)	12 to 17	74	52.6	74.8	8.7	1	435	2	15	30	60	125	200	338	435
Age (years)	18 to 64	580	94.3	153.9	6.4	1	1,440	2	15	40	83	278	480	600	690
Age (years)	>64	122	59.4	61.5	5.6	1	380	2	20	40	75	120	190	235	270
Race	White	727	85.7	136.5	5.1	1	1,440	2	15	41	90	215	405	570	675
Race	Black	87	89.2	132.7	14.2	1	565	2	10	35	120	324	426	540	565
Race	Asian	11	88.7	114.0	34.4	2	405	2	30	45	120	149	405	405	405
Race	Some Others	18	80.6	106.0	25.0	10	420	10	20	40	75	240	420	420	420
Race	Hispanic	42	71.4	110.8	17.1	1	525	1	20	40	75	135	290	525	525
Race	Refused	11	122.9	117.7	35.5	2	310	2	40	60	290	300	310	310	310
Hispanic	No	807	87.5	136.1	4.8	1	1,440	2	15	45	90	225	410	565	600
Hispanic	Yes	79	67.8	110.3	12.4	1	615	1	15	30	62	140	300	525	615
Hispanic	DK	1	2.0	-	-	2	2	2	2	2	2	2	2	2	2
Hispanic	Refused	9	100.8	115.9	38.6	2	310	2	40	60	90	310	310	310	310
Employment	-	176	79.2	96.3	7.3	1	540	2	15	45	110	200	260	435	465
Employment	Full Time	384	102.2	169.5	8.7	1	1,440	3	15	41	75	330	525	600	710
Employment	Part Time	74	74.4	113.9	13.2	1	795	1	15	43	86	180	255	390	795
Employment	Not Employed	255	70.0	94.0	5.9	1	615	1	15	40	85	152	270	380	485
Employment	Refused	7	45.1	36.6	13.8	2	90	2	4	40	90	90	90	90	90
Education	-	198	74.9	92.3	6.6	1	540	2	15	41	90	185	240	435	465
Education	< High School	56	131.2	247.3	33.0	1	1,440	1	15	40	118	465	710	735	1,440
Education	High School Graduate	223	100.2	146.9	9.8	1	795	5	20	45	95	275	480	600	680
Education	< College	172	77.2	128.8	9.8	1	675	1	10	30	75	180	435	570	600
Education	College Graduate	138	76.3	106.6	9.1	1	600	3	20	45	70	205	310	485	565
Education	Post Graduate	109	78.2	121.3	11.6	1	710	5	20	45	60	200	330	560	570
Census Region	Northeast	202	89.1	132.3	9.3	1	735	3	15	45	90	235	410	530	570
Census Region	Midwest	193	87.9	153.3	11.0	1	1,440	2	15	30	85	240	355	565	600
Census Region	South	298	79.9	125.5	7.3	1	710	2	15	35	75	185	420	532	680
Census Region	West	203	89.1	127.9	9.0	1	795	1	20	45	105	210	300	570	615
Day Of Week	Weekday	642	86.7	143.9	5.7	1	1,440	2	15	40	80	223	426	585	680
Day Of Week	Weekend	254	83.5	104.2	6.5	1	565	2	25	45	90	220	310	440	480
Season	Winter	210	73.5	144.3	10.0	1	1,440	1	15	33	60	160	270	560	710
Season	Spring	242	97.9	137.2	8.8	1	795	4	25	45	120	240	435	570	675
Season	Summer	276	84.0	123.1	7.4	1	690	4	15	45	90	200	420	525	580
Season	Fall	168	86.6	131.9	10.2	1	710	2	15	40	90	240	405	600	615
Asthma	No	832	86.1	129.5	4.5	1	795	2	15	40	90	225	418	565	600
Asthma	Yes	57	85.6	193.1	25.6	1	1,440	1	15	35	90	180	235	260	1,440
Asthma	DK	7	48.9	28.0	10.6	2	90	2	30	60	60	90	90	90	90
Angina	No	857	86.2	134.9	4.6	1	1,440	2	15	40	90	223	410	565	615
Angina	Yes	33	81.7	117.4	20.4	1	465	1	17	45	60	250	380	465	465
Angina	DK	6	52.0	29.3	11.9	2	90	2	40	60	60	90	90	90	90
Bronchitis/Emphysema	No	855	84.8	132.3	4.5	1	1,440	2	15	40	85	225	405	560	600
Bronchitis/Emphysema	Yes	34	117.7	176.4	30.3	3	735	8	30	45	120	215	690	735	735
Bronchitis/Emphysema	DK	7	46.3	27.5	10.4	2	90	2	32	40	60	90	90	90	90

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)

At Home in the Yard or Other Areas Outside the House															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		2,308	137.6	144.1	3.0	1	1,290	10	40	90	180	320	420	570	660
Sex	Male	1,198	158.4	160.0	4.6	1	1,290	10	60	120	198	360	500	627	730
Sex	Female	1,107	114.9	120.9	3.6	1	1,065	5	30	75	150	285	360	450	560
Sex	Refused	3	183.3	60.3	34.8	120	240	120	120	190	240	240	240	240	240
Age (years)	-	27	167.4	164.5	31.7	2	600	5	60	120	230	395	600	600	600
Age (years)	1 to 4	151	135.3	111.5	9.1	5	630	25	60	90	180	305	345	450	480
Age (years)	5 to 11	271	150.6	135.1	8.2	2	1,250	20	60	120	190	310	405	553	570
Age (years)	12 to 17	157	113.2	117.7	9.4	2	660	5	30	80	150	240	405	462	610
Age (years)	18 to 64	1,301	136.4	147.9	4.1	1	1,080	5	30	90	180	330	435	570	715
Age (years)	>64	401	141.1	155.2	7.8	1	1,290	10	45	90	180	302	465	598	660
Race	White	1,966	139.0	145.5	3.3	1	1,290	10	40	90	180	330	435	570	670
Race	Black	173	128.4	144.6	11.0	1	1,250	5	30	95	180	270	390	462	745
Race	Asian	21	101.2	88.5	19.3	12	360	15	35	90	125	210	240	360	360
Race	Some Others	37	183.5	161.9	26.6	2	750	3	84	120	270	380	553	750	750
Race	Hispanic	83	106.1	96.8	10.6	2	610	5	35	75	145	240	270	330	610
Race	Refused	28	152.3	151.0	28.5	5	600	5	60	98	210	360	510	600	600
Hispanic	No	2,122	137.7	144.3	3.1	1	1,290	10	40	90	180	320	420	570	670
Hispanic	Yes	153	125.0	134.3	10.9	1	750	5	30	85	150	270	435	575	630
Hispanic	DK	10	213.8	192.2	60.8	3	585	3	60	145	380	503	585	585	585
Hispanic	Refused	23	176.7	156.6	32.6	5	600	5	60	160	240	360	510	600	600
Employment	-	581	137.5	125.6	5.2	2	1,250	15	60	110	180	300	370	480	570
Employment	Full Time	807	131.1	150.7	5.3	1	1,080	5	30	80	175	307	450	600	745
Employment	Part Time	166	126.1	134.1	10.4	1	1,080	10	30	78	180	300	360	450	485
Employment	Not Employed	739	146.1	149.7	5.5	1	1,290	10	45	100	185	360	465	585	655
Employment	Refused	15	198.0	239.0	61.7	5	660	5	30	120	465	600	660	660	660
Education	-	615	136.3	125.7	5.1	2	1,250	15	60	105	180	300	370	480	570
Education	< High School	236	161.0	186.5	12.1	2	1,290	10	45	105	195	390	510	765	915
Education	High School Graduate	618	144.7	144.9	5.8	1	840	5	40	100	195	360	479	555	660
Education	< College	381	128.8	141.2	7.2	1	1,080	5	35	85	175	300	400	585	720
Education	College Graduate	251	123.0	135.8	8.6	1	750	10	30	75	160	300	390	575	690
Education	Post Graduate	207	127.1	150.0	10.4	1	1,065	5	30	78	150	320	435	570	630
Census Region	Northeast	473	137.7	132.8	6.1	1	750	10	45	90	185	317	420	532	600
Census Region	Midwest	456	138.9	155.7	7.3	2	1,290	10	45	90	180	300	440	575	690
Census Region	South	832	136.5	146.7	5.1	1	1,080	10	35	90	180	310	420	570	730
Census Region	West	547	138.2	139.9	6.0	1	750	5	36	90	180	330	460	570	630
Day Of Week	Weekday	1,453	126.9	131.6	3.5	1	1,250	5	35	90	165	300	395	553	610
Day Of Week	Weekend	855	155.7	161.7	5.5	1	1,290	10	45	110	210	360	475	630	745
Season	Winter	399	112.2	136.0	6.8	1	1,080	5	30	60	140	300	380	540	690
Season	Spring	787	149.7	139.2	5.0	1	915	10	60	120	195	338	430	555	660
Season	Summer	796	143.7	155.9	5.5	1	1,290	10	45	99	180	330	450	610	715
Season	Fall	326	124.5	130.5	7.2	1	720	10	35	88	160	300	380	510	655
Asthma	No	2,129	137.7	144.4	3.1	1	1,290	10	40	90	180	315	420	570	690
Asthma	Yes	166	131.6	136.0	10.6	1	670	10	30	90	165	345	450	553	610
Asthma	DK	13	188.5	192.1	53.3	5	600	5	60	90	300	480	600	600	600
Angina	No	2,228	136.5	141.1	3.0	1	1,290	10	41	90	180	315	420	570	660
Angina	Yes	63	158.7	216.3	27.3	2	1,080	5	30	75	180	420	485	1,065	1,080
Angina	DK	17	199.1	191.3	46.4	5	600	5	35	120	325	480	600	600	600
Bronchitis/Emphysema	No	2,191	138.8	145.0	3.1	1	1,290	10	45	90	180	320	430	570	690
Bronchitis/Emphysema	Yes	105	104.4	111.3	10.9	1	553	5	30	60	145	270	360	415	475
Bronchitis/Emphysema	DK	12	207.5	192.2	55.5	5	600	5	60	140	330	480	600	600	600

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)															
Outdoors in Parking Lot															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		226	70.7	126.7	8.4	1	910	2	10	20	60	190	309	510	580
Gender	Male	106	100.3	167.2	16.2	1	910	5	15	30	110	315	495	580	720
Gender	Female	120	44.6	64.8	5.9	1	295	1	5	20	47	168	188	248	285
Age (years)	-	3	135.0	195.0	112.6	15	360	15	15	30	360	360	360	360	360
Age (years)	1 to 4	11	39.8	38.4	11.6	5	110	5	10	20	90	90	110	110	110
Age (years)	5 to 11	5	62.0	63.7	28.5	5	170	5	30	45	60	170	170	170	170
Age (years)	12 to 17	12	93.8	90.8	26.2	5	248	5	18	52	163	238	248	248	248
Age (years)	18 to 64	182	70.0	132.7	9.8	1	910	2	10	20	60	190	309	550	720
Age (years)	> 64	13	74.5	127.9	35.5	1	465	1	10	25	60	180	465	465	465
Race	White	180	72.1	128.3	9.6	1	910	2	10	21	64	205	302	510	720
Race	Black	18	102.4	167.8	39.5	2	580	2	6	28	130	495	580	580	580
Race	Asian	3	21.7	7.6	4.4	15	30	15	15	20	30	30	30	30	30
Race	Some Others	5	50.0	46.1	20.6	5	115	5	10	45	75	115	115	115	115
Race	Hispanic	17	25.7	39.4	9.5	1	165	1	10	10	20	60	165	165	165
Race	Refused	3	135.0	195.0	112.6	15	360	15	15	30	360	360	360	360	360
Hispanic	No	196	69.3	114.1	8.1	1	720	2	10	24	68	190	295	495	580
Hispanic	Yes	25	42.9	103.3	20.7	1	510	1	5	10	20	75	165	510	510
Hispanic	DK	2	465.0	629.3	445.0	20	910	20	20	465	910	910	910	910	910
Hispanic	Refused	3	135.0	195.0	112.6	15	360	15	15	30	360	360	360	360	360
Employment	-	26	55.6	59.9	11.7	5	238	5	15	30	90	145	170	238	238
Employment	Full Time	117	83.3	155.1	14.3	1	910	2	10	20	60	240	495	580	720
Employment	Part Time	37	75.4	114.7	18.9	1	465	1	5	21	90	180	450	465	465
Employment	Not Employed	43	37.1	46.8	7.1	1	210	1	10	20	60	90	134	210	210
Employment	Refused	3	135.0	195.0	112.6	15	360	15	15	30	360	360	360	360	360
Education	-	33	69.7	85.6	14.9	1	360	5	15	30	90	180	248	360	360
Education	< High School	16	73.3	176.8	44.2	2	720	2	8	23	33	165	720	720	720
Education	High School Graduate	83	83.0	124.4	13.7	1	580	5	10	25	90	215	315	495	580
Education	< College	49	75.9	162.7	23.2	1	910	2	10	20	60	210	450	910	910
Education	College Graduate	23	48.8	107.2	22.3	1	510	2	5	10	30	130	135	510	510
Education	Post Graduate	22	35.5	54.5	11.6	1	185	1	5	15	30	115	180	185	185
Census Region	Northeast	56	57.4	82.6	11.0	1	495	1	13	28	75	135	180	295	495
Census Region	Midwest	48	73.4	118.6	17.1	1	550	5	10	25	63	248	315	550	550
Census Region	South	75	57.9	106.4	12.3	1	720	2	7	20	50	185	238	360	720
Census Region	West	47	104.3	189.9	27.7	3	910	5	10	20	90	450	510	910	910
Day Of Week	Weekday	154	64.9	136.7	11.0	1	910	2	7	20	43	180	450	550	720
Day Of Week	Weekend	72	83.3	101.7	12.0	1	465	5	15	35	113	240	309	360	465
Season	Winter	45	50.5	64.7	9.6	2	309	5	15	30	63	130	180	309	309
Season	Spring	57	82.9	131.2	17.4	1	495	1	10	20	90	240	465	495	495
Season	Summer	75	72.0	146.2	16.9	1	910	2	10	20	60	205	315	580	910
Season	Fall	49	73.1	133.2	19.0	1	720	1	10	20	75	205	295	720	720
Asthma	No	204	63.0	109.4	7.7	1	720	2	10	20	60	180	248	495	510
Asthma	Yes	18	149.7	238.5	56.2	1	910	1	15	45	145	580	910	910	910
Asthma	DK	4	110.0	166.9	83.4	15	360	15	23	33	198	360	360	360	360
Angina	No	217	69.3	127.1	8.6	1	910	2	10	20	60	185	309	510	580
Angina	Yes	5	99.6	83.1	37.1	35	238	35	40	75	110	238	238	238	238
Angina	DK	4	113.8	164.8	82.4	15	360	15	23	40	205	360	360	360	360
Bronchitis/Emphysema	No	211	65.6	114.2	7.9	1	720	2	10	20	60	180	295	495	550
Bronchitis/Emphysema	Yes	11	142.4	266.0	80.2	1	910	1	10	40	180	240	910	910	910
Bronchitis/Emphysema	DK	4	146.3	160.8	80.4	15	360	15	23	105	270	360	360	360	360

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)

Outdoors at a Service Station or Gas Station															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		191	50.6	125.5	9.1	1	790	5	5	10	20	105	365	570	645
Gender	Male	90	73.5	150.0	15.8	1	645	5	5	10	30	325	495	600	645
Gender	Female	101	30.2	94.9	9.4	2	790	5	5	10	15	44	105	180	510
Age (years)	-	1	86.0	-	-	86	86	86	86	86	86	86	86	86	86
Age (years)	1 to 4	3	6.7	2.9	1.7	5	10	5	5	5	10	10	10	10	10
Age (years)	5 to 11	3	66.7	98.3	56.7	5	180	5	5	15	180	180	180	180	180
Age (years)	12 to 17	11	7.8	4.5	1.4	1	15	1	5	5	10	15	15	15	15
Age (years)	18 to 64	157	54.2	135.6	10.8	2	790	5	5	10	15	110	390	570	645
Age (years)	> 64	16	47.8	69.5	17.4	5	240	5	10	18	55	180	240	240	240
Race	White	170	50.9	124.0	9.5	2	790	5	5	10	20	108	365	520	600
Race	Black	11	80.7	191.4	57.7	4	645	4	5	5	44	140	645	645	645
Race	Asian	1	5.0	-	-	5	5	5	5	5	5	5	5	5	5
Race	Some Others	3	16.7	20.2	11.7	5	40	5	5	5	40	40	40	40	40
Race	Hispanic	5	10.2	7.6	3.4	1	20	1	5	10	15	20	20	20	20
Race	Refused	1	10.0	-	-	10	10	10	10	10	10	10	10	10	10
Hispanic	No	179	53.1	129.2	9.7	2	790	5	5	10	20	130	380	570	645
Hispanic	Yes	12	13.9	23.0	6.6	1	86	1	5	8	10	15	86	86	86
Employment	-	16	18.8	43.2	10.8	1	180	1	5	8	13	15	180	180	180
Employment	Full Time	110	55.8	136.8	13.0	2	645	5	5	10	15	99	495	570	600
Employment	Part Time	26	34.7	71.8	14.1	3	355	5	5	10	25	100	130	355	355
Employment	Not Employed	38	40.2	77.0	12.5	4	380	5	5	10	20	140	240	380	380
Employment	Refused	1	790.0	-	-	790	790	790	790	790	790	790	790	790	790
Education	-	18	17.8	40.7	9.6	1	180	1	5	8	15	15	180	180	180
Education	< High School	16	103.0	164.1	41.0	5	520	5	10	15	140	365	520	520	520
Education	High School Graduate	46	85.7	162.9	24.0	3	645	5	5	10	85	380	495	645	645
Education	< College	58	41.8	121.1	15.9	2	790	4	5	13	20	60	110	510	790
Education	College Graduate	30	36.6	111.6	20.4	2	570	4	5	7	15	30	270	570	570
Education	Post Graduate	23	10.0	6.4	1.3	5	30	5	5	10	10	20	20	30	30
Census Region	Northeast	33	59.7	149.2	26.0	2	600	3	5	10	20	105	570	600	600
Census Region	Midwest	48	28.6	77.6	11.2	2	510	5	5	10	15	60	110	510	510
Census Region	South	68	49.9	134.0	16.2	1	790	5	5	10	15	130	295	645	790
Census Region	West	42	69.8	135.5	20.9	4	520	5	5	13	40	270	390	520	520
Day Of Week	Weekday	122	58.4	145.1	13.1	2	790	5	5	10	20	130	495	600	645
Day Of Week	Weekend	69	36.8	79.0	9.5	1	390	4	5	10	15	88	240	380	390
Season	Winter	56	37.5	100.6	13.4	2	600	4	5	10	15	60	270	355	600
Season	Spring	54	80.1	157.5	21.4	1	645	5	5	10	60	380	510	570	645
Season	Summer	51	46.5	137.7	19.3	2	790	5	5	10	15	35	365	520	790
Season	Fall	30	28.8	58.9	10.8	3	295	5	5	9	15	93	130	295	295
Asthma	No	174	53.5	130.8	9.9	1	790	5	5	10	20	130	380	570	645
Asthma	Yes	16	15.8	25.7	6.4	2	110	2	5	8	15	20	110	110	110
Asthma	DK	1	100.0	-	-	100	100	100	100	100	100	100	100	100	100
Angina	No	184	46.8	120.6	8.9	1	790	5	5	10	15	88	295	570	645
Angina	Yes	7	150.7	206.8	78.2	10	510	10	15	20	380	510	510	510	510
Bronchitis/Emphysema	No	181	47.1	124.0	9.2	1	790	5	5	10	15	85	295	570	645
Bronchitis/Emphysema	Yes	10	113.5	142.9	45.2	5	380	5	10	58	140	368	380	380	380

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)															
Outdoors at a Construction Site															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		143	437.1	242.1	20.2	1	1190	10	240	510	600	675	740	930	985
Gender	Male	130	461.5	232.5	20.4	1	1190	10	300	523	600	689	745	930	985
Gender	Female	13	192.8	202.8	56.2	5	630	5	60	135	165	535	630	630	630
Age (years)	-	1	510.0	-	-	510	510	510	510	510	510	510	510	510	510
Age (years)	1 to 4	2	240.0	254.6	180.0	60	420	60	60	240	420	420	420	420	420
Age (years)	12 to 17	1	10.0	-	-	10	10	10	10	10	10	10	10	10	10
Age (years)	18 to 64	133	444.5	243.0	21.1	1	1190	10	240	520	600	687	745	930	985
Age (years)	> 64	6	396.7	188.8	77.1	60	560	60	300	460	540	560	560	560	560
Race	White	125	430.9	247.4	22.1	5	1190	10	240	510	600	687	740	930	985
Race	Black	10	430.1	233.3	73.8	1	630	1	170	550	585	615	630	630	630
Race	Some Others	2	492.5	60.1	42.5	450	535	450	450	493	535	535	535	535	535
Race	Hispanic	3	501.7	170.3	98.3	305	600	305	305	600	600	600	600	600	600
Race	Refused	3	618.3	166.5	96.1	510	810	510	510	535	810	810	810	810	810
Hispanic	No	129	426.2	247.1	21.8	1	1190	10	180	510	600	665	735	930	985
Hispanic	Yes	9	496.1	166.4	55.5	240	765	240	410	505	600	765	765	765	765
Hispanic	DK	2	577.5	180.3	127.5	450	705	450	450	578	705	705	705	705	705
Hispanic	Refused	3	635.0	156.1	90.1	510	810	510	510	585	810	810	810	810	810
Employment	-	3	163.3	223.7	129.1	10	420	10	10	60	420	420	420	420	420
Employment	Full Time	127	456.8	236.2	21.0	1	1190	15	285	520	605	690	745	930	985
Employment	Part Time	6	495.8	171.4	70.0	155	600	155	510	555	600	600	600	600	600
Employment	Not Employed	7	146.6	162.8	61.5	5	430	5	6	60	300	430	430	430	430
Education	-	4	250.0	251.8	125.9	10	510	10	35	240	465	510	510	510	510
Education	< High School	12	500.8	227.0	65.5	60	930	60	375	525	593	735	930	930	930
Education	High School Graduate	68	482.2	229.0	27.8	5	1190	20	395	523	593	720	780	985	1,190
Education	< College	41	417.7	241.0	37.6	1	745	10	170	520	615	645	687	745	745
Education	College Graduate	14	372.4	247.3	66.1	15	660	15	120	440	585	643	660	660	660
Education	Post Graduate	4	92.5	137.3	68.6	5	295	5	8	35	178	295	295	295	295
Census Region	Northeast	28	481.7	238.3	45.0	5	985	6	358	533	650	695	740	985	985
Census Region	Midwest	30	344.0	231.0	42.2	5	810	10	120	342	525	638	660	810	810
Census Region	South	57	474.0	248.3	32.9	1	1190	10	410	535	615	720	765	780	1190
Census Region	West	28	417.1	226.3	42.8	15	930	60	235	500	570	630	656	930	930
Day Of Week	Weekday	121	455.1	238.5	21.7	5	1190	15	285	525	600	687	745	930	985
Day Of Week	Weekend	22	338.0	243.0	51.8	1	705	5	60	408	525	600	645	705	705
Season	Winter	34	418.5	268.4	46.0	1	1190	5	155	505	570	645	695	1190	1,190
Season	Spring	33	412.2	223.5	38.9	10	810	60	230	490	570	635	740	810	810
Season	Summer	46	477.7	221.4	32.6	10	985	60	325	515	630	705	745	985	985
Season	Fall	30	423.2	264.2	48.2	5	930	6	135	533	585	700	780	930	930
Asthma	No	137	437.2	243.5	20.8	1	1190	10	240	510	600	675	745	930	985
Asthma	Yes	6	435.7	226.0	92.2	60	690	60	354	440	630	690	690	690	690
Angina	No	139	439.1	242.3	20.6	1	1190	10	240	510	600	687	745	930	985
Angina	Yes	4	367.3	256.3	128.1	10	570	10	182	445	553	570	570	570	570
Bronchitis/Emphysema	No	140	433.3	240.0	20.3	1	1190	10	240	510	600	670	738	810	930
Bronchitis/Emphysema	Yes	3	616.3	328.7	189.8	354	985	354	354	510	985	985	985	985	985

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)

Outdoors at a Restaurant/Picnic															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		64	81.0	114.7	14.3	3	540	5	13	30	108	165	270	540	540
Gender	Male	31	111.8	148.9	26.7	5	540	5	20	60	150	270	540	540	540
Gender	Female	33	52.1	57.7	10.0	3	210	3	8	30	80	135	180	210	210
Age (years)	1 to 4	6	57.5	61.4	25.1	5	160	5	15	30	105	160	160	160	160
Age (years)	5 to 11	5	112.8	202.6	90.6	5	473	5	6	20	60	473	473	473	473
Age (years)	12 to 17	6	60.0	55.4	22.6	5	150	5	30	35	105	150	150	150	150
Age (years)	18 to 64	46	84.8	116.9	17.2	3	540	5	10	50	120	180	270	540	540
Age (years)	> 64	1	15.0	-	-	15	15	15	15	15	15	15	15	15	15
Race	White	54	76.0	105.0	14.3	3	540	5	15	30	105	165	270	473	540
Race	Black	4	57.8	83.1	41.6	5	180	5	6	23	110	180	180	180	180
Race	Asian	1	75.0	-	-	75	75	75	75	75	75	75	75	75	75
Race	Some Others	2	97.5	31.8	22.5	75	120	75	75	98	120	120	120	120	120
Race	Hispanic	2	20.0	14.1	10.0	10	30	10	10	20	30	30	30	30	30
Race	Refused	1	540.0	-	-	540	540	540	540	540	540	540	540	540	540
Hispanic	No	60	81.8	117.5	15.2	3	540	5	13	30	108	173	372	540	540
Hispanic	Yes	4	68.8	66.6	33.3	10	160	10	20	53	118	160	160	160	160
Employment	-	17	74.7	114.2	27.7	5	473	5	15	30	105	160	473	473	473
Employment	Full Time	37	70.8	67.9	11.2	3	270	5	15	55	120	165	210	270	270
Employment	Part Time	4	42.0	32.0	16.0	3	75	3	17	45	68	75	75	75	75
Employment	Not Employed	6	187.8	272.8	111.4	5	540	5	7	18	540	540	540	540	540
Education	-	18	70.7	112.1	26.4	3	473	3	6	30	105	160	473	473	473
Education	< High School	1	540.0	-	-	540	540	540	540	540	540	540	540	540	540
Education	High School Graduate	11	56.2	84.5	25.5	3	270	3	10	20	60	165	270	270	270
Education	< College	10	108.6	164.6	52.1	5	540	5	7	30	150	353	540	540	540
Education	College Graduate	11	68.6	59.5	18.0	10	210	10	20	55	110	120	210	210	210
Education	Post Graduate	13	70.3	53.5	14.8	6	180	6	15	75	80	140	180	180	180
Census Region	Northeast	19	88.1	116.2	26.7	3	473	3	10	60	120	270	473	473	473
Census Region	Midwest	15	102.6	140.7	36.3	3	540	3	15	45	165	210	540	540	540
Census Region	South	16	48.6	47.3	11.8	5	140	5	9	30	93	120	140	140	140
Census Region	West	14	85.4	138.7	37.1	10	540	10	15	30	75	160	540	540	540
Day Of Week	Weekday	35	51.2	52.7	8.9	3	180	3	15	30	75	150	165	180	180
Day Of Week	Weekend	29	117.0	154.2	28.6	5	540	5	10	60	135	473	540	540	540
Season	Winter	8	79.4	75.2	26.6	10	210	10	20	53	135	210	210	210	210
Season	Spring	14	138.4	172.8	46.2	5	540	5	30	65	180	473	540	540	540
Season	Summer	28	71.0	105.1	19.9	3	540	3	8	35	100	150	160	540	540
Season	Fall	14	44.6	52.2	14.0	5	165	5	10	20	60	150	165	165	165
Asthma	No	61	82.1	117.2	15.0	3	540	5	10	30	110	165	270	540	540
Asthma	Yes	3	58.3	40.7	23.5	30	105	30	30	40	105	105	105	105	105
Angina	No	63	82.2	115.2	14.5	3	540	5	15	30	110	165	270	540	540
Angina	Yes	1	5.0	-	-	5	5	5	5	5	5	5	5	5	5
Bronchitis/Emphysema	No	63	81.7	115.5	14.6	3	540	5	10	30	110	165	270	540	540
Bronchitis/Emphysema	Yes	1	40.0	-	-	40	40	40	40	40	40	40	40	40	40

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)															
Outdoors at a Farm															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		128	252.7	232.5	20.6	5	955	20	75	177	428	600	730	855	933
Gender	Male	86	305.2	251.4	27.1	5	955	29	90	230	500	660	780	933	955
Gender	Female	42	145.2	137.2	21.2	5	600	20	50	105	210	265	482	600	600
Age (years)	-	1	510.0	-	-	510	510	510	510	510	510	510	510	510	510
Age (years)	1 to 4	3	121.7	52.5	30.3	70	175	70	70	120	175	175	175	175	175
Age (years)	5 to 11	7	111.3	77.0	29.1	25	264	25	50	100	130	264	264	264	264
Age (years)	12 to 17	9	157.8	85.4	28.5	29	265	29	90	175	265	265	265	256	265
Age (years)	18 to 64	91	296.7	252.2	26.4	5	955	20	80	230	500	635	780	933	955
Age (years)	> 64	17	133.8	134.2	32.5	5	495	5	50	85	160	360	495	495	495
Race	White	120	260.2	236.2	21.6	5	955	20	75	180	473	608	745	855	933
Race	Black	4	58.8	30.9	15.5	25	85	25	33	63	85	85	85	85	85
Race	Some Others	2	165.0	21.2	15.0	150	180	150	150	165	180	180	180	180	180
Race	Hispanic	2	277.5	222.7	157.5	120	435	120	120	278	435	435	435	435	435
Hispanic	No	123	252.6	234.8	21.2	5	955	20	70	178	420	600	730	855	933
Hispanic	Yes	4	297.5	189.1	94.6	120	485	120	135	293	460	485	485	485	485
Hispanic	Refused	1	85.0	-	-	85	85	85	85	85	85	85	85	85	85
Employment	-	19	134.9	77.7	17.8	25	265	25	86	120	180	264	265	265	265
Employment	Full Time	73	314.8	258.1	30.2	5	955	20	85	240	525	660	780	933	955
Employment	Part Time	11	283.0	183.6	55.4	45	525	45	150	230	490	495	525	525	525
Employment	Not Employed	24	152.9	184.0	37.6	5	825	5	35	90	205	280	495	825	825
Employment	Refused	1	20.0	-	-	20	20	20	20	20	20	20	20	20	20
Education	-	20	137.2	76.3	17.1	25	265	27	88	120	180	262	265	265	265
Education	< High School	12	305.0	211.1	60.9	30	635	30	98	325	493	510	635	635	635
Education	High School Graduate	50	314.5	280.3	39.6	5	955	20	85	215	525	745	855	944	955
Education	< College	25	186.6	166.0	33.2	5	555	15	60	155	255	482	525	555	555
Education	College Graduate	12	290.4	242.9	70.1	30	615	30	68	203	530	600	615	615	615
Education	Post Graduate	9	229.4	246.1	82.0	5	780	5	80	150	210	780	780	780	780
Census Region	Northeast	11	238.2	299.1	90.2	5	955	5	30	100	490	520	955	955	955
Census Region	Midwest	42	202.3	196.6	30.3	15	780	20	654	125	265	510	635	780	780
Census Region	South	57	279.7	239.3	31.7	5	933	25	85	195	482	635	760	825	933
Census Region	West	18	293.7	242.3	57.1	5	855	5	120	220	525	615	855	855	855
Day Of Week	Weekday	78	276.9	243.8	27.6	5	955	15	85	180	485	615	780	933	955
Day Of Week	Weekend	50	215.0	210.6	29.8	5	855	25	60	120	290	525	700	793	855
Season	Winter	32	205.3	207.7	36.7	5	955	22	78	120	245	495	540	955	955
Season	Spring	40	224.4	213.3	33.7	5	825	25	60	153	343	525	625	825	825
Season	Summer	43	276.1	247.8	37.8	5	933	20	70	230	435	660	760	933	933
Season	Fall	13	379.2	264.9	73.5	15	780	15	200	280	600	730	780	780	780
Asthma	No	120	257.0	235.2	21.5	5	955	21	75	180	428	608	745	855	933
Asthma	Yes	8	188.5	188.5	66.6	5	500	5	700	110	322	500	500	500	500
Angina	No	127	253.0	233.4	20.7	5	955	20	75	175	435	600	730	855	933
Angina	Yes	1	210.0	-	-	210	210	210	210	210	210	210	210	210	210
Bronchitis/Emphysema	No	125	256.2	233.9	20.9	5	955	22	75	178	435	600	730	855	933
Bronchitis/Emphysema	Yes	3	106.7	95.7	55.3	5	195	5	5	120	195	195	195	195	195

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)															
At Home in the Outdoor Pool or Spa															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		85	115.4	103.7	11.2	1	450	15	34	90	150	255	360	450	450
Gender	Male	34	113.7	106.8	18.3	5	450	10	45	75	150	258	360	450	450
Gender	Female	51	116.4	102.7	14.4	1	450	15	30	90	178	240	360	390	450
Age (years)	-	2	60.0	63.6	45.0	15	105	15	15	60	105	105	105	105	105
Age (years)	1 to 4	9	85.6	86.3	28.8	15	255	15	30	60	75	255	255	255	255
Age (years)	5 to 11	15	164.2	104.0	26.8	25	450	25	105	140	185	300	450	450	450
Age (years)	12 to 17	5	97.0	53.8	24.1	40	180	40	60	100	105	180	180	180	180
Age (years)	18 to 64	44	117.6	112.7	17.0	4	450	15	32	83	155	297	360	450	450
Age (years)	> 64	10	78.9	85.3	27.0	1	258	1	20	53	90	227	258	258	258
Race	White	75	120.9	107.7	12.4	1	450	15	34	90	180	258	360	450	450
Race	Black	5	66.0	59.7	26.7	10	150	10	20	45	105	150	150	150	150
Race	Some Others	1	105.0	-	-	105	105	105	105	105	105	105	105	105	105
Race	Hispanic	2	112.5	53.0	37.5	75	150	75	75	113	150	150	150	150	150
Race	Refused	2	37.5	31.8	22.5	15	60	15	15	38	60	60	60	60	60
Hispanic	No	78	116.8	104.6	11.8	1	450	10	34	90	160	255	360	450	450
Hispanic	Yes	5	123.0	108.4	48.5	30	300	30	60	75	150	300	300	300	300
Hispanic	Refused	2	37.5	31.8	22.5	15	60	15	15	38	60	60	60	60	60
Employment	-	29	128.2	97.0	18.0	15	450	20	60	105	178	255	300	450	450
Employment	Full Time	27	111.9	102.5	19.7	4	390	10	30	90	150	297	360	390	390
Employment	Part Time	2	237.5	300.5	212.5	25	450	25	25	238	450	450	450	450	450
Employment	Not Employed	26	99.0	94.8	18.6	1	360	5	30	68	130	240	258	360	360
Employment	Refused	1	15.0	-	-	15	15	15	15	15	15	15	15	15	15
Education	-	30	124.4	97.5	17.8	15	450	15	60	105	178	250	300	450	450
Education	< High School	8	109.4	155.3	54.9	5	450	5	15	38	158	450	450	450	450
Education	High School Graduate	15	150.0	130.5	33.7	1	390	1	45	105	240	360	390	390	390
Education	< College	17	80.5	66.7	16.2	4	240	4	30	75	90	225	240	240	240
Education	College Graduate	9	120.6	107.3	35.8	15	297	15	30	85	180	297	297	297	297
Education	Post Graduate	6	81.7	42.0	17.2	30	135	30	60	68	130	135	135	135	135
Census Region	Northeast	23	135.3	113.5	23.7	1	450	10	40	100	225	245	297	450	450
Census Region	Midwest	16	64.6	63.6	15.9	4	255	4	25	53	83	135	255	255	255
Census Region	South	23	114.7	78.5	16.4	15	390	20	60	105	150	185	210	390	390
Census Region	West	23	131.2	129.3	27.0	15	450	25	30	75	195	360	360	450	450
Day Of Week	Weekday	56	114.5	106.7	14.3	1	450	5	30	90	155	255	390	450	450
Day Of Week	Weekend	29	117.0	99.5	18.5	10	360	20	45	85	150	297	360	360	360
Season	Winter	10	118.9	159.4	50.4	4	450	4	20	30	135	405	450	450	450
Season	Spring	24	97.4	74.6	15.2	10	360	30	53	80	120	180	195	360	360
Season	Summer	47	124.5	104.3	15.2	1	450	15	40	90	185	255	300	450	450
Season	Fall	4	105.8	107.5	53.7	30	258	30	30	68	182	258	258	258	258
Asthma	No	73	109.9	105.5	12.3	1	450	10	30	75	140	255	360	450	450
Asthma	Yes	11	160.5	82.4	24.8	85	360	85	90	150	225	225	360	360	360
Asthma	DK	1	15.0	-	-	15	15	15	15	15	15	15	15	15	15
Angina	No	84	116.5	103.7	11.3	1	450	15	37	90	155	255	360	450	450
Angina	DK	1	15.0	-	-	15	15	15	15	15	15	15	15	15	15
Bronchitis/Emphysema	No	78	115.7	101.8	11.5	1	450	10	40	90	150	255	360	450	450
Bronchitis/Emphysema	Yes	6	126.7	137.8	56.3	15	360	15	25	68	225	360	360	360	360
Bronchitis/Emphysema	DK	1	15.0	-	-	15	15	15	15	15	15	15	15	15	15

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)															
Waiting on a Bus, Train, etc. Stop															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		151	18.7	18.8	1.5	1	128	4	7	15	20	40	45	67	120
Gender	Male	61	16.3	18.0	2.3	1	120	4	5	11	20	30	45	65	120
Gender	Female	90	20.3	19.2	2.0	1	128	4	10	15	30	43	60	75	128
Age (years)	-	2	21.0	5.7	4.0	17	25	17	17	21	25	25	25	25	25
Age (years)	1 to 4	2	8.0	9.9	7.0	1	15	1	1	8	15	15	15	15	15
Age (years)	5 to 11	32	12.5	10.7	1.9	2	45	2	5	10	15	20	43	45	45
Age (years)	12 to 17	50	13.8	11.5	1.6	1	74	3	5	10	20	23	30	53	75
Age (years)	18 to 64	54	25.5	25.6	3.5	1	128	5	10	15	30	60	67	120	128
Age (years)	> 64	11	27.3	13.5	4.1	5	45	5	20	30	40	45	45	45	45
Race	White	115	18.3	18.0	1.7	1	128	4	5	15	22	40	45	67	75
Race	Black	21	17.5	12.0	2.6	1	45	3	10	15	23	35	40	45	45
Race	Asian	3	10.0	5.0	2.9	5	15	5	5	10	15	15	15	15	15
Race	Some Others	1	15.0	-	-	15	15	15	15	15	15	15	15	15	15
Race	Hispanic	10	29.8	35.8	11.3	5	120	5	10	17	20	93	120	120	120
Race	Refused	1	15.0	-	-	15	15	15	15	15	15	15	15	15	15
Hispanic	No	136	18.1	17.1	1.5	1	128	4	6	15	23	40	45	67	75
Hispanic	Yes	13	25.2	32.4	9.0	1	120	1	10	15	20	65	120	120	120
Hispanic	DK	1	20.0	-	-	20	20	20	20	20	20	20	20	20	20
Hispanic	Refused	1	15.0	-	-	15	15	15	15	15	15	15	15	15	15
Employment	-	79	13.2	11.4	1.3	1	75	2	5	10	15	23	35	45	75
Employment	Full Time	31	24.9	24.8	4.5	1	128	5	10	15	30	45	65	128	128
Employment	Part Time	15	31.7	31.5	8.1	5	120	5	10	17	45	67	120	120	120
Employment	Not Employed	26	20.6	12.7	2.5	5	45	5	10	20	30	40	45	45	45
Education	-	87	12.9	11.0	1.2	1	75	3	5	10	15	23	30	45	75
Education	< High School	6	32.5	11.7	4.8	15	45	15	25	33	45	45	45	45	45
Education	High School Graduate	25	23.6	24.6	4.9	5	120	5	10	15	30	45	67	120	120
Education	< College	9	28.3	19.2	6.4	10	60	10	10	20	45	60	60	60	60
Education	College Graduate	16	33.8	31.1	7.8	5	128	5	10	30	38	65	128	128	128
Education	Post Graduate	8	14.9	8.4	3.0	1	30	1	41	15	19	30	30	30	30
Census Region	Northeast	63	20.5	23.4	3.0	1	128	3	6	15	22	40	65	120	128
Census Region	Midwest	27	17.5	13.1	2.5	3	60	4	5	15	20	35	35	60	60
Census Region	South	39	19.8	16.7	2.7	4	75	5	10	15	28	45	65	75	75
Census Region	West	22	13.2	11.3	2.4	1	45	1	5	10	15	30	30	45	45
Day Of Week	Weekday	128	17.8	19.0	1.7	1	128	3	6	15	20	35	45	75	120
Day Of Week	Weekend	23	23.8	17.0	3.5	5	65	5	10	20	35	45	60	65	65
Season	Winter	55	19.9	15.6	2.1	1	75	2	10	15	25	43	60	65	75
Season	Spring	43	17.2	20.7	3.2	1	120	4	5	10	20	33	45	120	120
Season	Summer	28	24.0	25.5	4.8	5	128	5	10	15	33	45	67	128	128
Season	Fall	25	12.7	9.9	2.0	1	45	4	5	10	15	20	35	45	45
Asthma	No	139	18.8	18.8	1.6	1	128	3	10	15	20	40	45	75	120
Asthma	Yes	10	20.0	20.5	6.5	4	65	4	5	12	30	55	65	65	65
Asthma	DK	2	7.5	3.5	2.5	5	10	5	5	8	10	10	10	10	10
Angina	No	151	18.7	18.8	1.5	1	128	4	7	15	20	40	45	67	120
Bronchitis/Emphysema	No	145	18.7	19.0	1.6	1	128	4	6	15	20	40	45	75	120
Bronchitis/Emphysema	Yes	6	19.8	13.6	5.5	9	45	9	10	16	23	45	45	45	45

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)

Outdoors Near a Vehicle															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		2825	79.9	143.8	2.7	1	1440	2	10	30	65	200	465	600	675
Gender	Male	1388	111.2	185.0	5.0	1	1440	3	11	31	90	430	570	675	735
Gender	Female	1436	49.5	75.9	2.0	1	790	2	10	25	60	120	180	290	420
Gender	Refused	1	20.0	-	-	20	20	20	20	20	20	20	20	20	20
Age (years)	-	51	64.4	90.9	12.7	1	510	4	20	40	65	125	290	360	510
Age (years)	1 to 4	102	46.0	59.5	5.9	1	420	2	10	30	60	105	160	192	245
Age (years)	5 to 11	230	55.9	86.5	5.7	1	540	2	10	20	60	170	215	360	465
Age (years)	12 to 17	313	40.9	55.7	3.1	1	435	3	10	21	45	100	160	220	260
Age (years)	18 to 64	1787	96.4	169.1	4.0	1	1440	2	10	30	75	325	539	645	720
Age (years)	> 64	342	57.6	85.3	4.6	1	560	4	10	30	60	120	205	450	510
Race	White	2275	81.8	148.4	3.1	1	1440	2	10	30	68	210	480	600	695
Race	Black	278	78.4	130.7	7.8	1	645	2	10	30	70	190	435	580	600
Race	Asian	51	42.4	61.7	8.6	1	405	2	10	28	60	85	120	150	405
Race	Some Others	50	73.1	113.0	16.0	1	535	2	15	40	60	168	420	493	535
Race	Hispanic	136	55.1	100.2	8.6	1	600	2	10	25	55	110	170	525	600
Race	Refused	35	124.4	186.9	31.6	4	810	10	20	40	120	360	565	810	810
Hispanic	No	2552	79.8	143.0	2.8	1	1440	2	10	30	65	200	457	600	665
Hispanic	Yes	230	68.1	126.0	8.3	1	765	2	10	30	60	148	410	565	615
Hispanic	DK	13	185.3	321.3	89.1	2	985	2	10	25	100	705	985	985	985
Hispanic	Refused	30	129.8	198.3	36.2	10	810	10	20	40	98	435	585	810	810
Employment	-	632	47.0	68.8	2.7	1	540	2	10	23	55	120	180	265	360
Employment	Full Time	1169	114.9	193.0	5.6	1	1440	2	10	30	90	485	570	690	740
Employment	Part Time	254	67.1	114.3	7.2	1	795	2	10	30	63	165	280	510	600
Employment	Not Employed	751	56.8	84.9	3.1	1	690	2	10	30	60	130	210	360	465
Employment	Refused	19	96.9	185.8	42.6	5	790	5	20	30	90	360	790	790	790
Education	-	702	47.1	70.2	2.6	1	540	2	10	24	55	120	180	265	360
Education	< High School	222	105.8	193.7	13.0	1	1440	4	10	30	90	365	540	720	735
Education	High School Graduate	702	113.2	185.8	7.0	1	1410	2	10	35	90	455	555	665	740
Education	< College	537	87.9	157.3	6.8	1	985	2	10	30	70	240	540	635	705
Education	College Graduate	367	70.9	117.9	6.2	1	660	2	10	30	68	170	325	565	600
Education	Post Graduate	295	55.2	86.9	5.1	1	710	3	10	30	60	120	200	362	560
Census Region	Northeast	749	75.7	130.6	4.8	1	985	3	10	30	70	179	375	570	665
Census Region	Midwest	586	77.4	141.2	5.8	1	1440	2	10	30	60	210	390	560	645
Census Region	South	836	86.4	160.3	5.5	1	1410	2	10	30	62	240	525	643	710
Census Region	West	654	78.2	138.3	5.4	1	985	2	10	30	65	180	435	570	615
Day Of Week	Weekday	2018	84.2	155.6	3.5	1	1440	2	10	30	65	215	515	625	705
Day Of Week	Weekend	807	68.8	108.2	3.8	1	705	2	10	30	65	180	310	465	540
Season	Winter	703	70.9	141.8	5.3	1	1440	2	10	26	60	160	365	570	643
Season	Spring	791	80.5	135.5	4.8	1	810	2	10	30	74	215	435	570	645
Season	Summer	819	84.2	150.3	5.3	1	985	2	10	30	70	210	510	615	705
Season	Fall	512	84.0	148.3	6.6	1	930	2	10	30	70	225	510	600	690
Asthma	No	2596	80.4	143.2	2.8	1	1410	2	10	30	65	205	475	600	675
Asthma	Yes	205	75.1	157.2	11.0	1	1440	2	10	30	65	160	309	580	690
Asthma	DK	24	62.1	78.5	16.0	5	360	5	18	35	68	98	225	360	360
Angina	No	2726	79.6	144.3	2.8	1	1440	2	10	30	65	196	465	600	687
Angina	Yes	76	92.4	139.4	16.0	1	570	3	10	35	91	354	465	535	570
Angina	DK	23	68.7	91.2	19.0	5	360	10	20	40	75	98	330	360	360
Bronchitis/Emphysema	No	2684	79.4	142.8	2.8	1	1440	2	10	30	65	197	465	600	665
Bronchitis/Emphysema	Yes	115	93.8	175.4	16.4	1	985	2	10	30	90	225	465	735	985
Bronchitis/Emphysema	DK	26	61.6	72.2	14.2	5	360	7	27	40	75	110	180	360	360

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)															
Outdoors Other Than Near a Residence or Vehicle Such as Parks, Golf Courses, or Farms															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		1383	200.2	202.7	5.5	1	1440	10	60	130	276	510	600	748	915
Gender	Male	789	223.5	208.7	7.4	1	1440	20	60	150	315	540	635	765	900
Gender	Female	593	168.7	190.0	7.8	1	1440	10	40	105	238	420	540	700	930
Gender	Refused	1	420.0	-	-	420	420	420	420	420	420	420	420	420	420
Age (years)	-	19	183.4	160.4	36.8	10	540	10	60	140	220	510	540	540	540
Age (years)	1 to 4	54	164.6	177.3	24.1	1	980	10	60	120	175	370	560	630	980
Age (years)	5 to 11	159	171.3	177.9	14.1	5	1210	15	55	115	221	405	574	660	725
Age (years)	12 to 17	175	156.9	174.4	13.2	5	1065	10	45	100	210	385	570	735	915
Age (years)	18 to 64	858	219.4	215.1	7.3	1	1440	10	60	150	310	540	635	780	933
Age (years)	> 64	118	181.9	180.2	16.6	5	900	20	55	113	280	480	570	600	735
Race	White	1186	202.6	203.4	5.9	1	1440	14	60	135	280	510	615	750	930
Race	Black	81	185.8	195.1	21.7	1	765	5	40	108	240	540	585	690	765
Race	Asian	20	169.5	189.1	42.3	10	665	10	33	95	230	478	585	665	665
Race	Some Others	30	187.5	161.8	29.5	10	560	10	60	120	270	438	535	560	560
Race	Hispanic	57	158.3	203.3	26.9	1	1305	5	30	110	228	370	435	555	1305
Race	Refused	9	380.0	250.6	83.5	30	810	30	195	435	540	810	810	810	810
Hispanic	No	1267	202.6	203.4	5.7	1	1440	10	60	130	280	510	615	748	915
Hispanic	Yes	103	163.9	185.2	18.2	1	1305	10	30	115	228	400	511	555	555
Hispanic	DK	4	67.5	59.2	29.6	10	145	10	23	58	113	145	145	145	145
Hispanic	Refused	9	330.0	259.5	86.5	30	810	30	140	210	510	810	810	810	810
Employment	-	383	163.8	176.8	9.0	1	1210	10	51	110	215	385	560	665	915
Employment	Full Time	555	228.5	219.4	9.3	1	1305	14	60	150	335	545	645	825	955
Employment	Part Time	126	202.6	211.7	18.9	3	1440	10	60	125	280	510	580	690	700
Employment	Not Employed	309	191.5	189.3	10.8	1	1440	10	50	125	275	480	565	690	735
Employment	Refused	10	254.0	240.9	76.2	30	810	30	105	168	280	675	810	810	810
Education	-	429	163.9	175.5	8.5	1	1210	10	55	115	210	385	560	665	840
Education	< High School	83	264.5	255.5	28.0	1	1305	30	60	180	480	555	600	1100	1305
Education	High School Graduate	313	228.6	228.2	12.9	3	1440	10	60	160	310	570	690	855	990
Education	< College	250	218.0	203.0	12.8	1	1440	10	60	153	330	510	555	715	765
Education	College Graduate	185	207.3	190.2	14.0	1	930	20	60	128	285	505	600	690	795
Education	Post Graduate	123	163.6	173.0	15.6	1	900	10	45	90	240	385	480	735	780
Census Region	Northeast	279	196.8	208.4	12.5	1	1305	10	60	130	265	480	590	900	1130
Census Region	Midwest	309	196.7	211.6	12.0	1	1440	10	50	120	270	510	635	740	900
Census Region	South	468	198.4	195.1	9.0	1	933	15	60	120	285	510	600	748	825
Census Region	West	327	208.7	200.5	11.1	1	1440	15	60	150	285	525	580	725	855
Day Of Week	Weekday	851	184.0	197.9	6.8	1	1440	10	45	119	240	490	585	735	900
Day Of Week	Weekend	532	226.0	207.6	9.0	1	1440	20	69	155	320	525	630	810	915
Season	Winter	241	175.7	192.7	12.4	1	1065	10	35	93	253	450	585	750	810
Season	Spring	412	185.8	174.5	8.6	5	980	15	60	130	240	473	555	665	740
Season	Summer	508	225.0	220.7	9.8	1	1440	15	60	150	305	540	630	840	990
Season	Fall	222	196.5	213.6	14.3	1	1130	10	35	120	280	540	600	780	900
Asthma	No	1283	196.6	196.9	5.5	1	1440	10	60	125	270	495	600	730	855
Asthma	Yes	93	244.3	263.3	27.3	5	1440	15	60	150	350	530	810	1100	1440
Asthma	DK	7	270.7	274.4	103.7	30	810	30	60	195	450	810	810	810	810
Angina	No	1352	199.0	202.3	5.5	1	1440	10	60	130	270	510	600	740	915
Angina	Yes	25	238.6	206.0	41.2	1	730	5	60	210	340	465	690	730	730
Angina	DK	6	290.8	276.0	112.7	30	810	30	140	203	360	810	810	810	810
Bronchitis/Emphysema	No	1326	199.8	200.8	5.5	1	1440	10	60	130	275	500	600	735	900
Bronchitis/Emphysema	Yes	51	206.4	239.8	33.6	5	1100	10	50	110	305	540	700	930	1100
Bronchitis/Emphysema	DK	6	233.3	294.0	120.0	15	810	15	30	168	210	810	810	810	810

Table 16-20. Time Spent (minutes/day) in Selected Outdoor Locations, Doers Only (continued)

		Cumulative Outdoors (outside the residence)													
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		3,124	154.0	158.3	2.8	1	1,290	5	40	105	210	362	480	610	715
Sex	Male	1,533	174.9	173.7	4.4	1	1,290	10	60	120	240	420	540	680	745
Sex	Female	1,588	133.5	138.8	3.5	1	1,065	5	30	90	190	325	415	525	610
Sex	Refused	3	340.0	140.0	80.8	240	500	240	240	280	500	500	500	500	500
Age (years)	-	40	164.0	179.6	28.4	2	720	4	40	108	213	430	600	720	720
Age (years)	1 to 4	201	195.7	163.7	11.5	3	715	30	75	135	270	430	535	625	699
Age (years)	5 to 11	353	187.6	158.6	8.4	4	1,250	20	80	150	265	365	479	600	720
Age (years)	12 to 17	219	135.3	137.0	9.3	1	720	5	35	100	190	300	452	545	610
Age (years)	18 to 64	1,809	144.2	155.1	3.6	1	1,080	5	30	90	199	360	470	600	715
Age (years)	>64	502	156.4	168.3	7.5	1	1,290	5	36	110	210	375	485	645	735
Race	White	2,622	156.8	160.2	3.1	1	1,290	5	45	105	215	375	485	625	720
Race	Black	255	141.6	153.2	9.6	1	1,250	5	30	95	195	330	420	535	645
Race	Asian	34	115.8	135.6	23.2	1	480	5	20	60	150	360	450	480	480
Race	Some Others	53	167.0	149.0	20.5	3	750	5	60	130	238	320	475	553	750
Race	Hispanic	125	117.3	128.9	11.5	1	720	5	30	70	150	270	355	590	610
Race	Refused	35	187.1	163.8	27.7	5	600	5	60	170	240	450	510	600	600
Hispanic	No	2,857	153.8	158.4	3.0	1	1,290	5	40	105	210	362	480	610	720
Hispanic	Yes	222	146.4	154.1	10.3	1	750	5	30	113	200	345	480	640	690
Hispanic	DK	15	191.5	178.3	46.0	15	585	15	40	140	380	420	585	585	585
Hispanic	Refused	30	212.5	165.3	30.2	5	600	5	60	180	345	458	510	600	600
Employment	-	774	175.8	156.1	5.6	1	1,250	15	60	125	245	380	480	610	705
Employment	Full Time	1,110	141.3	159.9	4.8	1	1,080	5	30	85	195	359	490	660	745
Employment	Part Time	240	134.7	140.8	9.1	1	1,080	5	30	90	183	333	423	485	525
Employment	Not Employed	978	156.1	159.2	5.1	1	1,290	5	40	115	220	375	480	610	701
Employment	Refused	22	152.7	209.8	44.7	5	660	5	15	60	125	555	600	660	660
Education	-	825	174.1	156.2	5.4	1	1,250	15	60	125	240	380	480	610	699
Education	< High School	306	171.9	188.4	10.8	1	1,290	7	45	120	240	405	510	765	855
Education	High School Graduate	837	153.6	154.8	5.4	1	840	5	35	105	215	380	480	598	701
Education	< College	527	143.4	157.1	6.8	1	1,080	5	30	90	195	360	465	615	720
Education	College Graduate	355	126.9	142.6	7.6	1	750	5	30	80	170	300	415	615	690
Education	Post Graduate	274	130.5	151.0	9.1	1	1,065	5	30	75	180	325	465	570	660
Census Region	Northeast	635	148.0	143.7	5.7	1	750	5	35	105	215	345	450	575	610
Census Region	Midwest	639	156.0	169.2	6.7	1	1,290	5	45	102	210	360	500	655	750
Census Region	South	1,120	158.6	165.2	4.9	1	1,080	5	40	110	210	390	495	640	745
Census Region	West	730	150.6	149.6	5.5	1	855	5	36	105	213	360	465	575	660
Day Of Week	Weekday	1,933	141.2	149.0	3.4	1	1,250	5	31	90	190	345	452	598	698
Day Of Week	Weekend	1,191	174.9	170.4	4.9	1	1,290	10	50	120	260	400	500	660	745
Season	Winter	548	114.0	138.1	5.9	1	1,080	5	25	60	150	280	380	540	690
Season	Spring	1,034	171.9	159.4	5.0	1	990	10	60	120	240	390	495	645	730
Season	Summer	1,098	168.3	168.2	5.1	1	1,290	5	50	120	235	400	510	630	715
Season	Fall	444	126.5	140.7	6.7	1	960	5	30	75	163	313	420	575	655
Asthma	No	2,869	154.5	159.2	3.0	1	1,290	5	40	105	210	365	480	615	720
Asthma	Yes	236	145.8	145.5	9.5	1	885	5	45	105	190	360	450	575	610
Asthma	DK	19	182.4	181.0	41.5	1	600	1	60	120	300	480	600	600	600
Angina	No	3,023	153.2	156.3	2.8	1	1,290	5	40	105	210	360	479	610	707
Angina	Yes	76	172.9	222.3	25.5	2	1,080	5	30	69	253	465	660	1,065	1,080
Angina	DK	25	195.0	170.4	34.1	5	600	5	60	150	300	465	480	600	600
Bronchitis/Emphysema	No	2,968	154.9	158.8	2.9	1	1,290	5	40	105	210	367	480	615	715
Bronchitis/Emphysema	Yes	139	129.4	142.5	12.1	1	855	5	30	75	175	327	415	553	735
Bronchitis/Emphysema	DK	17	206.8	179.8	43.6	5	600	5	60	170	300	480	600	600	600
-	= Indicates missing data.														
DK	= The respondent replied "don't know".														
Refused	= Refused data.														
N	= Doer sample size.														
SD	= Standard deviation.														
SE	= Standard error.														
Min	= Minimum number of minutes.														
Max	= Maximum number of minutes.														
Source:	U.S. EPA (1996).														

Age (years)	N	Average Indoor Minutes ^a	Average Outdoor Minutes ^b	Average Unclassified Minutes ^c
Birth to <1	25	1,353	44	43
1 to <2	90	1,353	36	51
2 to <3	131	1,316	76	48
3 to <6	360	1,278	107	54
6 to <11	511	1,244	132	64
11 to <16	449	1,260	100	80
16 to <21	493	1,248	102	90

^a Time indoors was estimated by adding the average times spent indoors at the respondents' home (kitchen, living room, bathroom, etc.), at other houses, and inside other locations such as school, restaurants, etc.

^b Time outdoors was estimated by adding the average time spent outdoors at the respondents' pool and yard, others' pool and yard, and outside other locations such as sidewalk, street, neighborhood, parking lot, service station/gas station, school grounds, park/golf course, pool, river, lake, farm, etc.

^c Includes time spent in vehicles or in activities that could not be assigned an indoor or outdoor location.

N = Sample size.

Source: U.S. EPA re-analysis of source data from U.S. EPA (1996).

Time Outdoors						
Age (years)	Time Outdoors away from Residence ^a		Time Outdoors at Residence ^a		Total Time Outdoors ^b	
	Mean	95 th Percentile	Mean	95 th Percentile	Mean	95 th Percentile
18 to 64	144.2	470	136.4	435	281	-
>64	156.5	485	141.1	465	298	-
Time Indoors						
Age (years)	Total Minutes/24 hours	Total Time Outdoors		Total Time Indoors ^c		
		Mean		Mean		
18 to 64	1,440	281		1,159		
>64	1,440	298		1,142		

^a For additional statistics see Table 16-26.

^b Total Time Outdoors was calculated by summing the time spent outdoors away from the residence and the time outdoors at the residence.

Source: U.S. EPA (1996).

Table 16-23. Time Spent (minutes/day) in Selected Vehicles and All Vehicles Combined Whole Population and Doers Only, Children <21 Years

Age (years)	N	Mean	Min	Percentiles										Max	
				1	2	5	10	25	50	75	90	95	98		99
Car—Whole Population															
Birth to <1	63	36	0	0	0	0	0	0	10	49	107	171	208	220	235
1 to <2	118	41	0	0	0	0	0	0	20	60	98	151	246	336	390
2 to <3	118	33	0	0	0	0	0	0	20	50	90	126	163	187	215
3 to <6	357	43	0	0	0	0	0	0	20	60	117	155	221	272	620
6 to <11	497	37	0	0	0	0	0	0	15	55	102	146	185	212	630
11 to <16	466	39	0	0	0	0	0	0	15	55	99	150	254	302	900
16 to <21	481	61	0	0	0	0	0	8	40	90	155	195	249	321	380
Car—Doers Only															
Birth to <1	35	65	2	5	7	10	14	20	40	73	159	203	218	227	235
1 to <2	68	72	5	8	10	10	15	30	58	85	147	186	323	363	390
2 to <3	73	54	4	4	4	8	10	24	42	65	118	141	181	197	215
3 to <6	227	67	4	4	5	7	10	25	45	88	150	180	267	327	620
6 to <11	317	58	1	2	2	5	10	20	40	82	127	163	202	300	630
11 to <16	286	64	1	3	5	5	10	20	40	75	122	193	279	338	900
16 to <21	364	81	2	9	10	10	17	30	60	105	180	210	275	334	380
Truck (Pickup or Van)—Whole Population															
Birth to <1	63	2	0	0	0	0	0	0	0	0	0	0	0	42	110
1 to <2	118	2	0	0	0	0	0	0	0	0	0	0	52	81	90
2 to <3	118	14	0	0	0	0	0	0	0	0	14	31	124	201	955
3 to <6	357	5	0	0	0	0	0	0	0	0	0	30	60	114	245
6 to <11	497	7	0	0	0	0	0	0	0	0	15	45	95	110	240
11 to <16	466	9	0	0	0	0	0	0	0	0	15	59	153	181	352
16 to <21	481	11	0	0	0	0	0	0	0	0	25	90	150	190	445
Truck (Pickup or Van)—Doers Only															
Birth to <1	1	-	110	-	-	-	-	-	-	-	-	-	-	-	110
1 to <2	5	-	20	-	-	-	-	-	-	-	-	-	-	-	90
2 to <3	15	109	10	10	10	10	11	15	30	53	188	434	746	851	955
3 to <6	34	53	1	2	4	8	10	16	30	59	117	207	222	233	245
6 to <11	69	48	1	4	6	10	10	15	30	65	110	124	151	186	240
11 to <16	62	67	5	5	5	5	7	15	35	89	180	185	258	299	352
16 to <21	70	78	5	5	5	10	11	22	54	115	170	213	238	304	445
Bus—Whole Population															
Birth to <1	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 to <2	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 to <3	118	1	0	0	0	0	0	0	0	0	0	0	0	25	120
3 to <6	357	2	0	0	0	0	0	0	0	0	0	0	30	47	80
6 to <11	497	11	0	0	0	0	0	0	0	0	50	70	90	110	140
11 to <16	466	16	0	0	0	0	0	0	0	15	60	89	119	148	370
16 to <21	481	6	0	0	0	0	0	0	0	0	0	45	108	135	225
Bus—Doers Only															
Birth to <1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to <2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 to <3	2	-	30	-	-	-	-	-	-	-	-	-	-	-	120
3 to <6	14	40	15	16	16	18	21	30	33	49	67	74	77	79	80
6 to <11	115	49	5	5	6	14	17	25	43	67	90	107	120	122	140
11 to <16	130	58	7	10	10	10	15	30	54	71	101	131	159	175	370
16 to <21	41	75	10	12	14	20	25	30	60	100	135	175	193	209	225

Table 16-23. Time Spent (minutes/day) in Selected Vehicles and All Vehicles Combined Whole Population and Doers Only, Children <21 Years (continued)

Age (years)	N	Mean	Min	Percentiles										Max	
				1	2	5	10	25	50	75	90	95	98		99
All Vehicles—Whole Population															
Birth to <1	63	39	0	0	0	0	0	0	20	60	113	171	208	220	235
1 to <2	118	44	0	0	0	0	0	0	28	60	98	151	246	336	390
2 to <3	118	50	0	0	0	0	0	0	30	60	120	151	203	214	955
3 to <6	357	50	0	0	0	0	0	0	30	65	122	167	238	272	620
6 to <11	497	57	0	0	0	0	0	15	40	85	124	155	212	289	630
11 to <16	466	67	0	0	0	0	0	15	45	85	155	206	291	383	900
16 to <21	481	84	0	0	0	0	0	25	62	120	180	239	328	382	675
All Vehicles—Doers Only															
Birth to <1	37	66	2	5	8	10	16	20	46	75	151	202	217	226	235
1 to <2	72	72	5	9	10	10	20	30	60	85	143	178	316	362	390
2 to <3	86	69	4	4	5	10	10	26	45	83	128	166	212	326	955
3 to <6	261	68	1	4	6	10	13	30	46	85	150	190	261	309	620
6 to <11	417	68	1	2	4	10	14	25	55	90	130	161	240	306	630
11 to <16	383	82	1	5	5	10	16	30	60	99	177	235	314	392	900
16 to <21	428	94	5	8	10	15	20	40	75	120	190	240	345	386	675

N = Sample size.
 Min = Minimum.
 Max = Maximum.
 - = Percentiles were not calculated for sample sizes less than 10.

Source: U.S. EPA re-analysis of source data from U.S. EPA (1996).

Table 16-24. Time Spent (minutes/day) in Selected Vehicles, Other Mass Transit, and All Vehicles Combined, Doers Only

		Car														
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		6,560	87.4	88.2	1.1	1	1,280	10	34	63	110	175	240	345	450	
Sex	Male	2,852	90.7	97.3	1.8	1	1,280	10	30	63	115	185	254	360	526	
Sex	Female	3,706	84.9	80.4	1.3	1	878	10	35	64	110	165	220	335	420	
Sex	Refused	2	30.0	14.1	10.0	20	40	20	20	30	40	40	40	40	40	
Age (years)	-	120	94.0	90.2	8.2	7	593	10	38	72	120	180	223	435	450	
Age (years)	1 to 4	297	63.0	56.8	3.3	2	390	10	25	45	80	135	180	235	270	
Age (years)	5 to 11	449	64.6	81.1	3.8	1	900	5	20	40	85	145	175	310	345	
Age (years)	12 to 17	393	64.8	71.0	3.6	1	630	9	20	41	80	136	185	300	380	
Age (years)	18 to 64	4,489	93.8	92.3	1.4	1	1,280	13	40	70	120	184	250	360	495	
Age (years)	>64	812	83.5	79.4	2.8	4	780	10	30	60	110	165	225	315	405	
Race	White	5,337	87.6	89.7	1.2	1	1,280	10	31	64	110	175	240	360	460	
Race	Black	640	86.8	74.3	2.9	1	690	10	35	65	115	180	240	305	330	
Race	Asian	117	78.8	66.3	6.1	5	360	20	35	60	95	135	225	320	330	
Race	Some Others	121	87.7	84.5	7.7	3	540	10	30	60	120	180	250	330	345	
Race	Hispanic	265	90.1	101.5	6.2	2	825	15	35	65	100	165	235	465	620	
Race	Refused	80	82.4	73.3	8.2	5	420	12	30	60	120	168	230	315	420	
Hispanic	No	5,987	87.5	87.6	1.1	1	1,280	10	35	65	110	175	240	345	440	
Hispanic	Yes	477	88.5	97.2	4.5	2	825	10	30	60	103	180	240	388	595	
Hispanic	DK	29	63.9	73.1	13.6	5	325	6	20	40	60	187	200	325	325	
Hispanic	Refused	67	86.1	78.4	9.6	5	420	14	30	60	120	180	239	315	420	
Employment	-	1,124	64.2	72.3	2.2	1	900	5	20	45	81	136	180	270	345	
Employment	Full Time	3,134	93.6	92.2	1.6	2	1,280	15	40	70	120	180	242	360	490	
Employment	Part Time	632	90.1	82.0	3.3	2	878	10	40	70	117	175	230	330	384	
Employment	Not Employed	1,629	90.4	90.2	2.2	1	780	10	35	60	115	195	250	365	465	
Employment	Refused	41	97.2	84.0	13.1	10	330	15	30	75	120	220	290	330	330	
Education	-	1,260	66.5	72.3	2.0	1	900	6	21	45	85	145	187	270	350	
Education	< High School	434	86.0	82.1	3.9	5	620	10	35	60	115	165	210	360	455	
Education	High School Graduate	1,805	91.8	91.1	2.1	1	870	10	38	65	115	190	255	385	465	
Education	< College	1,335	93.2	94.3	2.6	2	1,280	10	36	70	120	180	250	380	460	
Education	College Graduate	992	95.7	95.5	3.0	4	840	14	40	73	120	185	250	370	580	
Education	Post Graduate	734	91.5	82.0	3.0	4	905	20	40	75	115	175	235	330	380	
Census Region	Northeast	1,412	85.8	83.8	2.2	1	780	10	33	60	110	170	240	330	410	
Census Region	Midwest	1,492	89.1	86.6	2.2	4	825	10	35	65	113	180	250	360	465	
Census Region	South	2,251	88.3	89.3	1.9	1	900	10	34	65	115	175	235	338	490	
Census Region	West	1,405	85.9	92.2	2.5	2	1,280	10	30	60	110	175	235	345	435	
Day Of Week	Weekday	4,427	83.9	85.0	1.3	1	905	10	30	60	105	165	225	330	440	
Day Of Week	Weekend	2,133	94.7	94.0	2.0	1	1,280	10	35	70	120	190	265	360	455	
Season	Winter	1,703	83.5	82.1	2.0	1	870	10	30	60	105	165	230	350	425	
Season	Spring	1,735	88.6	91.5	2.2	1	905	10	30	60	110	180	250	380	480	
Season	Summer	1,767	88.0	86.5	2.1	1	900	10	35	65	115	170	235	330	450	
Season	Fall	1,355	90.1	93.2	2.5	1	1,280	10	35	70	115	170	240	335	545	
Asthma	No	6,063	87.4	88.0	1.1	1	1,280	10	34	63	110	175	240	350	450	
Asthma	Yes	463	88.2	92.1	4.3	4	870	15	34	64	110	165	245	345	505	
Asthma	DK	34	78.4	57.4	9.8	10	239	10	30	71	100	160	220	239	239	
Angina	No	6,368	87.5	88.7	1.1	1	1,280	10	34	64	110	175	240	350	450	
Angina	Yes	154	82.2	68.6	5.5	8	365	10	30	60	115	162	214	285	320	
Angina	DK	38	89.6	72.9	11.8	10	360	10	35	74	120	180	239	360	360	
Bronchitis/Emphysema	No	6,224	87.6	88.9	1.1	1	1,280	10	34	62	110	175	240	350	450	
Bronchitis/Emphysema	Yes	300	85.6	76.2	4.4	1	505	10	35	69	109	185	238	305	435	
Bronchitis/Emphysema	DK	36	81.1	63.1	10.5	5	239	10	30	71	120	175	220	239	239	

		Truck (Pick-up/Van)														
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		1,172	85.3	95.9	2.8	1	955	10	30	60	110	180	240	395	478	
Sex	Male	760	91.1	105.4	3.8	1	955	10	30	60	115	190	265	450	620	
Sex	Female	412	74.6	74.2	3.7	1	510	10	25	55	95	165	220	300	355	
Age (years)	-	13	110.8	129.2	35.8	10	450	10	35	60	90	300	450	450	450	
Age (years)	1 to 4	41	80.8	154.3	24.1	1	955	10	15	35	70	206	210	955	955	
Age (years)	5 to 11	89	47.6	44.2	4.7	1	240	7	15	30	65	110	130	180	240	
Age (years)	12 to 17	80	66.8	71.1	7.9	5	352	6	15	37	94	180	223	265	352	
Age (years)	18 to 64	859	91.4	98.0	3.3	2	750	10	30	60	115	189	260	440	555	
Age (years)	>64	90	79.0	82.4	8.7	10	453	12	30	49	105	185	265	390	453	
Race	White	1,022	84.7	96.2	3.0	1	955	10	30	60	110	180	235	390	510	
Race	Black	68	91.3	98.5	11.9	6	453	14	28	63	106	220	295	450	453	
Race	Asian	3	138.3	63.3	36.6	90	210	90	90	115	210	210	210	210	210	
Race	Some Others	20	67.2	48.5	10.8	5	165	8	25	63	103	137	155	165	165	
Race	Hispanic	48	92.8	99.3	14.3	5	440	10	28	60	120	224	330	440	440	
Race	Refused	11	88.2	110.8	33.4	10	390	10	30	60	65	190	390	390	390	
Hispanic	No	1,069	85.1	95.6	2.9	1	955	10	30	60	110	180	240	390	478	
Hispanic	Yes	87	89.1	100.8	10.8	5	630	5	29	60	115	210	230	440	630	
Hispanic	DK	5	58.0	36.2	16.2	20	97	20	20	68	85	97	97	97	97	
Hispanic	Refused	11	85.9	111.6	33.7	10	390	10	30	35	65	190	390	390	390	
Employment	-	205	60.2	86.4	6.0	1	955	7	15	30	75	146	185	240	265	
Employment	Full Time	642	93.3	101.4	4.0	4	750	10	30	60	120	192	270	450	555	
Employment	Part Time	97	89.4	89.0	9.0	2	460	6	30	60	120	190	270	450	460	
Employment	Not Employed	217	83.0	85.8	5.8	5	655	10	30	60	110	180	235	300	355	
Employment	Refused	11	96.4	114.3	34.5	10	390	10	30	35	170	190	390	390	390	
Education	-	230	64.0	86.9	5.7	1	955	7	15	35	85	160	206	245	352	
Education	< High School	119	90.5	81.7	7.5	5	453	14	35	60	120	195	280	295	450	
Education	High School Graduate	392	87.6	94.7	4.8	2	675	10	30	60	115	185	255	450	510	
Education	< College	238	92.0	111.8	7.2	4	750	10	30	60	110	190	290	555	655	
Education	College Graduate	127	85.2	74.6	6.6	5	370	15	30	60	110	180	230	345	355	
Education	Post Graduate	66	112.4	118.0	14.5	10	650	10	35	80	135	220	412	445	650	
Census Region	Northeast	170	85.4	104.2	8.0	2	695	10	20	50	110	186	260	445	630	
Census Region	Midwest	268	91.2	94.4	5.8	1	750	10	30	60	119	205	245	390	460	
Census Region	South	491	87.3	100.1	4.5	4	955	10	30	60	111	180	235	445	595	
Census Region	West	243	74.7	81.3	5.2	5	478	10	23	52	90	160	235	395	440	
Day Of Week	Weekday	796	80.1	90.6	3.2	1	750	10	30	55	101	170	230	375	510	
Day Of Week	Weekend	376	96.3	105.5	5.4	2	955	12	30	61	120	192	280	430	460	
Season	Winter	322	78.5	91.6	5.1	1	955	10	29	51	95	170	220	355	445	
Season	Spring	300	92.5	100.2	5.8	1	695	10	30	60	120	208	268	443	549	
Season	Summer	323	86.1	99.3	5.5	2	750	10	30	60	110	180	233	430	595	
Season	Fall	227	84.2	90.9	6.0	5	675	10	30	60	105	165	265	395	465	
Asthma	No	1,092	85.3	93.5	2.8	1	750	10	30	60	110	184	240	412	478	
Asthma	Yes	72	83.6	125.3	14.8	5	955	10	20	46	115	170	235	395	955	
Asthma	DK	8	101.9	129.7	45.8	10	390	10	20	60	128	390	390	390	390	
Angina	No	1,142	84.9	95.2	2.8	1	955	10	30	60	110	180	235	395	475	
Angina	Yes	20	93.4	116.0	25.9	5	555	8	38	70	103	141	351	555	555	
Angina	DK	10	118.5	128.6	40.7	10	390	10	30	60	190	340	390	390	390	
Bronchitis/Emphysema	No	1,128	85.5	96.6	2.9	1	955	10	30	60	110	180	240	412	478	
Bronchitis/Emphysema	Yes	35	77.8	60.5	10.2	5	240	5	30	60	120	165	220	240	240	
Bronchitis/Emphysema	DK	9	93.3	123.9	41.3	10	390	10	20	60	65	390	390	390	390	

Table 16-24. Time Spent (minutes/day) in Selected Vehicles, Other Mass Transit, and All Vehicles Combined, Doers Only (continued)

		Bus													
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		469	74.6	93.5	4.3	2	945	10	30	55	90	125	180	435	570
Sex	Male	219	77.3	104.1	7.0	5	945	10	30	55	90	135	180	460	570
Sex	Female	250	72.4	83.3	5.3	2	640	15	30	55	90	120	175	420	501
Age (years)	-	14	145.0	167.2	44.7	10	605	10	60	100	140	435	605	605	605
Age (years)	1 to 4	5	56.0	40.2	18.0	15	120	15	30	55	60	120	120	120	120
Age (years)	5 to 11	133	48.4	29.4	2.6	5	140	10	25	43	67	90	110	120	122
Age (years)	12 to 17	143	59.4	46.3	3.9	7	370	10	30	54	75	110	135	179	225
Age (years)	18 to 64	147	96.6	128.4	10.6	2	945	10	30	60	110	180	405	640	690
Age (years)	>64	27	132.0	144.6	27.8	10	570	20	45	73	130	435	460	570	570
Race	White	311	70.1	89.5	5.1	2	945	10	30	54	80	120	147	405	501
Race	Black	101	85.2	92.4	9.2	5	570	15	35	60	110	140	185	460	468
Race	Asian	15	58.0	58.5	15.1	5	175	5	20	20	120	155	175	175	175
Race	Some Others	14	107.1	176.5	47.2	20	690	20	30	43	100	225	690	690	690
Race	Hispanic	24	65.5	71.5	14.6	15	370	20	30	43	87	90	120	370	370
Race	Refused	4	168.0	196.2	98.1	10	435	10	21	114	315	435	435	435	435
Hispanic	No	415	72.8	86.1	4.2	2	945	10	30	55	90	125	165	420	468
Hispanic	Yes	46	83.9	138.9	20.5	7	690	15	30	38	85	145	370	690	690
Hispanic	DK	2	47.5	10.6	7.5	40	55	40	40	48	55	55	55	55	55
Hispanic	Refused	6	137.8	159.6	65.2	10	435	10	32	78	195	435	435	435	435
Employment	-	274	54.0	39.4	2.4	5	370	10	29	50	70	100	120	150	179
Employment	Full Time	95	122.6	168.8	17.3	5	945	10	30	60	120	405	570	690	945
Employment	Part Time	34	83.3	79.3	13.6	2	468	10	40	60	100	135	185	468	468
Employment	Not Employed	61	80.3	69.2	8.9	5	460	10	30	65	120	135	165	205	460
Employment	Refused	5	167.4	169.9	76.0	10	435	10	32	165	195	435	435	435	435
Education	-	295	55.3	45.0	2.6	5	435	10	29	49	70	100	120	155	225
Education	< High School	25	120.4	124.3	24.9	10	570	30	45	90	135	195	405	570	570
Education	High School Graduate	57	111.6	116.7	15.5	10	501	20	45	73	120	225	435	468	501
Education	< College	38	108.8	133.4	21.6	10	640	20	40	75	120	195	605	640	640
Education	College Graduate	30	84.6	128.1	23.4	2	690	5	30	60	90	130	300	690	690
Education	Post Graduate	24	110.5	199.2	40.7	5	945	10	29	60	102	125	460	945	945
Census Region	Northeast	145	77.1	75.4	6.3	7	435	15	30	60	95	135	180	435	435
Census Region	Midwest	102	69.7	103.3	10.2	2	945	10	30	55	85	120	125	175	468
Census Region	South	142	71.7	82.8	7.0	5	570	10	30	50	80	135	180	460	501
Census Region	West	80	81.8	124.3	13.9	5	690	13	30	42	90	128	298	640	690
Day Of Week	Weekday	426	70.6	84.6	4.1	2	690	10	30	50	85	120	165	435	501
Day Of Week	Weekend	43	114.7	152.2	23.2	10	945	20	45	90	120	180	300	945	945
Season	Winter	158	78.3	98.1	7.8	5	690	10	30	58	90	125	180	435	605
Season	Spring	140	61.6	53.5	4.5	2	460	10	30	50	75	120	138	205	225
Season	Summer	94	86.6	116.7	12.0	5	945	10	30	60	95	155	225	435	945
Season	Fall	77	76.2	107.5	12.3	5	640	10	30	50	80	125	175	570	640
Asthma	No	413	76.4	96.8	4.8	2	945	10	30	55	90	125	180	435	570
Asthma	Yes	50	55.4	39.3	5.6	5	195	10	30	48	71	115	135	165	195
Asthma	DK	6	111.5	161.5	65.9	10	435	10	32	46	100	435	435	435	435
Angina	No	459	73.4	91.3	4.3	2	945	10	30	55	90	125	179	420	570
Angina	Yes	4	168.8	182.7	91.3	20	435	20	60	110	278	435	435	435	435
Angina	DK	6	109.5	162.4	66.3	10	435	10	30	41	100	435	435	435	435
Bronchitis/Emphysema	No	442	74.8	94.3	4.5	2	945	10	30	55	90	125	180	435	570
Bronchitis/Emphysema	Yes	19	58.2	39.9	9.1	10	155	10	30	55	65	125	155	155	155
Bronchitis/Emphysema	DK	8	104.6	137.9	48.8	10	435	10	29	68	100	435	435	435	435

Train/Subway/Rapid Transit															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		116	97.8	136.3	12.7	1	810	5	28	60	120	189	415	690	720
Gender	Male	62	91.6	119.4	15.2	5	720	10	24	60	120	180	240	480	720
Gender	Female	54	104.8	154.3	21.0	1	810	2	30	60	120	195	480	690	810
Age (years)	-	8	191.9	256.8	90.8	20	810	20	55	118	180	810	810	810	810
Age (years)	1 to 4	2	92.5	38.9	27.5	65	120	65	65	93	120	120	120	120	120
Age (years)	5 to 11	3	166.7	271.4	156.7	5	480	5	5	15	480	480	480	480	480
Age (years)	12 to 17	2	100.0	56.6	40.0	60	140	60	60	100	140	140	140	140	140
Age (years)	18 to 64	92	85.0	106.5	11.1	1	720	5	30	60	105	175	240	480	720
Age (years)	> 64	9	122.7	219.5	73.2	10	690	10	10	24	120	690	690	690	690
Race	White	64	89.5	139.7	17.5	1	720	5	22	55	74	195	380	690	720
Race	Black	26	131.4	168.4	33.0	5	810	10	35	118	135	195	480	810	810
Race	Asian	3	79.7	17.0	9.8	60	90	60	60	89	90	90	90	90	90
Race	Some Others	4	71.3	47.8	23.8	30	140	30	43	58	100	140	140	140	140
Race	Hispanic	16	88.6	98.9	24.7	5	415	5	20	70	113	165	415	415	415
Race	Refused	3	85.0	56.3	32.5	20	120	20	115	120	120	120	120	120	120
Hispanic	No	89	101.3	149.7	15.9	1	810	5	25	60	120	195	480	720	810
Hispanic	Yes	22	87.0	85.6	18.2	5	415	10	40	70	120	130	165	415	415
Hispanic	DK	2	79.5	34.6	24.5	55	104	55	55	80	104	104	104	104	104
Hispanic	Refused	3	85.0	56.3	32.5	20	120	20	20	115	120	120	120	120	120
Employment	-	7	126.4	163.6	61.8	5	480	5	15	65	140	480	480	480	480
Employment	Full Time	76	98.5	128.2	14.7	1	720	5	30	60	120	189	380	690	720
Employment	Part Time	10	61.7	46.4	14.7	5	160	5	15	58	89	125	160	160	160
Employment	Not Employed	21	101.7	186.2	40.6	1	810	10	10	55	90	165	415	810	810
Employment	Refused	2	107.5	123.7	87.5	20	195	20	20	108	195	195	195	195	195
Education	-	10	122.0	140.0	44.3	5	480	5	20	93	140	338	480	480	480
Education	< High School	6	181.8	311.8	127.3	1	810	1	5	70	135	810	810	810	810
Education	High School Graduate	30	89.4	109.2	19.9	1	480	2	30	60	120	178	415	480	480
Education	< College	26	125.7	189.6	37.2	10	720	10	20	60	120	380	690	720	720
Education	College Graduate	24	66.5	50.3	10.3	5	180	10	25	55	103	125	175	180	180
Education	Post Graduate	20	74.2	59.4	13.3	10	240	13	30	60	97	165	215	240	240
Census Region	Northeast	72	111.8	134.6	15.9	10	810	20	49	63	123	189	415	690	810
Census Region	Midwest	14	64.2	109.5	29.3	2	380	2	10	23	50	240	380	380	380
Census Region	South	15	75.7	121.1	31.3	1	480	1	10	30	90	160	480	480	480
Census Region	West	15	83.5	179.4	46.3	5	720	5	10	30	75	120	720	720	720
Day Of Week	Weekday	96	101.6	127.2	13.0	1	720	10	30	60	120	195	415	690	720
Day Of Week	Weekend	20	79.4	176.6	39.5	2	810	4	8	33	60	120	465	810	810
Season	Winter	26	138.2	196.3	38.5	5	810	10	30	80	130	240	720	810	810
Season	Spring	29	77.3	89.5	16.6	2	480	5	25	60	105	135	175	480	480
Season	Summer	37	106.1	140.7	23.1	5	690	10	30	60	120	195	480	690	690
Season	Fall	24	65.9	82.2	16.8	1	380	1	15	43	83	160	180	380	380
Asthma	No	106	94.2	122.9	11.9	1	720	5	30	60	120	180	380	480	690
Asthma	Yes	7	146.6	294.0	111.1	1	810	1	10	30	90	810	810	810	810
Asthma	DK	3	111.7	87.8	50.7	20	195	20	20	120	195	195	195	195	195
Angina	No	112	96.5	137.9	13.0	1	810	5	28	60	118	175	415	690	720
Angina	DK	4	132.5	82.9	41.5	20	195	20	70	158	195	195	195	195	195
Bronchitis/Emphysema	No	112	98.2	138.0	13.0	1	810	5	30	60	120	180	415	690	720
Bronchitis/Emphysema	Yes	1	10.0	-	-	10	10	10	10	10	10	10	10	10	10
Bronchitis/Emphysema	DK	3	111.7	87.8	50.7	20	195	20	20	120	195	195	195	195	195

Table 16-24. Time Spent (minutes/day) in Selected Vehicles, Other Mass Transit, and All Vehicles Combined, Doers Only (continued)

Airplane															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		53	234.0	203.7	28.0	10	900	15	70	210	300	480	660	900	900
Gender	Male	28	241.3	231.0	43.7	15	900	20	65	210	293	555	900	900	900
Gender	Female	25	225.9	172.6	34.5	10	660	15	110	210	300	480	510	660	660
Age (years)	-	3	175.0	145.7	84.1	15	300	15	15	210	300	300	300	300	300
Age (years)	12 to 17	3	113.3	118.6	68.5	15	245	15	15	80	245	245	245	245	245
Age (years)	18 to 64	42	226.4	194.0	29.9	10	900	20	60	203	300	480	555	900	900
Age (years)	> 64	5	405.4	292.4	130.8	195	900	195	210	287	435	900	900	900	900
Race	White	44	241.1	215.6	32.5	10	900	15	65	210	300	510	660	900	900
Race	Black	7	199.3	134.4	50.8	15	435	15	110	210	255	435	435	435	435
Race	Asian	1	60.0	-	-	60	60	60	60	60	60	60	60	60	60
Race	Hispanic	1	340.0	-	-	340	340	340	340	340	340	340	340	340	340
Hispanic	No	51	234.7	206.2	28.9	10	900	15	60	210	300	480	660	900	900
Hispanic	Yes	2	215.0	176.8	125.0	90	340	90	90	215	340	340	340	340	340
Employment	-	3	113.3	118.6	68.5	15	245	15	15	80	245	245	245	245	245
Employment	Full Time	33	212.4	194.0	33.8	15	900	20	60	180	285	480	555	900	900
Employment	Part Time	3	510.0	375.9	217.0	150	900	150	150	480	900	900	900	900	900
Employment	Not Employed	13	259.4	168.4	46.7	10	660	10	195	225	300	435	660	660	660
Employment	Refused	1	150.0	-	-	150	150	150	150	150	150	150	150	150	150
Education	-	4	122.5	98.5	49.3	15	245	15	48	115	198	245	245	245	245
Education	< High School	4	111.3	179.6	89.8	10	380	10	13	28	210	380	380	380	380
Education	High School Graduate	9	253.9	191.0	63.7	15	660	15	195	270	285	660	660	660	660
Education	< College	13	293.8	170.8	47.4	20	555	20	180	300	435	510	555	555	555
Education	College Graduate	15	194.8	114.0	29.4	45	480	45	90	210	255	287	480	480	480
Education	Post Graduate	8	305.0	375.1	132.6	20	900	20	45	138	578	900	900	900	900
Census Region	Northeast	17	254.7	234.8	57.0	15	900	15	70	245	380	510	900	900	900
Census Region	Midwest	17	235.1	234.3	56.8	15	900	15	60	195	287	660	900	900	900
Census Region	South	9	212.8	103.6	34.5	15	340	15	150	255	270	340	340	340	340
Census Region	West	10	216.0	181.7	57.5	10	555	10	45	203	240	518	555	555	555
Day Of Week	Weekday	37	258.9	192.8	31.7	15	900	15	150	230	305	510	660	900	900
Day Of Week	Weekend	16	176.4	222.8	55.7	10	900	10	38	95	263	360	900	900	900
Season	Winter	17	216.3	172.8	41.9	20	660	20	60	210	275	480	660	660	660
Season	Spring	14	191.8	160.5	42.9	15	555	15	90	150	230	435	555	555	555
Season	Summer	17	230.9	222.2	53.9	10	900	10	60	245	300	480	900	900	900
Season	Fall	5	423.0	294.4	131.7	180	900	180	240	285	510	900	900	900	900
Asthma	No	51	224.8	201.5	28.2	10	900	15	60	210	287	480	660	900	900
Asthma	Yes	2	467.5	123.7	87.5	380	555	380	380	468	555	555	555	555	555
Angina	No	51	233.7	207.6	29.1	10	900	15	60	210	300	480	660	900	900
Angina	Yes	2	241.0	65.1	46.0	195	287	195	195	241	287	287	287	287	287
Bronchitis/Emphysema	No	51	231.6	206.7	28.9	10	900	15	60	210	300	480	660	900	900
Bronchitis/Emphysema	Yes	2	295.0	120.2	85.0	210	380	210	210	295	380	380	380	380	380

Table 16-24. Time Spent (minutes/day) in Selected Vehicles, Other Mass Transit, and All Vehicles Combined, Doers Only (continued)

All Vehicles Combined															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		7,743	97.3	104.9	1.2	1	1,440	12	40	70	120	190	270	425	570
Sex	Male	3,603	103.7	119.7	2.0	1	1,440	10	40	70	120	205	295	478	655
Sex	Female	4,138	91.7	89.8	1.4	1	995	12	40	70	115	180	240	385	465
Sex	Refused	2	30.0	14.1	10.0	20	40	20	20	30	40	40	40	40	40
Age (years)	-	144	117.0	129.1	10.8	5	810	20	40	80	143	210	435	593	660
Age (years)	1 to 4	335	68.1	75.5	4.1	1	955	10	30	47	85	150	200	245	270
Age (years)	5 to 11	571	71.0	77.6	3.2	1	900	10	25	51	90	140	171	275	360
Age (years)	12 to 17	500	81.5	79.8	3.6	1	790	10	30	60	100	166	233	345	405
Age (years)	18 to 64	5,286	104.0	111.1	1.5	1	1,440	15	43	75	120	200	285	450	620
Age (years)	>64	907	90.9	93.9	3.1	4	900	10	35	60	120	190	258	400	460
Race	White	6,288	97.2	107.2	1.4	1	1,440	10	40	70	120	190	270	425	595
Race	Black	766	98.7	91.3	3.3	2	810	15	45	75	120	195	265	390	485
Race	Asian	133	83.4	74.9	6.5	5	540	20	35	70	105	150	210	330	360
Race	Some Others	144	96.2	94.0	7.8	3	690	10	40	70	128	180	250	345	540
Race	Hispanic	319	101.7	110.4	6.2	2	825	20	41	70	120	190	335	465	620
Race	Refused	93	93.6	90.1	9.3	10	480	15	30	65	120	205	255	420	480
Hispanic	No	7,050	97.1	104.8	1.2	1	1,440	10	40	70	120	190	270	420	566
Hispanic	Yes	578	100.0	109.0	4.5	2	825	15	40	70	120	190	285	480	630
Hispanic	DK	34	73.0	68.3	11.7	5	325	6	25	60	97	175	200	325	325
Hispanic	Refused	81	98.9	95.3	10.6	10	480	15	30	65	130	220	255	420	480
Employment	-	1,388	73.6	77.8	2.1	1	955	10	30	55	90	150	195	275	382
Employment	Full Time	3,732	105.8	116.2	1.9	4	1,440	16	45	75	124	198	290	475	660
Employment	Part Time	720	98.8	95.0	3.5	2	960	10	45	75	120	195	260	380	470
Employment	Not Employed	1,849	96.6	99.5	2.3	1	995	10	37	65	120	200	275	420	526
Employment	Refused	54	120.3	108.6	14.8	10	480	20	35	88	190	290	330	390	480
Education	-	1,550	76.4	78.9	2.0	1	955	10	30	60	95	155	201	303	385
Education	< High School	561	100.8	120.2	5.1	5	1,440	15	40	70	120	180	265	460	620
Education	High School Graduate	2,166	101.6	107.6	2.3	1	1,210	12	40	70	120	210	286	445	570
Education	< College	1,556	103.2	110.1	2.8	2	1,280	15	40	75	120	195	285	460	630
Education	College Graduate	1,108	104.5	109.5	3.3	4	1,215	15	45	75	125	200	280	450	675
Education	Post Graduate	802	101.9	108.7	3.8	4	1,357	20	45	76	120	195	270	365	480
Census Region	Northeast	1,662	98.6	106.6	2.6	1	1,215	15	40	70	120	190	275	425	570
Census Region	Midwest	1,759	101.2	114.6	2.7	1	1,440	10	40	70	120	205	290	435	595
Census Region	South	2,704	96.1	97.7	1.9	1	955	13	40	70	120	190	250	420	558
Census Region	West	1,618	93.7	103.7	2.6	2	1,280	10	35	65	115	180	260	420	540
Day Of Week	Weekday	5,289	94.4	101.4	1.4	1	1,215	10	40	66	115	180	260	435	575
Day Of Week	Weekend	2,454	103.4	111.9	2.3	1	1,440	13	40	75	125	205	280	420	540
Season	Winter	2,037	94.3	101.4	2.2	1	1,080	10	35	65	116	190	270	425	544
Season	Spring	2,032	99.6	110.5	2.5	1	1,440	12	40	70	120	200	275	440	546
Season	Summer	2,090	97.8	103.8	2.3	1	1,357	10	40	70	120	190	260	415	558
Season	Fall	1,584	97.4	103.7	2.6	1	1,280	14	40	70	120	180	265	420	620
Asthma	No	7,152	97.3	104.6	1.2	1	1,440	10	40	70	120	190	270	425	570
Asthma	Yes	544	97.2	110.8	4.8	4	955	17	40	65	117	180	255	460	705
Asthma	DK	47	100.0	95.2	13.9	10	480	10	30	75	120	220	239	480	480
Angina	No	7,516	97.3	105.2	1.2	1	1,440	11	40	70	120	190	270	425	570
Angina	Yes	172	93.1	93.1	7.1	8	615	15	30	65	120	185	280	420	540
Angina	DK	55	108.9	99.7	13.4	10	480	20	35	75	150	235	360	390	480
Bronchitis/Emphysema	No	7,349	97.6	106.1	1.2	1	1,440	10	40	70	120	190	270	425	580
Bronchitis/Emphysema	Yes	342	91.0	79.3	4.3	2	505	15	40	70	115	195	240	325	460
Bronchitis/Emphysema	DK	52	98.9	93.8	13.0	5	480	10	30	74	145	195	239	390	480

- = Indicates missing data.
 DK = The respondent replied "don't know".
 Refused = Refused data.
 N = Doer sample size.
 SD = Standard deviation.
 SE = Standard error.
 Min = Minimum number of minutes.
 Max = Maximum number of minutes.

Source: U.S. EPA (1996).

Age (years)	N	Mean	Min	Percentiles										Max	
				1	2	5	10	25	50	75	90	95	98		99
Sleeping/Napping—Whole Population															
Birth to <1	63	782	485	519	546	579	613	668	762	873	1,011	1,080	1,121	1,144	1,175
1 to <2	118	779	360	483	510	579	627	700	780	855	925	962	987	1,098	1,320
2 to <3	118	716	270	365	470	523	594	635	708	805	870	917	937	944	990
3 to <6	357	681	0	480	510	539	573	630	675	735	795	840	893	916	1,110
6 to <11	497	613	120	295	390	458	510	570	625	660	720	750	831	868	945
11 to <16	466	569	0	320	376	415	450	510	558	630	705	762	809	907	1,015
16 to <21	481	537	0	239	295	360	390	450	525	615	690	750	840	906	1,317
Sleeping/Napping—Doers Only															
Birth to <1	63	782	485	519	546	579	613	668	762	873	1,011	1,080	1,121	1,144	1,175
1 to <2	118	779	360	483	510	579	627	700	780	855	925	962	987	1,098	1,320
2 to <3	118	716	270	365	470	523	594	635	708	805	870	917	937	944	990
3 to <6	356	683	420	491	510	540	578	630	675	738	795	840	893	916	1,110
6 to <11	497	613	120	295	390	458	510	570	625	660	720	750	831	868	945
11 to <16	465	571	150	341	379	415	450	510	560	630	705	762	809	907	1,015
16 to <21	480	538	85	252	299	360	390	450	525	615	690	751	840	906	1,317
Eating—Whole Population															
Birth to <1	63	117	0	6	12	36	45	73	110	145	194	224	334	345	345
1 to <2	118	98	0	10	10	29	40	60	90	120	167	206	233	244	270
2 to <3	118	92	15	15	15	20	30	60	89	120	157	176	198	208	270
3 to <6	357	78	0	0	0	15	28	45	75	105	135	150	180	217	265
6 to <11	497	65	0	0	0	10	20	35	60	88	115	139	155	176	255
11 to <16	466	52	0	0	0	0	10	30	45	74	100	120	146	162	205
16 to <21	481	52	0	0	0	0	0	20	40	65	105	135	192	210	630
Eating—Doers Only															
Birth to <1	62	118	10	16	23	40	46	77	110	148	195	224	335	345	345
1 to <2	117	99	10	10	12	30	40	60	90	120	167	206	234	244	270
2 to <3	118	92	15	15	15	20	30	60	89	120	157	176	198	208	270
3 to <6	349	80	2	10	15	20	30	45	75	105	135	150	180	218	265
6 to <11	480	67	5	10	10	15	20	40	60	90	115	140	157	179	255
11 to <16	432	56	2	5	7	10	20	30	50	75	100	125	148	163	205
16 to <21	426	59	2	5	9	10	15	30	45	75	105	144	197	210	630
Attending School Full-Time—Whole Population															
Birth to <1	63	11	0	0	0	0	0	0	0	0	0	0	83	265	550
1 to <2	118	28	0	0	0	0	0	0	0	0	0	204	546	594	665
2 to <3	118	65	0	0	0	0	0	0	0	0	334	502	564	618	710
3 to <6	357	73	0	0	0	0	0	0	0	0	392	510	558	581	630
6 to <11	497	183	0	0	0	0	0	0	0	390	435	460	525	570	645
11 to <16	466	187	0	0	0	0	0	0	0	409	445	464	487	500	595
16 to <21	481	117	0	0	0	0	0	0	0	270	408	445	489	551	825
Attending School Full-Time—Doers Only															
Birth to <1	3	-	60	-	-	-	-	-	-	-	-	-	-	-	550
1 to <2	9	-	20	-	-	-	-	-	-	-	-	-	-	-	665
2 to <3	20	385	20	37	53	103	119	226	458	520	576	632	679	694	710
3 to <6	71	366	30	37	66	128	165	203	395	510	558	583	615	627	630
6 to <11	234	389	60	125	164	211	311	370	390	425	460	497	570	600	645
11 to <16	217	401	10	86	108	270	343	385	415	440	467	485	505	548	595
16 to <21	162	347	20	46	78	126	195	270	370	420	459	519	567	609	825

Chapter 16—Activity Factors

Table 16-25. Time Spent (minutes/day) in Selected Activities Whole Population and Doers Only, Children <21 Years (continued)

Age (years)	N	Mean	Min	Percentiles											Max
				1	2	5	10	25	50	75	90	95	98	99	
Outdoor Recreation—Whole Population															
Birth to <1	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 to <2	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 to <3	118	4	0	0	0	0	0	0	0	0	0	0	15	28	370
3 to <6	357	6	0	0	0	0	0	0	0	0	0	0	60	172	630
6 to <11	497	7	0	0	0	0	0	0	0	0	0	0	142	226	574
11 to <16	466	6	0	0	0	0	0	0	0	0	0	0	142	191	465
16 to <21	481	6	0	0	0	0	0	0	0	0	0	0	103	189	570
Outdoor Recreation—Doers Only															
Birth to <1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to <2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 to <3	4	-	15	-	-	-	-	-	-	-	-	-	-	-	370
3 to <6	11	207	30	30	30	30	30	60	150	240	585	608	621	626	630
6 to <11	17	204	60	60	60	60	66	120	165	245	351	403	506	540	574
11 to <16	22	138	5	5	5	5	11	60	126	180	234	411	446	456	465
16 to <21	13	228	30	35	41	57	77	130	180	300	420	480	534	552	570
Active Sports—Whole Population															
Birth to <1	63	15	0	0	0	0	0	0	0	0	60	90	131	143	155
1 to <2	118	20	0	0	0	0	0	0	0	0	68	131	180	201	270
2 to <3	118	27	0	0	0	0	0	0	0	0	110	180	257	319	390
3 to <6	357	40	0	0	0	0	0	0	0	30	135	242	330	408	630
6 to <11	497	51	0	0	0	0	0	0	0	60	172	272	371	435	975
11 to <16	466	53	0	0	0	0	0	0	0	74	168	245	309	425	1,065
16 to <21	481	35	0	0	0	0	0	0	0	0	145	180	285	386	565
Active Sports—Doers Only															
Birth to <1	13	75	25	26	26	28	31	40	60	90	132	143	150	153	155
1 to <2	24	96	10	15	19	30	33	60	73	131	180	201	240	255	270
2 to <3	26	124	15	18	20	26	30	41	98	179	253	314	360	375	390
3 to <6	97	149	15	20	29	30	30	60	120	180	315	354	559	625	630
6 to <11	175	146	2	12	15	20	30	60	110	193	312	393	450	522	975
11 to <16	179	137	5	5	15	15	30	60	115	180	261	314	442	533	1,065
16 to <21	117	143	5	15	15	20	30	60	120	180	272	371	501	519	565
Exercise—Whole Population															
Birth to <1	63	13	0	0	0	0	0	0	0	0	0	0	122	354	670
1 to <2	118	2	0	0	0	0	0	0	0	0	0	0	25	30	150
2 to <3	118	1	0	0	0	0	0	0	0	0	0	0	0	0	60
3 to <6	357	3	0	0	0	0	0	0	0	0	0	0	0	54	525
6 to <11	497	5	0	0	0	0	0	0	0	0	0	0	100	137	450
11 to <16	466	5	0	0	0	0	0	0	0	0	0	0	30	70	245
16 to <21	481	8	0	0	0	0	0	0	0	0	0	60	151	176	300
Exercise—Doers Only															
Birth to <1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to <2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 to <3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 to <6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 to <11	20	124	15	17	19	25	30	60	100	146	226	284	384	417	450
11 to <16	28	75	20	21	23	27	30	42	60	101	128	148	194	219	245
16 to <21	41	99	15	15	15	25	30	40	90	145	180	240	260	280	300

Table 16-25. Time Spent (minutes/day) in Selected Activities Whole Population and Doers Only, Children <21 Years (continued)

Age (years)	N	Mean	Min	Percentiles											Max
				1	2	5	10	25	50	75	90	95	98	99	
Walking—Whole Population															
Birth to <1	63	6	0	0	0	0	0	0	0	0	9.2	29	64	104	160
1 to <2	118	2	0	0	0	0	0	0	0	0	0	10	40	58	60
2 to <3	118	3	0	0	0	0	0	0	0	0	10	17	45	54	60
3 to <6	357	3	0	0	0	0	0	0	0	0	4	20	35	60	60
6 to <11	497	4	0	0	0	0	0	0	0	0	14	30	40	55	170
11 to <16	466	10	0	0	0	0	0	0	0	0	30	55	79	130	190
16 to <21	481	8	0	0	0	0	0	0	0	0	20	45	90	127	410
Walking—Doers Only															
Birth to <1	9	-	4	-	-	-	-	-	-	-	-	-	-	-	160
1 to <2	9	-	4	-	-	-	-	-	-	-	-	-	-	-	60
2 to <3	19	19	1	1	1	2	2	7	10	28	51	56	58	59	60
3 to <6	44	20	1	1	1	1	2	5	15	30	56	60	60	60	60
6 to <11	118	18	1	1	1	2	2	5	10	25	40	51	65	94	170
11 to <16	190	25	1	1	1	2	3	5	14	30	60	78	134	154	190
16 to <21	128	30	1	1	2	2	3	5	18	32	62	120	148	175	410

N = Sample size.
 Min = Minimum.
 Max = Maximum.
 - = Percentiles were not calculated for sample sizes less than 10.

Source: U.S. EPA re-analysis of source data from U.S. EPA (1996).

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only

		Sleeping/Napping															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles									
								5	25	50	75	90	95	98	99		
All		9,362	526.3	134.4	1.4	30	1,430	345	445	510	600	690	760	850	925		
Sex	Male	4,283	523.3	135.2	2.1	30	1,295	330	435	510	600	690	765	860	925		
Sex	Female	5,075	528.7	133.7	1.8	30	1,430	350	450	510	600	690	750	840	925		
Sex	Refused	4	645.0	123.7	61.8	540	780	540	540	630	750	780	780	780	780		
Age (years)	-	185	502.3	125.4	9.2	195	908	330	420	480	555	655	745	865	900		
Age (years)	1 to 4	499	732.4	124.3	5.6	270	1,320	540	655	720	810	900	930	1,005	1,110		
Age (years)	5 to 11	702	625.1	100.7	3.8	120	1,110	480	570	630	680	725	780	840	875		
Age (years)	12 to 17	588	563.7	110.8	4.6	150	1,015	395	484	550	630	705	750	810	900		
Age (years)	18 to 64	6,041	496.9	123.0	1.6	30	1,420	330	420	480	555	630	705	780	868		
Age (years)	>64	1,347	517.1	117.5	3.2	30	1,430	345	450	510	570	660	720	780	860		
Race	White	7,576	523.6	129.5	1.5	30	1,430	350	445	510	600	690	750	840	900		
Race	Black	940	541.3	162.7	5.3	60	1,415	315	424	530	630	738	823	940	1,020		
Race	Asian	156	537.1	118.1	9.5	300	920	345	468	540	600	690	735	840	870		
Race	Some Others	181	528.8	142.3	10.6	60	905	300	420	525	630	720	769	810	842		
Race	Hispanic	383	538.0	148.9	7.6	60	1,125	315	450	540	630	720	765	870	930		
Race	Refused	126	523.4	143.7	12.8	180	1,140	330	420	510	600	720	780	870	930		
Hispanic	No	8,514	525.2	133.2	1.4	30	1,430	345	445	510	600	690	750	855	925		
Hispanic	Yes	700	540.1	147.1	5.6	60	1,125	320	450	540	630	720	778	843	915		
Hispanic	DK	45	527.5	139.3	20.8	195	842	345	420	515	659	690	710	842	842		
Hispanic	Refused	103	521.6	138.9	13.7	240	930	330	420	510	590	720	780	865	870		
Employment	-	1,771	636.6	128.5	3.1	120	1,320	440	555	630	705	802	860	930	975		
Employment	Full Time	4,085	487.2	118.9	1.9	30	1,420	325	420	480	540	628	685	770	840		
Employment	Part Time	798	502.8	117.4	4.2	60	1,005	330	435	495	570	645	720	780	860		
Employment	Not Employed	2,638	520.3	125.5	2.4	30	1,430	345	450	510	590	660	720	800	885		
Employment	Refused	70	513.7	136.5	16.3	210	930	320	420	490	570	697	780	900	930		
Education	-	1,966	625.6	134.0	3.0	120	1,420	420	540	628	699	790	855	926	975		
Education	< High School	832	515.4	135.7	4.7	30	1,317	300	435	510	585	670	750	860	900		
Education	High School Graduate	2,604	505.4	123.0	2.4	30	1,430	330	420	495	570	659	720	780	840		
Education	< College	1,791	496.6	119.9	2.8	60	1,350	315	420	480	565	630	690	779	845		
Education	College Graduate	1,245	492.5	117.6	3.3	75	1,404	330	420	480	540	629	690	775	900		
Education	Post Graduate	924	486.7	110.4	3.6	105	1,295	345	420	480	540	615	660	725	800		
Census Region	Northeast	2,068	523.1	133.7	2.9	55	1,420	345	435	510	600	690	760	860	930		
Census Region	Midwest	2,096	520.8	127.6	2.8	30	1,215	330	440	510	598	690	745	840	870		
Census Region	South	3,234	529.0	135.7	2.4	30	1,430	345	450	510	600	699	765	855	925		
Census Region	West	1,964	530.9	140.0	3.2	60	1,404	345	450	510	600	690	769	862	940		
Day Of Week	Weekday	6,303	511.1	131.8	1.7	30	1,430	330	420	495	570	670	745	840	920		
Day Of Week	Weekend	3,059	557.5	134.4	2.4	30	1,420	360	480	540	630	720	780	870	925		
Season	Winter	2,514	534.9	134.7	2.7	55	1,404	355	450	520	600	700	780	870	930		
Season	Spring	2,431	526.8	130.5	2.6	30	1,175	345	445	510	600	690	750	840	900		
Season	Summer	2,533	527.7	139.5	2.8	30	1,430	330	435	510	600	699	765	840	930		
Season	Fall	1,884	512.2	131.1	3.0	60	1,420	330	430	505	570	660	735	840	900		
Asthma	No	8,608	525.1	133.6	1.4	30	1,430	345	445	510	600	690	750	840	915		
Asthma	Yes	692	540.1	143.6	5.5	30	1,404	330	450	538	618	715	780	900	945		
Asthma	DK	62	544.2	141.0	17.9	300	1,035	330	465	535	600	720	780	930	1,035		
Angina	No	9,039	526.8	134.2	1.4	30	1,420	345	445	510	600	690	760	855	925		
Angina	Yes	249	513.7	137.7	8.7	60	1,430	300	445	510	595	660	735	795	845		
Angina	DK	74	511.4	146.3	17.0	30	930	300	420	510	600	720	780	840	930		
Bronchitis/Emphysema	No	8,860	526.5	134.3	1.4	30	1,430	345	445	510	600	690	760	850	924		
Bronchitis/Emphysema	Yes	432	521.7	138.5	6.7	80	1,110	300	420	510	600	705	765	840	930		
Bronchitis/Emphysema	DK	70	521.2	131.9	15.8	210	930	300	450	510	600	690	745	840	930		

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

Eating or Drinking															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		8,627	74.9	54.8	0.6	1	900	15	35	60	96	140	175	215	270
Sex	Male	3,979	75.8	56.2	0.9	1	900	15	39	60	96	140	180	210	270
Sex	Female	4,644	74.1	53.6	0.8	2	640	15	34	60	98	140	170	225	270
Sex	Refused	4	60.0	21.2	10.6	30	75	30	45	68	75	75	75	75	75
Age (years)	-	157	75.3	50.1	4.0	10	315	15	30	65	100	145	150	195	285
Age (years)	1 to 4	492	93.5	52.9	2.4	2	345	20	60	90	120	160	190	225	270
Age (years)	5 to 11	680	68.5	39.0	1.5	5	255	15	40	65	90	120	143	165	195
Age (years)	12 to 17	538	55.9	35.0	1.5	2	210	10	30	50	75	105	125	150	170
Age (years)	18 to 64	5,464	71.9	55.1	0.7	1	900	15	30	60	90	135	170	220	270
Age (years)	>64	1,296	91.7	62.7	1.7	5	750	20	50	80	120	165	200	270	295
Race	White	7,049	77.0	55.7	0.7	1	900	15	40	64	100	145	180	225	270
Race	Black	808	59.9	46.6	1.6	2	505	15	30	50	75	119	140	200	225
Race	Asian	148	80.4	47.8	3.9	2	305	15	45	73	107	150	160	200	200
Race	Some Others	168	66.0	52.1	4.0	7	525	15	30	60	83	120	135	190	200
Race	Hispanic	345	68.7	51.9	2.8	2	435	12	30	60	90	125	165	195	225
Race	Refused	109	74.2	60.8	5.8	8	410	20	30	60	90	130	180	290	315
Hispanic	No	7,861	75.6	55.2	0.6	1	900	15	35	60	100	140	175	220	270
Hispanic	Yes	639	68.3	50.2	2.0	2	435	15	30	60	90	120	155	195	225
Hispanic	DK	41	60.4	37.1	5.8	5	150	15	30	55	90	120	130	150	150
Hispanic	Refused	86	68.9	55.5	6.0	8	410	15	30	60	90	115	155	210	410
Employment	-	1,695	72.2	44.9	1.1	2	345	15	40	65	90	133	150	195	210
Employment	Full Time	3,684	70.6	55.1	0.9	1	900	15	30	60	90	135	165	225	270
Employment	Part Time	715	72.2	55.4	2.1	2	509	15	30	60	90	135	170	230	260
Employment	Not Employed	2,472	83.9	59.1	1.2	2	750	15	45	75	110	150	185	235	285
Employment	Refused	61	71.0	61.0	7.8	8	385	15	30	55	90	120	145	235	385
Education	-	1,867	70.9	45.4	1.1	2	375	15	38	60	90	130	150	190	210
Education	< High School	758	72.3	57.4	2.1	2	460	15	30	60	90	135	180	230	315
Education	High School Graduate	2,363	74.9	57.1	1.2	1	900	15	35	60	96	140	175	220	270
Education	< College	1,612	73.9	56.5	1.4	2	525	15	30	60	90	145	175	230	275
Education	College Graduate	1,160	78.5	55.4	1.6	1	640	15	40	65	105	145	180	220	265
Education	Post Graduate	867	82.8	59.7	2.0	2	750	15	40	70	110	150	185	240	270
Census Region	Northeast	1,916	78.3	59.2	1.4	1	750	15	37	65	103	145	180	240	285
Census Region	Midwest	1,928	75.8	51.4	1.2	1	435	15	40	64	100	140	175	210	255
Census Region	South	2,960	71.4	55.1	1.0	2	900	15	30	60	90	135	165	210	270
Census Region	West	1,823	76.0	53.0	1.2	2	500	15	35	60	100	150	180	210	240
Day Of Week	Weekday	5,813	71.2	52.0	0.7	1	900	15	33	60	90	130	165	210	250
Day Of Week	Weekend	2,814	82.5	59.5	1.1	2	630	15	40	70	110	150	190	240	297
Season	Winter	2,332	76.1	56.4	1.2	2	640	15	39	65	96	140	175	240	275
Season	Spring	2,222	76.3	55.2	1.2	1	630	15	35	60	100	145	178	220	275
Season	Summer	2,352	73.5	53.3	1.1	1	750	15	35	60	95	135	170	210	260
Season	Fall	1,721	73.3	54.3	1.3	2	900	15	30	60	95	140	175	210	232
Asthma	No	7,937	75.2	54.8	0.6	1	900	15	35	60	100	140	175	215	270
Asthma	Yes	635	71.4	55.0	2.2	2	460	15	30	60	90	133	170	225	285
Asthma	DK	55	69.3	56.6	7.6	8	335	15	30	60	90	120	210	215	335
Angina	No	8,318	74.6	54.4	0.6	1	900	15	35	60	95	140	175	210	265
Angina	Yes	243	85.0	63.5	4.1	2	500	15	45	75	115	160	180	285	330
Angina	DK	66	75.7	67.3	8.3	5	435	15	30	60	90	150	195	215	435
Bronchitis/Emphysema	No	8,169	74.7	54.3	0.6	1	900	15	35	60	95	140	170	210	260
Bronchitis/Emphysema	Yes	397	80.7	65.2	3.3	2	460	15	30	60	110	150	180	285	360
Bronchitis/Emphysema	DK	61	67.0	47.7	6.1	8	230	15	30	60	90	120	155	215	230

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)															
Working in a Main Job															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		3,259	475.9	179.1	3.1	1	1,440	120	395	500	570	660	740	840	930
Sex	Male	1,733	492.3	187.0	4.5	1	1,440	120	417	510	595	690	770	890	955
Sex	Female	1,526	457.3	167.7	4.3	2	1,440	120	390	485	543	620	690	785	850
Age (years)	-	80	472.4	183.3	20.5	5	940	118	378	483	560	673	850	900	940
Age (years)	1 to 4	3	16.7	11.5	6.7	10	30	10	10	10	30	30	30	30	30
Age (years)	5 to 11	10	150.4	185.8	58.8	2	550	2	10	68	264	448	550	550	550
Age (years)	12 to 17	38	293.2	180.7	29.3	5	840	15	185	269	390	510	675	840	840
Age (years)	18 to 64	2,993	484.8	173.1	3.2	1	1,440	140	420	505	570	660	745	840	930
Age (years)	>64	135	366.1	208.7	18.0	5	990	30	185	395	500	600	660	840	940
Race	White	2,630	477.5	179.0	3.5	1	1,440	120	400	500	570	660	735	845	933
Race	Black	343	466.6	176.0	9.5	5	1,037	105	390	490	550	655	735	880	990
Race	Asian	57	464.1	177.3	23.5	5	870	45	390	493	553	660	750	780	870
Race	Some Others	56	477.4	181.7	24.3	45	855	75	415	510	570	680	765	780	855
Race	Hispanic	125	465.9	185.3	16.6	2	840	95	360	485	580	720	750	825	840
Race	Refused	48	492.1	191.6	27.7	50	957	120	410	508	575	810	840	957	957
Hispanic	No	2,980	475.4	179.2	3.3	1	1,440	120	395	500	570	660	740	850	940
Hispanic	Yes	221	481.5	174.3	11.7	2	1,106	150	405	505	580	670	740	825	840
Hispanic	DK	12	529.6	146.2	42.2	295	757	295	425	554	610	710	757	757	757
Hispanic	Refused	46	468.5	201.3	29.7	10	860	115	350	498	585	780	818	860	860
Employment	-	47	257.9	202.8	29.6	2	840	5	65	245	390	540	625	840	840
Employment	Full Time	2,679	504.4	164.8	3.2	1	1,440	180	450	510	582	675	750	855	950
Employment	Part Time	395	364.6	159.4	8.0	5	945	80	250	365	480	540	600	675	795
Employment	Not Employed	112	270.9	216.0	20.4	4	990	9	83	245	378	600	675	795	870
Employment	Refused	26	513.6	155.5	30.5	170	840	225	440	510	570	778	790	840	840
Education	-	108	343.0	211.9	20.4	2	860	10	177	343	510	610	675	840	840
Education	< High School	217	473.5	216.7	14.7	4	1,440	85	360	485	568	710	795	940	1,080
Education	High School Graduate	1,045	482.0	180.6	5.6	1	1,440	120	405	500	565	670	765	890	979
Education	< College	795	475.6	174.0	6.2	2	1,440	140	409	495	563	648	750	825	905
Education	College Graduate	627	484.5	159.8	6.4	5	1,005	120	424	510	570	645	720	765	815
Education	Post Graduate	467	483.0	169.6	7.8	1	945	125	400	510	590	660	730	810	860
Census Region	Northeast	721	476.0	180.8	6.7	1	1,440	120	405	495	570	669	740	890	950
Census Region	Midwest	755	477.0	182.2	6.6	2	1,440	120	395	495	570	660	750	825	940
Census Region	South	1,142	478.2	176.7	5.2	1	1,440	105	405	505	570	660	735	840	900
Census Region	West	641	470.4	177.8	7.0	5	1,080	120	390	500	570	657	730	850	880
Day Of Week	Weekday	2,788	487.9	166.2	3.1	1	1,440	155	425	505	570	660	740	840	930
Day Of Week	Weekend	471	405.2	229.5	10.6	2	1,440	30	245	415	555	670	770	870	960
Season	Winter	864	475.8	172.8	5.9	5	1,440	150	390	495	570	660	735	835	900
Season	Spring	791	473.0	195.4	6.9	1	1,440	75	390	495	570	670	765	850	915
Season	Summer	910	477.2	179.9	6.0	1	1,215	120	400	500	565	670	750	890	979
Season	Fall	694	477.7	166.0	6.3	2	1,005	130	405	510	570	645	720	780	840
Asthma	No	3,042	477.0	177.0	3.2	1	1,440	120	400	500	570	660	740	840	930
Asthma	Yes	195	453.4	204.2	14.6	5	1,440	45	345	480	550	668	793	855	979
Asthma	DK	22	523.2	217.0	46.3	170	1,215	225	430	500	565	780	860	1,215	1,215
Angina	No	3,192	475.7	178.4	3.2	1	1,440	120	395	500	570	660	740	840	930
Angina	Yes	44	472.1	200.7	30.3	10	990	60	386	500	573	679	730	990	990
Angina	DK	23	507.4	230.3	48.0	80	1,215	170	430	500	565	780	860	1,215	1,215
Bronchitis/Emphysema	No	3,120	476.5	178.2	3.2	1	1,440	120	400	500	570	660	740	840	930
Bronchitis/Emphysema	Yes	116	447.0	189.4	17.6	5	985	30	368	480	558	644	720	800	855
Bronchitis/Emphysema	DK	23	535.2	226.3	47.2	170	1,215	225	430	500	600	860	875	1,215	1,215

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

Attending Full Time School																
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		884	358.5	130.3	4.4	1	840	95	300	390	435	483	550	600	640	
Sex	Male	468	369.3	123.2	5.7	20	840	120	320	390	435	485	555	595	645	
Sex	Female	416	346.4	137.1	6.7	1	710	75	263	385	430	480	535	600	628	
Age (years)	-	7	232.1	148.1	56.0	10	495	10	180	210	320	495	495	495	495	
Age (years)	1 to 4	56	365.0	199.2	26.6	20	710	30	173	428	530	595	628	665	710	
Age (years)	5 to 11	297	387.8	98.0	5.7	60	645	170	360	390	435	485	555	600	630	
Age (years)	12 to 17	271	392.3	85.0	5.2	10	605	200	375	405	435	460	485	510	555	
Age (years)	18 to 64	247	292.2	154.6	9.8	1	840	60	180	289	400	480	535	645	785	
Age (years)	>64	6	203.3	147.4	60.2	75	480	75	120	153	240	480	480	480	480	
Race	White	665	362.9	128.5	5.0	1	825	107	310	392	435	485	550	600	630	
Race	Black	92	351.8	129.6	13.5	40	710	70	287	388	433	465	526	645	710	
Race	Asian	33	346.3	156.0	24.2	90	840	120	225	365	435	500	565	840	840	
Race	Some Others	29	337.8	148.1	27.5	58	553	70	212	360	445	502	540	553	553	
Race	Hispanic	58	345.3	124.0	16.3	30	565	85	260	378	430	480	510	510	565	
Race	Refused	7	285.0	157.0	59.4	60	440	60	150	290	440	440	440	440	440	
Hispanic	No	771	359.6	130.8	4.7	1	840	100	300	390	435	483	550	600	645	
Hispanic	Yes	103	353.1	126.4	12.5	30	630	85	269	385	425	483	510	595	600	
Hispanic	DK	4	315.5	167.8	83.9	65	416	65	221	391	410	415	415	415	415	
Hispanic	Refused	6	348.3	140.6	57.4	150	445	150	185	435	440	445	445	445	445	
Employment	-	608	386.5	107.3	4.4	10	710	165	361	400	440	485	550	595	625	
Employment	Full Time	49	206.6	133.6	19.1	5	502	15	115	180	305	430	461	502	502	
Employment	Part Time	89	304.7	134.8	14.3	25	695	90	210	295	395	480	500	585	695	
Employment	Not Employed	135	325.3	161.0	13.9	1	840	60	215	340	420	500	605	785	825	
Employment	Refused	3	270.0	147.2	85.0	185	440	185	185	440	440	440	440	440	440	
Education	-	666	385.0	107.9	4.2	10	710	160	360	400	440	485	550	595	625	
Education	< High School	14	267.1	129.3	34.6	5	415	5	175	310	357	385	415	415	415	
Education	High School Graduate	54	238.5	141.1	19.2	58	785	60	125	212	330	400	480	480	785	
Education	< College	100	303.4	170.6	17.1	1	840	60	185	273	415	526	614	760	833	
Education	College Graduate	24	238.4	145.9	29.8	25	565	30	135	200	360	430	460	565	565	
Education	Post Graduate	26	302.8	144.1	28.3	10	535	95	210	300	461	500	502	535	535	
Census Region	Northeast	186	351.6	127.0	9.3	60	825	120	268	375	420	483	520	600	785	
Census Region	Midwest	200	358.1	123.9	8.8	5	645	88	308	393	425	470	528	578	602	
Census Region	South	322	373.9	139.7	7.8	10	840	60	330	405	450	500	565	625	645	
Census Region	West	176	338.3	120.5	9.1	1	630	120	263	375	410	465	540	555	600	
Day Of Week	Weekday	858	363.7	126.0	4.3	1	840	120	310	390	435	485	550	600	640	
Day Of Week	Weekend	26	189.5	158.4	31.1	15	465	20	60	120	300	460	465	465	465	
Season	Winter	302	375.1	118.5	6.8	5	695	150	330	395	440	495	550	612	640	
Season	Spring	287	353.4	133.7	7.9	10	840	90	290	390	430	475	500	570	710	
Season	Summer	125	332.4	142.1	12.7	40	630	70	217	375	425	470	550	600	600	
Season	Fall	170	357.0	132.8	10.2	1	785	120	285	380	430	510	565	605	645	
Asthma	No	784	358.0	130.7	4.7	1	840	95	295	390	435	485	550	595	630	
Asthma	Yes	96	363.0	127.9	13.1	20	695	95	334	390	428	475	540	645	695	
Asthma	DK	4	363.8	162.6	81.3	120	450	120	280	443	448	450	450	450	450	
Angina	No	875	358.6	130.5	4.4	1	840	95	300	390	435	483	550	600	640	
Angina	Yes	4	382.5	87.7	43.9	255	455	255	330	410	435	455	455	455	455	
Angina	DK	5	333.6	140.5	62.8	120	460	120	270	378	440	460	460	460	460	
Bronchitis/Emphysema	No	851	359.1	130.4	4.5	1	840	95	300	390	435	485	550	600	640	
Bronchitis/Emphysema	Yes	27	340.1	132.7	25.5	30	605	60	305	365	435	450	460	605	605	
Bronchitis/Emphysema	DK	6	357.2	121.5	49.6	120	440	120	350	397	440	440	440	440	440	

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)															
Indoor Playing															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		188	105.0	82.7	6.0	2	510	20	55	90	128	190	270	390	435
Gender	Male	65	117.0	97.1	12.0	10	510	20	60	90	135	255	300	435	510
Gender	Female	123	99.5	73.8	6.7	2	420	20	55	76	120	190	225	340	375
Age (years)	-	3	127.0	47.3	27.3	90	180	90	90	110	180	180	180	180	180
Age (years)	1 to 4	11	130.0	80.2	24.2	15	270	15	60	115	180	255	270	270	270
Age (years)	5 to 11	11	93.6	64.3	19.4	30	195	30	30	60	175	180	195	195	195
Age (years)	12 to 17	4	82.5	45.0	22.5	30	120	30	45	90	120	120	120	120	120
Age (years)	18 to 64	149	103.0	86.0	7.1	2	510	20	55	76	120	190	292	420	435
Age (years)	> 64	10	124.0	76.4	24.2	20	270	20	75	100	150	248	270	270	270
Race	White	153	110.0	84.3	6.8	2	510	20	60	90	130	190	270	390	435
Race	Black	13	95.0	84.8	23.5	15	255	15	30	60	180	220	255	255	255
Race	Asian	5	71.0	56.8	25.4	10	150	10	30	60	105	150	150	150	150
Race	Some Others	7	108.0	96.5	36.5	30	300	30	55	60	175	300	300	300	300
Race	Hispanic	8	68.4	46.4	16.4	42	180	42	45	50	68	180	180	180	180
Race	Refused	2	64.0	65.1	46.0	18	110	18	18	64	110	110	110	110	110
Hispanic	No	172	107.0	83.9	6.4	2	510	20	60	90	133	190	270	390	435
Hispanic	Yes	15	88.1	71.4	18.4	42	300	42	45	60	100	180	300	300	300
Hispanic	Refused	1	110.0	-	-	110	110	110	110	110	110	110	110	110	110
Employment	-	26	108.0	69.9	13.7	15	270	30	55	105	160	195	255	270	270
Employment	Full Time	74	102.0	95.0	11.0	2	510	15	45	70	125	195	300	435	510
Employment	Part Time	20	124.0	74.0	16.6	30	340	36	60	120	165	200	280	340	340
Employment	Not Employed	68	102.0	76.0	9.2	15	420	30	60	85	120	180	245	390	420
Education	-	27	108.0	68.6	13.2	15	270	30	55	110	160	195	255	270	270
Education	< High School	16	89.4	58.8	14.7	20	220	20	53	60	125	180	220	220	220
Education	High School Graduate	59	102.0	83.6	10.9	2	435	20	55	75	135	180	340	375	435
Education	< College	33	112.0	97.7	17.0	10	510	20	55	90	120	190	300	510	510
Education	College Graduate	37	125.0	96.1	15.8	15	420	15	60	105	155	270	390	420	420
Education	Post Graduate	16	72.5	40.4	10.1	10	150	10	38	65	103	120	150	150	150
Census Region	Northeast	46	110.0	94.4	13.9	2	420	20	60	75	120	245	375	420	420
Census Region	Midwest	40	111.0	75.8	12.0	15	340	18	50	95	175	193	256	340	340
Census Region	South	64	100.0	73.0	9.1	10	435	30	53	88	128	180	225	270	435
Census Region	West	38	102.0	92.2	15.0	10	510	18	60	60	120	180	300	510	510
Day Of Week	Weekday	128	99.4	71.0	6.3	2	435	20	55	90	120	180	245	300	340
Day Of Week	Weekend	60	118.0	13.0	13.3	15	510	30	60	90	150	245	383	420	510
Season	Winter	49	130.0	99.2	14.2	18	420	20	60	105	180	300	375	420	420
Season	Spring	36	85.7	55.7	9.3	2	270	20	45	78	113	155	180	270	270
Season	Summer	47	92.7	77.0	11.2	10	435	30	45	60	120	180	195	435	435
Season	Fall	56	107.0	82.7	11.0	10	510	15	60	90	128	195	255	270	510
Asthma	No	174	107.0	84.1	6.4	2	510	20	55	90	130	190	270	390	435
Asthma	Yes	13	88.5	66.4	18.4	20	245	20	30	75	120	180	245	245	245
Asthma	DK	1	110.0	-	-	110	110	110	110	110	110	110	110	110	110
Angina	No	184	104.0	80.7	6.0	2	510	20	55	90	123	190	270	375	435
Angina	Yes	3	210.0	167.0	96.4	60	390	60	60	180	390	390	390	390	390
Angina	DK	1	110.0	-	-	110	110	110	110	110	110	110	110	110	110
Bronchitis/emphysema	No	177	107.0	83.5	6.3	2	510	20	60	90	130	190	270	390	435
Bronchitis/emphysema	Yes	10	80.1	72.5	22.9	10	245	10	30	60	76	208	245	245	245
Bronchitis/emphysema	DK	1	110.0	-	-	110	110	110	110	110	110	110	110	110	110

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

Traveling on a Bicycle/Skate Board/Rollerskate																
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		115	45.1	53.4	5.1	1	400	5	11	30	60	102	151	195	205	
Gender	Male	82	43.2	56.1	6.2	1	400	5	10	28	50	90	120	195	400	
Gender	Female	33	49.9	46.2	8.0	5	205	5	15	45	60	105	165	205	205	
Age (years)	-	2	15.0	7.1	5.0	10	20	10	10	15	20	20	20	20	20	
Age (years)	1 to 4	2	20.0	14.1	10.0	10	30	10	10	20	30	30	30	30	30	
Age (years)	5 to 11	18	40.3	53.0	12.5	1	195	1	10	15	55	151	195	195	195	
Age (years)	12 to 17	33	32.0	27.9	4.9	2	115	5	10	25	45	65	102	115	115	
Age (years)	18 to 64	53	53.2	62.9	8.6	5	400	5	20	30	65	105	165	180	400	
Age (years)	> 64	7	74.0	67.3	25.4	23	205	23	25	35	110	205	205	205	205	
Race	White	98	46.7	56.9	5.7	1	400	5	11	30	60	110	165	205	400	
Race	Black	7	41.1	21.7	8.2	5	65	5	25	50	60	65	65	65	65	
Race	Asian	2	6.0	1.4	1.0	5	7	5	5	6	7	7	7	7	7	
Race	Some Others	4	47.5	23.6	11.8	30	80	30	30	40	65	80	80	80	80	
Race	Hispanic	3	33.3	25.2	14.5	10	60	10	10	30	60	60	60	60	60	
Race	Refused	1	20.0	-	-	20	20	20	20	20	20	20	20	20	20	
Hispanic	No	106	45.9	55.2	5.4	1	400	5	10	30	60	105	151	195	205	
Hispanic	Yes	8	38.4	23.3	8.2	10	80	10	24	30	55	80	80	80	80	
Hispanic	Refused	1	20.0	-	-	20	20	20	20	20	20	20	20	20	20	
Employment	-	52	33.8	38.3	5.3	1	195	2	10	20	48	65	115	151	195	
Employment	Full Time	27	56.9	76.9	14.8	5	400	5	15	30	60	115	120	400	400	
Employment	Part Time	7	40.9	24.8	9.4	10	90	10	30	35	46	90	90	90	90	
Employment	Not Employed	27	55.5	54.3	10.4	5	205	5	20	30	90	165	180	205	205	
Employment	Refused	2	55.0	49.5	35.0	20	90	20	20	55	90	90	90	90	90	
Education	-	56	33.4	36.9	4.9	1	195	2	10	20	45	65	115	151	195	
Education	< High School	3	98.3	77.8	44.9	25	180	25	25	90	180	180	180	180	180	
Education	High School Graduate	18	41.6	49.0	11.6	5	205	5	15	30	46	100	205	205	205	
Education	< College	18	42.9	35.0	8.3	5	120	5	20	30	60	115	120	120	120	
Education	College Graduate	11	89.8	111.3	33.6	15	400	15	25	53	90	165	400	400	400	
Education	Post Graduate	9	57.2	38.4	12.8	5	110	5	20	60	90	110	110	110	110	
Census Region	Northeast	20	42.1	35.1	7.8	5	102	5	10	33	78	95	101	102	102	
Census Region	Midwest	24	39.1	47.5	9.7	2	180	5	10	19	58	90	165	180	180	
Census Region	South	26	64.7	87.0	17.1	1	400	2	15	33	75	195	205	400	400	
Census Region	West	45	38.4	32.6	4.9	5	151	5	18	30	50	80	115	151	151	
Day Of Week	Weekday	83	44.6	56.0	6.2	5	400	5	15	30	60	90	151	205	400	
Day Of Week	Weekend	32	46.5	46.5	8.2	1	195	2	10	33	75	110	120	195	195	
Season	Winter	20	38.6	45.0	10.1	1	205	4	13	28	48	75	148	205	205	
Season	Spring	46	34.8	35.0	5.2	5	195	5	10	23	46	80	90	195	195	
Season	Summer	34	61.7	72.2	12.4	2	400	5	20	43	90	115	165	400	400	
Season	Fall	15	47.9	55.7	14.4	2	180	2	10	20	75	151	180	180	180	
Asthma	No	95	48.5	57.2	5.9	1	400	5	15	30	60	110	165	205	400	
Asthma	Yes	18	29.3	24.2	5.7	5	90	5	7	33	40	60	90	90	90	
Asthma	DK	2	25.0	7.1	5.0	20	30	20	20	25	30	30	30	30	30	
Angina	No	114	45.3	53.5	5.0	1	400	5	11	30	60	102	151	195	205	
Angina	DK	1	20.0	-	-	20	20	20	20	20	20	20	20	20	20	
Bronchitis/Emphysema	No	109	45.1	53.9	5.2	1	400	5	15	30	60	102	151	195	205	
Bronchitis/Emphysema	Yes	5	50.0	49.6	22.2	5	115	5	10	30	90	115	115	115	115	
Bronchitis/Emphysema	DK	1	20.0	-	-	20	20	20	20	20	20	20	20	20	20	

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)															
Outdoor Recreation															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		253	211.2	185.5	11.7	5	1,440	20	60	165	300	480	574	670	690
Sex	Male	140	231.8	207.4	17.5	5	1,440	18	68	177	330	503	600	690	735
Sex	Female	112	183.7	150.2	14.2	5	645	20	60	150	255	380	525	585	630
Sex	Refused	1	420.0	-	-	420	420	420	420	420	420	420	420	420	420
Age (years)	-	2	337.5	201.5	142.5	195	480	195	195	338	480	480	480	480	480
Age (years)	1 to 4	13	166.5	177.1	49.1	15	630	15	30	130	180	370	630	630	630
Age (years)	5 to 11	21	206.1	156.2	34.1	30	585	60	90	165	245	360	574	585	585
Age (years)	12 to 17	27	155.1	128.3	24.7	5	465	5	60	135	225	420	420	465	465
Age (years)	18 to 64	158	223.6	193.0	15.4	5	1,440	30	80	173	310	505	585	690	690
Age (years)	>64	32	211.1	206.6	36.5	5	735	5	30	171	375	495	600	735	735
Race	White	225	209.8	182.7	12.2	5	1,440	20	60	165	300	460	570	670	690
Race	Black	16	233.9	231.3	57.8	5	690	5	43	150	450	585	690	690	690
Race	Asian	3	203.3	262.2	151.4	30	505	30	30	75	505	505	505	505	505
Race	Some Others	2	327.5	130.8	92.5	235	420	235	235	328	420	420	420	420	420
Race	Hispanic	4	77.5	53.9	27.0	20	150	20	43	70	113	150	150	150	150
Race	Refused	3	308.3	209.4	120.9	180	550	180	180	195	550	550	550	550	550
Hispanic	No	238	211.8	187.1	12.1	5	1,440	20	60	165	300	480	585	690	690
Hispanic	Yes	12	175.5	149.1	43.0	15	511	15	70	150	255	340	511	511	511
Hispanic	Refused	3	308.3	209.4	120.9	180	550	180	180	195	550	550	550	550	550
Employment	-	60	177.1	150.0	19.4	5	630	13	60	148	230	395	520	585	630
Employment	Full Time	104	210.7	153.4	15.0	5	670	30	83	180	294	419	511	600	645
Employment	Part Time	19	205.3	204.0	46.8	30	690	30	60	150	180	570	690	690	690
Employment	Not Employed	68	244.4	245.0	29.7	5	1,440	15	60	180	375	525	690	735	1,440
Employment	Refused	2	187.5	10.6	7.5	180	195	180	180	188	195	195	195	195	195
Education	-	64	176.7	145.3	18.2	5	630	15	60	153	225	370	465	585	630
Education	< High School	22	259.4	178.0	37.9	5	600	30	105	248	380	525	600	600	600
Education	High School Graduate	59	238.2	229.0	29.8	15	1,440	20	90	175	310	511	670	690	1,440
Education	< College	54	218.1	172.2	23.4	5	690	25	65	173	345	460	550	570	690
Education	College Graduate	31	224.7	193.1	34.7	20	690	30	60	150	325	505	645	690	690
Education	Post Graduate	23	157.6	178.2	37.2	5	735	10	50	80	200	370	480	735	735
Census Region	Northeast	52	189.6	160.9	22.3	5	690	30	60	163	232	370	574	670	690
Census Region	Midwest	54	212.1	228.4	31.1	5	1,440	20	60	178	280	419	600	735	1,440
Census Region	South	84	217.3	175.3	19.1	5	645	15	63	150	348	495	525	600	645
Census Region	West	63	220.3	179.7	22.6	10	690	30	75	165	280	545	585	690	690
Day Of Week	Weekday	129	197.2	195.3	17.2	5	1,440	15	60	150	275	465	525	670	735
Day Of Week	Weekend	124	225.8	174.3	15.6	5	690	20	85	180	310	480	600	690	690
Season	Winter	31	196.6	165.5	29.7	5	585	5	60	165	280	440	550	585	585
Season	Spring	75	198.9	161.7	18.7	5	690	25	75	180	270	465	545	670	690
Season	Summer	102	228.2	204.2	20.2	5	1,440	30	75	180	325	459	585	690	690
Season	Fall	45	203.5	193.8	28.9	5	735	20	60	120	330	505	574	735	735
Asthma	No	232	208.2	187.7	12.3	5	1,440	20	60	159	294	480	585	690	690
Asthma	Yes	19	250.2	166.6	38.2	15	570	15	80	255	350	525	570	570	570
Asthma	DK	2	187.5	10.6	7.5	180	195	180	180	188	195	195	195	195	195
Angina	No	245	206.8	184.9	11.8	5	1,440	20	60	160	288	480	570	670	690
Angina	Yes	6	399.2	151.2	61.7	285	690	285	310	345	420	690	690	690	690
Angina	DK	2	187.5	10.6	7.5	180	195	180	180	188	195	195	195	195	195
Bronchitis/Emphysema	No	238	212.2	189.2	12.3	5	1,440	20	60	165	300	495	585	690	690
Bronchitis/Emphysema	Yes	13	196.3	122.2	33.9	5	370	5	117	160	310	340	370	370	370
Bronchitis/Emphysema	DK	2	187.5	10.6	7.5	180	195	180	180	188	195	195	195	195	195

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)															
Active Sport															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		1,384	124.0	112.8	3.0	1	1,130	15	50	90	165	267	330	435	525
Sex	Male	753	136.8	120.8	4.4	1	1,130	20	60	105	180	285	375	500	558
Sex	Female	629	108.6	100.6	4.0	1	1,065	15	38	75	150	240	300	370	435
Sex	Refused	2	142.5	38.9	27.5	115	170	115	115	143	170	170	170	170	170
Age (years)	-	23	108.7	78.6	16.4	5	290	30	40	90	155	220	225	290	290
Age (years)	1 to 4	105	115.8	98.9	9.6	10	630	30	45	90	159	250	330	345	390
Age (years)	5 to 11	247	148.9	126.6	8.1	2	975	20	60	120	188	320	390	510	558
Age (years)	12 to 17	215	137.5	124.5	8.5	5	1,065	15	60	110	180	265	375	470	520
Age (years)	18 to 64	642	120.3	110.4	4.4	1	1,130	15	45	90	160	250	330	450	525
Age (years)	>64	152	88.0	80.2	6.5	1	380	15	30	60	120	220	285	315	330
Race	White	1,139	126.0	116.2	3.4	1	1,130	15	50	90	165	270	340	452	530
Race	Black	109	113.4	96.8	9.3	5	440	10	45	86	150	240	332	430	435
Race	Asian	30	89.9	79.2	14.5	5	310	10	30	60	145	215	235	310	310
Race	Some Others	35	135.4	112.2	19.0	15	553	20	60	105	195	270	330	553	553
Race	Hispanic	59	116.3	91.3	11.9	1	520	15	45	115	145	240	305	345	520
Race	Refused	12	120.0	86.6	25.0	40	300	40	60	95	130	290	300	300	300
Hispanic	No	1,250	124.5	113.5	3.2	1	1,130	15	45	90	165	270	330	435	515
Hispanic	Yes	120	121.2	110.8	10.1	1	630	15	50	90	148	240	335	520	553
Hispanic	DK	4	113.8	57.5	28.8	60	185	60	68	105	160	185	185	185	185
Hispanic	Refused	10	102.0	72.1	22.8	40	290	40	60	83	105	215	290	290	290
Employment	-	561	137.1	120.8	5.1	2	1,065	20	60	110	180	285	370	452	558
Employment	Full Time	375	117.6	107.3	5.5	5	1,130	20	45	90	155	240	305	380	525
Employment	Part Time	87	116.2	87.6	9.4	1	450	15	60	95	160	235	285	355	450
Employment	Not Employed	352	112.5	110.0	5.9	1	600	10	30	70	150	270	330	475	520
Employment	Refused	9	99.4	77.2	25.7	30	280	30	45	90	120	280	280	280	280
Education	-	610	137.7	121.2	4.9	2	1,065	20	60	110	180	285	370	470	558
Education	< High School	86	101.0	99.7	10.8	10	570	15	30	60	135	225	270	510	570
Education	High School Graduate	233	116.8	116.8	7.7	1	1,130	20	45	85	150	240	300	420	530
Education	< College	178	115.8	100.3	7.5	1	525	15	45	90	160	270	340	418	475
Education	College Graduate	165	116.2	97.9	7.6	1	600	15	50	90	150	250	310	380	450
Education	Post Graduate	112	106.4	97.9	9.2	5	375	10	40	60	143	270	330	360	375
Census Region	Northeast	333	132.0	129.1	7.1	1	1,130	15	60	100	170	275	345	485	558
Census Region	Midwest	254	116.9	101.9	6.4	5	570	18	45	90	150	255	315	430	440
Census Region	South	479	119.5	108.7	5.0	1	975	15	45	90	160	265	330	410	462
Census Region	West	318	128.1	108.8	6.1	1	625	25	55	93	175	295	330	500	525
Day Of Week	Weekday	902	115.5	97.8	3.3	1	650	15	45	90	150	240	300	395	485
Day Of Week	Weekend	482	139.9	135.2	6.2	1	1,130	20	59	100	180	300	380	500	565
Season	Winter	316	115.6	115.2	6.5	1	1,065	15	45	85	155	240	305	370	475
Season	Spring	423	130.8	105.0	5.1	5	650	30	60	105	175	270	330	435	515
Season	Summer	425	129.5	115.1	5.6	1	625	15	45	95	178	290	375	462	530
Season	Fall	220	112.3	118.3	8.0	1	1,130	15	43	78	144	240	290	460	565
Asthma	No	1,266	122.5	109.6	3.1	1	1,130	15	45	90	162	266	330	430	515
Asthma	Yes	105	144.8	145.8	14.2	1	1,065	15	60	110	180	300	390	553	565
Asthma	DK	13	105.0	110.4	30.6	30	450	30	60	60	90	165	450	450	450
Angina	No	1,343	125.5	113.6	3.1	1	1,130	15	50	90	165	270	332	440	525
Angina	Yes	33	72.1	74.0	12.9	5	330	5	30	50	60	180	275	330	330
Angina	DK	8	86.9	41.1	14.5	40	155	40	60	75	115	155	155	155	155
Bronchitis/Emphysema	No	1,331	124.1	113.2	3.1	1	1,130	15	50	90	165	267	330	435	520
Bronchitis/Emphysema	Yes	43	130.0	112.7	17.2	10	553	30	45	110	165	270	340	553	553
Bronchitis/Emphysema	DK	10	84.0	39.8	12.6	40	155	40	60	75	105	148	155	155	155

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

		Exercise													
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		564	77.4	70.4	3.0	4	670	15	30	60	100	150	195	275	420
Sex	Male	262	84.7	75.8	4.7	5	670	20	30	60	117	165	205	285	450
Sex	Female	302	71.1	64.9	3.7	4	525	15	30	60	90	125	175	265	360
Age (years)	-	10	76.5	74.0	23.4	15	270	15	30	60	90	188	270	270	270
Age (years)	1 to 4	11	127.3	187.2	56.4	15	670	15	30	60	150	160	670	670	670
Age (years)	5 to 11	26	132.5	126.3	24.8	15	525	25	60	90	180	275	450	525	525
Age (years)	12 to 17	35	67.8	41.6	7.0	15	180	20	30	60	100	120	150	180	180
Age (years)	18 to 64	407	77.6	63.6	3.2	4	480	20	30	60	100	145	185	265	300
Age (years)	>64	75	54.9	44.5	5.1	6	195	10	25	40	70	120	150	193	195
Race	White	480	78.0	71.5	3.3	4	670	15	30	60	100	150	194	285	450
Race	Black	34	74.7	44.7	7.7	15	250	15	45	60	105	120	130	250	250
Race	Asian	10	46.3	25.0	7.9	15	95	15	30	42	60	83	95	95	95
Race	Some Others	14	80.2	73.9	19.8	30	275	30	30	48	90	179	275	275	275
Race	Hispanic	19	63.0	60.7	13.9	15	265	15	30	45	60	160	265	265	265
Race	Refused	7	128.6	130.5	49.3	30	360	30	55	60	270	360	360	360	360
Hispanic	No	516	76.9	70.1	3.1	4	670	15	30	60	99	145	193	275	420
Hispanic	Yes	38	76.6	59.5	9.7	15	265	20	30	60	110	160	250	265	265
Hispanic	DK	3	65.0	69.5	40.1	20	145	20	20	30	145	145	145	145	145
Hispanic	Refused	7	128.6	130.5	49.3	30	360	30	55	60	270	360	360	360	360
Employment	-	72	99.0	111.6	13.2	15	670	20	30	60	120	180	275	525	670
Employment	Full Time	300	72.7	55.6	3.2	5	460	20	30	60	90	130	180	240	291
Employment	Part Time	50	86.0	83.6	11.8	10	420	20	30	60	92	168	300	390	420
Employment	Not Employed	139	72.7	63.4	5.4	4	480	10	30	60	90	135	195	240	265
Employment	Refused	3	113.3	135.8	78.4	30	270	30	30	40	270	270	270	270	270
Education	-	83	102.0	111.0	12.2	15	670	25	30	60	120	205	275	525	670
Education	< High School	21	58.2	66.1	14.4	10	300	10	28	30	60	90	165	300	300
Education	High School Graduate	124	81.0	63.0	5.7	4	298	15	30	60	115	179	205	250	265
Education	< College	104	80.9	70.2	6.9	15	480	20	30	60	113	150	170	240	420
Education	College Graduate	110	73.6	62.5	6.0	5	460	20	30	60	98	130	180	285	297
Education	Post Graduate	122	60.9	38.4	3.5	5	240	15	30	60	80	110	127	165	185
Census Region	Northeast	130	88.4	77.6	6.8	10	450	15	30	60	120	200	240	297	420
Census Region	Midwest	101	63.6	44.3	4.4	10	300	15	30	60	89	115	120	170	215
Census Region	South	177	75.3	71.6	5.4	5	525	15	30	60	90	150	185	298	480
Census Region	West	156	79.6	75.3	6.0	4	670	20	30	60	104	130	183	270	460
Day Of Week	Weekday	426	73.1	63.9	3.1	4	670	15	30	60	90	130	180	240	298
Day Of Week	Weekend	138	90.8	86.6	7.4	6	525	15	30	60	120	200	265	420	460
Season	Winter	150	67.4	49.9	4.1	8	285	15	30	60	90	128	175	213	240
Season	Spring	140	74.9	55.4	4.7	10	360	18	30	60	90	148	181	220	298
Season	Summer	192	93.2	91.3	6.6	5	670	20	30	63	120	180	250	450	525
Season	Fall	82	63.3	63.3	7.0	4	460	15	30	45	75	120	135	300	460
Asthma	No	523	76.6	70.2	3.1	4	670	15	30	60	100	150	185	265	420
Asthma	Yes	37	78.2	51.5	8.5	20	275	20	45	65	100	120	200	275	275
Asthma	DK	4	175.0	167.0	83.5	10	360	10	35	165	315	360	360	360	360
Angina	No	553	77.3	69.4	2.9	4	670	15	30	60	100	145	193	265	420
Angina	Yes	7	27.3	19.6	7.4	6	60	6	10	25	45	60	60	60	60
Angina	DK	4	188.8	150.4	75.2	60	360	60	63	168	315	360	360	360	360
Bronchitis/Emphysema	No	542	77.1	69.5	3.0	4	670	15	30	60	100	145	185	265	420
Bronchitis/Emphysema	Yes	17	64.6	60.6	14.7	10	275	10	30	50	63	120	275	275	275
Bronchitis/Emphysema	DK	5	157.0	149.6	66.9	15	360	15	60	80	270	360	360	360	360

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

		Walking														
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		1,639	29.7	41.6	1.0	1	540	2	6	16	39	65	95	151	190	
Sex	Male	755	32.5	48.3	1.8	1	540	2	7	20	40	70	100	170	270	
Sex	Female	883	27.3	34.8	1.2	1	360	2	6	15	35	60	94	140	171	
Sex	Refused	1	20.0	-	-	20	20	20	20	20	20	20	20	20	20	
Age (years)	-	38	29.5	23.7	3.9	1	100	2	10	25	40	60	80	100	100	
Age (years)	1 to 4	58	24.3	26.3	3.5	1	160	2	10	15	35	60	60	70	160	
Age (years)	5 to 11	155	18.2	21.0	1.7	1	170	1	5	10	25	40	60	65	100	
Age (years)	12 to 17	223	25.8	32.4	2.2	1	190	2	6	15	30	60	100	135	151	
Age (years)	18 to 64	944	31.8	45.0	1.5	1	410	2	6	19	40	70	110	171	250	
Age (years)	>64	221	33.8	49.3	3.3	1	540	2	10	20	45	73	95	155	180	
Race	White	1,289	29.6	43.7	1.2	1	540	2	6	15	35	65	100	160	225	
Race	Black	175	34.8	39.7	3.0	1	250	2	10	20	50	75	125	160	194	
Race	Asian	36	26.6	24.7	4.1	1	100	1	10	20	30	60	78	100	100	
Race	Some Others	30	23.8	21.2	3.9	1	60	1	6	17	43	60	60	60	60	
Race	Hispanic	88	23.1	21.1	2.2	1	100	2	6	15	37	50	60	92	100	
Race	Refused	21	33.2	33.0	7.2	4	150	8	15	20	40	65	65	150	150	
Hispanic	No	1,467	29.9	41.0	1.1	1	410	2	6	16	40	65	100	155	194	
Hispanic	Yes	144	26.8	48.7	4.1	1	540	2	6	15	35	60	70	100	135	
Hispanic	DK	10	30.2	28.8	9.1	2	80	2	10	18	55	78	80	80	80	
Hispanic	Refused	18	35.7	34.8	8.2	8	150	8	15	25	55	65	150	150	150	
Employment	-	431	22.8	28.0	1.3	1	190	2	5	13	30	55	65	131	151	
Employment	Full Time	561	31.0	43.8	1.8	1	365	2	7	16	40	70	100	180	250	
Employment	Part Time	153	26.9	37.1	3.0	1	295	2	5	15	35	60	92	135	165	
Employment	Not Employed	482	35.5	49.4	2.3	1	540	2	10	20	50	75	120	150	250	
Employment	Refused	12	18.4	13.5	3.9	5	55	5	10	17	20	30	55	55	55	
Education	-	472	22.7	27.6	1.3	1	190	2	5	13	30	55	65	130	151	
Education	< High School	138	42.7	71.9	6.1	1	540	3	7	20	50	115	145	360	365	
Education	High School Graduate	366	29.3	41.6	2.2	1	410	2	5	18	35	65	100	150	240	
Education	< College	288	32.5	39.3	2.3	1	295	2	10	20	45	75	100	160	180	
Education	College Graduate	210	29.8	38.8	2.7	1	300	2	8	19	40	60	90	140	225	
Education	Post Graduate	165	34.6	44.6	3.5	1	360	2	10	20	45	80	95	180	200	
Census Region	Northeast	507	34.9	45.3	2.0	1	365	2	10	20	45	75	107	170	250	
Census Region	Midwest	321	29.3	46.9	2.6	1	540	2	6	15	31	60	105	160	180	
Census Region	South	423	25.0	37.7	1.8	1	410	2	5	10	30	60	80	135	171	
Census Region	West	388	28.2	35.0	1.8	1	285	2	8	15	40	60	90	140	180	
Day Of Week	Weekday	1,182	29.3	39.2	1.1	1	540	2	7	18	40	65	92	145	180	
Day Of Week	Weekend	457	30.7	47.4	2.2	1	410	2	5	15	35	60	120	171	200	
Season	Winter	412	32.3	47.7	2.4	1	365	2	6	20	39	75	120	180	250	
Season	Spring	459	28.9	41.5	1.9	1	540	2	6	16	35	60	90	146	180	
Season	Summer	475	26.6	31.3	1.4	1	270	2	6	15	35	60	85	123	160	
Season	Fall	293	32.2	46.7	2.7	1	410	2	8	20	45	61	105	155	295	
Asthma	No	1,504	29.6	42.0	1.1	1	540	2	6	16	36	65	95	152	190	
Asthma	Yes	120	29.7	38.3	3.5	1	250	2	5	15	40	70	118	135	150	
Asthma	DK	15	36.2	27.8	7.2	5	90	5	10	30	60	75	90	90	90	
Angina	No	1,578	29.5	41.5	1.0	1	540	2	6	16	38	65	95	151	190	
Angina	Yes	44	29.0	36.1	5.4	2	150	4	6	15	36	60	115	150	150	
Angina	DK	17	46.6	63.1	15.3	5	270	5	10	30	60	90	270	270	270	
Bronchitis/Emphysema	No	1,553	29.7	42.1	1.1	1	540	2	6	16	38	65	95	151	194	
Bronchitis/Emphysema	Yes	67	27.0	31.9	3.9	1	165	2	5	16	40	60	90	130	165	
Bronchitis/Emphysema	DK	19	35.4	31.4	7.2	3	110	3	10	30	60	90	110	110	110	

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)															
Housekeeping ^a															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		1,943	118.8	113.4	2.6	1	810	10	40	90	165	270	345	465	540
Sex	Male	370	109.4	116.5	6.1	1	810	10	30	60	150	270	360	425	560
Sex	Female	1,573	121.0	112.5	2.8	1	790	15	45	90	165	270	345	465	540
Age (years)	-	47	146.0	121.3	17.7	10	480	10	45	115	240	300	375	480	480
Age (years)	1 to 4	11	74.1	69.4	20.9	10	270	10	40	60	90	90	270	270	270
Age (years)	5 to 11	54	42.9	34.1	4.6	1	180	5	20	30	53	80	120	150	180
Age (years)	12 to 17	72	78.1	75.5	8.9	1	300	5	28	60	105	210	240	285	300
Age (years)	18 to 64	1,316	120.4	113.7	3.1	1	810	15	40	90	165	270	360	465	525
Age (years)	>64	443	128.2	118.9	5.7	3	790	10	55	90	180	270	345	540	570
Race	White	1,649	119.1	112.2	2.8	1	790	10	40	90	165	265	340	465	540
Race	Black	137	116.6	109.4	9.3	1	490	5	30	90	150	300	358	480	484
Race	Asian	32	98.8	100.5	17.8	15	425	15	30	60	128	265	345	425	425
Race	Some Others	26	82.4	56.4	11.1	5	210	15	40	60	115	185	190	210	210
Race	Hispanic	71	112.6	129.3	15.3	5	660	8	30	60	135	270	465	518	660
Race	Refused	28	189.3	176.2	33.3	10	810	20	53	148	248	420	465	810	810
Hispanic	No	1,771	117.4	110.6	2.6	1	790	10	40	90	165	265	335	425	525
Hispanic	Yes	134	121.7	129.6	11.2	5	660	10	35	85	135	270	470	540	658
Hispanic	DK	15	146.9	127.9	33.0	10	510	10	30	120	210	240	510	510	510
Hispanic	Refused	23	191.1	180.3	37.6	10	810	20	45	150	255	390	420	810	810
Employment	-	138	65.6	68.8	5.9	1	375	5	25	45	80	180	240	285	300
Employment	Full Time	673	106.6	102.4	3.9	1	655	10	30	70	145	240	325	413	490
Employment	Part Time	193	124.7	117.5	8.5	1	660	15	45	90	180	270	390	480	540
Employment	Not Employed	925	132.7	119.4	3.9	3	790	15	55	105	180	295	370	484	600
Employment	Refused	14	236.8	208.2	55.6	10	810	10	120	183	300	430	810	810	810
Education	-	171	82.2	96.9	7.4	1	810	5	30	45	105	220	270	300	375
Education	< High School	246	140.7	125.4	8.0	3	715	10	60	120	180	300	400	540	660
Education	High School Graduate	677	125.1	120.5	4.6	2	790	15	45	90	175	270	375	490	610
Education	< College	433	112.9	100.1	4.8	1	570	10	40	90	150	240	320	420	470
Education	College Graduate	245	107.3	102.2	6.5	1	585	15	30	60	150	240	328	405	465
Education	Post Graduate	171	130.8	118.0	9.0	5	655	15	60	90	180	280	390	495	540
Census Region	Northeast	464	119.2	116.4	5.4	2	790	10	35	90	165	245	330	480	655
Census Region	Midwest	413	117.9	112.6	5.5	1	715	10	34	88	165	255	345	480	525
Census Region	South	648	119.9	116.2	4.6	1	810	10	40	90	165	285	370	435	540
Census Region	West	418	117.7	106.6	5.2	5	720	15	40	90	165	255	340	420	470
Day Of Week	Weekday	1,316	113.2	111.9	3.1	1	790	10	30	75	150	255	330	470	550
Day Of Week	Weekend	627	130.6	115.6	4.6	1	810	15	55	90	180	290	370	435	525
Season	Winter	470	111.4	100.6	4.6	1	810	10	45	85	160	240	290	390	480
Season	Spring	451	122.6	114.0	5.4	3	720	15	40	90	180	270	360	465	540
Season	Summer	563	111.8	114.5	4.8	1	690	10	30	75	135	255	365	465	610
Season	Fall	459	131.3	122.4	5.7	1	790	15	45	90	180	300	390	480	560
Asthma	No	1,789	118.5	112.1	2.6	1	790	10	40	90	165	270	345	465	540
Asthma	Yes	140	115.7	115.8	9.8	5	690	10	37	67	150	278	378	470	480
Asthma	DK	14	189.3	208.6	55.7	10	810	10	45	123	255	340	810	810	810
Angina	No	1,853	117.7	112.3	2.6	1	790	13	40	90	160	265	345	465	540
Angina	Yes	75	122.9	103.8	12.0	5	394	5	30	90	210	270	320	370	394
Angina	DK	15	234.7	204.0	52.7	10	810	10	120	240	300	480	810	810	810
Bronchitis/Emphysema	No	1,816	118.1	112.9	2.7	1	790	10	40	90	160	270	355	465	540
Bronchitis/Emphysema	Yes	107	118.7	102.9	10.0	5	480	10	30	90	180	255	290	465	470
Bronchitis/Emphysema	DK	20	188.5	176.4	39.5	5	810	8	85	155	240	320	575	810	810

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

		Food Preparation													
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		4278	52.4	52.9	0.8	1	555	5	20	35	65	115	150	210	265
Gender	Male	1342	37.8	42.1	1.2	1	480	5	13	30	50	80	105	150	210
Gender	Female	2936	59.0	55.9	1.0	1	555	5	25	45	75	120	155	224	272
Age (years)	-	94	52.0	43.2	4.5	5	215	5	20	40	60	110	150	195	215
Age (years)	1 to 4	24	56.5	60.4	12.3	5	240	5	23	30	75	150	180	240	240
Age (years)	5 to 11	60	25.2	29.7	3.8	1	120	2	5	11	30	60	107	120	120
Age (years)	12 to 17	131	21.7	37.7	3.3	1	385	2	5	10	30	55	70	90	90
Age (years)	18 to 64	3173	52.1	52.9	0.9	1	555	5	20	35	65	110	145	210	265
Age (years)	> 64	796	60.5	54.7	1.9	1	525	5	25	45	80	120	150	240	270
Race	White	3584	51.6	53.3	0.9	1	555	5	19	35	65	110	145	210	265
Race	Black	377	57.0	52.3	2.7	1	390	5	20	40	75	120	150	210	240
Race	Asian	62	54.0	41.8	5.3	2	210	5	20	50	70	105	130	175	210
Race	Some Others	66	50.6	53.2	6.6	1	295	5	15	34	70	115	150	210	295
Race	Hispanic	132	58.8	49.7	4.3	2	315	5	24	53	80	110	135	225	285
Race	Refused	57	53.1	49.3	6.5	2	210	5	20	40	60	120	180	195	210
Hispanic	No	3960	51.8	52.6	0.8	1	555	5	20	35	65	111	145	205	255
Hispanic	Yes	254	59.0	56.7	3.6	2	420	5	20	45	75	120	155	240	315
Hispanic	DK	20	55.0	53.2	11.9	6	240	8	25	45	60	113	180	240	240
Hispanic	Refused	44	58.6	53.3	8.0	2	210	5	28	38	80	150	180	210	210
Employment	-	210	27.2	40.5	2.8	1	385	2	5	15	30	60	90	120	180
Employment	Full Time	1988	45.5	46.7	1.0	1	480	5	15	30	60	90	130	180	240
Employment	Part Time	419	53.9	55.4	2.7	2	520	5	20	40	65	105	125	205	255
Employment	Not Employed	1626	63.6	57.7	1.4	1	555	5	29	45	90	125	170	240	275
Employment	Refused	35	53.5	66.8	11.3	2	340	2	20	30	60	120	195	340	340
Education	-	291	31.7	42.6	2.5	1	385	2	5	15	37	75	120	155	195
Education	< High School	450	61.3	53.2	2.5	1	555	5	30	45	90	120	150	197	225
Education	High School Graduate	1449	58.8	56.7	1.5	1	520	5	22	45	75	120	155	240	310
Education	< College	954	52.0	52.2	1.7	1	525	5	20	35	65	110	150	210	245
Education	College Graduate	659	46.2	48.1	1.9	1	515	5	15	30	60	100	125	180	224
Education	Post Graduate	475	46.0	48.7	2.2	1	375	5	15	30	60	95	135	200	270
Census Region	Northeast	953	52.3	53.2	1.7	1	480	5	20	40	60	110	140	205	255
Census Region	Midwest	956	53.2	51.8	1.7	1	520	5	20	35	65	120	150	210	265
Census Region	South	1452	53.4	53.5	1.4	1	555	5	16	35	70	120	150	195	245
Census Region	West	917	49.9	52.7	1.7	1	515	5	15	31	60	105	135	225	265
Day Of Week	Weekday	2995	50.1	50.0	0.9	1	555	5	19	35	60	105	132	180	240
Day Of Week	Weekend	1283	57.7	58.8	1.6	1	420	5	20	40	75	130	180	240	300
Season	Winter	1174	50.6	48.6	1.4	1	480	5	18	35	65	110	135	195	240
Season	Spring	1038	54.4	54.5	1.7	1	525	5	20	39	70	120	150	224	265
Season	Summer	1147	51.3	54.2	1.6	1	555	5	20	35	60	110	137	208	300
Season	Fall	919	53.5	54.5	1.8	1	520	5	20	37	67	120	155	200	265
Asthma	No	3948	52.0	53.2	0.8	1	555	5	20	35	65	110	145	210	265
Asthma	Yes	300	57.1	49.4	2.9	1	272	5	21	45	75	120	160	199	240
Asthma	DK	30	47.6	44.8	8.2	2	195	5	10	33	60	118	120	195	195
Angina	No	4091	52.2	53.0	0.8	1	555	5	20	35	65	115	150	210	265
Angina	Yes	149	56.8	48.2	4.0	1	340	5	25	45	80	120	135	180	210
Angina	DK	38	54.0	60.4	9.8	2	240	2	10	33	60	120	240	240	240
Bronchitis/Emphysema	No	4024	52.0	53.1	0.8	1	555	5	20	35	65	110	145	210	265
Bronchitis/Emphysema	Yes	216	56.9	46.7	3.2	3	240	5	20	45	85	120	150	198	210
Bronchitis/Emphysema	DK	38	62.4	61.7	10.0	2	240	2	20	43	90	150	240	240	240

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)															
Food Cleanup															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		1143	33.0	40.4	1.2	1	825	8	15	30	35	60	85	120	135
Gender	Male	204	27.5	20.4	1.4	1	180	10	15	25	30	50	60	80	85
Gender	Female	939	34.2	43.4	1.4	1	825	5	15	30	35	60	90	120	150
Age (years)	-	24	31.0	28.0	5.7	10	120	10	15	30	30	60	105	120	120
Age (years)	1 to 4	5	41.6	48.0	21.5	3	120	3	15	15	55	120	120	120	120
Age (years)	5 to 11	9	28.4	21.6	7.2	1	75	1	15	30	30	75	75	75	75
Age (years)	12 to 17	28	26.8	20.6	3.9	2	90	5	13	20	30	60	65	90	90
Age (years)	18 to 64	808	31.3	27.1	1.0	1	330	10	15	30	30	60	80	120	120
Age (years)	> 64	269	38.8	67.4	4.1	1	825	5	15	30	40	60	105	130	270
Race	White	976	33.0	41.7	1.3	1	825	8	15	30	35	60	84	120	130
Race	Black	82	33.3	28.6	3.2	5	180	10	15	30	30	65	90	120	180
Race	Asian	11	27.1	22.0	6.6	3	75	3	15	15	30	60	75	75	75
Race	Some Others	17	29.7	34.8	8.4	5	150	5	10	15	30	60	150	150	150
Race	Hispanic	42	35.6	39.9	6.2	3	255	10	15	30	40	50	60	255	255
Race	Refused	15	34.0	28.2	7.3	5	90	5	10	30	60	90	90	90	90
Hispanic	No	1057	32.7	40.4	1.2	1	825	5	15	30	35	60	85	120	130
Hispanic	Yes	68	38.9	44.9	5.4	3	270	10	15	30	40	60	120	255	270
Hispanic	DK	6	24.2	9.7	4.0	10	35	10	15	28	30	35	35	35	35
Hispanic	Refused	12	26.7	18.3	5.3	5	60	5	13	25	33	60	60	60	60
Employment	-	39	28.2	25.8	4.1	1	120	2	15	15	30	65	90	120	120
Employment	Full Time	432	28.4	22.7	1.1	2	255	8	15	25	30	50	60	90	120
Employment	Part Time	134	28.9	21.3	1.8	3	150	10	15	25	30	60	60	95	100
Employment	Not Employed	528	38.2	53.8	2.3	1	825	5	15	30	45	60	105	120	250
Employment	Refused	10	28.0	21.9	6.9	10	60	10	10	18	55	60	60	60	60
Education	-	59	27.3	23.0	3.0	1	120	3	10	20	30	60	75	90	120
Education	< High School	135	41.9	58.6	5.0	2	570	5	15	30	45	85	120	180	270
Education	High School Graduate	445	33.3	45.8	2.2	1	825	10	15	30	30	60	90	120	120
Education	< College	259	33.6	30.0	1.9	5	255	10	15	30	45	60	85	105	150
Education	College Graduate	142	27.7	21.8	1.8	1	180	10	15	23	30	50	60	90	120
Education	Post Graduate	103	28.9	34.5	3.4	3	330	5	15	25	30	50	60	60	120
Census Region	Northeast	295	32.6	28.3	1.7	3	270	5	15	30	40	60	90	120	120
Census Region	Midwest	252	28.5	22.7	1.4	1	210	5	15	30	30	50	60	85	120
Census Region	South	343	35.9	52.5	2.8	1	825	10	15	30	40	65	90	120	180
Census Region	West	253	34.0	46.5	2.9	3	570	10	15	27	30	60	75	120	255
Day Of Week	Weekday	782	32.2	43.6	1.6	1	825	8	15	30	30	60	75	120	120
Day Of Week	Weekend	361	34.7	32.4	1.7	5	270	8	15	30	40	60	90	120	180
Season	Winter	303	33.2	51.8	3.0	1	825	8	15	30	30	60	85	120	120
Season	Spring	245	30.3	26.1	1.7	2	250	10	15	30	30	60	65	105	120
Season	Summer	293	33.2	29.9	1.7	2	270	5	15	30	40	60	90	120	135
Season	Fall	302	34.9	45.4	2.6	1	570	8	15	30	40	60	90	120	180
Asthma	No	1047	32.8	40.4	1.2	1	825	6	15	30	35	60	85	120	120
Asthma	Yes	91	36.0	41.0	4.3	2	255	8	15	30	40	60	90	250	255
Asthma	DK	5	26.0	20.7	9.3	10	60	10	10	20	30	60	60	60	60
Angina	No	1092	33.0	41.0	1.2	1	825	8	15	30	35	60	85	120	150
Angina	Yes	45	32.3	22.9	3.4	5	120	5	15	30	45	60	60	120	120
Angina	DK	6	43.3	41.8	17.1	10	120	10	10	30	60	120	120	120	120
Bronchitis/Emphysema	No	1065	31.8	28.2	0.9	1	330	8	15	30	35	60	80	120	120
Bronchitis/Emphysema	Yes	71	50.9	118.4	14.1	3	825	5	15	29	35	70	105	570	825
Bronchitis/Emphysema	DK	7	38.1	41.1	15.5	2	120	2	10	30	60	120	120	120	120

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

Cleaning House															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		1910	114.8	111.7	2.6	1	810	10	30	80	150	255	335	465	525
Gender	Male	351	100.4	110.4	5.9	1	810	10	30	60	120	240	310	400	495
Gender	Female	1559	118.1	111.7	2.8	1	790	15	40	90	160	255	340	465	540
Age (years)	-	45	136.2	114.1	17.0	10	480	10	55	105	180	297	320	480	480
Age (years)	1 to 4	11	74.1	69.4	20.9	10	270	10	40	60	90	90	270	270	270
Age (years)	5 to 11	49	42.6	35.2	5.0	1	180	5	20	30	53	90	120	180	180
Age (years)	12 to 17	67	78.7	79.4	9.7	1	300	5	20	55	105	240	240	285	300
Age (years)	18 to 64	1307	115.6	111.6	3.1	1	810	15	30	85	150	270	350	435	510
Age (years)	> 64	431	125.1	118.3	5.7	3	790	10	45	90	170	250	340	540	570
Race	White	1614	115.9	111.3	2.8	1	790	10	35	85	155	255	330	435	540
Race	Black	139	108.7	106.8	9.1	1	490	5	30	80	135	270	358	480	484
Race	Asian	32	97.7	101.1	17.9	15	425	15	30	60	128	265	345	425	425
Race	Some Others	26	80.5	58.1	11.4	5	210	10	35	60	115	185	190	210	210
Race	Hispanic	73	99.8	110.7	13.0	5	548	10	30	60	120	210	345	470	548
Race	Refused	26	179.6	176.9	34.7	10	810	20	30	135	240	390	465	810	810
Hispanic	No	1740	114.2	110.0	2.6	1	790	10	30	80	150	255	330	435	525
Hispanic	Yes	134	110.1	115.8	10.0	5	658	10	34	60	135	240	360	480	548
Hispanic	DK	14	136.1	131.6	35.2	10	510	10	30	93	210	240	510	510	510
Hispanic	Refused	22	180.7	177.3	37.8	10	810	20	45	138	240	340	390	810	810
Employment	-	128	64.5	66.8	5.9	1	300	5	23	45	78	180	240	270	285
Employment	Full Time	673	100.9	99.9	3.8	1	655	10	30	60	120	240	310	410	480
Employment	Part Time	195	119.4	115.6	8.3	1	660	15	45	85	175	265	390	480	540
Employment	Not Employed	901	129.6	118.0	3.9	3	790	15	50	95	180	285	360	480	570
Employment	Refused	13	235.0	218.9	60.7	10	810	10	120	180	255	450	810	810	810
Education	-	161	81.4	98.1	7.7	1	810	5	28	45	100	225	265	300	375
Education	< High School	234	135.7	121.6	8.0	3	715	10	50	115	180	297	390	540	560
Education	High School Graduate	665	121.9	118.8	4.6	2	790	15	40	90	160	270	360	484	610
Education	< College	432	108.3	100.5	4.8	1	570	10	30	85	149	240	315	420	470
Education	College Graduate	247	101.1	96.6	6.1	1	525	15	30	60	127	240	315	390	465
Education	Post Graduate	171	126.1	118.9	9.1	5	655	15	45	90	180	280	390	495	540
Census Region	Northeast	454	117.0	117.3	5.5	2	790	10	30	90	164	240	330	480	655
Census Region	Midwest	406	114.1	111.0	5.5	1	720	10	30	80	150	240	325	475	495
Census Region	South	636	114.4	112.9	4.5	1	810	10	30	80	150	270	360	435	525
Census Region	West	414	113.8	104.2	5.1	5	720	15	40	83	160	240	330	400	470
Day Of Week	Weekday	1287	108.3	108.5	3.0	1	790	10	30	70	150	240	315	465	540
Day Of Week	Weekend	623	128.2	116.9	4.7	1	810	15	45	90	180	290	370	435	525
Season	Winter	464	105.6	98.3	4.6	1	810	10	30	75	150	240	285	360	465
Season	Spring	445	114.2	109.8	5.2	3	720	15	30	75	165	240	340	465	525
Season	Summer	546	109.9	113.7	4.9	1	690	10	30	71	135	245	365	465	548
Season	Fall	455	130.7	122.1	5.7	1	790	15	45	90	180	300	390	480	560
Asthma	No	1764	114.3	110.1	2.6	1	790	10	30	83	150	255	330	450	525
Asthma	Yes	133	114.7	117.5	10.2	5	690	10	33	64	150	270	390	470	480
Asthma	DK	13	180.8	214.5	59.5	10	810	10	45	120	240	340	810	810	810
Angina	No	1826	113.7	110.6	2.6	1	790	14	30	80	150	255	330	465	525
Angina	Yes	70	120.4	103.1	12.3	5	394	5	30	90	190	263	320	370	394
Angina	DK	14	230.0	210.9	56.4	10	810	10	120	210	255	480	810	810	810
Bronchitis/Emphysema	No	1791	113.9	111.0	2.6	1	790	10	30	80	150	255	340	450	540
Bronchitis/Emphysema	Yes	100	118.1	104.4	10.4	5	480	8	33	90	180	263	298	468	475
Bronchitis/Emphysema	DK	19	182.6	179.3	41.1	5	810	5	50	150	240	340	810	810	810

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

		Clothes Care													
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		893	79.5	73.4	2.5	2	535	10	30	60	118	175	210	300	375
Gender	Male	117	72.2	67.0	6.2	5	360	7	20	60	90	150	210	300	335
Gender	Female	776	80.6	74.2	2.7	2	535	10	30	60	120	180	225	300	375
Age (years)	-	10	59.5	34.8	11.0	15	120	15	25	60	90	105	120	120	120
Age (years)	1 to 4	4	70.0	94.3	47.1	5	210	5	18	33	123	210	210	210	210
Age (years)	5 to 11	11	39.0	33.9	10.2	2	92	2	5	30	60	90	92	92	92
Age (years)	12 to 17	21	37.5	39.4	8.6	3	150	5	10	20	60	80	120	150	150
Age (years)	18 to 64	702	80.5	74.4	2.8	2	535	10	28	60	120	180	210	300	360
Age (years)	> 64	145	85.5	73.5	6.1	2	375	10	30	60	120	180	245	300	375
Race	White	737	80.1	73.4	2.7	2	535	10	30	60	118	175	223	300	375
Race	Black	99	68.6	65.3	6.6	5	300	5	15	45	110	165	210	240	300
Race	Asian	7	107.9	48.8	18.4	60	210	60	80	90	120	210	210	210	210
Race	Some Others	10	62.4	39.1	12.4	18	120	18	21	65	90	120	120	120	120
Race	Hispanic	33	92.9	78.0	13.6	5	265	5	20	90	150	210	225	265	265
Race	Refused	7	100.7	166.0	62.7	15	475	15	20	45	60	475	475	475	475
Hispanic	No	836	78.2	72.3	2.5	2	535	10	30	60	115	165	210	300	360
Hispanic	Yes	51	91.2	71.2	10.0	5	265	5	20	90	150	190	225	225	265
Hispanic	DK	3	118.3	62.5	36.1	55	180	55	55	120	180	180	180	180	180
Hispanic	Refused	3	185.0	251.9	145.5	20	475	20	20	60	475	475	475	475	475
Employment	-	34	43.4	46.3	7.9	2	210	3	10	30	60	92	150	210	210
Employment	Full Time	402	73.4	73.7	3.7	2	535	5	20	60	100	155	223	300	360
Employment	Part Time	116	80.7	68.5	6.4	2	335	10	30	68	118	180	225	240	330
Employment	Not Employed	336	89.8	75.2	4.1	2	475	10	35	60	120	185	235	300	375
Employment	Refused	5	87.4	74.7	33.4	2	180	2	45	60	150	180	180	180	180
Education	-	43	47.5	48.2	7.4	2	210	5	10	30	60	92	150	210	210
Education	< High School	102	86.5	60.0	5.9	10	265	15	38	65	120	175	210	240	245
Education	High School Graduate	337	85.2	82.3	4.5	2	535	10	30	60	120	180	240	375	445
Education	< College	193	85.9	78.5	5.6	2	475	5	21	60	120	190	240	300	375
Education	College Graduate	127	67.8	57.0	5.1	5	260	10	20	60	90	150	190	225	225
Education	Post Graduate	91	68.4	64.7	6.8	5	360	5	20	60	90	145	210	245	360
Census Region	Northeast	222	76.9	67.9	4.6	2	535	10	30	60	120	150	200	245	300
Census Region	Midwest	201	78.4	76.0	5.4	2	475	5	20	60	115	170	210	265	420
Census Region	South	304	81.8	75.7	4.3	5	450	10	30	60	115	170	235	330	375
Census Region	West	166	79.8	73.4	5.7	2	405	5	20	60	120	180	223	300	360
Day Of Week	Weekday	607	75.9	72.9	3.0	2	475	5	25	60	105	160	210	300	375
Day Of Week	Weekend	286	87.2	73.8	4.4	5	535	10	30	65	120	180	223	300	335
Season	Winter	254	82.3	80.2	5.0	2	475	7	23	60	120	190	225	330	445
Season	Spring	213	86.1	79.3	5.4	2	450	10	30	60	120	180	240	335	375
Season	Summer	259	76.7	68.3	4.2	2	535	8	30	60	115	154	190	240	360
Season	Fall	167	71.0	60.5	4.7	3	300	5	25	60	105	150	195	240	300
Asthma	No	829	79.5	74.0	2.6	2	535	10	30	60	118	180	225	300	360
Asthma	Yes	62	79.9	65.3	8.3	5	375	10	30	67	120	154	180	200	375
Asthma	DK	2	45.0	21.2	15.0	30	60	30	30	45	60	60	60	60	60
Angina	No	867	79.5	73.5	2.5	2	535	10	30	60	120	178	210	300	375
Angina	Yes	22	81.6	75.8	16.2	5	335	10	30	60	120	155	195	335	335
Angina	DK	4	60.0	24.5	12.2	30	90	30	45	60	75	90	90	90	90
Bronchitis/emphysema	No	834	78.5	73.6	2.5	2	535	8	25	60	115	170	210	300	375
Bronchitis/emphysema	Yes	58	94.6	68.9	9.1	5	335	15	60	78	120	190	240	300	335
Bronchitis/emphysema	DK	1	60.0	0.0	0.0	60	60	60	60	60	60	60	60	60	60

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

		Doing Dishes/Laundry													
Category	Population Group	N	Mean	SD	SE	Min	Max	5	25	50	Percentiles				
											75	90	95	98	99
All		1865	61.8	68.9	1.6	1	825	10	20	30	80	150	190	255	335
Gender	Male	324	46.1	50.2	2.8	1	360	10	15	30	60	120	135	210	260
Gender	Female	1541	65.1	71.8	1.8	1	825	10	20	35	90	150	200	270	340
Age (years)	-	32	43.8	46.5	8.2	10	225	10	15	30	55	90	150	225	225
Age (years)	1 to 4	10	49.3	66.5	21.0	3	210	3	5	23	55	165	210	210	210
Age (years)	5 to 11	20	34.3	28.8	6.4	1	92	2	15	30	58	83	91	92	92
Age (years)	12 to 17	47	32.7	30.6	4.5	2	150	5	10	20	45	65	90	150	150
Age (years)	18 to 64	1371	63.2	67.1	1.8	1	565	10	20	30	90	150	198	245	335
Age (years)	> 64	385	63.4	79.7	4.1	1	825	9	20	35	80	135	195	285	375
Race	White	1560	62.2	69.5	1.8	1	825	10	20	30	85	148	190	270	335
Race	Black	170	57.8	60.0	4.6	5	390	5	17	30	75	150	180	235	240
Race	Asian	19	56.7	51.7	11.9	3	210	3	15	30	90	120	210	210	210
Race	Some Others	25	46.0	41.4	8.3	5	150	10	15	30	80	120	120	150	150
Race	Hispanic	71	69.0	75.6	9.0	3	325	5	20	35	105	200	225	275	325
Race	Refused	20	60.8	104.2	23.3	5	475	8	15	30	60	128	305	475	475
Hispanic	No	1732	61.3	68.2	1.6	1	825	10	20	30	80	140	180	250	335
Hispanic	Yes	112	68.3	71.5	6.8	3	325	5	20	30	103	180	225	270	275
Hispanic	DK	7	75.7	66.5	25.2	10	180	10	15	55	150	180	180	180	180
Hispanic	Refused	14	62.5	122.3	32.7	5	475	5	15	25	35	120	475	475	475
Employment	-	73	35.3	37.4	4.4	1	210	3	15	20	50	80	120	150	210
Employment	Full Time	776	57.0	63.4	2.3	2	565	10	20	30	70	125	180	240	335
Employment	Part Time	214	63.7	64.8	4.4	2	340	10	15	30	90	151	205	240	275
Employment	Not Employed	789	68.5	76.3	2.7	1	825	10	25	40	90	158	210	285	375
Employment	Refused	13	58.2	59.4	16.5	10	180	10	10	30	100	150	180	180	180
Education	-	99	37.5	38.7	3.9	1	210	3	10	30	55	90	120	180	210
Education	< High School	216	69.8	70.0	4.8	2	570	10	27	45	90	151	195	245	315
Education	High School Graduate	683	67.4	76.7	2.9	1	825	10	20	40	90	150	205	285	405
Education	< College	422	64.3	72.3	3.5	2	475	10	20	30	85	155	210	285	360
Education	College Graduate	262	51.4	49.4	3.1	1	260	10	15	30	70	120	158	200	225
Education	Post Graduate	183	53.7	60.2	4.5	3	360	5	15	30	60	120	190	245	330
Census Region	Northeast	471	59.5	60.1	2.8	2	565	10	20	35	75	135	180	210	285
Census Region	Midwest	405	60.3	68.2	3.4	1	480	5	15	30	75	150	198	240	285
Census Region	South	602	65.8	75.1	3.1	1	825	10	20	35	90	150	210	270	360
Census Region	West	387	59.8	69.6	3.5	2	570	10	15	30	70	150	210	270	345
Day Of Week	Weekday	1270	59.5	68.8	1.9	1	825	9	20	30	75	138	190	245	330
Day Of Week	Weekend	595	66.6	68.9	2.8	5	565	10	20	40	90	150	210	275	340
Season	Winter	503	65.4	79.5	3.5	1	825	10	20	30	90	150	210	300	360
Season	Spring	438	62.8	67.8	3.2	2	450	10	20	35	75	150	190	285	335
Season	Summer	510	61.7	62.8	2.8	2	565	10	20	40	90	140	180	240	270
Season	Fall	414	56.5	63.1	3.1	1	570	8	15	30	65	130	195	230	270
Asthma	No	1712	62.0	69.6	1.7	1	825	10	20	30	85	150	195	270	335
Asthma	Yes	147	60.9	60.6	5.0	2	375	10	20	30	76	151	180	250	255
Asthma	DK	6	36.7	41.8	17.1	10	120	10	10	25	30	120	120	120	120
Angina	No	1790	62.1	69.2	1.6	1	825	10	20	30	85	150	190	255	335
Angina	Yes	66	54.8	63.0	7.8	5	335	9	25	30	60	120	200	315	335
Angina	DK	9	55.6	44.2	14.7	10	120	10	30	30	90	120	120	120	120
Bronchitis/Emphysema	No	1746	60.5	65.3	1.6	1	565	10	20	30	80	140	190	250	325
Bronchitis/Emphysema	Yes	112	82.7	109.5	10.3	3	825	5	20	58	103	170	240	360	570
Bronchitis/Emphysema	DK	7	46.7	51.4	19.4	2	120	2	10	30	120	120	120	120	120

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

Animal Care															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		764	48.2	65.0	2.4	1	760	5	10	30	60	120	155	230	312
Gender	Male	282	57.3	81.8	4.9	1	760	5	15	30	65	120	180	308	340
Gender	Female	482	42.8	52.2	2.4	1	450	3	10	29	60	105	140	187	273
Age (years)	-	13	37.5	38.6	10.7	2	135	2	5	30	55	80	135	135	135
Age (years)	1 to 4	9	59.2	44.3	14.8	3	140	3	30	60	90	140	140	140	140
Age (years)	5 to 11	27	47.3	43.1	8.3	2	179	8	15	38	65	120	150	179	179
Age (years)	12 to 17	49	55.2	68.3	9.8	3	308	5	10	25	90	175	180	308	308
Age (years)	18 to 64	530	45.9	66.6	2.9	1	760	3	10	30	60	109	150	230	280
Age (years)	> 64	136	54.8	64.5	5.5	1	383	5	15	30	60	135	180	340	340
Race	White	696	47.8	62.0	2.4	1	760	4	10	30	60	120	155	240	312
Race	Black	26	37.6	39.8	7.8	1	145	1	10	25	45	120	120	145	145
Race	Asian	5	30.4	21.9	9.8	10	60	10	15	20	47	60	60	60	60
Race	Some Others	12	100.0	193.6	55.9	5	690	5	18	30	65	205	690	690	690
Race	Hispanic	17	37.8	45.0	10.9	5	180	5	15	30	35	120	180	180	180
Race	Refused	8	73.8	58.5	20.7	5	180	5	33	55	115	180	180	180	180
Hispanic	No	712	47.8	61.5	2.3	1	760	4	10	30	60	120	151	230	308
Hispanic	Yes	39	50.9	112.8	18.1	2	690	3	10	20	35	120	180	690	690
Hispanic	DK	6	50.0	77.1	31.5	10	205	10	10	15	45	205	205	205	205
Hispanic	Refused	7	67.9	62.0	23.4	5	180	5	20	60	120	180	180	180	180
Employment	-	86	51.2	56.8	6.1	2	308	5	15	30	70	120	175	240	308
Employment	Full Time	376	44.9	71.5	3.7	1	760	3	10	25	60	90	145	240	340
Employment	Part Time	60	48.9	56.3	7.3	3	230	5	13	20	60	153	177	205	230
Employment	Not Employed	233	52.5	59.4	3.9	1	383	5	15	30	60	120	180	273	330
Employment	Refused	9	38.9	53.9	18.0	5	180	5	20	30	30	180	180	180	180
Education	-	98	52.3	57.0	5.8	2	308	5	15	30	70	140	180	240	308
Education	< High School	63	51.5	68.1	8.6	1	383	5	15	30	60	120	225	273	383
Education	High School Graduate	231	52.9	75.8	5.0	1	760	5	10	30	70	120	165	245	330
Education	< College	150	40.6	49.2	4.0	1	280	4	10	20	55	98	155	205	230
Education	College Graduate	121	51.3	79.2	7.2	1	690	3	15	30	60	110	135	340	340
Education	Post Graduate	101	38.7	40.1	4.0	1	240	5	12	30	57	80	105	150	185
Census Region	Northeast	171	39.8	44.9	3.4	1	273	3	10	25	60	90	120	205	245
Census Region	Midwest	181	49.7	58.7	4.4	1	330	4	14	30	60	120	180	240	312
Census Region	South	247	51.4	75.0	4.8	1	760	5	15	30	60	120	165	308	383
Census Region	West	165	50.3	72.6	5.6	1	690	3	10	30	60	120	155	210	340
Day Of Week	Weekday	527	46.6	66.5	2.9	1	760	4	10	30	60	115	155	195	280
Day Of Week	Weekend	237	51.7	61.7	4.0	1	383	5	15	30	60	120	180	273	330
Season	Winter	221	44.6	66.4	4.5	1	690	4	10	25	55	95	160	225	245
Season	Spring	201	53.0	60.4	4.3	1	340	5	15	30	60	120	175	240	330
Season	Summer	216	51.4	76.4	5.2	1	760	5	15	30	64	120	165	240	383
Season	Fall	126	41.1	45.4	4.0	1	280	3	10	25	60	110	135	180	180
Asthma	No	705	48.4	65.5	2.5	1	760	4	10	30	60	120	155	225	308
Asthma	Yes	57	45.4	60.5	8.0	1	330	5	10	30	55	105	195	240	330
Asthma	DK	2	45.0	21.2	15.0	30	60	30	30	45	60	60	60	60	60
Angina	No	734	47.8	64.3	2.4	1	760	5	10	30	60	120	155	225	280
Angina	Yes	27	58.7	85.6	16.5	2	340	3	15	30	60	135	330	340	340
Angina	DK	3	35.0	22.9	13.2	15	60	15	15	30	60	60	60	60	60
Bronchitis/emphysema	No	718	48.4	65.6	2.4	1	760	4	10	30	60	120	160	230	308
Bronchitis/emphysema	Yes	43	45.4	58.5	8.9	2	330	5	10	30	55	90	150	330	330
Bronchitis/emphysema	DK	3	42.7	15.5	9.0	30	60	30	30	38	60	60	60	60	60

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

Car Repair and Maintenance															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		145	123.4	147.2	12.2	5	700	5	30	60	150	300	495	670	690
Gender	Male	110	135.6	152.7	14.6	5	700	5	30	85	170	300	505	600	670
Gender	Female	35	85.1	122.4	20.7	5	690	5	15	45	120	180	270	690	690
Age (years)	-	1	60.0	-	-	60	60	60	60	60	60	60	60	60	60
Age (years)	1 to 4	1	150.0	-	-	150	150	150	150	150	150	150	150	150	150
Age (years)	5 to 11	1	300.0	-	-	300	300	300	300	300	300	300	300	300	300
Age (years)	12 to 17	8	106.9	163.8	57.9	20	505	20	30	45	90	505	505	505	505
Age (years)	18 to 64	114	130.3	156.5	14.7	5	700	5	30	78	165	300	520	670	690
Age (years)	> 64	20	83.5	68.4	15.3	10	300	13	30	70	120	150	240	300	300
Race	White	112	139.6	158.7	15.0	5	700	10	30	90	175	300	520	670	690
Race	Black	19	85.8	93.5	21.5	5	300	5	20	60	95	300	300	300	300
Race	Asian	2	10.0	7.1	5.0	5	15	5	5	10	15	15	15	15	15
Race	Some Others	6	43.3	42.4	17.3	5	120	5	10	33	60	120	120	120	120
Race	Hispanic	6	58.0	51.6	21.1	5	120	5	13	45	120	120	120	120	120
Hispanic	No	133	123.6	145.0	12.6	5	700	5	30	80	150	300	495	670	690
Hispanic	Yes	10	98.8	153.4	48.5	5	520	5	30	45	120	320	520	520	520
Hispanic	DK	2	232.5	321.7	227.5	5	460	5	5	233	460	460	460	460	460
Employment	-	10	130.5	156.9	49.6	20	505	20	30	53	150	403	505	505	505
Employment	Full Time	77	122.1	150.2	17.1	5	700	5	30	60	165	300	520	670	700
Employment	Part Time	12	123.2	138.8	40.1	8	495	8	40	73	150	270	495	495	495
Employment	Not Employed	46	124.1	147.0	21.7	5	690	10	30	90	120	300	480	690	690
Education	-	13	120.0	139.5	38.7	15	505	15	30	60	120	300	505	505	505
Education	< High School	17	185.9	224.4	54.4	5	670	5	30	90	220	555	670	670	670
Education	High School Graduate	50	111.5	128.3	18.1	5	690	5	30	68	120	270	350	585	690
Education	< College	31	138.2	169.2	30.4	5	700	10	30	85	180	280	600	700	700
Education	College Graduate	20	93.3	99.3	22.2	10	300	10	15	45	135	285	300	300	300
Education	Post Graduate	14	103.4	97.6	26.1	5	300	5	30	75	120	300	300	300	300
Census Region	Northeast	28	130.8	163.7	30.9	8	690	10	30	60	200	300	520	690	690
Census Region	Midwest	31	149.8	173.2	31.1	10	670	10	45	90	120	350	600	670	670
Census Region	South	45	106.8	131.4	19.6	5	700	5	30	60	120	240	300	700	700
Census Region	West	41	116.7	132.2	20.6	5	505	5	30	60	120	300	460	505	505
Day Of Week	Weekday	79	108.5	125.9	14.2	5	690	5	15	60	150	280	350	480	690
Day Of Week	Weekend	66	141.2	168.5	20.7	5	700	10	45	83	150	495	555	670	700
Season	Winter	49	130.7	167.7	24.0	5	690	5	30	60	165	350	600	690	690
Season	Spring	39	136.7	156.0	25.0	5	700	5	45	85	150	300	555	700	700
Season	Summer	35	121.5	137.7	23.3	5	505	5	30	60	150	300	480	505	505
Season	Fall	22	86.7	87.5	18.7	5	300	8	10	70	120	240	270	300	300
Asthma	No	137	117.7	139.6	11.9	5	700	5	30	60	120	300	495	600	690
Asthma	Yes	8	221.9	235.6	83.3	15	670	15	30	150	365	670	670	670	670
Angina	No	139	125.7	149.2	12.7	5	700	5	30	75	150	300	505	670	690
Angina	Yes	5	51.0	72.9	32.6	5	180	5	15	20	35	180	180	180	180
Angina	DK	1	165.0	-	-	165	165	165	165	165	165	165	165	165	165
Bronchitis/Emphysema	No	140	122.3	145.7	12.3	5	700	5	30	68	135	300	500	670	690
Bronchitis/Emphysema	Yes	5	155.0	203.3	90.9	5	460	5	10	30	270	460	460	460	460

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

Other Repairs															
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles							
								5	25	50	75	90	95	98	99
All		288	184.8	184.1	10.8	2	1080	10	37	120	300	425	525	690	840
Gender	Male	200	205.0	187.7	13.3	2	1080	10	60	150	328	460	555	680	810
Gender	Female	88	138.8	167.8	17.9	3	900	5	18	73	193	360	425	750	900
Age (years)	-	1	540.0	-	-	540	540	540	540	540	540	540	540	540	540
Age (years)	5 to 11	3	66.7	55.1	31.8	10	120	10	10	70	120	120	120	120	120
Age (years)	12 to 17	14	119.5	103.4	27.6	15	345	15	30	90	180	285	345	345	345
Age (years)	18 to 64	221	198.5	192.9	13.0	2	1080	10	45	120	325	434	570	750	840
Age (years)	> 64	49	141.9	146.9	21.0	2	526	10	30	75	209	390	480	526	526
Race	White	264	186.4	184.9	11.4	2	1080	10	37	120	300	430	525	670	840
Race	Black	13	150.4	208.0	57.7	10	750	10	30	90	120	390	750	750	750
Race	Asian	3	321.7	89.5	51.7	270	425	270	270	270	425	425	425	425	425
Race	Some Others	3	173.7	165.2	95.4	45	360	45	45	116	360	360	360	360	360
Race	Hispanic	4	127.5	122.8	61.4	10	290	10	35	105	220	290	290	290	290
Race	Refused	1	75.0	-	-	75	75	75	75	75	75	75	75	75	75
Hispanic	No	278	184.9	184.5	11.1	2	1,080	10	35	120	300	425	525	690	840
Hispanic	Yes	9	160.6	180.7	60.2	10	575	10	60	60	210	575	575	575	575
Hispanic	DK	1	375.0	-	-	375	375	375	375	375	375	375	375	375	375
Employment	-	17	110.2	97.4	23.6	10	345	10	30	90	180	285	345	345	345
Employment	Full Time	140	200.0	206.0	17.4	5	1080	9	60	120	298	470	600	840	900
Employment	Part Time	27	168.0	153.7	29.6	5	490	10	25	120	302	390	434	490	490
Employment	Not Employed	102	183.3	169.1	16.7	2	670	10	30	120	315	420	480	526	600
Employment	Refused	2	61.0	83.4	59.0	2	120	2	2	61	120	120	120	120	120
Education	-	18	110.7	94.6	22.3	10	345	10	30	90	180	285	345	345	345
Education	< High School	23	214.3	215.0	44.8	15	900	30	45	120	360	480	490	900	900
Education	High School Graduate	90	194.4	196.5	20.7	3	840	5	30	133	300	447	575	780	840
Education	< College	64	202.2	200.8	25.1	2	1,080	10	33	130	355	420	480	600	1,080
Education	College Graduate	54	169.0	154.5	21.0	5	525	10	60	98	270	425	490	510	525
Education	Post Graduate	39	172.9	174.2	27.9	2	690	7	38	120	270	420	600	690	690
Census Region	Northeast	55	166.2	181.3	24.5	3	840	5	30	75	210	415	525	600	840
Census Region	Midwest	77	188.9	170.2	19.4	10	780	15	60	120	315	420	460	670	780
Census Region	South	89	202.3	212.3	22.5	2	1,080	10	30	120	315	480	570	900	1,080
Census Region	West	67	172.2	161.7	19.8	2	750	7	60	120	243	340	526	690	750
Day Of Week	Weekday	188	178.2	171.9	12.5	2	780	10	43	110	300	430	490	600	750
Day Of Week	Weekend	100	197.2	205.4	20.5	3	1,080	5	33	145	297	420	585	870	990
Season	Winter	62	167.1	172.1	21.9	3	600	5	15	90	300	445	490	540	600
Season	Spring	65	203.1	216.6	26.9	5	900	10	45	120	300	480	670	840	900
Season	Summer	95	180.4	182.0	18.7	2	1,080	10	60	120	290	390	510	750	1,080
Season	Fall	66	189.7	164.6	20.3	2	600	10	55	120	330	420	435	600	600
Asthma	No	264	180.3	183.7	11.3	2	1080	10	37	120	289	420	525	690	840
Asthma	Yes	24	234.2	185.3	37.8	5	670	10	45	210	353	480	510	670	670
Angina	No	281	179.7	175.3	10.5	2	900	10	30	120	295	420	490	670	780
Angina	Yes	6	448.3	370.0	151.1	90	1,080	90	100	410	600	1,080	1,080	1,080	1,080
Angina	DK	1	45.0	-	-	45	45	45	45	45	45	45	45	45	45
Bronchitis/emphysema	No	276	184.7	185.6	11.2	2	1,080	10	37	120	299	430	526	690	840
Bronchitis/emphysema	Yes	12	187.9	152.6	44.0	5	405	5	45	165	350	360	405	405	405

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)

		Yardwork/Maintenance ^b														
Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		1,414	147.7	148.2	3.9	1	1,080	5	45	100	205	360	470	570	655	
Sex	Male	804	174.8	160.2	5.6	2	1,080	10	60	120	250	415	510	600	670	
Sex	Female	610	111.9	122.0	4.9	1	900	5	30	75	145	278	360	465	510	
Age (years)	-	20	181.9	170.3	38.1	5	600	10	60	116	240	468	570	600	600	
Age (years)	1 to 4	12	93.2	80.8	23.3	5	285	5	30	83	133	178	285	285	285	
Age (years)	5 to 11	26	96.2	85.5	16.8	5	330	5	39	60	120	210	300	330	330	
Age (years)	12 to 17	54	116.0	116.8	15.9	3	505	5	30	90	150	285	385	450	505	
Age (years)	18 to 64	1,015	150.2	154.5	4.8	1	1,080	5	35	100	210	360	480	585	670	
Age (years)	>64	287	149.3	133.8	7.9	2	810	10	60	120	205	330	420	525	630	
Race	White	1,249	151.5	150.2	4.3	1	1,080	5	45	105	210	360	480	575	660	
Race	Black	77	114.5	127.1	14.5	2	750	5	20	65	165	285	355	405	750	
Race	Asian	13	140.0	150.1	41.6	5	425	5	15	85	210	360	425	425	425	
Race	Some Others	26	117.2	110.6	21.7	5	380	5	30	88	178	290	360	380	380	
Race	Hispanic	37	102.1	113.5	18.7	5	565	5	20	60	120	255	300	565	565	
Race	Refused	12	177.1	190.8	55.1	30	600	30	60	98	215	510	600	600	600	
Hispanic	No	1,331	148.7	148.0	4.1	1	1,080	5	45	105	209	360	465	570	660	
Hispanic	Yes	65	106.2	127.4	15.8	5	575	5	20	60	120	255	300	565	575	
Hispanic	DK	8	248.8	206.5	73.0	5	585	5	90	190	420	585	585	585	585	
Hispanic	Refused	10	203.5	200.1	63.3	60	600	60	60	120	300	555	600	600	600	
Employment	-	92	106.8	101.8	10.6	3	505	5	32	77	148	240	330	450	505	
Employment	Full Time	664	146.7	155.5	6.0	1	1,080	5	35	90	203	360	490	575	690	
Employment	Part Time	121	134.5	130.8	11.9	2	554	5	30	90	200	317	390	490	495	
Employment	Not Employed	526	157.8	147.0	6.4	2	810	10	60	120	220	370	480	595	655	
Employment	Refused	11	211.6	198.7	59.9	2	600	2	60	120	375	465	600	600	600	
Education	-	105	113.5	113.9	11.1	2	600	5	33	79	150	285	360	450	505	
Education	< High School	160	158.5	164.8	13.0	2	900	8	45	111	210	413	493	595	810	
Education	High School Graduate	465	151.4	147.0	6.8	3	840	5	50	110	210	345	460	575	690	
Education	< College	305	152.8	157.0	9.0	2	1,080	5	45	95	210	360	473	600	630	
Education	College Graduate	211	145.4	138.8	9.6	1	625	5	40	105	225	330	465	525	533	
Education	Post Graduate	168	142.2	147.8	11.4	2	690	5	30	90	180	340	470	570	630	
Census Region	Northeast	291	140.5	139.6	8.2	3	840	5	40	90	200	330	450	525	600	
Census Region	Midwest	314	145.1	143.2	8.1	2	780	10	55	95	195	360	445	560	655	
Census Region	South	438	152.7	156.4	7.5	2	1,080	5	45	111	205	375	480	585	635	
Census Region	West	371	149.6	149.3	7.8	1	750	5	40	104	210	350	480	575	690	
Day Of Week	Weekday	878	140.9	140.8	4.8	1	810	5	40	93	190	345	460	560	625	
Day Of Week	Weekend	536	158.9	159.2	6.9	2	1,080	5	50	117	225	380	510	600	690	
Season	Winter	289	139.4	151.7	8.9	1	690	5	30	75	195	360	480	565	600	
Season	Spring	438	162.2	150.5	7.2	3	900	10	60	120	220	360	480	570	700	
Season	Summer	458	137.9	140.3	6.6	2	1,080	5	40	90	180	310	440	555	630	
Season	Fall	229	150.0	153.4	10.1	2	720	5	40	97	210	390	480	600	655	
Asthma	No	1,311	147.0	147.1	4.1	1	1,080	5	45	100	200	355	465	570	635	
Asthma	Yes	98	149.3	155.8	15.7	5	670	5	30	90	210	445	480	670	670	
Asthma	DK	5	312.0	230.0	102.9	60	600	60	120	300	480	600	600	600	600	
Angina	No	1,360	145.3	145.1	3.9	1	900	5	45	100	200	355	465	570	655	
Angina	Yes	42	192.6	203.4	31.4	5	1,080	15	60	143	255	465	485	1,080	1,080	
Angina	DK	12	257.1	216.7	62.6	5	600	5	53	233	473	510	600	600	600	
Bronchitis/Emphysema	No	1,352	148.5	148.5	4.0	1	1,080	5	45	105	205	360	470	570	660	
Bronchitis/Emphysema	Yes	57	114.7	121.4	16.1	5	460	5	30	60	135	340	375	405	460	
Bronchitis/Emphysema	DK	5	312.0	230.0	102.9	60	600	60	120	300	480	600	600	600	600	

Table 16-26. Time Spent (minutes/day) in Selected Activities, Doers Only (continued)	
-	= Indicates missing data.
DK	= The respondent replied “don’t know”.
Refused	= Refused data.
N	= Doer sample size.
SD	= Standard deviation.
SE	= Standard error.
Min	= Minimum number of minutes.
Max	= Maximum number of minutes.
^a	Includes cleaning house, other repairs, and household work.
^b	Includes car repair services, other repairs services, outdoor cleaning, car repair maintenance, other repairs, plant care, other household work, domestic crafts, domestic arts.
Source:	U.S. EPA (1996).

Table 16-27. Number of Hours Spent Working (hours/week)

		Working for Pay												
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		4,896	0	0	0	12	33	40	50	60	61	61	61	61
Gender	Male	2,466	0	0	0	18	40	40	53	61	61	61	61	61
Gender	Female	2,430	0	0	0	6	28	40	43	55	60	61	61	61
Age (years)	1 to 4	0	-	-	-	-	-	-	-	-	-	-	-	-
Age (years)	5 to 11	0	-	-	-	-	-	-	-	-	-	-	-	-
Age (years)	12 to 17	14	0	0	0	1	9	19	24	26	31	31	31	31
Age (years)	18 to 64	4,625	0	0	0	15	35	40	50	60	61	61	61	61
Age (years)	> 64	181	0	0	0	0	5	21	40	50	61	61	61	61
Race	White	3,990	0	0	0	10	32	40	50	60	61	61	61	61
Race	Black	499	0	0	0	18	35	40	46	60	61	61	61	61
Race	Asian	76	0	0	0	7	37	40	50	61	61	61	61	61
Race	Some Others	87	0	0	0	0	30	40	50	60	61	61	61	61
Race	Hispanic	194	0	0	0	15	32	40	48	60	60	61	61	61
Hispanic	No	4,494	0	0	0	12	33	40	50	60	61	61	61	61
Hispanic	Yes	341	0	0	0	8	32	40	50	60	61	61	61	61
Employment	Full Time	4,094	0	0	0	30	40	40	50	60	61	61	61	61
Employment	Part Time	802	0	0	0	0	10	20	30	38	40	61	61	61
Employment	Not Employed	0	-	-	-	-	-	-	-	-	-	-	-	-
Education	< High School	308	0	0	0	1	21	40	48	61	61	61	61	61
Education	High School Graduate	1,598	0	0	0	12	32	40	48	60	61	61	61	61
Education	< College	1,251	0	0	0	15	30	40	50	60	61	61	61	61
Education	College Graduate	954	0	0	0	16	40	40	50	60	61	61	61	61
Education	Post Graduate	716	0	0	0	10	35	40	50	60	61	61	61	61
Census Region	Northeast	1,096	0	0	0	14	32	40	50	60	61	61	61	61
Census Region	Midwest	1,118	0	0	0	12	32	40	50	60	61	61	61	61
Census Region	South	1,675	0	0	0	12	35	40	50	60	61	61	61	61
Census Region	West	1,007	0	0	0	9	30	40	50	60	61	61	61	61
Day of Week	Weekday	3,306	0	0	0	10	33	40	50	60	61	61	61	61
Day of Week	Weekend	1,590	0	0	0	12	33	40	48	60	61	61	61	61
Season	Winter	1,306	0	0	0	10	32	40	50	60	61	61	61	61
Season	Spring	1,197	0	0	0	15	35	40	50	60	61	61	61	61
Season	Summer	1,343	0	0	0	3	33	40	48	60	61	61	61	61
Season	Fall	1,050	0	0	0	15	32	40	50	60	61	61	61	61
Asthma	No	4,579	0	0	0	12	34	40	50	60	61	61	61	61
Asthma	Yes	302	0	0	0	9	30	40	48	60	61	61	61	61
Angina	No	4,811	0	0	0	12	34	40	50	60	61	61	61	61
Angina	Yes	66	0	0	0	0	20	40	44	60	61	61	61	61
Bronchitis/Emphysema	No	4,699	0	0	0	12	33	40	50	6	61	61	61	61
Bronchitis/Emphysema	Yes	182	0	0	0	6	30	40	48	60	61	61	61	61

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Table 16-27. Number of Hours Spent Working (hours/week) (continued)														
Number of Hours Spent Working for Pay Between 6PM and 6AM														
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		4,894	0	0	0	0	0	0	8	30	45	61	61	61
Gender	Male	2,465	0	0	0	0	0	0	10	35	50	61	61	61
Gender	Female	2,429	0	0	0	0	0	0	5	20	39	61	61	61
Age (years)	1 to 4	0	0	0	0	0	0	0	0	0	0	0	0	0
Age (years)	5 to 11	0	0	0	0	0	0	0	0	0	0	0	0	0
Age (years)	12 to 17	14	0	0	0	0	0	5	20	24	25	25	25	25
Age (years)	18 to 64	4,623	0	0	0	0	0	0	8	30	42	61	61	61
Age (years)	> 64	181	0	0	0	0	0	0	0	20	61	61	61	61
Race	White	3,989	0	0	0	0	0	0	8	25	40	61	61	61
Race	Black	499	0	0	0	0	0	0	10	40	61	61	61	61
Race	Asian	75	0	0	0	0	0	0	12	30	61	61	61	61
Race	Some Others	87	0	0	0	0	0	0	7	25	45	61	61	61
Race	Hispanic	194	0	0	0	0	0	0	15	35	48	61	61	61
Hispanic	No	4,492	0	0	0	0	0	0	8	27	40	61	61	61
Hispanic	Yes	341	0	0	0	0	0	0	13	35	50	61	61	61
Employment	Full Time	4,092	0	0	0	0	0	0	8	30	45	61	61	61
Employment	Part Time	802	0	0	0	0	0	0	6	20	35	61	61	61
Employment	Not Employed	0	0	0	0	0	0	0	0	0	0	0	0	0
Education	< High School	308	0	0	0	0	0	0	11	50	61	61	61	61
Education	High School Graduate	1,597	0	0	0	0	0	0	8	35	50	61	61	61
Education	< College	1,251	0	0	0	0	0	0	9	26	40	60	61	61
Education	College Graduate	953	0	0	0	0	0	0	8	20	40	61	61	61
Education	Post Graduate	716	0	0	0	0	0	0	7	20	30	61	61	61
Census Region	Northeast	1,096	0	0	0	0	0	0	7	24	40	61	61	61
Census Region	Midwest	1,118	0	0	0	0	0	0	10	30	42	61	61	61
Census Region	South	1,674	0	0	0	0	0	0	7	30	48	61	61	61
Census Region	West	1,006	0	0	0	0	0	0	10	30	47	61	61	61
Day of Week	Weekday	3,306	0	0	0	0	0	0	8	30	48	61	61	61
Day of Week	Weekend	1,588	0	0	0	0	0	0	7	28	40	61	61	61
Season	Winter	1,305	0	0	0	0	0	0	8	28	40	61	61	61
Season	Spring	1,197	0	0	0	0	0	0	8	30	48	61	61	61
Season	Summer	1,342	0	0	0	0	0	0	9	30	48	61	61	61
Season	Fall	1,050	0	0	0	0	0	0	7	25	40	61	61	61
Asthma	No	4,578	0	0	0	0	0	0	8	30	45	61	61	61
Asthma	Yes	301	0	0	0	0	0	0	8	28	36	61	61	61
Angina	No	4,809	0	0	0	0	0	0	8	30	44	61	61	61
Angina	Yes	66	0	0	0	0	0	0	7	36	40	61	61	61
Bronchitis/Emphysema	No	45,697	0	0	0	0	0	0	8	30	43	61	61	61
Bronchitis/Emphysema	Yes	182	0	0	0	0	0	0	10	40	50	61	61	61

Table 16-27. Number of Hours Spent Working (hours/week) (continued)

		Number of Hours Worked in a Week That Was Outdoors (hours/week)												
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		4,891	0	0	0	0	0	0	1	30	50	61	61	61
Gender	Male	2,463	0	0	0	0	0	0	16	42	60	61	61	61
Gender	Female	2,428	0	0	0	0	0	0	2	12	55	61	61	61
Age (years)	1 to 4	0	0	0	0	0	0	0	0	0	0	0	0	0
Age (years)	5 to 11	0	0	0	0	0	0	0	0	0	0	0	0	0
Age (years)	12 to 17	14	0	0	0	0	0	0	0	0	0	0	0	0
Age (years)	18 to 64	4,621	0	0	0	0	0	1	30	50	61	61	61	61
Age (years)	> 64	181	0	0	0	0	0	2	29	60	61	61	61	61
Race	White	3,986	0	0	0	0	0	2	30	50	61	61	61	61
Race	Black	499	0	0	0	0	0	0	25	48	61	61	61	61
Race	Asian	75	0	0	0	0	0	0	3	30	40	61	61	61
Race	Some Others	87	0	0	0	0	0	1	17	40	48	61	61	61
Race	Hispanic	194	0	0	0	0	0	2	30	50	61	61	61	61
Hispanic	No	4,489	0	0	0	0	0	1	30	48	61	61	61	61
Hispanic	Yes	341	0	0	0	0	0	2	35	60	61	61	61	61
Employment	Full Time	4,090	0	0	0	0	0	2	35	50	61	61	61	61
Employment	Part Time	801	0	0	0	0	0	0	15	30	61	61	61	61
Employment	Not Employed	0	0	0	0	0	0	0	0	0	0	0	0	0
Education	< High School	308	0	0	0	0	0	17	55	61	61	61	61	61
Education	High School Graduate	1,594	0	0	0	0	0	6	40	60	61	61	61	61
Education	< College	1,251	0	0	0	0	0	1	30	46	61	61	61	61
Education	College Graduate	953	0	0	0	0	0	0	20	35	50	61	61	61
Education	Post Graduate	716	0	0	0	0	0	0	4	15	60	61	61	61
Census Region	Northeast	1,094	0	0	0	0	0	0	25	40	61	61	61	61
Census Region	Midwest	1,117	0	0	0	0	0	0	30	50	61	61	61	61
Census Region	South	1,674	0	0	0	0	0	2	32	55	61	61	61	61
Census Region	West	1,006	0	0	0	0	0	2	33	50	61	61	61	61
Day of Week	Weekday	3,305	0	0	0	0	0	1	32	50	61	61	61	61
Day of Week	Weekend	1,586	0	0	0	0	0	1	30	48	61	61	61	61
Season	Winter	1,305	0	0	0	0	0	0	25	50	61	61	61	61
Season	Spring	1,195	0	0	0	0	0	2	30	50	61	61	61	61
Season	Summer	1,341	0	0	0	0	0	2	36	50	61	61	61	61
Season	Fall	1,050	0	0	0	0	0	0	30	45	61	61	61	61
Asthma	No	4,576	0	0	0	0	0	1	30	50	61	61	61	61
Asthma	Yes	300	0	0	0	0	0	0	31	50	61	61	61	61
Angina	No	4,806	0	0	0	0	0	1	30	50	61	61	61	61
Angina	Yes	66	0	0	0	0	0	4	35	50	61	61	61	61
Bronchitis/Emphysema	No	4,694	0	0	0	0	0	1	30	50	61	61	61	61
Bronchitis/Emphysema	Yes	182	0	0	0	0	0	2	30	60	61	61	61	61
-		Signifies missing data.												
N		= Doer sample size.												
Note:		A value of "61" for number of hours signifies that more than 60 hours were spent. Percentiles are the percentage of doers below or equal to a given number of hours.												
Source:		U.S. EPA (1996).												

Chapter 16—Activity Factors

Table 16-28. Number of Showers Taken per Day, by Children <21 Years

Age (years)	N	Showers per Day				
		0	1	2	3	Don't Know
Birth to <1	37	36	1	0	0	0
1 to <2	53	48	5	0	0	0
2 to <3	67	54	10	2	0	1
3 to <6	187	153	25	7	1	1
6 to <11	245	122	95	25	1	2
11 to <16	258	51	150	53	3	1
16 to <21	232	23	147	57	5	0

N = Number of respondents.

Source: U.S. EPA re-analysis of source data from U.S. EPA (1996).

Table 16-29. Time Spent (minutes) Bathing, Showering, and in Bathroom Immediately After Bathing and Showering, Children <21 Years

Age (years)	N	Mean	Min	Percentiles										Max	
				1	2	5	10	25	50	75	90	95	98		99
Duration of Bath (minutes)															
Birth to <1	26	19	5	5	5	6	8	10	18	28	30	30	45	53	60
1 to <2	37	23	10	10	10	10	10	15	20	30	30	32	41	43	45
2 to <3	48	23	1	2.9	5	7	10	15	20	30	30	45	60	60	60
3 to <6	125	24	5	5	5	6	10	15	25	30	35	60	60	61	61
6 to <11	89	24	5	5	5	10	10	15	20	30	31	46	60	60	61
11 to <16	38	25	5	6	6	10	10	16	20	30	40	43	60	61	61
16 to <21	17	33	10	11	12	14	18	20	30	45	60	60	61	61	61
Duration in Bathroom Immediately Following a Bath (minutes)															
Birth to <1	26	2	0	0	0	0	0	0	1	3	9	10	10	10	10
1 to <2	37	3	0	0	0	0	0	0	1	2	5	6	10	10	10
2 to <3	48	4	0	0	0	0	0	0	1.5	5	10	15	15	18	20
3 to <6	125	4	0	0	0	0	0	1	2	5	10	15	15	19	30
6 to <11	89	4	0	0	0	0	0	1	3	5	10	10	16	21	30
11 to <16	38	9	0	0	0	1	1	2	5	14	20	26	33	36	40
16 to <21	17	11	0	0	1	2	3	5	10	10	19	29	39	42	45
Sum of Duration in Bath and in Bathroom Immediately Following Bath (minutes)															
Birth to <1	26	22	6	7	8	9	10	12	19	29	32	38	55	63	70
1 to <2	37	26	10	10	11	12	16	17	30	32	35	41	46	48	50
2 to <3	48	26	6	7	8	10	14	16	23	34	45	50	60	61	61
3 to <6	125	28	5	6	7	10	12	18	30	32	48	60	66	69	76
6 to <11	89	28	6	6	9	10	13	20	25	33	41	60	63	71	80
11 to <16	38	33	7	8	10	12	16	23	31	41	52	64	70	70	70
16 to <21	17	45	15	15	16	17	21	30	40	60	73	77	82	83	85
Duration of Shower (minutes)															
Birth to <1	1	15	15	-	-	-	-	-	-	-	-	-	-	-	15
1 to <2	5	20	5	-	-	-	-	-	-	-	-	-	-	-	30
2 to <3	12	22	5	5	5	5	6	14	20	30	30	44	53	57	60
3 to <6	33	17	3	4	4	5	5	10	15	20	30	34	47	54	60
6 to <11	119	18	4	5	5	5	7	10	15	20	30	41	57	60	60
11 to <16	204	18	3	4	5	5	6	10	15	20	30	40	50	60	60
16 to <21	207	20	3	5	5	5	8	10	15	30	40	45	60	60	61
Duration in Shower Room Immediately Following a Shower (minutes)															
Birth to <1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	1
1 to <2	5	10	0	-	-	-	-	-	-	-	-	-	-	-	45
2 to <3	12	5	0	0	0	1	1	1	4	6	10	12	14	14	15
3 to <6	33	7	0	0	1	2	2	3	5	10	15	20	22	23	25
6 to <11	119	6	0	0	0	0	1	2	5	10	13	16	26	30	30
11 to <16	204	8	0	0	0	0	1	3	5	10	19	30	40	45	60
16 to <21	207	8	0	0	0	0	1	3	5	10	15	20	30	39	61
Sum of Shower Duration and Time Spent in Shower Room Immediately Following Shower (minutes)															
Birth to <1	1	16	16	-	-	-	-	-	-	-	-	-	-	-	16
1 to <2	5	30	6	-	-	-	-	-	-	-	-	-	-	-	60
2 to <3	12	27	6	6	7	8	11	19	21	33	44	56	65	67	70
3 to <6	33	24	8	8	8	8	8	13	25	30	40	45	57	64	70
6 to <11	119	24	5	6	6	8	10	15	20	30	43	50	61	68	90
11 to <16	204	26	4	5	7	10	11	15	22	35	50	60	65	70	70
16 to <21	207	28	4	5	7	10	10	15	25	35	50	60	74	89	121

N = Doer sample size.
 Min = Minimum.
 Max = Maximum.
 - = Percentiles were not calculated for sample sizes less than 10.
 Note: A value of “61” was used for any shower, bath, or bathroom stay longer than 60 minutes. A value of “121” for the sum of shower duration and time spent in bathroom following shower (or the sum of bath duration and time spent in bathroom following bath) signifies that more than 120 minutes were spent.

Source: U.S. EPA re-analysis of source data from U.S. EPA (1996).

Table 16-30. Mean Time Spent (minutes/day) and Bathing/Showering, Adults 18 Years and Older, Doers Only			
Age (years)	Mean No. Baths/Showers per Day ^a	Median Time Spent in Shower/Bath ^b (minutes/bath)	Time Spent in Shower/Bath ^c (minutes/day)
18 to 64	1.27	13.5	17.1
>64	1.14	15.0	17.1
^a	For additional statistics see Table 16-30. Calculated by averaging the reported number of baths/showers taken per day (truncated at 11), by the number of respondents. Respondents responding Missing and Don't Know were excluded (<i>N</i> = 5).		
^b	For additional statistics see Table 16-31.		
^c	Calculated by multiplying the mean number of showers/baths per day by the median time spent in shower/bath.		
Source: U.S. EPA (1996).			

Table 16-31. Number of Times Respondent Took Shower, Doers Only

Category	N	-	1	2	3	4	5	8	10	11+	DK
All	3,594	2	2,747	802	30	1	1	1	1	4	5
Sex											
Male	1,720	-	1,259	436	21	1	-	-	-	1	2
Female	1,872	2	1,486	366	9	-	1	1	1	3	3
Refused	2	-	2	-	-	-	-	-	-	-	-
Age (years)											
-	64	-	46	17	-	-	-	-	-	-	1
1 to 4	41	-	30	9	1	-	-	-	-	-	1
5 to 11	140	-	112	26	1	-	-	-	-	-	1
12 to 17	270	-	199	65	6	-	-	-	-	-	-
18 to 64	2,650	1	1,983	636	21	-	-	-	-	3	2
>64	429	1	377	49	1	-	-	-	-	1	-
Race											
White	2,911	2	2,323	562	17	-	1	-	-	4	2
Black	349	-	199	140	7	1	-	1	-	-	1
Asian	64	-	49	14	1	-	-	-	-	-	-
Some Others	65	-	40	23	2	-	-	-	-	-	-
Hispanic	162	-	103	56	2	-	-	-	1	-	-
Refused	43	-	33	7	1	-	-	-	-	-	2
Hispanic											
No	3,269	2	2,521	711	24	1	1	1	-	4	4
Yes	277	-	190	81	5	-	-	-	1	-	-
DK	17	-	13	4	-	-	-	-	-	-	-
Refused	31	-	23	6	1	-	-	-	-	-	1
Employment											
-	439	-	330	99	8	-	-	-	-	-	2
Full Time	1,838	1	1,361	454	17	-	-	-	1	2	2
Part Time	328	1	261	65	-	-	1	-	-	-	-
Not Employed	967	-	780	177	5	1	-	1	-	2	1
Refused	22	-	15	7	-	-	-	-	-	-	-
Education											
-	515	-	382	121	9	-	-	-	-	-	3
< High School	297	-	240	54	2	-	-	-	-	1	-
High School Graduate	1,042	1	789	243	5	-	1	1	-	1	1
< College	772	1	589	176	4	-	-	-	1	-	1
College Graduate	576	-	434	133	7	1	-	-	-	1	-
Post Graduate	392	-	313	75	3	-	-	-	-	1	-
Census Region											
Northeast	828	-	622	196	7	-	-	-	-	-	3
Midwest	756	-	621	131	3	-	-	-	-	-	1
South	1,246	1	893	334	14	1	-	-	-	3	-
West	764	1	611	141	6	-	1	1	1	1	1
Day Of Week											
Weekday	2,481	-	1,889	563	17	1	1	1	1	4	4
Weekend	1,113	2	858	239	13	-	-	-	-	-	1
Season											
Winter	941	-	732	198	9	-	-	-	-	1	1
Spring	889	-	674	205	7	-	-	-	1	-	2
Summer	1,003	-	735	254	10	1	-	-	-	2	1
Fall	761	2	606	145	4	-	1	1	-	1	1
Asthma											
No	3,312	2	2,543	730	25	1	1	1	1	4	4
Yes	261	-	189	67	5	-	-	-	-	-	-
DK	21	-	15	5	-	-	-	-	-	-	1
Angina											
No	3,481	1	2,653	730	25	1	1	1	1	4	4
Yes	261	-	189	67	5	-	-	-	-	-	-
DK	22	-	17	4	-	-	-	-	-	-	1

Table 16-31. Number of Times Respondent Took Shower, Doers Only (continued)											
Category	<i>N</i>	-	1	2	3	4	5	8	10	11+	DK
Bronchitis/Emphysema											
No	3,419	2	2,620	758	27	1	1	1	1	4	4
Yes	154	-	112	39	3	-	-	-	-	-	-
DK	21	-	15	5	-	-	-	-	-	-	1
-	= Indicates missing data.										
DK	= The respondent replied "don't know".										
Refused	= Refused data.										
<i>N</i>	= Doer sample size.										
SD	= Standard deviation.										
SE	= Standard error.										
Min	= Minimum number of minutes.										
Max	= Maximum number of minutes.										
Source:	U.S. EPA (1996).										

Table 16-32. Time Spent (minutes) Showering and in Shower Room Immediately After Showering (minutes/shower)														
		Duration of Shower												
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		3,547	3	4	5	5	10	15	20	30	35	50	60	61
Gender	Male	1,707	3	4	5	5	10	15	20	30	30	45	60	61
Gender	Female	1,838	3	4	5	5	10	15	20	30	40	60	60	61
Age (years)	1 to 4	40	5	5	5	5	5	10	18	30	50	60	60	60
Age (years)	5 to 11	139	3	4	5	5	10	15	20	30	40	60	60	60
Age (years)	12 to 17	268	5	5	5	7	10	15	25	35	45	60	60	61
Age (years)	18 to 64	2,634	3	3	5	5	10	15	20	30	30	45	60	61
Age (years)	> 64	408	3	3	5	5	10	10	20	30	30	45	60	61
Race	White	2,873	3	4	5	5	10	13	20	30	30	45	60	61
Race	Black	344	4	4	5	6	10	20	20	40	60	60	61	61
Race	Asian	64	1	3	4	5	10	15	20	30	40	48	61	61
Race	Some Others	65	3	3	5	10	10	15	20	45	60	60	61	61
Race	Hispanic	161	3	4	5	6	10	15	20	40	45	60	61	61
Hispanic	No	3,226	3	4	5	5	10	15	20	30	30	45	60	61
Hispanic	Yes	276	3	4	5	6	10	15	23	39	45	60	61	61
Employment	Full Time	1,828	3	4	5	5	10	15	20	30	30	45	60	61
Employment	Part Time	324	2	3	5	5	10	12	20	30	30	45	60	60
Employment	Not Employed	940	3	3	5	5	10	15	20	30	40	60	60	61
Education	< High School	289	4	5	5	8	10	15	20	30	40	60	60	61
Education	High School Graduate	1,030	2	3	5	5	10	15	20	30	40	60	60	61
Education	< College	760	3	5	5	5	10	12	20	30	30	45	60	61
Education	College Graduate	574	3	3	5	5	10	10	20	25	30	40	60	61
Education	Post Graduate	389	2	3	4	5	7	10	15	25	30	45	60	61
Census Region	Northeast	821	4	5	5	5	10	15	20	30	32	50	60	61
Census Region	Midwest	745	3	4	5	5	10	10	20	30	30	45	60	61
Census Region	South	1,220	3	3	5	5	10	15	20	30	40	60	60	61
Census Region	West	761	2	3	5	5	10	10	15	30	30	45	60	61
Day of Week	Weekday	2,447	3	4	5	5	10	15	20	30	35	48	60	61
Day of Week	Weekend	1,100	3	4	5	5	10	15	20	30	40	60	60	61
Season	Winter	929	3	4	5	5	10	15	20	30	40	60	60	61
Season	Spring	875	3	4	5	5	10	15	20	30	40	60	60	61
Season	Summer	992	2	3	5	5	10	15	20	30	40	45	60	61
Season	Fall	751	3	4	5	5	10	12	20	30	30	40	48	61
Asthma	No	3,274	3	4	5	5	10	15	20	30	32	45	60	61
Asthma	Yes	257	3	4	5	5	10	15	20	40	50	60	60	61
Angina	No	3,445	3	4	5	5	10	15	20	30	35	50	60	61
Angina	Yes	84	3	4	5	5	10	15	15	30	30	40	45	45
Bronchitis/Emphysema	No	3,379	3	4	5	5	10	15	20	30	35	50	60	61
Bronchitis/Emphysema	Yes	151	3	4	5	5	10	15	20	30	40	48	60	61

Table 16-32. Time Spent (minutes) Showering and in Shower Room Immediately After Showering (minutes/shower) (continued)														
Duration in Shower Room Immediately Following a Shower (minutes)														
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		3,533	0	0	0	1	3	5	10	20	30	40	50	61
Gender	Male	1,698	0	0	0	1	3	5	10	15	20	30	30	61
Gender	Female	1,833	0	0	0	1	3	5	12	20	30	45	60	61
Age (years)	1 to 4	41	0	0	0	0	1	5	10	15	20	45	45	45
Age (years)	5 to 11	137	0	0	0	1	2	5	10	15	20	30	30	60
Age (years)	12 to 17	2,619	0	0	0	1	3	5	10	20	30	40	52	61
Age (years)	18 to 64	2,619	0	0	0	1	3	5	10	20	30	40	52	61
Age (years)	> 64	409	0	0	0	1	4	5	10	20	30	35	45	60
Race	White	2,872	0	0	0	1	3	5	10	20	30	40	50	61
Race	Black	341	0	0	0	1	3	5	10	20	25	30	45	60
Race	Asian	64	0	0	0	0	2	5	10	15	20	30	60	60
Race	Some Others	62	0	0	0	0	3	5	10	30	35	45	52	52
Race	Hispanic	156	0	0	0	1	3	5	10	20	25	40	60	60
Hispanic	No	3,221	0	0	0	1	3	5	10	20	30	40	50	61
Hispanic	Yes	269	0	0	0	1	3	5	10	20	25	45	60	60
Employment	Full Time	1,818	0	0	0	1	3	5	10	20	30	35	50	60
Employment	Part Time	323	0	0	0	1	3	5	10	20	30	45	50	60
Employment	Not Employed	938	0	0	0	1	3	5	10	20	30	45	60	61
Education	< High School	283	0	0	0	1	3	5	15	20	30	45	45	61
Education	High School Graduate	1,025	0	0	0	1	3	5	10	20	30	45	60	61
Education	< College	761	0	0	0	1	3	5	10	20	30	35	50	61
Education	College Graduate	573	0	0	1	1	3	5	10	20	30	35	45	60
Education	Post Graduate	387	0	0	0	1	2	5	10	20	30	30	45	60
Census Region	Northeast	822	0	0	0	1	3	5	10	20	25	40	50	60
Census Region	Midwest	737	0	0	0	1	3	5	10	20	30	35	45	60
Census Region	South	1,220	0	0	0	1	3	5	10	20	30	40	45	61
Census Region	West	754	0	0	0	1	2	5	10	20	30	30	60	61
Day of Week	Weekday	2,438	0	0	0	1	3	5	10	20	30	40	50	61
Day of Week	Weekend	1,095	0	0	0	1	3	5	10	20	30	40	50	61
Season	Winter	930	0	0	0	1	4	5	10	20	30	40	45	61
Season	Spring	876	0	0	0	1	2	5	10	20	30	45	60	61
Season	Summer	978	0	0	0	1	3	5	10	20	30	30	50	61
Season	Fall	749	0	0	0	1	3	5	10	20	25	40	53	61
Asthma	No	3,260	0	0	0	1	3	5	10	20	30	38	50	61
Asthma	Yes	259	0	0	0	1	3	5	13	20	30	40	45	61
Angina	No	3,429	0	0	0	1	3	5	10	20	30	40	50	61
Angina	Yes	88	0	0	0	2	3	8.5	15	20	30	30	45	45
Bronchitis/Emphysema	No	3,366	0	0	0	1	3	5	10	20	30	40	50	61
Bronchitis/Emphysema	Yes	152	0	0	0	1	2.5	5	10	20	30	30	45	60

N = Doer sample size.

Note: Percentiles are the percentage of doers below or equal to a given number of minutes. A value of 61 for number of minutes signifies that more than 60 minutes were spent.

Source: U.S. EPA (1996).

Table 16-33. Number of Baths Given or Taken in One Day by Number of Respondents

Category	N	Number of Baths/Day										
		1	2	3	4	5	6	7	10	11	15	DK
All	649	459	144	20	9	4	2	1	1	1	3	5
Gender												
Male	159	117	33	5	1	-	1	1	-	-	1	-
Female	490	342	111	15	8	4	1	-	1	1	2	5
Age (years)												
-	9	8	1	-	-	-	-	-	-	-	-	-
18 to 64	491	322	127	20	9	4	2	1	1	1	2	2
> 64	149	129	16	-	-	-	-	-	-	-	1	3
Race												
White	487	364	92	13	7	2	1	-	-	1	2	5
Black	106	68	29	5	1	-	1	1	1	-	-	-
Asian	12	5	5	-	1	-	-	-	-	-	1	-
Some Others	12	7	4	1	-	-	-	-	-	-	-	-
Hispanic	26	10	13	1	-	2	-	-	-	-	-	-
Refused	6	5	1	-	-	-	-	-	-	-	-	-
Hispanic												
No	600	430	127	19	9	2	2	1	1	1	3	5
Yes	40	21	16	1	-	2	-	-	-	-	-	-
DK	6	5	1	-	-	-	-	-	-	-	-	-
Ref	3	3	-	-	-	-	-	-	-	-	-	-
Employment												
-	1	1	-	-	-	-	-	-	-	-	-	-
Full Time	283	183	76	12	5	-	2	1	1	1	1	1
Part Time	76	56	17	1	1	1	-	-	-	-	-	-
Not Employed	287	217	51	7	3	3	-	-	-	-	2	4
Refused	2	2	-	-	-	-	-	-	-	-	-	-
Education												
-	4	4	-	-	-	-	-	-	-	-	-	-
< High School	96	66	19	3	2	2	-	-	-	-	1	3
High School Graduate	235	167	54	8	2	-	1	1	-	-	-	2
< College	163	112	38	6	2	2	1	-	-	1	1	-
College Graduate	102	68	28	3	2	-	-	-	1	-	-	-
Post Graduate	49	42	5	-	1	-	-	-	-	-	1	-
Census Region												
Northeast	137	100	25	3	4	1	1	-	-	1	-	2
Midwest	151	116	29	4	1	-	-	-	1	-	-	-
South	255	164	70	9	2	3	1	1	-	-	2	3
West	106	79	20	4	2	-	-	-	-	-	1	-
Day of Week												
Weekday	415	299	89	10	4	2	2	1	1	1	2	4
Weekend	234	160	55	10	5	2	-	-	-	-	1	1
Season												
Winter	178	124	37	10	1	3	-	-	-	-	1	2
Spring	160	126	27	4	1	-	-	1	-	-	-	1
Summer	174	112	49	4	3	1	1	-	1	-	2	1
Fall	137	97	31	2	4	-	1	-	-	1	-	1
Asthma												
No	596	424	129	19	7	4	2	1	1	1	3	5
Yes	52	34	15	1	2	-	-	-	-	-	-	-
DK	1	1	-	-	-	-	-	-	-	-	-	-
Angina												
No	620	435	141	19	9	4	2	1	1	1	3	4
Yes	26	22	2	1	-	-	-	-	-	-	-	1
DK	3	2	1	-	-	-	-	-	-	-	-	-
Bronchitis/Emphysema												
No	610	429	137	20	9	4	2	1	1	1	2	4
Yes	36	27	7	-	-	-	-	-	-	-	1	1
DK	3	3	-	-	-	-	-	-	-	-	-	-

- = Indicates missing data.
 DK = The respondent replied "don't know".
 N = Doer sample size.
 Refused = Refused data.

Source: U.S. EPA (1996).

Table 16-34. Time Spent (minutes) Giving and Taking the Bath(s) and in Bathroom Immediately After Bathing (minutes/bath)														
Duration of Bath (minutes/bath)														
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		631	2	5	5	10	15	20	30	45	60	61	61	61
Gender	Male	155	1	4	5	6	10	15	30	45	60	61	61	61
Gender	Female	476	3	5	5	10	15	20	30	45	60	61	61	61
Age (years)	18 to 64	485	2	5	5	10	15	20	30	60	60	61	61	61
Age (years)	> 64	139	3	5	5	5	10	15	20	40	60	61	61	61
Race	White	476	1	4	5	10	10	20	30	45	60	61	61	61
Race	Black	102	5	5	9	10	15	23	40	60	61	61	61	61
Race	Asian	12	10	10	10	10	15	20	28	30	40	40	40	40
Race	Some Others	12	5	5	5	10	15	28	30	40	61	61	61	61
Race	Hispanic	25	2	2	5	5	10	20	45	61	61	61	61	61
Hispanic	No	584	2	5	5	10	15	20	30	45	60	61	61	61
Hispanic	Yes	39	2	2	5	5	10	20	30	60	61	61	61	61
Employment	Full Time	279	1	4	5	10	15	20	30	45	60	61	61	61
Employment	Part Time	75	3	4	5	10	10	20	30	35	40	60	60	60
Employment	Not Employed	275	2	5	5	10	10	20	30	60	60	61	61	61
Education	< High School	89	1	5	10	10	15	20	35	60	61	61	61	61
Education	High School Graduate	229	5	5	5	10	12	20	30	45	60	61	61	61
Education	< College	159	1	2	5	6	10	20	30	45	60	61	61	61
Education	College Graduate	102	5	5	8	10	15	20	30	45	60	60	60	61
Education	Post Graduate	49	1	1	5	5	10	15	25	40	45	60	60	60
Census Region	Northeast	132	1	5	5	6	10	15	30	45	60	61	61	61
Census Region	Midwest	149	2	4	5	7	10	20	30	30	60	61	61	61
Census Region	South	246	3	5	10	10	15	20	35	60	60	61	61	61
Census Region	West	104	5	5	5	10	11	20	30	45	60	61	61	61
Day of Week	Weekday	403	2	5	5	10	15	20	30	45	60	61	61	61
Day of Week	Weekend	228	4	5	5	10	10	20	30	60	60	61	61	61
Season	Winter	173	2	5	5	10	10	20	30	45	60	61	61	61
Season	Spring	154	1	3	5	10	10	20	30	45	60	61	61	61
Season	Summer	171	5	5	5	10	10	20	30	60	60	61	61	61
Season	Fall	133	4	5	8	10	15	20	30	45	60	61	61	61
Asthma	No	580	2	5	5	10	12	20	30	45	60	61	61	61
Asthma	Yes	51	4	5	5	10	15	20	30	60	61	61	61	61
Angina	No	606	2	5	5	10	15	20	30	45	60	61	61	61
Angina	Yes	23	5	5	5	5	10	15	30	40	45	60	60	60
Bronchitis/Emphysema	No	595	2	5	5	10	10	20	30	45	60	61	61	61
Bronchitis/Emphysema	Yes	34	5	5	8	15	15	20	30	45	45	60	60	60

Table 16-34. Time Spent (minutes) Giving and Taking the Bath(s) and in Bathroom Immediately After Bathing (minutes/bath) (continued)

		Duration in Bathroom Immediately After the Bath(s) (minutes/bath)												
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		624	0	0	0	0	2	5	10	20	30	45	55	61
Gender	Male	153	0	0	0	0	2	5	10	12	20	30	35	45
Gender	Female	471	0	0	0	0	2	5	10	20	30	45	60	61
Age (years)	18 to 64	484	0	0	0	0	2	5	10	15	25	40	50	61
Age (years)	> 64	133	0	0	0	1	5	10	15	30	35	55	60	60
Race	White	465	0	0	0	0	2	5	10	18	30	45	58	61
Race	Black	104	0	0	0	0	2	5	10	20	30	40	45	45
Race	Asian	12	0	0	0	0	2	5	8	10	20	20	20	20
Race	Some Others	12	0	0	0	0	0	3	8	10	15	15	15	15
Race	Hispanic	26	0	0	0	0	1	5	10	25	25	61	61	61
Hispanic	No	575	0	0	0	0	2	5	10	20	30	40	50	61
Hispanic	Yes	40	0	0	0	0	1	5	10	23	25	61	61	61
Employment	Full Time	277	0	0	0	0	2	5	10	15	20	30	30	45
Employment	Part Time	75	0	0	0	0	3	5	10	15	25	35	40	40
Employment	Not Employed	269	0	0	0	0	2	5	10	25	35	58	60	61
Education	< High School	86	0	0	0	0	5	10	15	30	35	61	61	61
Education	High School Graduate	229	0	0	0	0	2	5	10	15	30	40	45	58
Education	< College	159	0	0	0	0	2	5	10	15	30	45	60	60
Education	College Graduate	100	0	0	0	0	2	5	10	19	25	30	38	45
Education	Post Graduate	47	0	0	0	0	1	5	10	15	20	30	30	30
Census Region	Northeast	129	0	0	0	0	2	5	10	20	30	30	30	60
Census Region	Midwest	146	0	0	0	0	2	5	10	15	25	50	60	60
Census Region	South	246	0	0	0	0	3	5	10	20	30	45	55	61
Census Region	West	103	0	0	0	0	1	5	10	20	20	30	45	58
Day of Week	Weekday	398	0	0	0	0	2	5	10	18	30	40	50	61
Day of Week	Weekend	226	0	0	0	0	3	5	10	20	30	45	60	61
Season	Winter	175	0	0	0	1	3	5	10	20	30	58	61	61
Season	Spring	152	0	0	0	0	2	5	10	20	30	40	45	60
Season	Summer	165	0	0	0	0	2	5	10	15	20	30	45	50
Season	Fall	132	0	0	0	0	2	5	10	15	20	45	55	60
Asthma	No	572	0	0	0	0	2	5	10	20	30	45	58	61
Asthma	Yes	51	0	0	0	0	1	5	10	15	30	30	45	45
Angina	No	597	0	0	0	0	2	5	10	20	30	45	58	61
Angina	Yes	24	0	0	0	1	5	5	10	15	30	55	55	55
Bronchitis/Emphysema	No	588	0	0	0	0	2	5	10	20	30	45	58	61
Bronchitis/Emphysema	Yes	33	0	0	0	0	2	5	10	30	40	45	45	45

N = Doer sample size.
 Note: Percentiles are the percentage of doers below or equal to a given number of minutes. A value of 61 for number of minutes signifies that more than 60 minutes were spent.

Source: U.S. EPA (1996).

Table 16-35. Time Spent Altogether in the Shower or Bathtub and in the Bathroom Immediately Following a Shower or Bath (minutes/bath)														
Duration in Shower or Bathtub (minutes/bath)														
Group Name	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		4,252	3	4	5	5	10	15	20	30	35	60	60	121
Gender	Male	1,926	3	4	5	5	10	15	20	30	30	60	60	121
Gender	Female	2,325	3	4	5	5	10	15	20	30	40	60	75	121
Age (years)	1 to 4	198	1	5	5	10	15	20	30	45	60	120	120	120
Age (years)	5 to 11	263	4	5	5	10	13	20	30	30	60	90	120	121
Age (years)	12 to 17	239	4	4	5	7	10	15	30	30	45	60	60	120
Age (years)	18 to 64	2,904	3	4	5	5	10	14	20	30	30	50	60	121
Age (years)	> 64	567	2	3	5	5	10	15	20	30	30	45	60	120
Race	White	3,425	3	4	5	5	10	15	20	30	30	60	60	121
Race	Black	446	4	4	5	6	10	15	25	30	45	75	120	121
Race	Asian	74	5	5	5	7	10	15	15	30	30	60	90	90
Race	Some Others	78	5	5	5	7	10	15	30	30	45	60	60	60
Race	Hispanic	178	1	3	5	7	10	15	20	30	45	90	100	120
Hispanic	No	3,861	3	4	5	5	10	15	20	30	35	60	60	121
Hispanic	Yes	328	1	3	5	5	10	15	20	30	45	60	90	120
Employment	Full Time	1,974	3	4	5	5	10	10	20	30	30	45	60	121
Employment	Part Time	395	3	3	5	5	10	15	20	30	30	45	60	60
Employment	Not Employed	1,161	2	3	5	5	10	15	20	30	35	60	60	121
Education	< High School	376	1	4	5	5	10	15	25	30	45	60	90	121
Education	High School Graduate	1,242	3	4	5	5	10	15	20	30	30	60	60	121
Education	< College	862	3	4	5	5	10	15	20	30	30	45	60	120
Education	College Graduate	554	3	3	5	5	10	10	15	30	30	45	90	120
Education	Post Graduate	449	3	4	5	5	8	10	15	20	30	45	60	121
Census Region	Northeast	920	4	4	5	5	10	15	20	30	35	60	100	121
Census Region	Midwest	947	3	4	5	5	10	15	20	30	30	45	60	120
Census Region	South	1,497	3	4	5	5	10	15	20	30	45	60	75	121
Census Region	West	888	3	3	5	5	10	15	20	30	30	45	60	121
Day of Week	Weekday	2,858	3	4	5	5	10	15	20	30	30	60	60	121
Day of Week	Weekend	1,394	3	4	5	5	10	15	20	30	40	60	75	121
Season	Winter	1,116	3	4	5	5	10	15	20	30	35	60	60	121
Season	Spring	1,130	3	4	5	5	10	15	20	30	40	60	90	121
Season	Summer	1,154	3	4	5	5	10	15	20	30	40	60	60	121
Season	Fall	852	3	5	5	5	10	15	20	30	30	60	60	121
Asthma	No	3,911	3	4	5	5	10	15	20	30	30	60	60	121
Asthma	Yes	325	3	4	5	5	10	15	20	30	45	60	120	121
Angina	No	4,117	3	4	5	5	10	15	20	30	35	60	60	121
Angina	Yes	111	3	4	5	5	10	15	20	30	30	45	45	60
Bronchitis/Emphysema	No	4,025	3	4	5	5	10	15	20	30	30	60	60	121
Bronchitis/Emphysema	Yes	205	1	3	5	5	10	15	20	30	45	60	120	121

Table 16-35. Time Spent Altogether in the Shower or Bathtub and in the Bathroom Immediately Following a Shower or Bath (minutes/bath) (continued)

		Duration in Bathroom Immediately Following a Shower or Bath (minutes/bath)												
Group Name	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		4,182	0	0	0	1	4	5	15	20	30	40	60	121
Gender	Male	1,897	0	0	0	1	3	5	10	15	20	30	40	121
Gender	Female	2,284	0	0	0	1	5	10	15	30	30	45	60	121
Age (years)	1 to 4	196	0	0	0	0	0	2	5	10	15	20	35	45
Age (years)	5 to 11	260	0	0	0	0	2	5	10	15	15	30	35	120
Age (years)	12 to 17	238	0	0	0	2	5	5	10	20	30	45	45	60
Age (years)	18 to 64	2,866	0	0	0	1	5	10	15	20	30	45	60	121
Age (years)	> 64	548	0	0	0	1	4	10	15	20	30	40	60	120
Race	White	3,372	0	0	0	1	4	5	15	20	30	40	60	121
Race	Black	438	0	0	0	0	4	6	15	30	30	60	60	60
Race	Asian	74	0	0	0	0	2	5	10	20	30	35	45	45
Race	Some Others	76	0	0	0	1	5	10	15	20	25	30	60	60
Race	Hispanic	176	0	0	1	1	3	5	10	20	30	30	30	60
Hispanic	No	3,797	0	0	0	1	4	5	15	20	30	45	60	121
Hispanic	Yes	325	0	0	0	1	3	5	10	20	30	30	30	60
Employment	Full Time	1,949	0	0	0	1	5	10	15	20	30	40	60	121
Employment	Part Time	392	0	0	0	2	5	10	15	25	30	45	60	120
Employment	Not Employed	1,129	0	0	0	1	5	10	15	20	30	45	60	121
Education	< High School	358	0	0	0	1	5	10	15	30	30	60	90	121
Education	High School Graduate	1,220	0	0	0	1	5	10	15	25	30	45	60	121
Education	< College	847	0	0	0	1	5	10	15	20	30	30	60	121
Education	College Graduate	550	0	0	1	2	5	10	15	20	30	45	45	60
Education	Post Graduate	446	0	0	0	1	5	8	15	20	30	30	50	120
Census Region	Northeast	907	0	0	0	1	5	5	10	20	30	30	45	121
Census Region	Midwest	929	0	0	0	1	5	5	15	20	30	45	60	121
Census Region	South	1,472	0	0	0	1	4	5	15	20	30	40	60	121
Census Region	West	874	0	0	0	1	3	5	10	20	30	45	45	60
Day of Week	Weekday	2,802	0	0	0	1	4	5	10	20	30	35	50	121
Day of Week	Weekend	1,380	0	0	0	1	4	8	15	20	30	45	60	121
Season	Winter	1,090	0	0	0	1	5	7	15	20	30	45	60	121
Season	Spring	1,119	0	0	0	1	3	5	10	20	30	45	50	120
Season	Summer	1,129	0	0	0	1	3	5	10	20	30	40	52	120
Season	Fall	844	0	0	0	1	5	8	15	20	30	35	60	121
Asthma	No	3,845	0	0	0	1	4	5	15	20	30	40	60	121
Asthma	Yes	322	0	0	0	0	3	5	10	20	30	60	90	121
Angina	No	4,052	0	0	0	1	4	5	15	20	30	40	60	121
Angina	Yes	108	0	0	0	0	5	6	13	20	30	30	30	60
Bronchitis/emphysema	No	3,961	0	0	0	1	4	5	15	20	30	40	60	121
Bronchitis/emphysema	Yes	201	0	0	0	0	4	10	10	30	30	60	88	121

N = Doer sample size.

Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent. Percentiles are the percentage of doers below or equal to a given number of minutes.

Source: U.S. EPA (1996).

Table 16-36. Time Spent (minutes/day) Bathing and Showering, Doers Only ^a

Group Name	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		6,416	26.1	29.7	0.4	1	705	5	10	20	30	50	60	90	120	
Sex	Male	2,930	24.2	31.0	0.6	1	705	5	10	20	30	45	60	75	100	
Sex	Female	3,484	27.6	28.4	0.5	1	555	5	10	20	30	60	75	105	135	
Sex	Refused	2	20.0	14.1	10.0	10	30	10	10	20	30	30	30	30	30	
Age (years)	-	114	29.0	39.0	3.7	2	300	5	10	20	30	60	60	105	275	
Age (years)	1 to 4	330	30.0	19.4	1.1	1	170	10	15	30	31	55	60	85	90	
Age (years)	5 to 11	438	25.8	35.3	1.7	1	690	5	15	20	30	45	60	60	75	
Age (years)	12 to 17	444	23.1	18.7	0.9	1	210	5	10	18	30	45	60	65	90	
Age (years)	18 to 64	4,383	25.4	27.2	0.4	1	555	5	10	20	30	50	60	90	120	
Age (years)	>64	707	29.9	44.5	1.7	1	705	5	10	20	30	60	85	120	150	
Race	White	5,117	25.0	28.5	0.4	1	705	5	10	20	30	45	60	90	115	
Race	Black	707	31.5	31.6	1.2	1	295	5	15	22	40	60	80	120	170	
Race	Asian	112	28.2	29.8	2.8	5	270	5	15	20	30	60	75	90	90	
Race	Some Others	122	30.2	27.3	2.5	1	240	8	15	28	35	50	60	100	150	
Race	Hispanic	280	28.8	39.3	2.3	2	546	5	15	20	32	55	63	90	155	
Race	Refused	78	27.6	40.3	4.6	3	275	5	10	15	30	60	100	195	275	
Hispanic	No	5,835	25.9	28.5	0.4	1	705	5	10	20	30	50	60	90	120	
Hispanic	Yes	486	28.8	40.6	1.8	2	570	5	15	20	30	50	60	90	140	
Hispanic	DK	33	25.8	16.8	2.9	5	65	10	15	20	30	55	65	65	65	
Hispanic	Refused	62	24.3	37.2	4.7	3	275	5	10	15	25	30	60	105	275	
Employment	-	1,189	26.1	26.4	0.8	1	690	5	15	20	30	45	60	75	90	
Employment	Full Time	3,095	24.1	25.1	0.5	1	555	5	10	15	30	45	60	85	110	
Employment	Part Time	558	24.8	23.2	1.0	1	295	5	10	20	30	46	60	90	110	
Employment	Not Employed	1,528	30.3	39.9	1.0	1	705	5	10	20	30	60	85	120	155	
Employment	Refused	46	30.4	45.2	6.7	3	275	5	10	15	30	55	105	275	275	
Education	-	1,330	25.7	26.4	0.7	1	690	5	15	20	30	45	60	75	90	
Education	< High School	474	33.3	53.0	2.4	1	570	5	15	21	33	60	85	110	300	
Education	High School Graduate	1,758	25.8	23.6	0.6	1	270	5	10	20	30	50	60	90	120	
Education	< College	1,288	26.4	27.0	0.8	1	255	5	10	20	30	55	75	105	150	
Education	College Graduate	897	25.4	34.8	1.2	1	705	5	10	15	30	50	65	105	135	
Education	Post Graduate	669	22.8	23.1	0.9	1	257	5	10	15	30	45	60	85	100	
Census Region	Northeast	1,444	25.0	24.3	0.6	1	360	5	10	20	30	50	60	90	105	
Census Region	Midwest	1,402	24.6	30.3	0.8	1	570	5	10	15	30	45	60	85	115	
Census Region	South	2,266	27.4	26.1	0.5	1	300	5	15	20	30	55	65	100	135	
Census Region	West	1,304	26.5	38.8	1.1	1	705	5	10	20	30	48	60	90	133	
Day Of Week	Weekday	4,427	25.3	30.3	0.5	1	705	5	10	20	30	45	60	90	115	
Day Of Week	Weekend	1,989	27.9	28.2	0.6	1	555	5	15	20	30	60	68	100	130	
Season	Winter	1,796	26.9	26.9	0.6	1	546	5	11	20	30	50	60	90	110	
Season	Spring	1,645	28.6	41.1	1.0	1	705	5	15	20	30	60	70	115	150	
Season	Summer	1,744	23.9	20.7	0.5	1	270	5	10	20	30	45	60	80	100	
Season	Fall	1,231	24.7	25.6	0.7	1	340	5	10	17	30	50	60	95	120	
Asthma	No	5,912	26.1	30.0	0.4	1	705	5	10	20	30	50	60	90	120	
Asthma	Yes	468	26.5	23.0	1.1	1	210	5	15	20	30	46	60	100	120	
Asthma	DK	36	23.1	44.1	7.3	3	275	5	10	15	25	30	30	275	275	
Angina	No	6,243	26.0	29.0	0.4	1	705	5	10	20	30	50	60	90	120	
Angina	Yes	131	31.1	49.5	4.3	5	546	5	15	25	30	50	60	105	131	
Angina	DK	42	22.2	40.9	6.3	3	275	5	10	15	25	30	30	275	275	
Bronchitis/Emphysema	No	6,112	26.1	29.9	0.4	1	705	5	10	20	30	50	60	90	120	
Bronchitis/Emphysema	Yes	268	27.2	22.2	1.4	1	150	5	13	20	30	60	60	95	131	
Bronchitis/Emphysema	DK	36	22.5	44.1	7.3	3	275	5	10	15	23	30	30	275	275	

- = Indicates missing data.
 DK = The respondent replied "don't know".
 Refused = Refused data.
 N = Doer sample size.
 SD = Standard deviation.
 SE = Standard error.
 Min = Minimum number of minutes.
 Max = Maximum number of minutes.

^a Includes baby and child care, personal care services, washing and personal hygiene (bathing, showering, etc.).

Source: U.S. EPA (1996).

Table 16-37. Number of Times Washing the Hands at Specified Daily Frequencies, Children <21 Years

Age (years)	N	Number of Times/Day							
		0	1-2	3-5	6-9	10-19	20-29	30+	DK
Birth to <1	37	2	15	12	2	1	1	0	4
1 to <2	53	7	8	23	8	4	0	2	1
2 to <3	67	0	15	39	10	0	1	0	2
3 to <6	187	2	37	101	27	10	1	2	7
6 to <11	245	2	47	131	34	16	3	1	11
11 to <16	258	8	37	128	49	22	5	2	7
16 to <21	232	0	23	115	47	38	4	3	2

N = Number of respondents.

DK = Respondents answered "don't know."

Source: U.S. EPA re-analysis of source data from U.S. EPA (1996).

Table 16-38. Number of Times Washing the Hands at Specified Daily Frequencies, Doers Only										
	Number of Times/Day									
	N	-	0-0	1-2	3-5	6-9	10-19	20-29	30+	DK
All	4,663	38	34	311	1,692	1,106	892	223	178	189
Sex										
Male	2,163	16	19	218	975	487	286	59	49	54
Female	2,498	22	15	92	716	619	606	164	129	135
Refused	2	-	-	1	1	-	-	-	-	-
Age (years)										
-	84	8	-	1	25	15	11	4	5	15
1 to 4	263	-	15	62	125	35	11	2	3	10
5 to 11	348	1	5	61	191	48	21	4	2	15
12 to 17	326	3	6	46	159	64	30	7	2	9
18 to 64	2,972	18	7	131	1,029	760	640	168	143	76
>64	670	8	1	10	163	184	179	38	23	64
Race										
White	3,774	21	28	251	1,377	902	740	181	140	134
Black	463	6	2	30	149	120	85	19	23	29
Asian	77	1	-	5	29	19	12	4	1	6
Some Others	96	-	1	10	39	16	15	8	5	2
Hispanic	193	1	3	14	78	42	31	10	5	9
Refused	60	9	-	1	20	7	9	1	4	9
Hispanic										
No	4,244	27	29	276	1,536	1,022	823	205	164	162
Yes	347	2	5	33	130	76	57	17	10	17
DK	26	-	-	1	12	4	5	1	1	2
Refused	46	9	-	1	14	4	7	-	3	8
Employment										
-	926	4	26	165	471	145	61	13	7	34
Full Time	2,017	12	4	96	707	525	406	116	103	48
Part Time	379	-	-	13	142	101	86	10	15	12
Not Employed	1,309	18	4	36	365	327	334	83	52	90
Refused	32	4	-	1	7	8	5	1	1	5
Education										
-	1,021	13	26	174	507	158	74	13	12	44
< High School	399	2	-	8	120	96	88	26	24	35
High School Graduate	1,253	12	4	56	391	318	298	70	47	57
< College	895	2	3	28	284	246	197	59	48	28
College Graduate	650	6	-	23	238	174	139	28	27	15
Post Graduate	445	3	1	22	152	114	96	27	20	10
Census Region										
Northeast	1,048	9	6	68	404	243	195	55	38	30
Midwest	1,036	5	7	68	373	251	212	41	38	41
South	1,601	14	11	108	559	379	299	79	66	86
West	978	10	10	67	356	233	186	48	36	32
Day of Week										
Weekday	3,156	34	22	199	1,103	764	599	155	147	133
Weekend	1,507	4	12	112	589	342	293	68	31	56
Season										
Winter	1,264	6	10	91	507	286	223	55	51	35
Spring	1,181	13	9	78	406	283	238	60	44	50
Summer	1,275	15	9	78	443	315	232	65	48	70
Fall	943	4	6	64	336	222	199	43	35	34
Asthma										
No	4,287	28	32	283	1,562	1,024	819	207	165	167
Yes	341	1	2	26	126	77	69	16	10	14
DK	35	9	-	2	4	5	4	-	3	8
Angina										
No	4,500	28	34	306	1,652	1,069	851	218	171	171
Yes	125	2	-	3	32	34	36	5	3	10
DK	38	8	-	2	8	3	5	-	4	8
Bronchitis/Emphysema										
No	4,424	27	33	302	1,627	1,040	835	213	172	175
Yes	203	3	1	7	57	61	55	10	3	6
DK	36	8	-	2	8	5	2	-	3	8
-	= Indicates missing data.									
DK	= The respondent replied "don't know".									
Refused	= Refused data.									
N	= Doer sample size.									
SD	= Standard deviation.									
SE	= Standard error.									
Min	= Minimum number of minutes.									
Max	= Maximum number of minutes.									
Source:	U.S. EPA (1996).									

Table 16-39. Number of Times Swimming in a Month in Freshwater Swimming Pool, Children <21 Years

Age (year)	N	Times/Month															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Birth to <1	10	1	4	1	0	0	2	0	0	0	1	0	0	0	0	0	
1 to <2	8	2	3	1	0	1	0	0	1	0	0	0	0	0	0	0	
2 to <3	18	3	4	1	0	1	1	0	1	1	2	0	2	0	0	1	
3 to <6	45	5	7	6	5	2	1	1	2	0	2	0	0	1	1	5	
6 to <11	76	15	10	5	5	5	3	1	3	0	6	0	5	0	0	7	
11 to <16	66	19	10	6	3	5	4	1	3	1	4	0	1	0	0	2	
16 to <21	50	6	6	2	6	6	2	2	1	0	5	1	1	0	0	0	

Age (year)	N	Times/Month															DK
		18	20	23	24	25	26	28	29	30	32	40	42	45	50	60	
Birth to <1	10	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
1 to <2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2 to <3	18	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
3 to <6	45	0	2	0	0	1	0	0	0	3	1	0	0	0	0	0	
6 to <11	76	0	3	0	1	1	0	0	0	3	0	0	0	0	1	0	
11 to <16	66	1	2	0	0	0	0	0	0	2	0	0	0	0	0	1	
16 to <21	50	0	6	0	0	1	2	0	0	3	0	0	0	0	0	0	

N = Doer sample size.
 DK = Respondents answered "don't know."

Source: U.S. EPA re-analysis of source data from U.S. EPA (1996).

Table 16-40. Time Spent (minutes/month) Swimming in Freshwater Swimming Pool, Children <21 Years

Age (years)	N	Mean	Min	Percentiles											Max	
				1	2	5	10	25	50	75	90	95	98	99		
Birth to <1	10	96	6	-	-	-	-	-	-	-	-	-	-	-	-	181
1 to <2	7	105	45	-	-	-	-	-	-	-	-	-	-	-	-	181
2 to <3	18	116	15	16	17	19	27	60	120	181	181	181	181	181	181	181
3 to <6	42	137	6	8	9	12	40	83	181	181	181	181	181	181	181	181
6 to <11	72	151	8	13	17	30	60	150	181	181	181	181	181	181	181	181
11 to <16	65	139	4	8	11	20	30	90	181	181	181	181	181	181	181	181
16 to <21	50	145	2	3	5	25	39	124	181	181	181	181	181	181	181	181

N = Doer sample size.
 Min = Minimum.
 Max = Maximum.
 - = Percentiles were not calculated for sample sizes of 10 or fewer.
 Note: A value of 181 for number of minutes signifies that more than 180 minutes were spent.

Source: U.S. EPA re-analysis of source data from U.S. EPA (1996).

Table 16-41. Number of Times Swimming in a Month in Freshwater Swimming Pool, Doers Only																	
	Times/Month																
	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
All	653	147	94	73	47	42	26	11	26	2	38	3	27	2	2	27	2
Sex																	
Male	300	62	47	37	20	16	17	5	9	2	16	2	13	1	-	16	1
Female	352	85	47	36	27	26	9	6	17	-	22	1	14	1	1	11	1
Refused	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Age (years)																	
-	8	2	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-
1 to 4	63	11	14	7	3	3	4	1	3	1	4	-	2	1	1	2	-
5 to 11	100	16	15	7	9	6	4	2	4	-	7	-	5	-	-	11	2
12 to 17	84	21	13	7	4	8	4	2	3	1	8	-	1	-	-	2	-
18 to 64	360	86	48	50	27	22	11	5	14	-	18	3	15	1	1	10	-
>64	38	11	2	1	3	2	2	1	2	-	1	-	4	-	-	2	-
Race																	
White	555	126	74	64	44	32	25	10	23	2	36	1	23	2	2	21	1
Black	30	8	7	1	-	2	-	-	1	-	-	2	-	-	-	2	1
Asian	13	3	2	2	-	1	-	1	1	-	1	-	1	-	-	-	-
Some Others	12	2	-	2	2	1	-	-	-	-	-	-	-	-	-	4	-
Hispanic	35	5	8	4	1	6	1	-	1	-	1	-	3	-	-	-	-
Refused	8	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hispanic																	
No	591	135	81	68	44	35	25	10	25	2	36	3	24	1	2	24	2
Yes	55	10	11	5	2	6	1	1	1	-	2	-	3	1	-	3	-
DK	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
Refused	5	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Employment																	
-	243	47	41	21	17	15	12	5	10	2	18	-	8	1	1	15	2
Full Time	240	56	38	38	15	13	10	3	8	-	10	1	8	1	1	6	-
Part Time	43	13	2	4	3	8	-	1	1	-	4	2	2	-	-	1	-
Not Employed	122	30	12	10	12	6	3	2	7	-	6	-	9	-	-	5	-
Refused	5	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Education																	
-	257	51	43	21	18	17	12	5	11	2	19	-	8	1	1	15	2
< High School	16	2	2	3	-	3	1	1	1	-	-	1	-	-	-	-	-
High School Graduate	112	28	15	16	11	6	5	1	1	-	5	1	5	-	1	3	-
<College	104	29	11	11	2	9	2	3	7	-	4	1	7	-	-	3	-
College Graduate	93	22	12	14	10	2	3	-	2	-	5	-	6	-	-	4	-
Post Graduate	71	15	11	8	6	5	3	1	4	-	5	-	1	1	-	2	-
Census Region																	
Northeast	136	32	15	10	16	9	4	1	4	-	13	1	8	1	2	4	-
Midwest	130	35	21	17	8	6	7	2	4	-	9	-	4	1	-	6	-
South	235	46	36	29	13	15	12	7	10	2	10	2	8	-	-	9	2
West	152	34	22	17	10	12	3	1	8	-	6	-	7	-	-	8	-
Day of Week																	
Weekday	445	97	67	52	36	25	15	9	14	1	24	2	18	2	2	21	1
Weekend	208	50	27	21	11	17	11	2	12	1	14	1	9	-	-	6	1
Season																	
Winter	62	19	12	5	3	1	2	-	6	-	2	1	3	-	-	-	-
Spring	174	55	25	19	13	9	7	3	7	-	8	-	7	-	-	2	1
Summer	363	61	45	41	29	26	15	8	12	2	27	2	14	2	2	24	1
Fall	54	12	12	8	2	6	2	-	1	-	1	-	3	-	-	1	-
Asthma																	
No	590	132	81	67	43	38	25	10	24	2	37	3	25	2	2	22	2
Yes	56	14	11	5	4	3	1	1	2	-	1	-	2	-	-	5	-
DK	7	1	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-
Angina																	
No	639	143	90	73	47	41	26	10	26	2	37	3	27	2	2	26	2
Yes	8	3	1	-	-	1	-	1	-	-	-	-	-	-	-	1	-
DK	6	1	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Bronchitis/Emphysema																	
No	621	138	91	71	45	40	25	10	24	2	38	2	27	2	2	25	2
Yes	26	8	1	2	1	2	1	1	1	-	-	1	-	-	-	2	-
DK	6	1	2	-	1	-	-	-	1	-	-	-	-	-	-	-	-

Table 16-41. Number of Times Swimming in a Month in Freshwater Swimming Pool, Doers Only (continued)

	Times/Month																
	18	20	23	24	25	26	28	29	30	31	32	40	42	45	50	60	DK
All	2	25	1	1	9	2	1	1	26	2	1	2	2	1	1	2	5
Sex																	
Male	-	10	-	-	4	2	1	-	10	2	1	1	1	-	-	-	4
Female	2	15	1	1	5	-	-	1	16	-	-	1	1	1	1	2	1
Refused	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Age (years)																	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to 4	-	2	-	-	-	-	-	1	2	-	1	-	-	-	-	-	-
5 to 11	-	3	-	1	2	-	-	-	5	-	-	-	-	-	1	-	-
12 to 17	1	4	-	-	-	1	-	-	2	-	-	-	-	-	-	1	1
18 to 64	-	15	1	-	7	1	1	-	15	2	-	2	1	1	-	-	3
>64	1	1	-	-	-	-	-	-	2	-	-	-	1	-	-	1	1
Race																	
White	2	19	1	1	9	2	1	1	19	2	1	2	2	-	-	2	5
Black	-	3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
Asian	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Some Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Hispanic	-	1	-	-	-	-	-	-	3	-	-	-	-	1	-	-	-
Refused	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Hispanic																	
No	2	23	1	1	9	2	1	1	20	2	1	2	2	-	1	2	4
Yes	-	1	-	-	-	-	-	-	6	-	-	-	-	1	-	-	1
DK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Refused	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Employment																	
-	1	9	-	1	2	1	-	1	9	-	1	-	-	-	1	1	1
Full Time	-	8	-	-	5	-	1	-	10	2	-	2	1	1	-	-	2
Part Time	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-
Not Employed	1	7	1	-	1	1	-	-	6	-	-	-	1	-	-	1	1
Refused	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Education																	
-	1	11	-	1	2	2	-	1	9	-	1	-	-	-	1	1	1
< High School	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
High School Graduate	-	6	-	-	1	-	-	-	4	-	-	-	1	-	-	1	1
< College	-	3	1	-	4	-	-	-	4	-	-	-	-	1	-	-	2
College Graduate	-	2	-	-	2	-	-	-	3	2	-	2	1	-	-	-	1
Post Graduate	1	2	-	-	-	-	1	-	5	-	-	-	-	-	-	-	-
Census Region																	
Northeast	-	7	-	-	2	1	-	-	2	1	-	1	1	-	-	-	1
Midwest	-	4	-	-	1	-	-	-	4	-	-	-	1	-	-	-	-
South	2	7	1	1	4	-	1	1	9	1	-	1	-	-	1	1	4
West	-	7	-	-	2	1	-	-	11	-	1	-	-	1	-	1	-
Day of Week																	
Weekday	1	18	1	1	7	1	1	-	19	-	1	1	-	1	1	2	4
Weekend	1	7	-	-	2	1	-	1	7	2	-	1	2	-	-	-	1
Season																	
Winter	1	3	-	-	-	1	1	-	-	1	-	-	1	-	-	-	-
Spring	-	8	-	-	2	-	-	-	3	-	-	-	1	-	1	1	2
Summer	1	10	1	1	7	1	-	1	21	1	1	2	-	1	-	1	3
Fall	-	4	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
Asthma																	
No	2	21	1	1	9	1	1	1	23	2	1	2	2	1	-	2	5
Yes	-	3	-	-	-	1	-	-	2	-	-	-	-	-	1	-	-
DK	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Angina																	
No	2	24	1	1	9	2	1	1	26	2	1	2	1	1	1	2	5
Yes	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
DK	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bronchitis/Emphysema																	
No	2	22	1	1	9	2	1	1	23	2	1	2	2	1	1	2	4
Yes	-	2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1
DK	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	= Indicates missing data.																
DK	= The respondent replied "don't know".																
Refused	= Refused data.																
N	= Doer sample size.																
SD	= Standard deviation.																
SE	= Standard error.																
Min	= Minimum number of minutes.																
Max	= Maximum number of minutes.																
Source:	U.S. EPA (1996).																

Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		640	2	3	10	15	30	60	90	180	181	181	181	181
Sex	Male	295	3	4	8	10	30	45	90	180	181	181	181	181
Sex	Female	345	2	3	10	15	30	60	90	180	181	181	181	181
Age (years)	1 to 4	60	3	3	8	15	20	43	120	180	181	181	181	181
Age (years)	5 to 11	95	2	3	20	30	45	60	120	180	181	181	181	181
Age (years)	12 to 17	83	4	5	15	20	40	60	120	180	181	181	181	181
Age (years)	18 to 64	357	2	3	5	10	20	45	60	120	181	181	181	181
Age (years)	>64	38	5	5	8	10	30	40	60	120	120	181	181	181
Race	White	548	2	3	10	15	30	45	90	180	181	181	181	181
Race	Black	27	10	10	15	30	60	60	150	181	181	181	181	181
Race	Asian	13	4	4	4	20	30	60	60	120	181	181	181	181
Race	Some Others	12	2	2	2	15	25	60	150	181	181	181	181	181
Race	Hispanic	34	3	3	5	10	20	60	120	180	181	181	181	181
Hispanic	No	580	2	3	10	15	30	60	90	180	181	181	181	181
Hispanic	Yes	54	3	5	5	15	30	53	120	180	181	181	181	181
Employment	Full Time	237	3	4	5	10	20	45	60	150	181	181	181	181
Employment	Part Time	43	2	2	5	15	20	30	90	120	181	181	181	181
Employment	Not Employed	121	2	2	8	10	20	45	60	120	180	181	181	181
Education	< High School	16	1	1	1	2	13	30	61	181	181	181	181	181
Education	High School Graduate	111	3	5	8	10	30	60	90	180	181	181	181	181
Education	< College	102	3	3	5	10	20	30	60	120	120	180	181	181
Education	College Graduate	92	2	3	10	15	23	43	61	150	181	181	181	181
Education	Post Graduate	71	5	10	10	10	20	30	60	70	120	180	181	181
Census Region	Northeast	134	4	8	10	15	30	45	120	180	181	181	181	181
Census Region	Midwest	127	5	5	10	15	30	45	90	150	180	181	181	181
Census Region	South	227	2	3	5	15	30	60	120	180	181	181	181	181
Census Region	West	152	2	3	5	10	20	45	61	120	180	181	181	181
Day of Week	Weekday	434	2	3	8	10	30	60	90	180	181	181	181	181
Day of Week	Weekend	206	4	5	10	15	30	60	90	180	181	181	181	181
Season	Winter	60	2	3	5	13	30	53	90	120	181	181	181	181
Season	Spring	171	2	4	5	10	20	40	60	120	180	181	181	181
Season	Summer	356	3	3	10	15	30	60	120	180	181	181	181	181
Season	Fall	53	2	10	10	10	20	45	70	180	181	181	181	181
Asthma	No	578	2	3	10	15	30	55	90	180	181	181	181	181
Asthma	Yes	55	2	3	4	10	30	60	120	180	181	181	181	181
Angina	No	626	2	3	10	15	30	60	90	180	181	181	181	181
Angina	Yes	8	15	15	15	15	25	43	75	120	120	120	120	120
Bronchitis/Emphysema	No	608	3	3	10	15	30	60	90	180	181	181	181	181
Bronchitis/Emphysema	Yes	26	2	2	5	5	15	43	60	181	181	181	181	181

N = Doer sample size.
 Note: A Value of 181 for number of minutes signifies that more than 180 minutes were spent.
 Source: U.S. EPA (1996).

Table 16-43. Time Spent (minutes/day) Playing on Dirt, Sand/Gravel, or Grass Whole Population and Doers Only, Children <21 Years

Age (years)	N	Mean	Min	Percentiles											Max	
				1	2	5	10	25	50	75	90	95	98	99		
Playing on Dirt—Whole Population																
Birth to <1	11	15	0	0	0	0	0	0	0	0	10	20	71	101	111	121
1 to <2	37	20	0	0	0	0	0	0	0	0	10	84	121	121	121	121
2 to <3	61	18	0	0	0	0	0	0	0	0	20	60	120	121	121	121
3 to <6	179	29	0	0	0	0	0	0	0	0	59	120	121	121	121	121
6 to <11	98	28	0	0	0	0	0	0	0	0	60	120	121	121	121	121
11 to <16	35	25	0	0	0	0	0	0	0	1	30	77	120	120	121	121
16 to <21	7	9	0	-	-	-	-	-	-	-	-	-	-	-	-	30
Playing on Dirt—Doers Only																
Birth to <1	5	33	2	-	-	-	-	-	-	-	-	-	-	-	-	121
1 to <2	13	56	5	5	5	5	6	10	45	120	121	121	121	121	121	121
2 to <3	24	47	5	5	5	5	7	15	30	60	121	121	121	121	121	121
3 to <6	82	63	1	1	1	1	6	30	60	120	121	121	121	121	121	121
6 to <11	44	63	2	3	5	10	15	30	60	120	121	121	121	121	121	121
11 to <16	18	49	1	2	2	4	9	19	30	60	120	120	121	121	121	121
16 to <21	2	30	30	-	-	-	-	-	-	-	-	-	-	-	-	30
Playing on Sand/Gravel—Whole Population																
Birth to <1	10	4	0	-	-	-	-	-	-	-	-	-	-	-	-	20
1 to <2	37	17	0	0	0	0	0	0	0	30	60	84	121	121	121	121
2 to <3	58	24	0	0	0	0	0	0	0	30	120	121	121	121	121	121
3 to <6	186	30	0	0	0	0	0	0	2	60	120	121	121	121	121	121
6 to <11	101	30	0	0	0	0	0	0	0	60	120	121	121	121	121	121
11 to <16	36	30	0	0	0	0	0	0	0	38	120	121	121	121	121	121
16 to <21	8	42	0	-	-	-	-	-	-	-	-	-	-	-	-	121
Playing on Sand/Gravel—Doers Only																
Birth to <1	2	18	15	-	-	-	-	-	-	-	-	-	-	-	-	20
1 to <2	15	43	5	5	5	5	7	15	30	60	103	121	121	121	121	121
2 to <3	26	53	1	1	1	1	3	10	30	120	121	121	121	121	121	121
3 to <6	93	60	3	3	3	5	8	25	60	90	121	121	121	121	121	121
6 to <11	46	67	5	7	10	11	15	30	60	120	121	121	121	121	121	121
11 to <16	16	67	1	3	5	12	15	26	60	120	121	121	121	121	121	121
16 to <21	4	83	30	-	-	-	-	-	-	-	-	-	-	-	-	121
Playing on Grass—Whole Population																
Birth to <1	11	43	0	0	0	0	0	2	30	73	121	121	121	121	121	121
1 to <2	38	62	0	0	0	0	9	16	60	120	121	121	121	121	121	121
2 to <3	59	55	0	0	0	0	1	15	30	120	121	121	121	121	121	121
3 to <6	180	69	0	0	0	0	0	28	60	121	121	121	121	121	121	121
6 to <11	99	62	0	0	0	0	0	20	60	120	121	121	121	121	121	121
11 to <16	36	67	0	0	0	0	1	30	60	120	121	121	121	121	121	121
16 to <21	8	45	0	-	-	-	-	-	-	-	-	-	-	-	-	120
Playing on Grass—Doers Only																
Birth to <1	9	52	1	-	-	-	-	-	-	-	-	-	-	-	-	121
1 to <2	35	68	5	7	8	10	15	25	60	120	121	121	121	121	121	121
2 to <3	53	62	1	2	3	3	5	20	60	120	121	121	121	121	121	121
3 to <6	157	79	1	2	2	10	15	60	70	121	121	121	121	121	121	121
6 to <11	85	73	1	5	9	11	17	30	60	120	121	121	121	121	121	121
11 to <16	32	75	1	5	10	23	30	30	60	120	121	121	121	121	121	121
16 to <21	6	60	15	-	-	-	-	-	-	-	-	-	-	-	-	120

N = Sample size.
 Min = Minimum.
 Max = Maximum.
 - = Percentiles were not calculated for sample sizes of 10 or fewer.
 Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent.
 Source: U.S. EPA re-analysis of source data from U.S. EPA (1996)

Table 16-44. Number of Minutes Spent Playing or Working on Selected Outdoor Surfaces, Doers Only														
		Dirt (minutes/day)												
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		647	0	0	0	0	0	0	30	100	121	121	121	121
Sex	Male	326	0	0	0	0	0	0	30	120	121	121	121	121
Sex	Female	320	0	0	0	0	0	0	30	60	121	121	121	121
Age (years)	1 to 4	205	0	0	0	0	0	0	30	120	121	121	121	121
Age (years)	5 to 11	185	0	0	0	0	0	0	30	120	121	121	121	121
Age (years)	12 to 17	38	0	0	0	0	0	1	30	60	120	120	120	120
Age (years)	18 to 64	214	0	0	0	0	0	0	15	60	120	121	121	121
Age (years)	>64	2	0	0	0	0	0	0	0	0	0	0	0	0
Race	White	528	0	0	0	0	0	0	30	120	121	121	121	121
Race	Black	60	0	0	0	0	0	0	30	74	120	121	121	121
Race	Asian	5	0	0	0	0	0	30	30	121	121	121	121	121
Race	Some Others	16	0	0	0	0	0	0	20	40	60	60	60	60
Race	Hispanic	36	0	0	0	0	0	1	60	120	121	121	121	121
Hispanic	No	574	0	0	0	0	0	0	30	90	121	121	121	121
Hispanic	Yes	69	0	0	0	0	0	1	30	120	121	121	121	121
Employment	Full Time	138	0	0	0	0	0	0	15	60	120	121	121	121
Employment	Part Time	25	0	0	0	0	0	0	10	60	60	121	121	121
Employment	Not Employed	52	0	0	0	0	0	0	10	60	60	121	121	121
Education	< High School	17	0	0	0	0	0	0	60	121	121	121	121	121
Education	High School Graduate	67	0	0	0	0	0	0	10	60	88	120	121	121
Education	< College	62	0	0	0	0	0	0	15	60	60	121	121	121
Education	College Graduate	51	0	0	0	0	0	0	15	30	60	121	121	121
Education	Post Graduate	18	0	0	0	0	0	0	0	60	120	120	120	120
Census Region	Northeast	118	0	0	0	0	0	0	30	60	121	121	121	121
Census Region	Midwest	116	0	0	0	0	0	0	20	60	120	121	121	121
Census Region	South	250	0	0	0	0	0	0	30	90	121	121	121	121
Census Region	West	163	0	0	0	0	0	1	60	121	121	121	121	121
Day of Week	Weekday	406	0	0	0	0	0	0	30	88	121	121	121	121
Day of Week	Weekend	241	0	0	0	0	0	0	30	120	121	121	121	121
Season	Winter	93	0	0	0	0	0	0	45	121	121	121	121	121
Season	Spring	230	0	0	0	0	0	0	30	105	121	121	121	121
Season	Summer	245	0	0	0	0	0	0	30	90	121	121	121	121
Season	Fall	79	0	0	0	0	0	0	10	60	120	121	121	121
Asthma	No	590	0	0	0	0	0	0	30	110	121	121	121	121
Asthma	Yes	56	0	0	0	0	0	10	60	60	121	121	121	121
Angina	No	646	0	0	0	0	0	0	30	100	121	121	121	121
Bronchitis/Emphysema	No	627	0	0	0	0	0	0	30	120	121	121	121	121
Bronchitis/Emphysema	Yes	20	0	0	0	0	0	0	38	60	90.5	121	121	121

Table 16-44. Number of Minutes Spent Playing on Selected Outdoor Surfaces, Doers Only (continued)

		Sand or Gravel (minutes/day)													
Category	Population Group	N	Percentiles												
			1	2	5	10	25	50	75	90	95	98	99	100	
All		659	0	0	0	0	0	0	45	120	121	121	121	121	
Sex	Male	334	0	0	0	0	0	0	45	120	121	121	121	121	
Sex	Female	324	0	0	0	0	0	1	60	120	121	121	121	121	
Age (years)	1 to 4	203	0	0	0	0	0	0	30	120	121	121	121	121	
Age (years)	5 to 11	193	0	0	0	0	0	3	60	121	121	121	121	121	
Age (years)	12 to 17	40	0	0	0	0	0	0	45	120	121	121	121	121	
Age (years)	18 to 64	219	0	0	0	0	0	0	45	120	121	121	121	121	
Age (years)	>64	2	0	0	0	0	0	0	0	0	0	0	0	0	
Race	White	534	0	0	0	0	0	0	50	120	121	121	121	121	
Race	Black	64	0	0	0	0	0	0	15	120	121	121	121	121	
Race	Asian	5	0	0	0	0	0	30	60	121	121	121	121	121	
Race	Some Others	15	0	0	0	0	0	0	60	121	121	121	121	121	
Race	Hispanic	39	0	0	0	0	0	15	60	121	121	121	121	121	
Hispanic	No	583	0	0	0	0	0	0	45	120	121	121	121	121	
Hispanic	Yes	72	0	0	0	0	0	2	60	120	121	121	121	121	
Employment	Full Time	140	0	0	0	0	0	0	45	105	121	121	121	121	
Employment	Part Time	27	0	0	0	0	0	10	60	121	121	121	121	121	
Employment	Not Employed	53	0	0	0	0	0	0	30	120	121	121	121	121	
Education	< High School	17	0	0	0	0	0	0	60	121	121	121	121	121	
Education	High School Graduate	69	0	0	0	0	0	0	30	121	121	121	121	121	
Education	< College	64	0	0	0	0	0	0	38	120	121	121	121	121	
Education	College Graduate	50	0	0	0	0	0	0	30	60	60	121	121	121	
Education	Post Graduate	20	0	0	0	0	0	15	60	120	120	120	120	120	
Census Region	Northeast	116	0	0	0	0	0	0	60	120	121	121	121	121	
Census Region	Midwest	122	0	0	0	0	0	0	30	60	121	121	121	121	
Census Region	South	256	0	0	0	0	0	0	45	120	121	121	121	121	
Census Region	West	165	0	0	0	0	0	0	60	121	121	121	121	121	
Day of Week	Weekday	410	0	0	0	0	0	0	40	120	121	121	121	121	
Day of Week	Weekend	249	0	0	0	0	0	0	60	121	121	121	121	121	
Season	Winter	97	0	0	0	0	0	5	45	120	121	121	121	121	
Season	Spring	232	0	0	0	0	0	1	53	120	121	121	121	121	
Season	Summer	250	0	0	0	0	0	0	60	120	121	121	121	121	
Season	Fall	80	0	0	0	0	0	0	30	105	121	121	121	121	
Asthma	No	600	0	0	0	0	0	0	45	120	121	121	121	121	
Asthma	Yes	58	0	0	0	0	0	3	60	120	121	121	121	121	
Angina	No	659	0	0	0	0	0	0	45	120	121	121	121	121	
Bronchitis/emphysema	No	638	0	0	0	0	0	0	45	120	121	121	121	121	
Bronchitis/emphysema	Yes	21	0	0	0	0	0	30	60	121	121	121	121	121	

Table 16-44. Number of Minutes Spent Playing on Selected Outdoor Surfaces, Doers Only (continued)		Grass (minutes/day)												
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		657	0	0	0	0	20	60	120	121	121	121	121	121
Sex	Male	327	0	0	0	0	20	60	121	121	121	121	121	121
Sex	Female	329	0	0	0	0	15	60	120	121	121	121	121	121
Age (years)	1 to 4	206	0	0	0	0	15	60	120	121	121	121	121	121
Age (years)	5 to 11	185	0	0	0	0	30	60	121	121	121	121	121	121
Age (years)	12 to 17	39	0	0	0	0	30	60	120	121	121	121	121	121
Age (years)	18 to 64	221	0	0	0	0	20	60	120	121	121	121	121	121
Age (years)	>64	3	30	30	30	30	30	121	121	121	121	121	121	121
Race	White	532	0	0	0	0	20	60	121	121	121	121	121	121
Race	Black	65	0	0	0	3	20	58	90	121	121	121	121	121
Race	Asian	5	10	10	10	10	30	30	30	121	121	121	121	121
Race	Some Others	16	0	0	0	0	10	60	120	121	121	121	121	121
Race	Hispanic	37	0	0	0	0	30	60	110	121	121	121	121	121
Hispanic	No	581	0	0	0	0	20	60	121	121	121	121	121	121
Hispanic	Yes	72	0	0	0	0	10	35	100	121	121	121	121	121
Employment	Full Time	141	0	0	0	0	20	60	121	121	121	121	121	121
Employment	Part Time	27	0	0	0	0	15	60	120	121	121	121	121	121
Employment	Not Employed	55	0	0	0	5	23	60	121	121	121	121	121	121
Education	< High School	20	0	0	0	5	30	60	121	121	121	121	121	121
Education	High School Graduate	69	0	0	0	0	15	60	121	121	121	121	121	121
Education	< College	64	0	0	0	0	18	47	60	121	121	121	121	121
Education	College Graduate	51	0	0	0	1	30	60	121	121	121	121	121	121
Education	Post Graduate	19	0	0	0	0	25	60	121	121	121	121	121	121
Census Region	Northeast	119	0	0	0	0	30	60	121	121	121	121	121	121
Census Region	Midwest	120	0	0	0	8	30	60	121	121	121	121	121	121
Census Region	South	252	0	0	0	1	20	60	120	121	121	121	121	121
Census Region	West	166	0	0	0	0	10	45	120	121	121	121	121	121
Day of Week	Weekday	412	0	0	0	0	15	60	120	121	121	121	121	121
Day of Week	Weekend	245	0	0	0	1	30	60	121	121	121	121	121	121
Season	Winter	95	0	0	0	0	4	30	120	121	121	121	121	121
Season	Spring	231	0	0	0	1	30	60	121	121	121	121	121	121
Season	Summer	250	0	0	0	2	30	60	121	121	121	121	121	121
Season	Fall	81	0	0	0	0	10	35	120	121	121	121	121	121
Asthma	No	600	0	0	0	0	20	60	120	121	121	121	121	121
Asthma	Yes	56	0	0	0	0	23	60	120.5	121	121	121	121	121
Angina	No	656	0	0	0	0	20	60	120	121	121	121	121	121
Bronchitis/Emphysema	No	636	0	0	0	0	20	60	120	121	121	121	121	121
Bronchitis/Emphysema	Yes	21	0	0	0	0	30	60	121	121	121	121	121	121

Table 16-44. Number of Minutes Spent Playing on Selected Outdoor Surfaces, Doers Only (continued)

Working With Soil in a Garden or Other Circumstances (hours/month)														
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		4,572	0	0	0	0	0	0	3	15	40	88	160	320
Gender	Male	2,125	0	0	0	0	0	0	3	20	50	150	230	320
Gender	Female	2,445	0	0	0	0	0	0	2	12	30	60	90	320
Age (years)	1 to 4	256	0	0	0	0	0	0	1	7	20	60	120	150
Age (years)	5 to 11	341	0	0	0	0	0	0	2	10	20	50	60	320
Age (years)	12 to 17	321	0	0	0	0	0	0	1	5	10	40	60	200
Age (years)	18 to 64	2,935	0	0	0	0	0	0	3	16	40	90	200	320
Age (years)	> 64	646	0	0	0	0	0	0	3	25	60	90	160	300
Race	White	3,715	0	0	0	0	0	0	3	16	40	88	160	320
Race	Black	454	0	0	0	0	0	0	0	8	30	60	160	320
Race	Asian	76	0	0	0	0	0	0	2	6	15	24	40	40
Race	Some Others	94	0	0	0	0	0	0	2	15	60	150	200	200
Race	Hispanic	187	0	0	0	0	0	0	2	12	25	90	320	320
Hispanic	No	4,179	0	0	0	0	0	0	3	15	40	80	180	320
Hispanic	Yes	336	0	0	0	0	0	0	2	15	32	90	120	320
Employment	Full Time	1,999	0	0	0	0	0	0	4	20	45	144	240	320
Employment	Part Time	375	0	0	0	0	0	0	3	12	32	90	120	320
Employment	Not Employed	1,270	0	0	0	0	0	0	3	20	45	64	100	320
Education	< High School	381	0	0	0	0	0	0	2	16	60	120	160	320
Education	High School Grad	1,228	0	0	0	0	0	0	4	20	50	120	200	320
Education	< College	884	0	0	0	0	0	0	4	20	40	90	240	320
Education	College Grad.	649	0	0	0	0	0	0	3	16	40	70	100	320
Education	Post Grad.	443	0	0	0	0	0	0	5	20	40	61	90	320
Census Region	Northeast	1,031	0	0	0	0	0	0	1	10	30	90	120	320
Census Region	Midwest	1,013	0	0	0	0	0	0	2	10	30	60	120	320
Census Region	South	1,566	0	0	0	0	0	0	3	18	40	90	180	320
Census Region	West	962	0	0	0	0	0	0	5	20	50	90	200	320
Day of Week	Weekday	3,094	0	0	0	0	0	0	3	15	40	80	160	320
Day of Week	Weekend	1,478	0	0	0	0	0	0	3	15	40	90	150	320
Season	Winter	1,255	0	0	0	0	0	0	0	4	12	50	90	320
Season	Spring	1,152	0	0	0	0	0	0	5	20	45	110	200	320
Season	Summer	1,236	0	0	0	0	0	0	5	25	50	96	160	320
Season	Fall	929	0	0	0	0	0	0	3	10	30	88	180	320
Asthma	No	4,217	0	0	0	0	0	0	3	15	40	90	160	320
Asthma	Yes	335	0	0	0	0	0	0	2	12	30	60	80	320
Angina	No	4,426	0	0	0	0	0	0	3	15	40	88	160	320
Angina	Yes	121	0	0	0	0	0	0	2	7	24	60	110	120
Bronchitis/Emphysema	No	4,352	0	0	0	0	0	0	3	15	40	88	180	320
Bronchitis/Emphysema	Yes	198	0	0	0	0	0	0	1	7	24	60	80	100

N = Doer sample size.
 NOTE: A value of "121" for number of minutes signifies that more than 120 minutes were spent.
 Source: U.S. EPA (1996).

Chapter 16—Activity Factors

Table 16-45. Time Spent (minutes/day) Working or Being Near Excessive Dust in the Air, Children <21 Years															
Age (years)	N	Mean	Min	Percentiles										Max	
				1	2	5	10	25	50	75	90	95	98		99
Birth to <1	2	63	5	-	-	-	-	-	-	-	-	-	-	-	121
1 to <2	5	44	0	-	-	-	-	-	-	-	-	-	-	-	121
2 to <3	1	121	121	-	-	-	-	-	-	-	-	-	-	-	121
3 to <6	15	63	0	0	1	1	2	8	60	121	121	121	121	121	121
6 to <11	12	60	0	0	0	1	2	5	45	121	121	121	121	121	121
11 to <16	14	53	0	0	0	1	2	6	38	113	121	121	121	121	121
16 to <21	14	65	2	2	3	4	7	16	53	121	121	121	121	121	121
N = Doer sample size. Min = Minimum. Max = Maximum. - = Percentiles were not calculated for sample sizes of 10 or fewer. Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent.															
Source: U.S. EPA re-analysis of source data from U.S. EPA (1996).															

Table 16-46. Time Spent (minutes/day) Working or Being Near Excessive Dust in the Air, Doers Only

Category	Population Group	Percentiles												
		N	1	2	5	10	25	50	75	90	95	98	99	100
All		679	0	2	5	7	30	121	121	121	121	121	121	121
Sex	Male	341	1	2	5	8	30	121	121	121	121	121	121	121
Sex	Female	338	0	2	5	5	30	121	121	121	121	121	121	121
Age (years)	1 to 4	22	0	0	0	2	5	75	121	121	121	121	121	121
Age (years)	5 to 11	50	0	1	2	4	15	75	121	121	121	121	121	121
Age (years)	12 to 17	52	0	1	2	5	5	20	120	121	121	121	121	121
Age (years)	18 to 64	513	2	5	5	10	30	121	121	121	121	121	121	121
Age (years)	>64	38	2	2	2	5	35	106	121	121	121	121	121	121
Race	White	556	0	2	5	8	30	121	121	121	121	121	121	121
Race	Black	66	1	3	5	5	20	121	121	121	121	121	121	121
Race	Asian	7	20	20	20	20	60	90	121	121	121	121	121	121
Race	Some Others	15	5	5	5	10	60	120	121	121	121	121	121	121
Race	Hispanic	29	3	3	5	7	20	121	121	121	121	121	121	121
Hispanic	No	611	0	2	5	5	30	121	121	121	121	121	121	121
Hispanic	Yes	57	0	3	3	10	30	121	121	121	121	121	121	121
Employment	Full Time	368	2	5	7	15	38	121	121	121	121	121	121	121
Employment	Part Time	66	0	2	5	5	20	120	121	121	121	121	121	121
Employment	Not Employed	122	0	2	5	8	30	121	121	121	121	121	121	121
Education	< High School	52	2	5	5	7	35	121	121	121	121	121	121	121
Education	High School Graduate	199	0	0	5	10	30	121	121	121	121	121	121	121
Education	< College	140	5	5	10	20	60	121	121	121	121	121	121	121
Education	College Graduate	82	1	2	5	15	30	121	121	121	121	121	121	121
Education	Post Graduate	76	3	5	5	10	38	121	121	121	121	121	121	121
Census Region	Northeast	138	0	0	5	5	20	121	121	121	121	121	121	121
Census Region	Midwest	145	2	2	5	10	30	121	121	121	121	121	121	121
Census Region	South	227	1	2	5	5	30	121	121	121	121	121	121	121
Census Region	West	169	0	3	5	10	30	120	121	121	121	121	121	121
Day of Week	Weekday	471	0	1	5	7	30	121	121	121	121	121	121	121
Day of Week	Weekend	208	2	2	5	5	30	121	121	121	121	121	121	121
Season	Winter	154	0	0	5	5	30	121	121	121	121	121	121	121
Season	Spring	193	0	1	3	5	20	121	121	121	121	121	121	121
Season	Summer	193	2	2	5	10	30	121	121	121	121	121	121	121
Season	Fall	139	3	5	5	10	30	121	121	121	121	121	121	121
Asthma	No	606	0	2	5	5	30	121	121	121	121	121	121	121
Asthma	Yes	73	0	3	5	10	30	121	121	121	121	121	121	121
Angina	No	662	0	2	5	7	30	121	121	121	121	121	121	121
Angina	Yes	15	3	3	3	30	60	121	121	121	121	121	121	121
Bronchitis/Emphysema	No	637	0	2	5	7	30	121	121	121	121	121	121	121
Bronchitis/Emphysema	Yes	41	0	0	5	5	30	121	121	121	121	121	121	121

N = Doer sample size.

Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent.

Source: U.S. EPA (1996).

	N	Number of Times						
		Almost Every Day	3-5/week	1-2/week	1-2/month	< Often	Never	DK
All	4,663	921	1,108	2,178	373	48	10	25
Gender								
Male	2,163	415	520	976	201	27	5	19
Female	2,498	505	588	1,201	172	21	5	6
Refused	2	1	0	1	0	0	0	0
Age (years)								
-	84	16	11	41	12	3	0	1
1 to 4	263	96	74	88	4	0	0	1
5 to 11	348	115	107	120	6	0	0	0
12 to 17	326	82	83	144	15	2	0	0
18 to 64	2,972	524	723	1,420	252	34	6	13
> 64	670	88	110	365	84	9	4	10
Race								
White	3,774	641	879	1,868	324	36	8	18
Black	463	167	115	150	19	5	2	5
Asian	77	11	15	39	8	3	0	1
Some Others	96	26	29	32	8	1	0	0
Hispanic	193	68	61	55	7	2	0	0
Refused	60	8	9	34	7	1	0	1
Hispanic								
No	4,244	799	988	2,035	345	43	9	25
Yes	347	106	107	110	21	3	0	0
DK	26	8	3	11	2	1	1	0
Refused	46	8	10	22	5	1	0	0
Employment								
-	926	290	267	342	24	2	0	1
Full Time	2,017	291	486	1,018	184	27	2	9
Part Time	379	82	82	177	34	1	0	3
Not Employed	1,309	256	263	626	127	18	8	11
Refused	32	2	10	15	4	0	0	1
Education								
-	1,021	314	285	384	31	4	0	3
< High School	399	110	91	162	20	6	2	8
High School Graduate	1,253	269	302	591	69	12	3	7
< College	895	130	223	438	93	8	2	1
College Graduate	650	64	132	346	93	9	3	3
Post Graduate	445	34	75	257	67	9	0	3
Census Region								
Northeast	1,048	236	230	484	83	8	2	5
Midwest	1,036	156	249	527	86	10	2	6
South	1,601	376	403	707	93	11	2	9
West	978	153	226	460	111	19	4	5
Day of Week								
Weekday	3156	631	765	1,458	248	33	5	16
Weekend	1507	290	343	720	125	15	5	9
Season								
Winter	1,264	268	309	557	105	15	2	8
Spring	1,181	217	286	560	96	12	3	7
Summer	1,275	251	312	596	94	13	1	8
Fall	943	185	201	465	78	8	4	2
Asthma								
No	4,287	821	1,013	2,030	351	39	10	23
Yes	341	95	88	133	17	7	0	1
DK	35	5	7	15	5	2	0	1
Angina								
No	4,500	892	1,080	2,098	352	44	10	24
Yes	125	21	23	63	16	2	0	0
DK	38	8	5	17	5	2	0	1
Bronchitis/emphysema								
No	4,424	871	1,064	2,063	349	44	9	24
Yes	203	45	39	99	17	2	1	0
DK	36	5	5	16	7	2	0	1

N = Sample size.
DK = The respondent replied "don't know."
- = Indicates missing data.
Refused = respondent refused to answer.

Source: U.S. EPA (1996).

Table 16-48. Number of Days Since the Floor Area in the Home Was Swept or Vacuumed by the Number of Respondents

	Number of Days Since That Area Was Swept-Vacuumed														
	N	0	Swept-Vacuumed Yes'day	1	2	3	4	5	6	7	8	10	14	>2 Weeks	DK
All	9,386	8,112	550	278	189	85	63	31	17	26	2	1	5	16	11
Gender															
Male	4,294	3,688	245	136	100	35	37	19	8	10	1	0	3	7	5
Female	5,088	4,421	304	142	89	50	26	12	9	16	1	1	2	9	6
Refused	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0
Age (years)															
-	187	180	1	0	3	1	0	0	0	0	0	0	0	1	1
1 to 4	499	67	199	93	54	24	19	17	9	7	0	1	2	6	1
5 to 11	703	393	121	70	50	23	22	8	2	4	1	0	2	2	5
12 to 17	589	533	30	12	6	3	0	0	1	2	0	0	0	2	0
18 to 64	6,059	5,592	198	102	76	34	22	6	5	13	1	0	1	5	4
> 64	1,349	1347	1	1	0	0	0	0	0	0	0	0	0	0	0
Race															
White	7,591	6,586	398	232	152	72	55	29	14	24	2	1	5	13	8
Black	945	825	72	18	17	7	3	1	2	0	0	0	0	0	0
Asian	157	138	5	6	2	2	1	0	0	1	0	0	0	1	1
Some Others	182	141	21	7	9	2	1	0	0	0	0	0	0	1	0
Hispanic	385	300	52	15	9	2	2	0	1	1	0	0	0	1	2
Refused	126	122	2	0	0	0	1	1	0	0	0	0	0	0	0
Hispanic															
No	8,534	7,421	460	248	170	80	57	29	15	24	2	1	5	14	8
Yes	702	549	88	29	17	5	4	2	2	2	0	0	0	1	3
Dk	47	42	1	1	1	0	1	0	0	0	0	0	0	1	0
Refused	103	100	1	0	1	0	1	0	0	0	0	0	0	0	0
Employment															
-	1,773	974	349	175	112	50	41	25	12	13	1	1	4	9	7
Full Time	4,096	3,826	96	64	50	21	18	6	4	6	1	0	0	4	0
Part Time	802	741	28	10	8	6	2	0	0	4	0	0	1	1	1
Not Employed	2,644	2,502	77	29	18	8	2	0	1	3	0	0	0	1	3
Refused	71	69	0	0	1	0	0	0	0	0	0	0	0	1	0
Education															
-	1,968	1,162	353	175	114	50	41	25	12	13	1	1	4	10	7
< High School	834	793	24	13	2	1	0	0	0	0	0	0	0	0	1
High School Graduate	2,612	2,447	76	39	26	9	7	1	2	0	1	0	0	2	2
< College	1,801	1,681	55	25	18	10	6	0	1	3	0	0	0	2	0
College Graduate	1,247	1,155	28	19	17	10	5	3	1	7	0	0	0	1	1
Post Graduate	924	874	14	7	12	5	4	2	1	3	0	0	1	1	0
Census Region															
Northeast	2,075	1,793	129	65	35	18	4	9	9	6	0	0	0	5	2
Midwest	2,102	1,826	108	59	47	21	17	7	2	6	2	1	2	2	2
South	3,243	2,805	193	87	75	26	27	8	3	8	0	0	2	5	4
West	1,966	1,688	120	67	32	20	15	7	3	6	0	0	1	4	3
Day of Week															
Weekday	6,316	5,487	366	160	125	57	51	18	13	15	2	1	4	11	6
Weekend	3,070	2,625	184	118	64	28	12	13	4	11	0	0	1	5	5
Season															
Winter	2,524	2,144	162	79	61	27	17	7	3	13	0	0	1	5	5
Spring	2,438	2,112	121	90	48	19	19	9	7	4	0	0	2	5	2
Summer	2,536	2,187	167	68	41	26	19	12	3	3	0	1	2	4	3
Fall	1,888	1,669	100	41	39	13	8	3	4	6	2	0	0	2	1
Asthma															
No	8,629	7,455	502	262	171	80	59	30	13	22	2	1	5	16	11
Yes	694	596	48	15	17	5	4	1	4	4	0	0	0	0	0
Dk	63	61	0	1	1	0	0	0	0	0	0	0	0	0	0

Table 16-48. Number of Days Since the Floor Area in the Home Was Swept or Vacuumed by the Number of Respondents (continued)															
Number of Days Since That Area Was Swept-Vacuumed															
	<i>N</i>	0	Swept- Vacuumed Yes/day	1	2	3	4	5	6	7	8	10	14	>2 Weeks	DK
Angina															
No	9,061	7,793	547	277	189	83	63	31	17	26	2	1	5	16	11
Yes	250	246	2	1	0	1	0	0	0	0	0	0	0	0	0
Dk	75	73	1	0	0	1	0	0	0	0	0	0	0	0	0
Bronchitis/emphysema															
No	8,882	7,645	536	268	182	84	61	31	17	25	2	1	5	15	10
Yes	433	397	13	10	7	1	2	0	0	1	0	0	0	1	1
Dk	71	70	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>N</i>	= Sample size.														
DK	= The respondent replied "don't know."														
-	= Indicates missing data.														
Refused	= Respondent refused to answer.														
Source: U.S. EPA (1996).															

Table 16-49. Time Spent (minutes/day) With Smokers Present, Children <21 Years

Age (year)	N	Mean	SD	SE	Min	Percentiles								Max
						5	25	50	75	90	95	98	99	
1 to 4	155	367	325	26	5	30	90	273	570	825	1,010	1,140	1,305	1,440
5 to 11	224	318	314	21	1	25	105	190	475	775	1,050	1,210	1,250	1,440
12 to 17	256	246	244	15	1	10	60	165	360	595	774	864	1,020	1,260
N	= Doer sample size.													
SD	= Standard deviation.													
SE	= Standard error.													
Min	= Minimum.													
Max	= Maximum.													
Source:	U.S. EPA (1996).													

Table 16-50. Time Spent (minutes/day) With Smokers Present, Doers Only

Category	Population Group	N	Mean	SD	SE	Min	Max	Percentiles								
								5	25	50	75	90	95	98	99	
All		4,005	381.5	300.5	4.7	1	1,440	30	120	319	595	815	925	1,060	1,170	
Sex	Male	1,967	411.4	313.0	7.1	1	1,440	30	135	355	638	855	965	1,105	1,217	
Sex	Female	2,035	352.8	285.1	6.3	1	1,440	29	105	285	545	780	870	995	1,110	
Sex	Refused	3	283.3	188.2	108.6	105	480	105	105	265	480	480	480	480	480	
Age (years)	-	54	386.3	305.4	41.6	5	1,440	25	105	370	555	780	995	995	1,440	
Age (years)	1 to 4	155	366.6	324.5	26.1	5	1,440	30	90	273	570	825	1,010	1,140	1,305	
Age (years)	5 to 11	224	318.1	314.0	21.0	1	1,440	25	105	190	475	775	1,050	1,210	1,250	
Age (years)	12 to 17	256	245.8	243.6	15.2	1	1,260	10	60	165	360	595	774	864	1,020	
Age (years)	18 to 64	2,976	403.1	299.4	5.5	2	1,440	30	135	355	625	830	930	1,047	1,150	
Age (years)	>64	340	342.7	292.2	15.8	5	1,440	30	100	240	540	798	880	1,015	1,205	
Race	White	3,279	389.2	303.0	5.3	1	1,440	30	120	330	610	825	930	1,060	1,190	
Race	Black	395	360.0	288.0	14.5	2	1,440	22	118	300	538	775	905	1,080	1,160	
Race	Asian	48	262.1	209.9	30.3	5	800	10	64	213	413	560	630	800	800	
Race	Some Others	79	420.7	339.2	38.2	10	1,328	30	135	310	655	885	1,140	1,305	1,328	
Race	Hispanic	165	292.6	250.2	19.5	5	1,095	15	75	220	475	660	800	845	945	
Race	Refused	39	393.5	325.3	52.1	25	1,110	30	115	290	655	865	1,040	1,110	1,110	
Hispanic	No	3,666	384.9	301.2	5.0	1	1,440	30	120	324	600	822	930	1,060	1,170	
Hispanic	Yes	288	336.2	280.9	16.6	1	1,440	20	115	252	512	760	850	1,010	1,260	
Hispanic	DK	18	369.8	371.5	87.6	15	1,440	15	90	220	600	760	1,440	1,440	1,440	
Hispanic	Refused	33	403.4	322.8	56.2	25	1,110	30	120	325	655	840	1,040	1,110	1,110	
Employment	-	624	301.7	295.5	11.8	1	1,440	15	75	190	450	735	900	1,140	1,230	
Employment	Full Time	2,042	405.9	296.3	6.6	2	1,440	30	135	365	625	835	925	1,005	1,110	
Employment	Part Time	381	378.0	291.1	14.9	5	1,440	30	135	325	585	805	915	1,080	1,245	
Employment	Not Employed	935	383.8	308.7	10.1	3	1,440	30	120	310	600	825	930	1,110	1,290	
Employment	Refused	23	342.0	254.2	53.0	25	925	30	120	325	450	715	885	925	925	
Education	-	704	308.6	292.8	11.0	1	1,440	15	88	205	465	741	900	1,095	1,217	
Education	< High School	377	497.7	317.8	16.4	2	1,440	40	225	465	775	905	990	1,120	1,369	
Education	High School Graduate	1,315	425.7	301.7	8.3	3	1,440	30	155	390	650	840	928	1,060	1,202	
Education	< College	829	388.8	295.8	10.3	5	1,435	30	135	330	600	810	930	1,050	1,155	
Education	College Graduate	473	325.9	272.7	12.5	2	1,140	30	90	240	499	735	860	990	1,035	
Education	Post Graduate	307	282.5	257.1	14.7	3	1,205	20	60	200	430	665	810	900	983	
Census Region	Northeast	932	369.5	287.7	9.4	2	1,440	30	120	314	565	800	892	990	1,095	
Census Region	Midwest	938	384.1	304.8	10.0	2	1,440	29	120	320	600	825	930	1,080	1,140	
Census Region	South	1,409	404.0	308.5	8.2	1	1,440	30	130	345	630	840	943	1,090	1,205	
Census Region	West	726	349.9	292.0	10.8	1	1,440	30	110	274	541	800	900	1,045	1,180	
Day Of Week	Weekday	2,661	374.7	296.2	5.7	1	1,440	30	120	315	578	810	915	1,045	1,150	
Day Of Week	Weekend	1,344	394.9	308.5	8.4	1	1,440	30	120	322	625	833	940	1,110	1,260	
Season	Winter	1,046	374.2	304.2	9.4	1	1,440	25	115	295	590	815	925	1,080	1,170	
Season	Spring	1,034	384.8	301.6	9.4	2	1,440	30	120	320	610	810	900	1,105	1,215	
Season	Summer	1,059	385.1	300.4	9.2	2	1,440	30	120	330	591	840	940	1,040	1,130	
Season	Fall	866	382.0	295.1	10.0	2	1,440	30	120	324	590	810	915	1,030	1,150	
Asthma	No	3,687	378.8	298.4	4.9	1	1,440	30	120	315	591	810	915	1,050	1,170	
Asthma	Yes	298	416.9	324.0	18.8	5	1,440	20	135	343	652	870	1,015	1,202	1,335	
Asthma	DK	20	350.0	304.3	68.0	25	995	28	60	290	540	795	902.5	995	995	
Angina	No	3,892	380.9	299.5	4.8	1	1,440	30	120	320	595	815	920	1,060	1,170	
Angina	Yes	87	404.3	345.1	37.0	2	1,380	30	120	270	703	910	1,015	1,320	1,380	
Angina	DK	26	390.6	300.4	58.9	25	995	30	115	343	670	780	790	995	995	
Bronchitis/Emphysema	No	3,749	378.7	298.6	4.9	1	1,440	30	120	315	590	810	915	1,060	1,170	
Bronchitis/Emphysema	Yes	236	431.2	326.8	21.3	5	1,380	30	150	363	680	892	980	1,205	1,260	
Bronchitis/Emphysema	DK	20	326.3	291.1	65.1	10	995	18	85	223	540	755	888	995	995	
-	= Indicates missing data.															
DK	= The respondent replied "don't know".															
Refused	= Refused data.															
N	= Doer sample size.															
SD	= Standard deviation.															
SE	= Standard error.															
Min	= Minimum number of minutes.															
Max	= Maximum number of minutes.															
Source:	U.S. EPA (1996).															

Table 16-51. Number of Minutes Spent Smoking and Smoking Cigars or Pipe Tobacco (minutes/day)

		Smoking												
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		9,386	0	0	0	0	0	0	240	615	795	930	1,035	1,440
Gender	Male	4,294	0	0	0	0	0	0	310	685	840	983	1,095	1,440
Gender	Female	5,088	0	0	0	0	0	0	180	545	725	870	960	1,440
Age (years)	1 to 4	499	0	0	0	0	0	0	75	455	735	975	1,095	1,440
Age (years)	5 to 11	703	0	0	0	0	0	0	82	370	625	975	1,140	1,440
Age (years)	12 to 17	589	0	0	0	0	0	0	130	377	542	810	864	1,260
Age (years)	18 to 64	6,059	0	0	0	0	0	0	345	675	830	950	1,045	1,440
Age (years)	> 64	1,349	0	0	0	0	0	0	10	340	622	825	910	1,440
Race	White	7,591	0	0	0	0	0	0	250	630	805	940	1,035	1,440
Race	Black	945	0	0	0	0	0	0	225	540	715	910	1,071	1,440
Race	Asian	157	0	0	0	0	0	0	60	375	494	565	790	800
Race	Some Others	182	0	0	0	0	0	0	255	680	815	1,140	1,305	1,328
Race	Hispanic	385	0	0	0	0	0	0	175	481	652	813	845	1,095
Hispanic	No	8,534	0	0	0	0	0	0	243	625	800	940	1,035	1,440
Hispanic	Yes	702	0	0	0	0	0	0	175	518	680	850	920	1,440
Employment	Full Time	4,096	0	0	0	0	0	0	360	687	835	945	1,005	1,440
Employment	Part Time	802	0	0	0	0	0	0	295	630	793	930	1,054	1,440
Employment	Not Employed	2,644	0	0	0	0	0	0	145	555	768	915	1,045	1,440
Education	< High School	834	0	0	0	0	0	0	420	790	880	1,004	1,105	1,440
Education	High School Graduate	2,612	0	0	0	0	0	5	390	710	840	956	1,060	1,440
Education	< College	1,801	0	0	0	0	0	0	288	630	805	945	1,045	1,435
Education	College Graduate	1,247	0	0	0	0	0	0	135	480	660	860	970	1,140
Education	Post Graduate	924	0	0	0	0	0	0	60	380	595	795	860	1,205
Census Region	Northeast	2,075	0	0	0	0	0	0	259	610	775	915	990	1,440
Census Region	Midwest	2,102	0	0	0	0	0	0	255	630	810	945	1,054	1,440
Census Region	South	3,243	0	0	0	0	0	0	275	655	810	950	1,060	1,440
Census Region	West	1,966	0	0	0	0	0	0	140	510	710	885	990	1,440
Day of Week	Weekday	6,316	0	0	0	0	0	0	225	595	780	925	1,015	1,440
Day of Week	Weekend	3,070	0	0	0	0	0	0	260	651	810	950	1,080	1,440
Season	Winter	2,524	0	0	0	0	0	0	210	600	790	930	1,034	1,440
Season	Spring	2,438	0	0	0	0	0	0	240	626	785	920	1,060	1,440
Season	Summer	2,536	0	0	0	0	0	0	235	600	810	940	1,020	1,440
Season	Fall	1,888	0	0	0	0	0	0	285	630	791	945	1,020	1,440
Asthma	No	8,629	0	0	0	0	0	0	240	610	790	928	1,020	1,440
Asthma	Yes	694	0	0	0	0	0	0	270	668	855	1,020	1,170	1,440
Angina	No	9,061	0	0	0	0	0	0	240	615	795	930	1,034	1,440
Angina	Yes	250	0	0	0	0	0	0	125	615	835	1,008	1,125	1,380
Bronchitis/emphysema	No	8,882	0	0	0	0	0	0	235	605	785	928	1,020	1,440
Bronchitis/emphysema	Yes	433	0	0	0	0	0	50	405	810	900	1,040	1,205	1,380

Table 16-51. Number of Minutes Spent Smoking and Smoking Cigars or Pipe Tobacco (minutes/day) (continued)														
		Smoking Cigars or Pipe Tobacco												
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		57	2	3	3	10	20	60	61	61	61	61	61	61
Gender	Male	53	3	5	10	10	20	60	61	61	61	61	61	61
Gender	Female	4	2	2	2	2	3	9	38	61	61	61	61	61
Age (years)	5 to 11	1	15	15	15	15	15	15	15	15	15	15	15	15
Age (years)	12 to 17	0	0	0	0	0	0	0	0	0	0	0	0	0
Age (years)	18 to 64	43	2	2	3	10	15	45	61	61	61	61	61	61
Age (years)	> 64	13	15	15	15	20	45	60	61	61	61	61	61	61
Race	White	50	2	3	3	10	20	60	61	61	61	61	61	61
Race	Black	4	10	10	10	10	10	15	25	30	30	30	30	30
Race	Some Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Race	Hispanic	3	30	30	30	30	30	45	61	61	61	61	61	61
Hispanic	No	52	2	3	3	10	20	60	61	61	61	61	61	61
Hispanic	Yes	5	10	10	10	10	30	40	45	61	61	61	61	61
Employment	Full Time	37	2	2	3	10	20	60	61	61	61	61	61	61
Employment	Part Time	3	3	3	3	3	3	10	10	10	10	10	10	10
Employment	Not Employed	16	15	15	15	20	38	60	61	61	61	61	61	61
Education	< High School	2	45	45	45	45	45	53	61	61	61	61	61	61
Education	High School Graduate	22	2	2	10	10	15	45	61	61	61	61	61	61
Education	< College	16	3	3	3	3	25	60	61	61	61	61	61	61
Education	College Graduate	10	5	5	5	8	20	30	61	61	61	61	61	61
Education	Post Graduate	6	20	20	20	20	30	53	61	61	61	61	61	61
Census Region	Northeast	17	10	10	10	20	20	61	61	61	61	61	61	61
Census Region	Midwest	19	2	2	2	3	15	30	60	61	61	61	61	61
Census Region	South	11	10	10	10	10	10	45	61	61	61	61	61	61
Census Region	West	10	10	10	10	10	30	60	61	61	61	61	61	61
Day of Week	Weekday	37	2	2	3	10	20	60	61	61	61	61	61	61
Day of Week	Weekend	20	3	3	7	10	20	38	61	61	61	61	61	61
Season	Winter	16	3	3	3	10	15	25	60	61	61	61	61	61
Season	Spring	16	2	2	2	5	15	61	61	61	61	61	61	61
Season	Summer	18	10	10	10	20	30	60	61	61	61	61	61	61
Season	Fall	7	3	3	3	3	10	60	61	61	61	61	61	61
Asthma	No	54	2	3	10	10	20	60	61	61	61	61	61	61
Asthma	Yes	3	3	3	3	3	3	5	60	60	60	60	60	60
Angina	No	55	2	3	3	10	20	60	61	61	61	61	61	61
Angina	Yes	2	60	60	60	60	60	61	61	61	61	61	61	61
Bronchitis/emphysema	No	56	2	3	3	10	20	60	61	61	61	61	61	61
Bronchitis/emphysema	Yes	1	60	60	60	60	60	60	60	60	60	60	60	60

N = Doer sample size.
 Note: Percentiles are the percentage of doers below or equal to a given number of minutes.
 Source: U.S. EPA (1996).

Table 16-52. Number of Minutes Spent (at home) Working or Being Near Food While Fried, Grilled, or Barbequed (minutes/day)

Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		1,055	0	1	2	5	10	20	30	105	121	121	121	121
Gender	Male	485	0	1	2	5	10	20	30	90	121	121	121	121
Gender	Female	570	0	0	2	5	10	20	30	120	121	121	121	121
Age (years)	1 to 4	35	0	0	2	2	5	20	30	45	60	60	60	60
Age (years)	5 to 11	82	0	0	0	2	5	15	30	60	90	121	121	121
Age (years)	12 to 17	82	0	0	2	4	10	20	45	60	90	121	121	121
Age (years)	18 to 64	747	0	2	3	5	10	20	40	120	121	121	121	121
Age (years)	> 64	96	0	1	3	5	10	20	30	60	120	121	121	121
Race	White	848	0	1	2	5	10	20	30	105	121	121	121	121
Race	Black	115	2	2	5	5	10	20	30	61	121	121	121	121
Race	Asian	18	0	0	0	0	5	10	20	121	121	121	121	121
Race	Some Others	16	5	5	5	5	13	20	45	121	121	121	121	121
Race	Hispanic	48	0	0	5	5	15	30	60	90	121	121	121	121
Hispanic	No	960	0	1	2	5	10	20	30	90	121	121	121	121
Hispanic	Yes	84	0	1	2	5	10	20	60	121	121	121	121	121
Employment	Full Time	506	1	2	3	5	10	20	45	121	121	121	121	121
Employment	Part Time	95	0	1	2	5	10	15	40	90	121	121	121	121
Employment	Not Employed	252	0	1	3	5	10	20	30	90	121	121	121	121
Education	< High School	96	0	1	2	5	10	23	53	121	121	121	121	121
Education	High School Graduate	318	0	2	5	5	10	20	30	120	121	121	121	121
Education	< College	208	0	2	3	5	10	20	35	121	121	121	121	121
Education	College Graduate	135	1	1	2	5	10	20	30	90	121	121	121	121
Education	Post Graduate	83	0	2	5	5	10	15	30	60	121	121	121	121
Census Region	Northeast	198	0	2	3	5	10	15	30	90	121	121	121	121
Census Region	Midwest	248	0	0	4	5	10	20	30	121	121	121	121	121
Census Region	South	399	0	1	2	5	10	20	40	90	121	121	121	121
Census Region	West	210	0	0	2	5	7	15	30	60	121	121	121	121
Day of Week	Weekday	662	0	1	3	5	10	20	30	90	121	121	121	121
Day of Week	Weekend	393	0	1	2	5	10	20	30	120	121	121	121	121
Season	Winter	267	0	2	2	5	10	20	30	60	121	121	121	121
Season	Spring	296	0	0	3	5	10	20	45	120	121	121	121	121
Season	Summer	299	0	0	3	5	10	20	30	90	121	121	121	121
Season	Fall	193	0	0	2	5	10	20	30	121	121	121	121	121
Asthma	No	960	0	1	3	5	10	20	30	90	121	121	121	121
Asthma	Yes	92	0	0	2	5	15	30	60	121	121	121	121	121
Angina	No	1,032	0	1	2	5	10	20	30	95	121	121	121	121
Angina	Yes	19	0	0	0	5	15	30	30	121	121	121	121	121
Bronchitis/Emphysema	No	1,005	0	1	2	5	10	20	30	90	121	121	121	121
Bronchitis/Emphysema	Yes	47	0	0	3	5	10	30	60	121	121	121	121	121

N = Doer sample size.

Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent. Percentiles are the percentage of doers below or equal to a given number of minutes.

Source: U.S. EPA (1996).

Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		479	0	0	1	2	10	20	60	121	121	121	121	121
Gender	Male	252	0	0	1	2	10	20	60	121	121	121	121	121
Gender	Female	227	0	0	2	2	10	20	30	121	121	121	121	121
Age (years)	1 to 4	14	0	0	0	0	5	10	30	121	121	121	121	121
Age (years)	5 to 11	29	0	0	0	0	5	15	30	90	121	121	121	121
Age (years)	12 to 17	28	0	0	1	2	10	23	43	60	60	90	90	90
Age (years)	18 to 64	372	0	0	1	3	10	20	60	121	121	121	121	121
Age (years)	> 64	31	2	2	2	4	5	17	30	120	121	121	121	121
Race	White	407	0	0	1	2	10	20	45	121	121	121	121	121
Race	Black	31	0	0	0	2	5	20	30	60	121	121	121	121
Race	Asian	5	5	5	5	5	20	40	121	121	121	121	121	121
Race	Some Others	8	10	10	10	10	11	23	60	121	121	121	121	121
Race	Hispanic	22	2	2	3	5	5	30	60	120	121	121	121	121
Hispanic	No	436	0	0	1	2	10	20	43	121	121	121	121	121
Hispanic	Yes	36	2	2	3	5	11	60	90	121	121	121	121	121
Employment	Full Time	262	0	0	1	2	10	20	60	121	121	121	121	121
Employment	Part Time	44	0	0	1	4	5	15	53	121	121	121	121	121
Employment	Not Employed	99	0	1	2	3	10	20	40	120	121	121	121	121
Education	< High School	27	2	2	2	3	5	20	60	121	121	121	121	121
Education	High School Graduate	130	0	0	2	3	10	20	60	121	121	121	121	121
Education	< College	92	0	0	1	2	10	30	90	121	121	121	121	121
Education	College Graduate	95	0	1	2	5	10	20	40	121	121	121	121	121
Education	Post Graduate	55	0	0	0	2	10	20	40	121	121	121	121	121
Census Region	Northeast	124	0	0	1	3	10	15	30	121	121	121	121	121
Census Region	Midwest	112	0	0	2	3	10	20	45	121	121	121	121	121
Census Region	South	149	0	0	1	2	5	20	60	121	121	121	121	121
Census Region	West	94	0	0	1	2	10	20	60	121	121	121	121	121
Day of Week	Weekday	284	0	0	1	3	10	15	30	121	121	121	121	121
Day of Week	Weekend	195	0	0	1	2	10	30	60	121	121	121	121	121
Season	Winter	142	0	0	0	2	10	20	60	121	121	121	121	121
Season	Spring	115	0	1	2	3	10	20	60	120	121	121	121	121
Season	Summer	137	0	0	2	3	10	20	45	121	121	121	121	121
Season	Fall	85	1	1	1	3	10	20	40	121	121	121	121	121
Asthma	No	443	0	0	1	2	10	20	45	121	121	121	121	121
Asthma	Yes	35	0	0	3	3	15	30	120	121	121	121	121	121
Angina	No	461	0	0	1	2	10	20	45	121	121	121	121	121
Angina	Yes	15	2	2	2	2	10	15	60	121	121	121	121	121
Bronchitis/Emphysema	No	461	0	0	1	2	10	20	45	121	121	121	121	121
Bronchitis/Emphysema	Yes	16	3	3	3	5	13	38	106	121	121	121	121	121

N = Doer sample size.
 Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent. Percentiles are the percentage of doers below or equal to a given number of minutes.
 Source: U.S. EPA (1996).

Table 16-54. Number of Minutes Spent Running, Walking, or Standing Alongside a Road With Heavy Traffic (minutes/day)

Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		401	0	1	2	2	5	15	30	60	121	121	121	121
Gender	Male	202	1	1	2	3	5	18	45	120	121	121	121	121
Gender	Female	198	0	0	1	2	5	10	30	60	120	121	121	121
Age (years)	1 to 4	12	1	1	1	2	4	8	30	60	60	60	60	60
Age (years)	5 to 11	20	1	1	2	2	5	6	13	25	60	90	90	90
Age (years)	12 to 17	27	0	0	2	2	4	5	30	60	90	120	120	120
Age (years)	18 to 64	304	0	1	1	2	5	15	30	90	121	121	121	121
Age (years)	> 64	31	2	2	2	4	5	20	45	60	121	121	121	121
Race	White	306	0	1	2	2	5	15	30	110	121	121	121	121
Race	Black	51	0	0	1	1	3	7	30	50	60	60	121	121
Race	Asian	10	3	3	3	4	5	8	15	18	20	20	20	20
Race	Some Others	7	2	2	2	2	5	10	45	121	121	121	121	121
Race	Hispanic	24	2	2	2	3	10	18	40	60	60	120	120	120
Hispanic	No	356	0	1	1	2	5	15	30	90	121	121	121	121
Hispanic	Yes	43	1	1	2	2	5	10	30	60	120	121	121	121
Employment	Full Time	214	0	1	1	2	5	15	30	120	121	121	121	121
Employment	Part Time	50	0	1	2	2	5	15	30	90	121	121	121	121
Employment	Not Employed	76	0	1	2	3	6	15	30	60	110	120	121	121
Education	< High School	18	4	4	4	5	6	10	15	30	121	121	121	121
Education	High School Graduate	106	1	1	2	2	5	15	60	121	121	121	121	121
Education	< College	84	0	0	1	3	6	20	40	120	121	121	121	121
Education	College Graduate	79	0	1	1	2	5	15	30	60	90	121	121	121
Education	Post Graduate	50	1	1	2	2	5	10	20	53	90	120	120	120
Census Region	Northeast	129	1	1	2	2	5	20	50	120	121	121	121	121
Census Region	Midwest	83	0	0	1	2	5	10	20	60	121	121	121	121
Census Region	South	105	0	0	1	2	5	15	30	90	121	121	121	121
Census Region	West	84	1	2	2	3	5	15	30	60	120	121	121	121
Day of Week	Weekday	303	0	0	2	2	5	15	30	60	120	121	121	121
Day of Week	Weekend	98	1	1	2	3	5	15	30	121	121	121	121	121
Season	Winter	104	0	0	1	2	5	10	20	60	110	121	121	121
Season	Spring	114	1	1	2	2	6	20	60	120	121	121	121	121
Season	Summer	104	0	1	2	2	5	10	30	60	121	121	121	121
Season	Fall	79	0	1	2	3	5	20	35	120	121	121	121	121
Asthma	No	370	0	1	2	2	5	15	30	60	121	121	121	121
Asthma	Yes	31	0	0	1	2	5	15	30	120	121	121	121	121
Angina	No	393	0	1	2	2	5	15	30	90	121	121	121	121
Angina	Yes	8	2	2	2	2	7	18	30	60	60	60	60	60
Bronchitis/Emphysema	No	378	0	1	1	2	5	15	30	60	121	121	121	121
Bronchitis/Emphysema	Yes	22	2	2	5	5	5	18	30	121	121	121	121	121

N = Doer sample size.

Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent. Percentiles are the percentage of doers below or equal to a given number of minutes.

Source: U.S. EPA (1996).

Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		1,197	1	2	5	5	10	20	60	120	121	121	121	121
Gender	Male	534	1	2	4	5	10	20	60	120	121	121	121	121
Gender	Female	663	1	2	5	5	10	25	60	120	121	121	121	121
Age (years)	1 to 4	33	4	4	5	5	10	15	30	60	60	121	121	121
Age (years)	5 to 11	63	1	2	5	5	10	20	45	60	120	121	121	121
Age (years)	12 to 17	52	3	3	4	5	9	13	28	90	120	120	121	121
Age (years)	18 to 64	889	1	2	5	5	10	25	60	120	121	121	121	121
Age (years)	> 64	139	3	3	5	5	15	30	60	121	121	121	121	121
Race	White	959	1	2	4	5	10	25	60	120	121	121	121	121
Race	Black	133	2	3	5	5	10	20	40	90	120	121	121	121
Race	Asian	20	5	5	5	5	11	20	30	45	53	60	60	60
Race	Some Others	24	5	5	10	10	13	30	60	90	120	121	121	121
Race	Hispanic	55	1	2	5	5	10	20	60	120	121	121	121	121
Hispanic	No	1,097	1	2	5	5	10	20	60	120	121	121	121	121
Hispanic	Yes	95	1	2	5	5	10	20	90	121	121	121	121	121
Employment	Full Time	659	1	2	5	5	10	30	60	120	121	121	121	121
Employment	Part Time	108	2	2	4	5	10	20	49	121	121	121	121	121
Employment	Not Employed	279	1	2	5	5	10	30	60	120	121	121	121	121
Education	< High School	81	0	3	5	10	10	20	40	121	121	121	121	121
Education	High School Graduate	352	1	2	5	5	10	30	60	120	121	121	121	121
Education	< College	276	1	2	3	5	15	30	60	120	121	121	121	121
Education	College Graduate	176	1	2	4	5	13	30	60	120	121	121	121	121
Education	Post Graduate	150	2	2	5	5	10	20	60	98	120	121	121	121
Census Region	Northeast	229	2	2	4	5	10	20	60	120	121	121	121	121
Census Region	Midwest	263	2	2	5	5	10	30	45	120	121	121	121	121
Census Region	South	429	1	2	5	5	10	30	60	120	121	121	121	121
Census Region	West	276	1	2	5	5	10	20	60	120	121	121	121	121
Day of Week	Weekday	927	1	2	5	5	10	20	60	120	121	121	121	121
Day of Week	Weekend	270	2	2	5	5	10	25	60	120	121	121	121	121
Season	Winter	286	1	2	5	5	10	20	60	120	121	121	121	121
Season	Spring	317	1	2	5	5	10	30	60	120	121	121	121	121
Season	Summer	312	1	3	5	5	10	30	60	120	121	121	121	121
Season	Fall	282	2	2	4	5	10	20	45	120	121	121	121	121
Asthma	No	1,108	1	2	5	5	10	20	60	120	121	121	121	121
Asthma	Yes	89	2	2	5	5	10	30	60	121	121	121	121	121
Angina	No	1,159	1	2	5	5	10	20	60	120	121	121	121	121
Angina	Yes	35	0	0	5	5	10	30	70	121	121	121	121	121
Bronchitis/emphysema	No	1,130	2	2	5	5	10	20	60	120	121	121	121	121
Bronchitis/emphysema	Yes	64	1	1	2	5	10	28	51	120	121	121	121	121

N = Doer sample size.
 Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent. Percentiles are the percentage of doers below or equal to a given number of minutes.
 Source: U.S. EPA (1996).

Table 16-56. Number of Minutes Spent in a Parking Garage or Indoor Parking Lot (minutes/day)

Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		294	0	1	1	2	3	5	10	30	60	121	121	121
Gender	Male	138	1	1	1	2	4	5	15	60	121	121	121	121
Gender	Female	156	0	1	1	2	3	5	10	20	40	60	120	121
Age (years)	1 to 4	8	0	0	0	0	2	4	5	10	10	10	10	10
Age (years)	5 to 11	15	1	1	1	2	3	5	10	45	60	60	60	60
Age (years)	12 to 17	20	0	0	1	2	2	8	15	45	91	121	121	121
Age (years)	18 to 64	229	1	1	2	2	5	5	10	30	60	121	121	121
Age (years)	> 64	18	0	0	0	2	3	5	15	45	90	90	90	90
Race	White	208	1	1	2	2	3	5	10	30	60	121	121	121
Race	Black	34	0	0	1	1	5	5	15	20	30	30	30	30
Race	Asian	15	2	2	2	2	2	10	60	120	121	121	121	121
Race	Some Others	7	3	3	3	3	3	5	15	121	121	121	121	121
Race	Hispanic	28	1	1	1	2	5	10	20	60	120	121	121	121
Hispanic	No	251	0	1	1	2	3	5	10	30	60	120	121	121
Hispanic	Yes	39	1	1	1	3	5	10	30	121	121	121	121	121
Employment	Full Time	171	1	1	1	2	3	5	10	30	60	121	121	121
Employment	Part Time	23	2	2	5	5	5	5	10	30	60	121	121	121
Employment	Not Employed	58	0	1	1	2	4	10	20	40	120	121	121	121
Education	< High School	13	0	0	0	5	5	10	10	30	121	121	121	121
Education	High School Graduate	58	1	1	1	2	3	10	30	90	121	121	121	121
Education	< College	54	1	1	2	2	4	5	15	40	120	120	121	121
Education	College Graduate	72	1	1	2	2	5	5	10	15	60	120	121	121
Education	Post Graduate	50	1	1	2	2	5	5	10	13	20	40	60	60
Census Region	Northeast	53	2	2	2	2	5	6	10	30	90	121	121	121
Census Region	Midwest	59	0	0	1	2	3	5	10	30	60	121	121	121
Census Region	South	92	1	1	2	2	4	5	10	30	60	121	121	121
Census Region	West	90	0	1	1	2	4	5	15	45	60	121	121	121
Day of Week	Weekday	208	0	1	1	2	3	5	10	30	60	121	121	121
Day of Week	Weekend	86	1	1	2	2	5	7	15	30	60	121	121	121
Season	Winter	67	0	1	1	2	3	5	10	20	30	120	121	121
Season	Spring	78	0	1	1	2	3	6	15	60	120	121	121	121
Season	Summer	85	0	1	2	2	5	5	15	30	90	121	121	121
Season	Fall	64	1	1	2	2	5	5	10	30	45	121	121	121
Asthma	No	263	1	1	2	2	3	5	10	30	60	121	121	121
Asthma	Yes	30	0	0	1	1	4	7	10	30	121	121	121	121
Angina	No	291	0	1	1	2	4	5	10	30	60	121	121	121
Angina	Yes	2	3	3	3	3	3	47	90	90	90	90	90	90
Bronchitis/emphysema	No	281	0	1	1	2	3	5	10	30	60	121	121	121
Bronchitis/emphysema	Yes	12	2	2	2	5	5	6	10	60	120	120	120	120

N = Doer sample size.
 Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent. Percentiles are the percentage of doers below or equal to a given number of minutes.

Source: U.S. EPA (1996).

Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		3,303	0	0	0	0	2	5	10	20	30	60	121	121
Gender	Male	1,511	0	0	0	0	2	4	10	20	30	60	121	121
Gender	Female	1,791	0	0	0	0	2	5	10	20	30	60	60	121
Age (years)	1 to 4	132	0	0	0	0	2	2	5	15	20	30	60	121
Age (years)	5 to 11	245	0	0	0	0	1	2	5	15	30	45	80	121
Age (years)	12 to 17	202	0	0	0	0	1	5	10	20	30	30	60	121
Age (years)	18 to 64	2,303	0	0	0	0	2	5	10	20	30	60	120	121
Age (years)	> 64	373	0	0	0	1	2	5	10	15	30	30	88	121
Race	White	2,756	0	0	0	0	2	5	10	20	30	60	120	121
Race	Black	279	0	0	0	0	1	3	5	10	20	30	45	88
Race	Asian	53	0	0	0	0	1	3	10	15	30	32	45	45
Race	Some Others	63	0	0	0	0	2	5	10	30	30	60	120	120
Race	Hispanic	127	0	0	1	1	2	5	10	20	60	120	121	121
Hispanic	No	3,029	0	0	0	0	2	5	10	20	30	60	120	121
Hispanic	Yes	235	0	0	0	0	2	5	10	20	60	120	121	121
Employment	Full Time	1,613	0	0	0	0	2	5	10	20	30	60	120	121
Employment	Part Time	312	0	0	0	1	2	5	10	20	45	120	121	121
Employment	Not Employed	785	0	0	0	0	2	5	10	20	30	60	60	121
Education	< High School	241	0	0	0	0	2	4	10	20	30	110	121	121
Education	High School Graduate	935	0	0	0	0	2	5	10	20	30	60	121	121
Education	< College	680	0	0	0	1	2	5	10	20	30	60	120	121
Education	College Graduate	445	0	0	0	0	2	5	10	20	30	60	60	121
Education	Post Graduate	381	0	0	0	1	2	5	10	15	25	30	120	121
Census Region	Northeast	680	0	0	0	0	2	5	10	15	30	60	90	121
Census Region	Midwest	763	0	0	0	1	2	5	10	15	30	60	120	121
Census Region	South	1,149	0	0	0	0	2	4	10	20	30	60	90	121
Census Region	West	711	0	0	0	0	2	5	10	20	30	60	120	121
Day of Week	Weekday	2,209	0	0	0	0	2	5	10	20	30	60	120	121
Day of Week	Weekend	1,094	0	0	0	0	2	5	10	20	30	60	120	121
Season	Winter	855	0	0	0	0	1	4	10	15	30	30	100	121
Season	Spring	890	0	0	0	0	2	5	10	20	30	100	120	121
Season	Summer	903	0	0	0	0	2	4	10	20	30	60	60	121
Season	Fall	655	0	0	0	1	2	5	10	15	30	45	110	121
Asthma	No	3,063	0	0	0	0	2	5	10	20	30	60	120	121
Asthma	Yes	234	0	0	0	1	2	5	10	15	30	120	121	121
Angina	No	3,219	0	0	0	0	2	5	10	20	30	60	120	121
Angina	Yes	72	0	0	0	0	2	5	10	15	30	45	110	110
Bronchitis/Emphysema	No	3,132	0	0	0	0	2	5	10	20	30	60	120	121
Bronchitis/Emphysema	Yes	162	0	0	0	0	2	5	10	20	30	110	121	121

N = Doer sample size.
 Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent. Percentiles are the percentage of doers below or equal to a given number of minutes.
 Source: U.S. EPA (1996).

Table 16-58. Number of Minutes Spent Running or Walking Outside Other Than to the Car (minutes/day)

Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		1,273	1	1	3	5	15	45	120	121	121	121	121	121
Gender	Male	605	2	2	5	10	20	60	121	121	121	121	121	121
Gender	Female	668	0	1	2	5	15	30	116	121	121	121	121	121
Age (years)	1 to 4	82	3	3	5	10	30	120	121	121	121	121	121	21
Age (years)	5 to 11	149	4	5	5	10	30	120	121	121	121	121	121	21
Age (years)	12 to 17	110	5	5	5	10	15	60	121	121	121	121	121	121
Age (years)	18 to 64	772	0	1	2	5	15	30	120	121	121	121	121	121
Age (years)	> 64	143	1	1	2	5	15	30	60	121	121	121	121	121
Race	White	1,051	1	1	3	5	15	45	121	121	121	121	121	121
Race	Black	111	0	1	3	5	15	35	120	121	121	121	121	121
Race	Asian	21	2	2	10	10	15	30	70	120	121	121	121	121
Race	Some Others	23	5	5	10	15	20	60	121	121	121	121	121	121
Race	5:hispanic	55	2	3	8	10	20	40	90	121	121	121	121	121
Hispanic	No	1,156	1	1	3	5	15	45	120	121	121	121	121	121
Hispanic	Yes	99	1	2	2	10	20	60	121	121	121	121	121	121
Employment	Full Time	517	0	1	2	5	15	30	120	121	121	121	121	121
Employment	Part Time	112	1	2	2	5	15	30	90	121	121	121	121	121
Employment	Not Employed	300	1	1	3	5	15	30	120	121	121	121	121	121
Education	< High School	97	0	1	3	5	15	30	90	121	121	121	121	121
Education	High School Graduate	287	0	0	2	5	15	30	120	121	121	121	121	121
Education	< College	234	1	1	2	5	15	30	120	121	121	121	121	121
Education	College Graduate	153	1	2	5	10	20	45	120	121	121	121	121	121
Education	Post Graduate	138	1	1	3	5	15	38	90	121	121	121	121	121
Census Region	Northeast	265	1	1	3	5	20	45	120	121	121	121	121	121
Census Region	Midwest	286	1	2	5	5	15	40	121	121	121	121	121	121
Census Region	South	412	1	1	3	5	15	45	121	121	121	121	121	121
Census Region	West	310	1	1	3	6	15	45	120	121	121	121	121	121
Day of Week	Weekday	843	1	1	3	5	15	40	120	121	121	121	121	121
Day of Week	Weekend	430	1	2	4	5	20	60	121	121	121	121	121	21
Season	Winter	312	0	2	2	5	10	43	90	121	121	121	121	21
Season	Spring	403	1	2	4	10	20	60	121	121	121	121	121	121
Season	Summer	396	1	1	3	10	20	55	121	121	121	121	121	21
Season	Fall	162	1	1	2	5	15	30	120	121	121	121	121	121
Asthma	No	1,162	1	1	3	5	15	45	120	121	121	121	121	21
Asthma	Yes	105	2	4	5	6	15	45	121	121	121	121	121	21
Angina	No	1,240	1	1	3	5	15	45	120	121	121	121	121	121
Angina	Yes	25	1	1	5	5	15	45	121	121	121	121	121	121
Bronchitis/Emphysema	No	1,204	1	1	3	5	15	45	120	121	121	121	121	121
Bronchitis/Emphysema	Yes	62	1	2	4	5	15	30	120	121	121	121	121	121

N = Doer sample size.
 Note: A value of "121" for number of minutes signifies that more than 120 minutes were spent. Percentiles are the percentage of doers below or equal to a given number of minutes.

Source: U.S. EPA (1996).

Table 16-59. Number of Times Washing Dishes by Hand at Specified Frequencies by the Number of Respondents							
	N	Number of Times/Week					
		-	Almost Every Day	3-5/Week	1-2/Week	<1-2/Week	DK
All	3,626	1	2,600	490	326	197	12
Gender							
Male	1,554	-	982	264	183	117	8
Female	2,071	1	1,618	225	143	80	4
Refused	1	-	-	1	-	-	-
Age (years)							
-	65	-	51	6	2	6	-
1 to 4	1	-	-	-	1	-	-
5 to 11	103	-	12	14	33	44	-
12 to 17	228	-	57	45	69	56	1
18 to 64	2,642	1	1,979	379	201	76	6
> 64	587	-	501	46	20	15	5
Race							
White	2,928	1	2,114	391	257	157	8
Black	385	-	261	61	40	21	2
Asian	61	-	48	6	3	4	-
Some Others	67	-	44	9	9	5	-
Hispanic	147	-	108	17	12	8	2
Refused	38	-	25	6	5	2	-
Hispanic							
No	3,322	1	2,383	454	296	178	10
Yes	258	-	185	32	25	14	2
DK	21	-	16	-	3	2	-
Refused	25	-	16	4	2	3	-
Employment							
-	328	-	71	57	102	97	1
Full Time	1,765	-	1,282	284	145	50	4
Part Time	349	-	270	44	17	15	3
Not Employed	1,165	1	965	104	60	31	4
Refused	19	-	12	1	2	4	-
Education							
-	386	-	101	65	107	112	1
< High School	354	-	298	26	15	12	3
High School Graduate	1,106	1	856	140	74	30	5
< College	796	-	606	116	57	16	1
College Graduate	591	-	445	86	47	13	-
Post Graduate	393	-	294	57	26	14	2
Census Region							
Northeast	832	-	636	90	60	43	3
Midwest	811	-	569	114	81	45	2
South	1,214	1	840	175	124	70	4
West	769	-	555	111	61	39	3
Day of Week							
Weekday	2,474	-	1,759	335	236	136	8
Weekend	1,152	1	841	155	90	61	4
Season							
Winter	985	-	691	138	90	63	3
Spring	902	1	648	117	85	46	5
Summer	987	-	705	132	92	55	3
Fall	752	-	556	103	59	33	1
Asthma							
No	3,345	1	2,407	455	290	183	9
Yes	263	-	179	33	34	14	3
DK	18	-	14	2	2	-	-
Angina							
No	3,501	-	2,499	475	321	194	12
Yes	105	1	86	11	5	2	-
DK	20	-	15	4	-	1	-
Bronchitis/Emphysema							
No	3438	1	2,459	460	314	192	12
Yes	1,69	-	126	27	11	5	-
DK	19	-	15	3	1	-	-

Table 16-59. Number of Times Washing Dishes by Hand at Specified Frequencies by the Number of Respondents (continued)

- = Indicates missing data.
DK = The respondent replied "don't know".
Refused = Refused data.
N = Sample size.

Source: U.S. EPA (1996).

Table 16-60. Number of Times Using a Dishwasher at Specified Frequencies by the Number of Respondents							
	Total N	Number of Times/Week					
		-	Almost Every Day	3-5/Week	1-2/Week	<1-2/Week	DK
All	2,635	1	557	678	529	824	46
Gender							
Male	1,235	-	259	282	247	417	30
Female	1,399	1	298	396	282	406	16
Refused	1	-	-	-	-	1	-
Age (years)							
-	35	-	4	13	11	6	1
1 to 4	145	-	9	4	3	118	11
5 to 11	211	-	14	8	15	157	17
12 to 17	206	-	27	33	31	113	2
18 to 64	1,718	-	438	512	397	360	11
> 64	320	1	65	108	72	70	4
Race							
White	2,267	1	504	603	487	637	35
Black	163	-	19	32	19	90	3
Asian	54	-	7	8	7	31	1
Some Others	45	-	9	8	1	24	3
Hispanic	84	-	13	15	12	40	4
Refused	22	-	5	12	3	2	-
Hispanic							
No	2,444	1	524	635	504	739	41
Yes	164	-	27	32	21	79	5
DK	11	-	2	2	2	5	-
Refused	16	-	4	9	2	1	-
Employment							
-	552	-	49	45	46	382	30
Full Time	1,191	-	276	359	298	249	9
Part Time	204	-	48	70	46	38	2
Not Employed	678	1	181	200	136	155	5
Refused	10	-	3	4	3	-	-
Education							
-	593	-	55	51	55	400	32
< High School	124	1	29	27	26	41	-
High School Graduate	582	-	153	173	114	132	10
< College	560	-	144	181	117	117	1
College Graduate	446	-	105	134	126	80	1
Post Graduate	330	-	71	112	91	54	2
Census Region							
Northeast	538	-	133	144	95	159	7
Midwest	514	-	116	130	110	152	6
South	953	-	200	251	169	312	21
West	630	1	108	153	155	201	12
Day of Week							
Weekday	1,768	1	378	466	341	549	33
Weekend	867	-	179	212	188	275	13
Season							
Winter	711	-	144	175	149	223	20
Spring	664	1	122	181	132	214	14
Summer	721	-	157	185	134	239	6
Fall	539	-	134	137	114	148	6
Asthma							
No	2,439	1	521	622	492	765	38
Yes	189	-	35	54	35	58	7
DK	7	-	1	2	2	1	1
Angina							
No	2,570	1	538	664	512	809	46
Yes	60	-	19	11	16	14	-
DK	5	-	-	3	1	1	-
Bronchitis/Emphysema							
No	2,533	1	540	646	504	796	46
Yes	93	-	16	27	23	27	-
DK	9	-	1	5	2	1	-

- = Indicates missing data.
DK = The respondent replied "don't know".
Refused = Refused data.
N = Sample size.

Source: U.S. EPA (1996).

Table 16-61. Number of Times for Washing Clothes in a Washing Machine at Specified Frequencies by the Number of Respondents								
	Total N	Number of Times/Week						
		-	Almost Every Day	3-5 /Day	1-2/week	<1/week	Never	DK
All	4,663	404	566	1,033	1,827	331	465	37
Gender								
Male	2,163	212	211	458	811	154	300	17
Female	2,498	191	355	575	1,015	177	165	20
Refused	2	1	-	-	1	-	-	-
Age (years)								
-	84	3	6	11	47	3	2	12
1 to 4	263	261	-	-	-	-	1	1
5 to 11	348	101	2	4	16	15	206	4
12 to 17	326	1	22	29	83	67	124	-
18 to 64	2,972	31	489	832	1,328	197	83	12
> 64	670	7	47	157	353	49	49	8
Race								
White	3,774	316	499	883	1,445	246	370	15
Black	463	39	33	72	207	52	55	5
Asian	77	4	1	12	39	13	8	-
Some Others	96	16	10	15	36	8	11	-
Hispanic	193	29	19	41	77	10	17	-
Refused	60	-	4	10	23	2	4	17
Hispanic								
No	4,244	342	528	950	1,674	307	424	19
Yes	347	59	31	69	130	20	38	-
DK	26	2	3	6	10	3	2	-
Refused	46	1	4	8	13	1	1	18
Employment								
-	926	366	23	32	97	76	327	5
Full Time	2,017	21	305	569	929	119	66	8
Part Time	379	6	64	101	166	29	13	-
Not Employed	1,309	10	170	326	628	105	58	12
Refused	32	1	4	5	7	2	1	12
Education								
-	1,021	367	33	37	129	89	343	23
< High School	399	3	61	88	178	40	27	2
High School Graduate	1,253	14	218	367	548	55	47	4
< College	895	3	126	261	432	51	19	3
College Graduate	650	12	78	171	321	57	9	2
Post Graduate	445	5	50	109	219	39	20	3
Census Region								
Northeast	1,048	84	119	216	454	81	87	7
Midwest	1,036	88	108	229	408	78	121	4
South	1,601	147	229	376	557	97	182	13
West	978	85	110	212	408	75	75	13
Day of Week								
Weekday	3,156	257	407	697	1,217	232	320	26
Weekend	1,507	147	159	336	610	99	145	11
Season								
Winter	1,264	121	157	273	472	101	129	11
Spring	1,181	122	135	259	464	82	113	6
Summer	1,275	102	163	280	484	88	142	16
Fall	943	59	111	221	407	60	81	4
Asthma								
No	4,287	371	522	951	1,700	303	421	19
Yes	341	32	42	79	118	26	43	1
DK	35	1	2	3	9	2	1	17
Angina								
No	4,500	403	555	993	1,759	321	451	18
Yes	125	-	8	37	58	7	13	2
DK	38	1	3	3	10	3	1	17

Table 16-61. Number of Times for Washing Clothes in a Washing Machine at Specified Frequencies by the Number of Respondents (continued)								
	Total <i>N</i>	Number of Times/Week						
		-	Almost Every Day	3-5 /Day	1-2/week	<1/week	Never	DK
Bronchitis/emphysema								
No	4,424	397	549	979	1,724	315	441	19
Yes	203	7	15	51	92	14	23	1
DK	36	-	2	3	11	2	1	17
-	= Indicates missing data.							
DK	= The respondent replied "don't know".							
Refused	= Refused data.							
<i>N</i>	= Sample size.							
Source:	U.S. EPA (1996).							

Table 16-62. Number of Loads of Laundry Washed in a Washing Machine at Home by the Number of Respondents													
	N	Number of Loads/Day											DK
		1	2	3	4	5	6	7	8	9	10	>10	
All	1,762	582	604	303	123	55	27	11	12	1	5	1	38
Gender													
Male	678	219	241	120	41	17	8	-	-	1	1	-	30
Female	1,083	363	363	183	82	38	19	10	12	-	4	1	8
Refused	1	-	-	-	-	-	-	1	-	-	-	-	-
Age (years)													
-	30	9	14	2	3	1	-	-	-	-	-	-	1
1 to 4	109	29	36	24	12	5	2	-	-	-	1	-	-
5 to 11	141	38	55	28	8	6	2	1	-	1	1	-	1
12 to 17	127	39	52	22	10	1	1	-	1	-	-	-	1
18 to 64	1,161	385	376	209	80	35	22	9	11	-	3	1	30
> 64	194	82	71	18	10	7	-	1	-	-	-	-	5
Race													
White	1,511	513	519	254	101	48	23	11	12	1	3	-	26
Black	112	27	41	23	11	4	1	-	-	-	1	-	4
Asian	22	7	4	3	5	-	-	-	-	-	-	-	3
Some Others	31	8	12	5	1	1	-	-	-	-	-	-	3
Hispanic	68	18	24	15	5	2	2	-	-	-	1	-	1
Refused	18	9	4	3	-	-	-	-	-	-	-	1	1
Hispanic													
No	1,615	536	556	271	115	50	24	11	12	1	4	-	35
Yes	126	38	42	26	8	5	3	-	-	-	1	-	3
DK	6	-	2	4	-	-	-	-	-	-	-	-	-
Refused	15	8	4	2	-	-	-	-	-	-	-	1	-
Employment													
-	369	102	143	71	29	12	5	1	1	1	2	-	2
Full Time	734	259	244	128	42	20	10	5	4	-	2	-	20
Part Time	160	58	53	23	10	8	3	-	1	-	-	-	4
Not Employed	482	158	158	79	41	15	8	5	6	-	1	1	10
Refused	17	5	6	2	1	-	1	-	-	-	-	-	2
Education													
-	413	118	160	77	32	12	6	1	1	1	2	-	3
< High School	133	44	44	22	10	4	3	2	-	-	-	-	4
High School Graduate	508	175	166	85	35	18	8	3	4	-	-	-	14
< College	321	105	101	61	25	9	3	2	5	-	2	1	7
College Graduate	212	83	68	32	11	8	4	-	1	-	-	-	5
Post Graduate	175	57	65	26	10	4	3	3	1	-	1	-	5
Census Region													
Northeast	367	111	146	57	23	13	7	2	1	-	-	-	7
Midwest	406	125	123	76	42	14	5	3	6	1	-	1	10
South	628	205	228	110	39	17	6	6	4	-	3	-	10
West	361	141	107	60	19	11	9	-	1	-	2	-	11
Day of Week													
Weekday	1,172	418	409	194	62	29	17	7	7	1	1	1	26
Weekend	590	164	195	109	61	26	10	4	5	-	4	-	12
Season													
Winter	458	154	159	73	31	14	6	3	4	1	3	1	9
Spring	465	154	159	87	28	10	10	3	2	-	1	-	11
Summer	482	158	166	85	38	11	8	4	3	-	1	-	8
Fall	357	116	120	58	26	20	3	1	3	-	-	-	10
Asthma													
No	1615	548	545	274	105	50	27	11	12	1	5	1	36
Yes	140	31	56	28	18	5	-	-	-	-	-	-	2
DK	7	3	3	1	-	-	-	-	-	-	-	-	-
Angina													
No	1,710	564	592	294	113	54	26	11	12	1	5	1	37
Yes	40	14	9	7	8	1	1	-	-	-	-	-	-
DK	12	4	3	2	2	-	-	-	-	-	-	-	1
Bronchitis/Emphysema													
No	1,658	544	572	285	112	53	26	10	12	1	5	1	37
Yes	96	36	28	16	11	2	1	1	-	-	-	-	1
DK	8	2	4	2	-	-	-	-	-	-	-	-	-

Table 16-62. Number of Loads of Laundry Washed in a Washing Machine at Home by the Number of Respondents (continued)

- = Indicates missing data.
DK = The respondent replied "don't know".
Refused = Refused data.
N = Sample size.

Source: U.S. EPA (1996).

Table 16-63. Range of the Number of Times an Automobile or Motor Vehicle Was Started in a Garage or Carport at Specified Daily Frequencies by the Number of Respondents

	N	Times/day				DK
		1-2	3-5	6-9	10+	
All	2,009	1321	559	78	17	34
Gender						
Male	939	588	290	40	7	14
Female	1,070	733	269	38	10	20
Age(years)						
-	20	13	2	1	1	3
1 to 4	111	68	39	2	2	-
5 to 11	150	93	49	6	-	2
12 to 17	145	86	42	12	1	4
18 to 64	1,287	840	367	50	12	18
> 64	296	221	60	7	1	7
Race						
White	1,763	1,164	486	69	17	27
Black	110	70	31	4	-	5
Asian	46	34	10	2	-	-
Some Others	24	19	5	-	-	-
Hispanic	55	26	24	3	-	2
Refused	11	8	3	-	-	-
Hispanic						
No	1,879	1,239	519	74	17	30
Yes	111	68	35	4	-	4
DK	12	9	3	-	-	-
Refused	7	5	2	-	-	-
Employment						
-	398	241	127	20	3	7
Full Time	919	610	253	35	9	12
Part Time	149	93	48	4	2	2
Not Employed	536	372	129	19	3	13
Refused	7	5	2	-	-	-
Education						
-	427	262	134	21	4	6
< High School	84	59	17	2	1	5
High School Graduate	464	336	107	13	2	6
< College	440	304	107	20	5	4
College Graduate	326	201	106	10	2	7
Post Graduate	268	159	88	12	3	6
Census Region						
Northeast	289	213	64	8	2	2
Midwest	541	360	142	29	2	8
South	702	430	221	27	8	16
West	477	318	132	14	5	8
Day of Week						
Weekday	1,383	903	386	63	11	20
Weekend	626	418	173	15	6	14
Season						
Winter	567	396	136	20	5	10
Spring	518	336	141	25	5	11
Summer	525	313	178	18	6	10
Fall	399	276	104	15	1	3
Asthma						
No	1,861	1,228	514	70	17	32
Yes	146	92	44	8	-	2
DK	2	1	1	-	-	-
Angina						
No	1,959	1,288	545	76	17	33
Yes	48	33	12	2	-	1
DK	2	-	2	-	-	-
Bronchitis/Emphysema						
No	1,922	1,266	532	74	17	33
Yes	84	54	25	4	-	1
DK	3	1	2	-	-	-

- = Indicates missing data.
 DK = Respondent replied "don't know".
 Refused = Refused data.
 N = Doer sample size.

Source: U.S. EPA (1996).

Table 16-64. Time Spent at Home While the Windows or Outside Door Were Left Open (minutes/day)

		Windows Left Open												
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		1,960	2	10	30	180	360	840	961	961	961	961	961	961
Gender	Male	893	5	10	30	180	360	840	961	961	961	961	961	961
Gender	Female	1,067	2	10	30	119	360	840	961	961	961	961	961	961
Age (years)	1 to 4	99	0	1	10	180	180	600	961	961	961	961	961	961
Age (years)	5 to 11	159	3	10	20	60	360	600	961	961	961	961	961	961
Age (years)	12 to 17	101	2	5	24	180	360	600	961	961	961	961	961	961
Age (years)	18 to 64	1,282	6	16	60	180	360	840	961	961	961	961	961	961
Age (years)	> 64	282	1	5	30	180	360	840	961	961	961	961	961	961
Race	White	1,558	2	10	30	180	360	840	961	961	961	961	961	961
Race	Black	208	3	10	30	180	360	840	961	961	961	961	961	961
Race	Asian	47	10	10	16	180	360	600	961	961	961	961	961	961
Race	Some Others	44	1	1	60	90	180	600	961	961	961	961	961	961
Race	Hispanic	80	2	20	30	60	360	600	961	961	961	961	961	961
Hispanic	No	1,775	2	10	30	180	360	840	961	961	961	961	961	961
Hispanic	Yes	156	20	20	30	180	180	840	961	961	961	961	961	961
Employment	Full Time	822	5	15	30	180	360	840	961	961	961	961	961	961
Employment	Part Time	190	1	7	30	60	180	840	961	961	961	961	961	961
Employment	Not Employed	576	5	10	60	180	360	840	961	961	961	961	961	961
Education	< High School	163	1	6	30	90	360	840	961	961	961	961	961	961
Education	High School Graduate	542	2	10	60	180	360	840	961	961	961	961	961	961
Education	< College	408	5	15	30	119	360	840	961	961	961	961	961	961
Education	College Graduate	247	15	15	60	100	360	840	961	961	961	961	961	961
Education	Post Graduate	216	10	10	30	180	360	840	961	961	961	961	961	961
Census Region	Northeast	498	3	10	30	119	360	840	961	961	961	961	961	961
Census Region	Midwest	390	5	10	60	180	360	840	961	961	961	961	961	961
Census Region	South	494	1	6	30	90	360	600	961	961	961	961	961	961
Census Region	West	578	2	10	30	180	360	840	961	961	961	961	961	961
Day of Week	Weekday	1,285	3	10	30	180	360	840	961	961	961	961	961	961
Day of Week	Weekend	675	2	10	30	119	360	840	961	961	961	961	961	961
Season	Winter	308	1	2	10	24	180	360	961	961	961	961	961	961
Season	Spring	661	10	20	60	180	360	600	961	961	961	961	961	961
Season	Summer	680	10	30	180	180	600	961	961	961	961	961	961	961
Season	Fall	311	3	5	30	60	180	600	961	961	961	961	961	961
Asthma	No	1,809	2	10	30	180	360	840	961	961	961	961	961	961
Asthma	Yes	145	5	10	60	118	360	840	961	961	961	961	961	961
Angina	No	1,902	3	10	30	180	360	840	961	961	961	961	961	961
Angina	Yes	49	1	1	24	30	180	961	961	961	961	961	961	961
Bronchitis/Emphysema	No	1,850	2	10	30	180	360	840	961	961	961	961	961	961
Bronchitis/Emphysema	Yes	100	5	15	35	180	480	961	961	961	961	961	961	961

**Table 16-64. Time Spent at Home While the Windows or Outside Door Were Left Open (minutes/day)
(continued)**

		Outside Door Left Open												
Category	Population Group	N	Percentiles											
			1	2	5	10	25	50	75	90	95	98	99	100
All		1,170	0	1	5	10	60	180	600	600	721	721	721	721
Gender	Male	505	0	1	3	10	60	180	600	600	721	721	721	721
Gender	Female	665	1	1	5	10	60	180	600	600	721	721	721	721
Age (years)	1 to 4	68	0	0	2	10	30	180	360	721	721	721	721	721
Age (years)	5 to 11	109	0	1	3	10	60	180	600	600	721	721	721	721
Age (years)	12 to 17	79	0	1	3	5	60	180	360	600	721	721	721	721
Age (years)	18 to 64	718	1	1	3	10	60	180	600	600	721	721	721	721
Age (years)	> 64	180	1	1	10	20	180	360	600	721	721	721	721	721
Race	White	968	0	1	5	10	60	180	600	600	721	721	721	721
Race	Black	100	1	3	6	13	60	180	600	600	661	721	721	721
Race	Asian	23	1	1	2	60	180	360	600	600	721	721	721	721
Race	Some Others	22	1	1	1	15	30	180	600	600	721	721	721	721
Race	Hispanic	45	0	0	5	5	45	180	360	600	600	721	721	721
Hispanic	No	1,073	0	1	3	10	60	180	600	600	721	721	721	721
Hispanic	Yes	81	0	1	5	10	45	180	360	600	600	721	721	721
Employment	Full Time	451	1	1	3	10	60	180	600	600	721	721	721	721
Employment	Part Time	93	0	3	5	15	60	180	600	600	721	721	721	721
Employment	Not Employed	362	1	1	5	10	60	360	600	600	721	721	721	721
Education	< High School	96	1	1	2	11	75	360	600	600	721	721	721	721
Education	High School Graduate	309	1	3	5	10	60	180	600	600	721	721	721	721
Education	< College	225	0	1	3	10	60	180	600	600	721	721	721	721
Education	College Graduate	150	0	1	1	15	60	180	600	600	721	721	721	721
Education	Post Graduate	124	2	2	3	5	30	180	600	600	721	721	721	721
Census Region	Northeast	223	1	2	5	10	90	180	600	600	721	721	721	721
Census Region	Midwest	221	0	0	2	10	60	180	600	600	721	721	721	721
Census Region	South	361	1	1	5	10	60	180	360	600	600	721	721	721
Census Region	West	365	0	1	5	15	60	180	600	600	721	721	721	721
Day of Week	Weekday	732	0	1	5	10	60	180	600	600	721	721	721	721
Day of Week	Weekend	438	1	1	5	10	60	180	600	600	721	721	721	721
Season	Winter	184	0	0	2	3	10	60	180	600	600	600	600	600
Season	Spring	407	1	1	5	20	180	360	600	600	721	721	721	721
Season	Summer	385	0	2	10	30	180	360	600	721	721	721	721	721
Season	Fall	194	1	1	2	10	30	180	360	600	600	600	600	600
Asthma	No	1,072	0	1	5	10	60	180	600	600	721	721	721	721
Asthma	Yes	97	1	1	3	6	30	180	600	600	721	721	721	721
Angina	No	1,133	0	1	5	10	60	180	600	600	721	721	721	721
Angina	Yes	36	1	1	3	10	105	360	360	600	721	721	721	721
Bronchitis/emphysema	No	1,105	0	1	3	10	60	180	600	600	721	721	721	721
Bronchitis/emphysema	Yes	63	5	5	10	10	90	180	600	600	721	721	721	721

N = Doer sample size.
 Note: Values of "180", "360", "600", "840" and "961" for number of minutes signify that 2-4 hours, 4-8 hours, 8-12 hours, 12-16 hours, and more than 16 hours, respectively, were spent. Percentiles are the percentage of doers below or equal to a given number of minutes.
 Source: U.S. EPA (1996).

Table 16-65. Mean Time Spent (hours/week)^a in Ten Major Activity Categories Grouped by Regions						
Activity	West <i>N</i> = 200	North Central <i>N</i> = 304	Northeast <i>N</i> = 185	South <i>N</i> = 286	Total ^b <i>N</i> = 975	
					Mean	SD ^c
Activity Category						
Market Work	23.44	29.02	27.34	24.21	26.15	23.83
House/yard work	14.64	14.17	14.29	15.44	14.66	12.09
Child care	2.50	2.82	2.32	2.66	2.62	5.14
Services/shop	5.22	5.64	4.92	4.72	5.15	5.40
Personal care	79.23	76.62	78.11	79.38	78.24	12.70
Education	2.94	1.43	0.95	1.45	1.65	6.34
Organizations	3.42	2.97	2.45	2.68	2.88	5.40
Social entertainment	8.26	8.42	8.98	8.22	8.43	8.17
Active leisure	5.94	5.28	4.77	5.86	5.49	7.81
Passive leisure	22.47	21.71	23.94	23.47	22.80	13.35
Total Time	168.00	168.00	168.00	168.00	168.00	0.09
^a	Weighted for day of week, panel loss (not defined in report), and correspondence to Census. Data may not add to totals shown due to rounding.					
^b	<i>N</i> = surveyed population.					
^c	SD = standard deviation.					
Source:	Hill (1985).					

Table 16-66. Total Mean Time Spent (minutes/day) in Ten Major Activity Categories Grouped by Type of Day

Activity Category	Time Duration (minutes/day)		
	Weekday [N ^a = 831]	Saturday [N = 831]	Sunday [N = 831]
Market Work	288.0 (257.7) ^b	97.9 (211.9)	58.0 (164.8)
House/Yardwork	126.3 (119.3)	160.5 (157.2)	124.5 (133.3)
Child Care	26.6 (50.9)	19.4 (51.5)	24.8 (61.9)
Services/Shopping	48.7 (58.7)	64.4 (92.5)	21.6 (49.9)
Personal Care	639.2 (114.8)	706.8 (169.8)	734.3 (156.5)
Education	16.4 (64.4)	5.4 (38.1)	7.3 (48.0)
Organizations	21.1 (49.7)	18.4 (75.2)	58.5 (104.5)
Social Entertainment	54.9 (69.2)	1,114.1 (156.0)	110.0 (151.2)
Active Leisure	37.9 (71.11)	61.4 (126.5)	64.5 (120.6)
Passive Leisure	181.1 (121.9)	191.8 (161.6)	236.5 (167.1)
Total Time	1,440	1,440	1,440

^a N = Number of respondents.
^b () = Numbers in parentheses are standard deviations.

Source: Hill (1985).

Table 16-67. Mean Time Spent (minutes/day) in Ten Major Activity Categories During 4 Waves of Interviews^a

	Fall (Nov. 1, 1975) ^b N = 861	Spring (June 1, 1976) ^b N = 861	Spring (June 1, 1976) ^b N = 861	Summer (Sept. 21, 1976) ^b N = 861	Range of Standard Deviations
Activity Category	Wave 1	Wave 2	Wave 3	Wave 4	
Market work	222.94	226.53	210.44	230.92	272–287
House/yard work	133.16	135.58	143.10	119.95	129–156
Child care	25.50	22.44	25.51	21.07	49–58
Services/shop	48.98	44.09	44.61	47.75	76–79
Personal care	652.95	678.14	688.27	674.85	143–181
Education	22.79	12.57	2.87	10.76	32–93
Organizations	25.30	22.55	23.21	29.91	68–87
Social entertainment	63.87	67.11	83.90	72.24	102–127
Active leisure	42.71	47.46	46.19	42.30	96–105
Passive leisure	210.75	183.48	171.85	190.19	144–162
Total Time	1,440.00	1,440.00	1,440.00	1,440.00	--

^a Weighted for day of week, panel loss (not defined in report), and correspondence to Census.

^b Dates by which 50% of the interviews for each wave were taken.

Source: Hill (1985).

Table 16-68. Mean Time Spent (hours/week) in Ten Major Activity Categories Grouped by Sex^a

Activity Category	Time Duration (hours/week)					
	Men N = 140		Women N = 561	Men and Women N = 971		
Market work	35.8	(23.6) ^b	17.9	(20.7)	26.2	(23.8)
House/yard	8.5	(9.0)	20.0	(11.9)	14.7	(12.1)
Child care	1.2	(2.5)	3.9	(6.4)	2.6	(5.2)
Services/shop	3.9	(4.5)	6.3	(5.9)	5.2	(5.4)
Personal care	77.3	(13.0)	79.0	(12.4)	78.2	(12.7)
Education	2.3	(7.7)	1.1	(4.8)	1.7	(6.4)
Organizations	2.5	(5.5)	3.2	(5.3)	2.9	(5.4)
Social entertainment	7.9	(8.3)	8.9	(8.0)	8.4	(8.2)
Active leisure	5.9	(8.2)	5.2	(7.4)	5.5	(7.8)
Passive leisure	22.8	(14.1)	22.7	(12.7)	22.8	(13.3)
Total time	168.1		168.1		168.1	

^a Detailed components of activities (87) are presented in Table 1A-4 of the original study.

^b () = Numbers in parentheses are standard deviations.

Source: Hill (1985).

Table 16-69. Mean Time Spent (minutes/day) Performing Major Activities, by Age, Sex, and Type of Day

Activity	Age (3 to 11 years)				Age (12 to 17 years)			
	Weekday		Weekend		Weekday		Weekend	
	Boy (N = 118)	Girl (N = 111)	Boy (N = 118)	Girl (N = 111)	Boy (N = 77)	Girl (N = 83)	Boy (N = 77)	Girl (N = 83)
Market Work	16	0	7	4	23	21	58	25
Household Work	17	21	32	43	16	40	46	89
Personal Care	43	44	42	50	48	71	35	76
Eating	81	78	78	84	73	65	58	75
Sleeping	584	590	625	619	504	478	550	612
School	252	259	-	-	314	342	-	-
Studying	14	19	4	9	29	37	25	25
Church	7	4	53	61	3	7	40	36
Visiting	16	9	23	37	17	25	46	53
Sports	25	12	33	23	52	37	65	26
Outdoors	10	7	30	23	10	10	36	19
Hobbies	3	1	3	4	7	4	4	7
Art Activities	4	4	4	4	12	6	11	9
Playing	137	115	177	166	37	13	35	24
TV	117	128	181	122	143	108	187	140
Reading	9	7	12	10	10	13	12	19
Household Conversations	10	11	14	9	21	30	24	30
Other Passive Leisure	9	14	16	17	21	14	43	33
Unknown	22	25	20	29	14	17	10	4
Percent of Time Accounted for by Activities Above	94	92	93	89	93	92	88	89
N	= Sample size.							
-	= No data							

Source: Timmer et al. (1985).

Chapter 16—Activity Factors

Table 16-70. Mean Time Spent (minutes/day) in Major Activities, by Type of Day for 5 Different Age Groups

Activity	Weekday					Weekend					Significant Effect ^a
	Age (years)					Age (years)					
	3-5	6-8	9-11	12-14	15-17	3-5	6-8	9-11	12-14	15-17	
Market Work	-	14	8	14	28	-	4	10	29	48	
Personal Care	41	49	40	56	60	47	45	44	60	51	A, S, AxS (F > M)
Household Work	14	15	18	27	34	17	27	51	72	60	A, S, AxS (F > M)
Eating	82	81	73	69	67	81	80	78	68	65	A
Sleeping	630	595	548	473	499	634	641	596	604	562	A
School	137	292	315	344	314	-	-	-	-	-	
Studying	2	8	29	33	33	1	2	12	15	30	A
Church	4	9	9	9	3	55	56	53	32	37	A
Visiting	14	15	10	21	20	10	8	13	22	56	A (Weekend Only)
Sports	5	24	21	40	46	3	30	42	51	37	A, S (M > F)
Outdoor Activities	4	9	8	7	11	8	23	39	25	26	
Hobbies	0	2	2	4	6	1	5	3	8	3	
Art Activities	5	4	3	3	12	4	4	4	7	10	
Other Passive Leisure	9	1	2	6	4	6	10	7	10	18	A
Playing	218	111	65	31	14	267	180	92	35	21	A, S (M > F)
TV	111	99	146	142	108	122	136	185	169	157	A, S, AxS (M > F)
Reading	5	5	9	10	12	4	9	10	10	18	A
Being Read to	2	2	0	0	0	3	2	0	0	0	A
Unknown	30	14	23	25	7	52	7	14	4	9	A

^a Effects are significant for weekdays and weekends, unless otherwise specified. A = age effect, $p < 0.05$, for both weekdays and weekend activities; S = sex effect $p < 0.05$, F > M, M > F = females spend more time than males, or vice versa; and AxS = age by sex interaction, $p < 0.05$.

- = No data.

Source: Timmer et al. (1985).

Table 16-71. Mean Time Spent (hours/day) Indoors and Outdoors, by Age and Day of the Week

Age Group	Indoors ^a		Outdoors ^b	
	Weekday	Weekend	Weekday	Weekend
3 to 5 years	19.4	18.9	2.5	3.1
6 to 8 years	20.7	18.6	1.8	2.5
9 to 11 years	20.8	18.6	1.3	2.3
12 to 14 years	20.7	18.5	1.6	1.9
15 to 17 years	19.9	17.9	1.4	2.3

^a Time indoors was estimated by adding the average times spent performing indoor activities (household work, personal care, eating, sleeping, attending school, studying, attending church, watching television, and engaging in conversation) and half the time spent in each activity which could have occurred either indoors or outdoors (i.e., market work, sports, hobbies, art activities, playing, reading, and other passive leisure).

^b Time outdoors was estimated by adding the average time spent in outdoor activities and half the time spent in each activity which could have occurred either indoors or outdoors (i.e., market work, sports, hobbies, art activities, playing, reading, and other passive leisure).

Source: Adapted from Timmer et al. (1985).

Table 16-72. Mean Time Spent (minutes/day) in Various Microenvironments by Age Group (years) for the National and California Surveys

Microenvironment	National Data									
	Mean Duration (Standard Error)									
	Age 12–17 N = 340 ^a	Doer ^b	Age 18–24 N = 340	Doer	Age 24–44 N = 340	Doer	Age 45–64 N = 340	Doer	Age 65+ N = 340	Doer
Autoplaces	2 (1)	73	7 (2)	137	2 (1)	43	4 (1)	73	4 (2)	57
Restaurant/bar	9 (2)	60	28 (3)	70	25 (3)	86	19 (2)	67	20 (5)	74
In-vehicle/internal combustion	79 (7)	88	103 (8)	109	94 (4)	101	82 (5)	91	62 (5)	80
In-vehicle/other	0 (0)	12	1 (1)	160	1 (0)	80	1 (1)	198	1 (1)	277
Physical/outdoors	32 (8)	130	17 (4)	110	19 (4)	164	7 (1)	79	15 (4)	81
Physical/indoors	15 (3)	87	8 (2)	76	7 (1)	71	7 (2)	77	7 (1)	51
Work/study-residence	22 (4)	82	19 (6)	185	16 (2)	181	9 (2)	169	5 (3)	297
Work/study-other	159 (14)	354	207 (20)	391	220 (11)	422	180 (13)	429	35 (6)	341
Cooking	11 (3)	40	18 (2)	39	38 (2)	57	43 (3)	64	50 (5)	65
Other activities/kitchen	53 (4)	64	42 (3)	55	70 (4)	86	90 (6)	101	108 (9)	119
Chores/child	91 (7)	92	124 (9)	125	133 (6)	134	121 (6)	122	119 (7)	121
Shop/errands	26 (4)	68	31 (4)	65	33 (2)	66	33 (3)	67	35 (5)	69
Other/outdoors	70 (13)	129	34 (4)	84	48 (6)	105	60 (7)	118	82 (13)	140
Social/cultural	87 (10)	120	100 (12)	141	56 (3)	94	73 (6)	116	85 (8)	122
Leisure-eat/indoors	237 (16)	242	181 (11)	189	200 (8)	208	238 (11)	244	303 (20)	312
Sleep/indoors	548 (31)	551	511 (26)	512	479 (14)	480	472 (15)	472	507 (26)	509
Microenvironment	CARB Data									
	Mean Duration (Standard Error)									
	Age 12–17 N = 340 ^a	Doer	Age 18–24 N = 340	Doer	Age 24–44 N = 340	Doer	Age 45–64 N = 340	Doer	Age 65+ N = 340	Doer
Autoplaces	16 (8)	124	16 (4)	71	25 (9)	114	20 (5)	94	9 (2)	53
Restaurant/bar	16 (4)	44	40 (8)	98	44 (5)	116	31 (4)	82	25 (7)	99
In-vehicle/internal combustion	78 (11)	89	111 (13)	122	98 (5)	111	100 (11)	117	63 (8)	89
In-vehicle/other	1 (0)	19	3 (1)	60	5 (2)	143	2 (1)	56	2 (1)	53
Physical/outdoors	32 (7)	110	13 (3)	88	17 (3)	128	14 (3)	123	15 (4)	104
Physical/indoors	20 (4)	65	5 (2)	77	6 (1)	61	5 (1)	77	3 (1)	48
Work/study-residence	25 (5)	76	30 (11)	161	7 (2)	137	10 (3)	139	5 (3)	195
Work/study-other	196 (30)	339	201 (24)	344	215 (14)	410	173 (20)	429	30 (11)	336
Cooking	3 (1)	19	14 (2)	40	32 (2)	59	31 (3)	68	41 (7)	69
Other activities/kitchen	31 (4)	51	31 (5)	55	43 (3)	65	62 (6)	91	97 (14)	119
Chores/child	72 (11)	77	79 (8)	85	110 (6)	119	99 (8)	109	123 (15)	141
Shop/errands	14 (3)	50	35 (7)	71	33 (4)	71	32 (3)	77	35 (5)	76
Other/outdoors	58 (8)	78	80 (15)	130	68 (8)	127	76 (12)	134	55 (7)	101
Social/cultural	63 (14)	109	65 (10)	110	50 (5)	122	50 (5)	107	49 (7)	114
Leisure-eat/indoors	260 (27)	270	211 (19)	234	202 (9)	215	248 (15)	261	386 (34)	394
Sleep/indoors	557 (44)	560	506 (30)	510	487 (17)	491	485 (23)	491	502 (31)	502

^a All N's are weighted number.

^b Doer = Respondents who reported participating in each activity/location spent in microenvironments.

Source: Robinson and Thomas (1991).

Table 16-73. Mean Time Spent in Ten Major Activity Categories Grouped by Total Sample and Sex for the CARB and National Studies (age 18–64 years)

Activity Category	Time Duration (minutes/day)					
	CARB (1987–1988)		National (1985)		National (1985)	
	Total Sample		CARB (1987–1988)		National (1985)	
	<i>N</i> ^a = 1,359	<i>N</i> = 1,980	Men <i>N</i> = 639	Women <i>N</i> = 720	Men <i>N</i> = 921	Women <i>N</i> = 1,059
Paid Work	273	252	346	200	323	190
Household Work	102	118	68	137	79	155
Child Care	23	25	12	36	11	43
Obtaining Goods and Services	61	55	48	73	44	62
Personal Needs and Care	642	642	630	655	636	645
Education and Training	22	19	25	20	21	16
Organizational Activities	12	17	11	13	12	20
Entertainment/Social Activities	60	62	57	55	64	62
Recreation	43	50	53	31	69	43
Communication	202	196	192	214	197	194
^a <i>N</i> = total diary days.						
Source: Robinson and Thomas (1991).						

Table 16-74. Total Mean Time Spent at 3 Major Locations Grouped by Total Sample and Sex for the CARB and National Study (age 18–64 years)

Location ^a	CARB (1987–1988)		National (1985)		National (1985)	
	Total Sample		CARB (1987–1988)		National (1985)	
	<i>N</i> ^a = 1,359	<i>N</i> = 1,980	Men <i>N</i> = 39	Women <i>N</i> = 720	Men <i>N</i> = 921	Women <i>N</i> = 1,059
	At Home	892	954	822	963	886
Away From Home	430	384	487	371	445	324
Travel	116	94	130	102	101	87
Not Ascertained	2	8	1	4	8	7
Total Time	1,440	1,440	1,440	1,440	1,440	1,440
^a <i>N</i> = total diary days.						
Source: Robinson and Thomas (1991).						

Table 16-75. Mean Time Spent at 3 Locations for Both CARB and National Studies (ages 12 years and older)				
Location Category	Mean Duration (minutes/day)			
	CARB (<i>N</i> = 1,762) ^a	SE ^b	National (<i>N</i> = 2,762) ^a	SE
Indoor	1,255 ^c	28	1,279 ^c	21
Outdoor	86 ^d	5	74 ^d	4
In-Vehicle	98 ^d	4	87 ^d	2
Total Time Spent	1,440		1,440	
^a <i>N</i> = Weighted Number – National sample population was weighted to obtain a ratio of 46.5 males and 53.5 females, in equal proportion for each day of the week, and for each quarter of the year. ^b SE = Standard error of mean. ^c Difference between the mean values for the CARB and national studies is not statistically significant. ^d Difference between the mean values for the CARB and national studies is statistically significant at the 0.05 level.				
Source: Robinson and Thomas (1991).				

Table 16-76. Sample Sizes for Sex and Age Groups			
Age Group	Group	Sample Size	Age Range
Adults	Men	724	≥18 years
	Women	855	≥18 years
Adolescents	Male	98	12–17 years
	Female	85	12–17 years
Children ^a	Young male	145	6–8 years
	Young female	124	6–8 years
	Old male	156	9–11 years
	Old female	160	9–11 years
^a Children under the age of 6 are excluded for the present study (too few responses in CARB study).			
Source: Funk et al. (1998).			

Table 16-77. Assignment of At Home Activities to Inhalation Rate Levels for All Individuals				
Children		Adolescent and Adult		
Low	Moderate	Low	Moderate	High
Watching child care	Outdoor cleaning	Night sleep	Food preparation	Outdoor cleaning
Night sleep	Food Preparation	Naps/resting	Food clean-up	
Watch personal care	Metal clean-up	Doing homework	Cleaning house	
Homework	Cleaning house	Radio use	Clothes care	
Radio use	Clothes care	TV use	Car care	
TV use	Car/boat repair	Records/tapes	Household repairs	
Records/tapes	Home repair	Read books	Plant care	
Reading books	Plant care	Read magazines	Animal care	
Reading magazines	Other household	Writing/paperwork	Other household	
Reading newspapers	Pet care	Other passive leisure	Baby care	
Letters/writing	Baby care		Child care	
Other leisure	Child care		Helping/teaching	
Homework/watch TV	Helping/teaching		Talking/reading	
Reading/TV	Talking/reading		Indoor playing	
Reading/listen music	Indoor playing		Outdoor playing	
Paperwork	Outdoor playing		Medical child care	
	Medical child care		Washing	
	Washing, hygiene		Medical care	
	Medical care		Help and care	
	Help and care		Meals at home	
	Meals at home		Dressing/grooming	
	Dressing		Not ascertained	
	Visiting at home		Visiting at home	
	Hobbies		Hobbies	
	Domestic crafts		Domestic crafts	
	Art		Art	
	Music/dance/drama		Music/drama/dance	
	Indoor dance		Games	
	Conservations		Computer use	
	Painting room/home		Conversations	
	Building fire			
	Washing/dressing			
	Outdoor play			
	Playing/eating			
	Playing/talking			
	Playing/watch TV			
	TV/eating			
	TV/something else			
	Reading book/eating			
	Read magazine/eat			
	Read newspaper/eat			

Source: Funk et al. (1998).

Chapter 16—Activity Factors

Table 16-78. Aggregate Time Spent (minutes/day) at Home in Activity Groups ^a						
Activity Group	Adult		Adolescent		Children	
	Mean	SD	Mean	SD	Mean	SD
Low	702	214	789	230	823	153
Moderate	257	183	197	131	241 ^b	136
High	9	38	1	11	3	17
High _{participants} ^c	92	83	43	72	58	47

^a Time spent engaging in all activities embodied by inhalation rate category (minutes/day).
^b Significantly different from adolescents ($p < 0.05$).
^c Participants in high inhalation rate level activities (i.e., doers).
SD = Standard deviation.

Source: Funk et al. (1998).

Table 16-79. Comparison of Mean Time Spent (minutes/day) at Home, by Sex ^a					
Activity Group	Male		Female		SD
	Mean	SD	Mean	SD	
Adults					
Low	691	226	714		200
Moderate	190	150	323 ^b		189
High	14	50	4 ^b		18
High _{participants} ^c	109	97	59 ^b		40
Adolescents					
Low	775	206	804		253
Moderate	181	126	241		134
High	2	16	0		0

^a Time spent engaging in all activities embodied by inhalation rate category (minutes/day).
^b Significantly different from male ($p < 0.05$).
^c Participants in high inhalation rate activities (i.e., doers).
SD = Standard deviation.

Source: Funk et al. (1998).

Table 16-80. Comparison of Mean Time Spent (minutes/day) at Home, by Sex and Age for Children^a

Activity Group	Male				Female			
	6 to 8 Years		9 to 11 Years		6 to 8 Years		9 to 11 Years	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Low	806	134	860	157	828	155	803	162
Moderate	259	135	198	111	256	141	247	146
High	3	17	7	27	1	9	2	10
High _{participant} ^b	77	59	70	54	68	11	30	23

^a Time spent engaging in all activities embodied by inhalation rate category (minutes/day).
^b Participants in high inhalation rate activities (i.e., doers).
SD = Standard deviation.

Source : Funk et al. (1998).

Table 16-81. Number of Person-Days/Individuals^a for Children Less Than 12 Years in CHAD Database

Age Group	All Studies	California ^b	Cincinnati ^c	NHAPS-Air	NHAPS-Water
0 Years	223/199	104	36/12	39	44
0 to 6 Months	-	50	15/5	-	-
6 to 12 Months	-	54	21/7	-	-
1 Year	259/238	97	31/11	64	67
12 to 18 Months	-	57	-	-	-
18 to 24 Months	-	40	-	-	-
2 Years	317/264	112	81/28	57	67
3 Years	278/242	113	54/18	51	60
4 Years	259/232	91	41/14	64	63
5 Years	254/227	98	40/14	52	64
6 Years	237/199	81	57/19	59	40
7 Years	243/213	85	45/15	57	56
8 Years	259/226	103	49/17	51	55
9 Years	229/195	90	51/17	42	46
10 Years	224/199	105	38/13	39	42
11 Years	227/206	121	32/11	44	30
Total	3,009/2,640	1,200	556/187	619	634

^a The number of person-days of data are the same as the number of individuals for all studies except for the Cincinnati study. Since up to 3 days of activity pattern data were obtained from each participant in this study, the number of person-days of data is approximately 3 times the number of individuals.
^b The California study referred to in this table is the Wiley et al. (1991) study.
^c The Cincinnati study referred to in this table is the Johnson (1989) study.
- = No data.

Source: Cohen Hubal et al. (2000).

Table 16-82. Time Spent (hours/day) in Various Microenvironments, by Age

Age (years)	Average Time ± Standard Deviation (Percent > 0 Hours)				
	Indoors at Home	Outdoors at Home	Indoors at School	Outdoors at Park	In Vehicle
0	19.6 ± 4.3 (99)	1.4 ± 1.5 (20)	3.5 ± 3.7 (2)	1.6 ± 1.5 (9)	1.2 ± 1.0 (65)
1	19.5 ± 4.1 (99)	1.6 ± 1.3 (35)	3.4 ± 3.8 (5)	1.9 ± 2.7 (10)	1.1 ± 0.9 (66)
2	17.8 ± 4.3 (100)	2.0 ± 1.7 (46)	6.2 ± 3.3 (9)	2.0 ± 1.7 (17)	1.2 ± 1.5 (76)
3	18.0 ± 4.2 (100)	2.1 ± 1.8 (48)	5.7 ± 2.8 (14)	1.5 ± 0.9 (17)	1.4 ± 1.9 (73)
4	17.3 ± 4.3 (100)	2.4 ± 1.8 (42)	4.9 ± 3.2 (16)	2.3 ± 1.9 (20)	1.1 ± 0.8 (78)
5	16.3 ± 4.0 (99)	2.5 ± 2.1 (52)	5.4 ± 2.5 (39)	1.6 ± 1.5 (28)	1.3 ± 1.8 (80)
6	16.0 ± 4.2 (98)	2.6 ± 2.2 (48)	5.8 ± 2.2 (34)	2.1 ± 2.4 (32)	1.1 ± 0.8 (79)
7	15.5 ± 3.9 (99)	2.6 ± 2.0 (48)	6.3 ± 1.3 (40)	1.5 ± 1.0 (28)	1.1 ± 1.1 (77)
8	15.6 ± 4.1 (99)	2.1 ± 2.5 (44)	6.2 ± 1.1 (41)	2.2 ± 2.4 (37)	1.3 ± 2.1 (82)
9	15.2 ± 4.3 (99)	2.3 ± 2.8 (49)	6.0 ± 1.5 (39)	1.7 ± 1.5 (34)	1.2 ± 1.2 (76)
10	16.0 ± 4.4 (96)	1.7 ± 1.9 (40)	5.9 ± 1.5 (39)	2.2 ± 2.3 (40)	1.1 ± 1.1 (82)
11	14.9 ± 4.6 (98)	1.9 ± 2.3 (45)	5.9 ± 1.5 (41)	2.0 ± 1.7 (44)	1.6 ± 1.9 (74)

Source: Cohen Hubal et al. (2000).

Table 16-83. Mean Time Children Spent (hours/day) Doing Various Macroactivities While Indoors at Home

Age (years)	Mean Time (Percent > 0 Hours)						
	Eat	Sleep or Nap	Shower or Bath	Play Games	Watch TV or Listen to Radio	Read, Write, Homework	Think, Relax, Passive
0	1.9 (96)	12.6 (99)	0.4 (44)	4.3 (29)	1.1 (9)	0.4 (4)	3.3 (62)
1	1.5 (97)	12.1 (99)	0.5 (56)	3.9 (68)	1.8 (41)	0.6 (19)	2.3 (20)
2	1.3 (92)	11.5 (100)	0.5 (53)	2.5 (59)	2.1 (69)	0.6 (27)	1.4 (18)
3	1.2 (95)	11.3 (99)	0.4 (53)	2.6 (59)	2.6 (81)	0.8 (27)	1.0 (19)
4	1.1 (93)	10.9 (100)	0.5 (52)	2.6 (54)	2.5 (82)	0.7 (31)	1.1 (17)
5	1.1 (95)	10.5 (98)	0.5 (54)	2.0 (49)	2.3 (85)	0.8 (31)	1.2 (19)
6	1.1 (94)	10.4 (98)	0.4 (49)	1.9 (35)	2.3 (82)	0.9 (38)	1.1 (14)
7	1.0 (93)	9.9 (99)	0.4 (56)	2.1 (38)	2.5 (84)	0.9 (40)	0.6 (10)
8	0.9 (91)	10.0 (96)	0.4 (51)	2.0 (35)	2.7 (83)	1.0 (45)	0.7 (7)
9	0.9 (90)	9.7 (96)	0.5 (43)	1.7 (28)	3.1 (83)	1.0 (44)	0.9 (17)
10	1.0 (86)	9.6 (94)	0.4 (43)	1.7 (38)	3.5 (79)	1.5 (47)	0.6 (10)
11	0.9 (89)	9.3 (94)	0.4 (45)	1.9 (27)	3.1 (85)	1.1 (47)	0.6 (10)

Source: Cohen Hubal et al. (2000).

Table 16-84. Time Children Spent (hours/day) in Various Microenvironments, by Age Recast Into New Standard Age Categories

Age Group	N	Indoors at Home		Outdoors at Home		Indoors at School		Outdoors at Park		In Vehicle	
		Mean Time	% Doing	Mean Time	% Doing	Mean Time	% Doing	Mean Time	% Doing	Mean Time	% Doing
Birth to <1 month	123	19.6	98	1.7	21	4.3	3	1.3	3	1.3	63
1 to <3 months	33	20.9	100	1.8	9	0.2	3	1.6	9	1.3	27
3 to <6 months	120	19.6	100	0.8	8	7.8	7	1.3	6	1.1	14
6 to <12 months	287	19.1	99	1.1	15	7.6	8	1.8	5	1.3	14
1 to <2 years	728	19.2	99	1.4	34	6.4	9	1.5	5	1.1	27
2 to <3 years	765	18.2	99	1.8	38	6.8	12	2.1	7	1.3	28
3 to <6 years	2,110	17.3	100	1.9	43	5.9	26	1.6	10	1.3	29
6 to <11 years	3,283	15.7	99	1.9	40	6.5	44	2.1	17	1.1	29
11 to <16 years	2,031	15.5	97	1.7	30	6.6	45	2.6	15	1.3	42
16 to <21 years	1,005	14.6	98	1.4	20	5.7	33	3.1	10	1.7	90

N = Sample size.

Source: Based on data source (CHAD) used by Cohen Hubal et al. (2000).

Table 16-85. Time Children Spent (hours/day) in Various Macroactivities While Indoors at Home Recast Into New Standard Age Categories

Age Group	N	Eat		Sleep or Nap		Shower or Bath		Play Game		Watch TV/ Listen to Radio		Read, Write, Homework		Think, Relax, Passive	
		Mean Time	% Doing	Mean Time	% Doing	Mean Time	% Doing	Mean Time	% Doing	Mean Time	% Doing	Mean Time	% Doing	Mean Time	% Doing
Birth to <1 month	123	2.2	98	13.0	100	0.5	41	5.0	53	1.3	8	0.7	2	2.7	48
1 to <3 months	33	2.4	100	14.8	100	0.4	24	0.7	6	1.6	15	0.0	0	3.5	79
3 to <6 months	120	2.0	100	13.5	100	0.5	9	1.3	31	1.0	21	1.1	3	2.5	59
6 to <12 months	287	1.8	100	12.9	100	0.4	11	1.1	30	1.3	25	0.5	4	2.5	35
1 to <2 years	728	1.7	99	12.5	100	0.5	21	3.2	45	1.8	52	0.6	13	1.4	26
2 to <3 years	765	1.5	98	12.0	100	0.5	22	2.6	45	2.0	77	0.6	18	0.8	30
3 to <6 years	2,110	1.4	99	11.2	100	0.5	38	2.5	38	2.3	86	0.7	25	0.8	28
6 to <11 years	3,283	1.2	98	10.2	100	0.4	54	2.0	28	2.6	84	1.0	43	0.8	20
11 to <16 years	2,031	1.1	94	9.7	98	0.4	50	1.8	18	3.0	85	1.4	45	0.8	20
16 to <21 years	1,005	1.0	84	8.9	98	0.4	45	1.9	5	3.2	73	2.2	37	1.3	24

N = Sample size.

Source: Based on data source (CHAD) used by Cohen Hubal et al. (2000).

Table 16-86. Number and Percentage of Respondents With Children and Those Reporting Outdoor Play^a Activities in Both Warm and Cold Weather

Source	Respondents with Children	Child Player ^a		Child Non-Player		Warm Weather Player ^b	Cold Weather Player	Player in Both Seasons
		<i>N</i>	<i>N</i>	%	<i>N</i>	%	<i>N</i>	
SCS-II base	197	128	65.0	69	35.0	127	100	50.8
SCS-II over sample	483	372	77.0	111	23.0	370	290	60.0
Total	680	500	73.5	180	26.5	497	390	57.4

^a “Play” and “player” refer specifically to participation in outdoor play on bare dirt or mixed grass and dirt.
^b Does not include three “Don’t know/refused” responses regarding warm weather play.
N = Sample size.

Source: Wong et al. (2000).

Table 16-87. Play Frequency and Duration for All Child Players (from SCS-II data)

Statistic	Cold Weather			Warm Weather		
	Frequency (days/week)	Duration (hours/day)	Total (hours/week)	Frequency (days/week)	Duration (hours/day)	Total (hours/week)
<i>N</i>	372	374	373	488	479	480
5 th Percentile	1	1	1	2	1	4
50 th Percentile	3	1	5	7	3	20
95 th Percentile	7	4	20	7	8	50

N = Sample size.

Source: Wong et al. (2000).

Table 16-88. Hand Washing and Bathing Frequency for All Child Players (from SCS-II data)

Statistic	Cold Weather		Warm Weather	
	Hand Washing (times/day)	Bathing (times/week)	Hand Washing (times/day)	Bathing (times/week)
<i>N</i>	329	388	433	494
5 th Percentile	2	2	2	3
50 th Percentile	4	7	4	7
95 th Percentile	10	10	12	14

N = Sample size.

Source: Wong et al. (2000).

Table 16-89. NHAPS and SCS-II Play Duration^a Comparison (children only)

Data Source	Mean Play Duration (minutes/day)			χ^2 test ^b
	Cold Weather	Warm Weather	Total	
NHAPS	114	109	223	$p < 0.0001$
SCS-II	102	206	308	

^a Selected previous day activities in NHAPS; average day outdoor play on bare dirt or mixed grass and dirt in SCS-II.
^b 2×2 Chi-square test for contingency between NHAPS and SCS-II.

Source: Wong et al. (2000).

Table 16-90. NHAPS and SCS-II Hand Wash Frequency^a Comparison (children only)

Data Source	Season	Percent ^b Reporting Frequency (times/day) of:								χ^2 test ^c
		0	1–2	3–5	6–9	10–19	20–29	30+	“Don’t Know”	
NHAPS	Cold	3	18	51	17	7	1	1	3	$p = 0.06$
SCS-II	Cold	1	16	50	11	7	1	0	15	
NHAPS	Warm	3	18	51	15	7	2	1	4	$p = 0.001$
SCS-II	Warm	0	12	46	16	10	1	0	13	

^a Selected previous day activities in NHAPS; average day outdoor play on bare dirt or mixed grass and dirt in SCS-II.
^b Results are reported as percentage of total for clarity. Incidence data were used in statistical tests.
^c 2×2 Chi-square test for contingency between NHAPS and SCS-II.

Source: Wong et al. (2000).

**Table 16-91. Time Spent (minutes/day) Outdoors
Based on CHAD Data (doers only)^a**

Age Group	N	Time Spent Outdoors					COV(%)	Participation ^b (%)
		Minimum	Median	Maximum	Mean	SD		
<1 month	57	2	60	700	99	124	125	47
1 to 2 months	5	4	60	225	102	90	89	36
3 to 5 months	27	10	90	510	114	98	86	23
6 to 11 months	91	5	60	450	91	76	84	33
1 year	389	1	75	1,035	102	99	97	58
2 years	448	1	100	550	134	108	80	64
3 to 5 years	1,336	1	120	972	146	117	80	68
6 to 10 years	2,216	1	120	1,440	162	144	89	71
11 to 15 years	1,423	1	110	1,440	154	163	106	73
16 to 17 years	356	1	85	1,083	129	145	112	81
18 to 20 years	351	1	70	788	132	155	118	72
21 to 44 years	3,660	1	61	1,305	131	165	126	62
45 to 64 years	1,914	1	69	1,015	135	162	120	62
>64 years	1,002	1	65	840	118	130	110	57

^a Only data for individuals that spent >0 time outdoors and had 30 or more records are included in the analysis.

^b Participation rates or percent of sample days in the study spending some time (>0 minutes per day) outdoors. The mean time spent outdoors for the age group may be obtained by multiplying the participation rate by the mean time shown above.

SD = Standard deviation.

COV = Coefficient of variation (SD/mean × 100).

Source: Graham and McCurdy (2004).

Table 16-92. Comparison of Daily Time Spent Outdoors (minutes/day), Considering Sex and Age Cohort (doers only)^a

Age Group	Sex	N	Time Spent Outdoors in Minutes					COV (%)	K-S Test ^b			
			Minimum	Median	Maximum	Mean	SD		D _n	χ^2	p	Reject H ₀
<1 month	Male	35	7	69	700	116	144	125	0.24	0.90X	0.3964	No
	Female	22	2	58	333	73	78	106				
1 to 2 months	Male	4	4	58	165	71	68	95				Cannot Test
	Female	1	225	225	225	225	-	0				
3 to 5 months	Male	20	10	86	210	89	56	63	0.42	0.96	0.3158	No
	Female	7	50	140	510	187	153	81				
6 to 11 months	Male	53	10	60	450	95	83	87	0.07	1.00	0.3200	No
	Female	38	5	68	270	86	67	77				
1 year	Male	184	1	80	1,035	110	114	104	0.07	0.71	0.6896	No
	Female	205	4	70	511	95	82	86				
2 years	Male	232	1	105	550	136	105	77	0.09	1.00	0.2705	No
	Female	216	2	90	525	131	111	84				
3 to 5 years	Male	723	1	120	972	146	119	81	0.04	0.74	0.6465	No
	Female	612	2	120	701	144	113	78				
6 to 10 years	Male	1,228	1	132	1,440	173	148	86	0.09	2.05	0.0004	Yes
	Female	987	2	115	1,380	148	138	93				
11 to 15 years	Male	779	1	125	1,440	171	169	99	0.17	3.12	<0.0001	Yes
	Female	640	1	90	1,371	134	153	114				
16 to 17 years	Male	168	2	113	810	151	147	97	0.19	1.80	0.0030	Yes
	Female	188	1	68	1,083	109	141	127				
18 to 20 years	Male	184	2	95	788	162	176	109	0.20	1.84	0.0023	Yes
	Female	167	1	50	606	99	119	120				
21 to 44 years	Male	1,702	1	82	1,005	164	191	117	0.14	4.23	<0.0001	Yes
	Female	1,956	1	55	1,305	103	133	129				
45 to 64 years	Male	839	1	91	1,015	178	193	109	0.18	3.90	<0.0001	Yes
	Female	1,075	1	58	930	102	124	121				
>64 years	Male	396	2	118	840	164	156	96	0.25	3.81	<0.0001	Yes
	Female	605	1	60	630	88	98	111				

^a Only data for individuals that spent >0 time outdoors and had 30 or more records are included in the analysis.
^b The 2-sample Kolmogorov-Smirnov (K-S) test H₀ is that the distribution of variable 1 is the same as variable 2, using D_n (test statistic) and a χ^2 test statistic at $\alpha = 0.050$.
- Data not available.
SD = Standard deviation.
COV = Coefficient of variation (SD/mean × 100).
Source: Graham and McCurdy (2004).

**Table 16-93. Time Spent (minutes/day) Indoors
Based on CHAD Data (doers only)^a**

Age Group	N	Time Spent Indoors					COV (%)	Participation ^b (%)
		Minimum	Median	Maximum	Mean	SD		
<1 month	121	490	1,380	1,440	1,336	137	10	100.0
1 to 2 months	14	1,125	1,380	1,440	1,348	105	8	100.0
3 to 5 months	115	840	1,385	1,440	1,359	93	7	100.0
6 to 11 months	278	840	1,370	1,440	1,353	81	6	100.0
1 year	668	315	1,350	1,440	1,324	107	8	100.0
2 years	700	290	1,319	1,440	1,286	138	11	100.0
3 to 5 years	1,977	23	1,307	1,440	1,276	136	11	100.0
6 to 10 years	3,118	7	1,292	1,440	1,256	153	12	100.0
11 to 15 years	1,939	69	1,300	1,440	1,255	160	13	99.8
16 to 17 years	438	161	1,296	1,440	1,251	171	14	100.0
18 to 20 years	485	512	1,310	1,440	1,242	180	15	100.0
21 to 44 years	5,872	60	1,317	1,440	1,259	176	14	100.0
45 to 64 years	3,073	23	1,320	1,440	1,262	172	14	100.0
>64 years	1,758	600	1,350	1,440	1,310	141	11	100.0

^a Only data for individuals that spent >0 time indoors and had 30 or more records are included in the analysis.

^b Participation rates or percent of sample days in the study spending some time (>0 minutes/day) indoors. The mean time spent indoors for the age group may be obtained by multiplying the participation rate (as a decimal) by the mean time shown above.

N = Sample size.

SD = Standard deviation.

COV = Coefficient of variation (SD/mean × 100).

Source: Graham and McCurdy (2004).

**Table 16-94. Time Spent (minutes/day) in Motor Vehicles
Based on CHAD Data (doers only)^a**

Age Group	N	Time Spent in Motor Vehicle					COV (%)	Participation ^b (%)
		Minimum	Median	Maximum	Mean	SD		
<1 month	80	2	68	350	86	68	79	66
1 to 2 months	9	20	83	105	67	32	48	64
3 to 5 months	75	13	60	335	71	49	69	65
6 to 11 months	226	4	51	425	62	47	76	81
1 year	515	1	52	300	67	50	76	77
2 years	581	2	54	955	73	76	104	83
3 to 5 years	1,702	1	55	1,389	70	70	99	86
6 to 10 years	2,766	1	58	1,214	71	68	95	89
11 to 15 years	1,685	1	60	825	76	74	97	87
16 to 17 years	400	4	73	1,007	92	90	98	91
18 to 20 years	449	4	76	852	109	106	98	93
21 to 44 years	5,429	1	80	1,440	105	100	96	92
45 to 64 years	2,739	1	75	1,357	102	105	103	89
>64 years	1,259	4	60	798	86	85	99	72

^a Only data for individuals that spent >0 time in motor vehicles and had 30 or more records are included in the analysis.

^b Participation rates or percent of sample days in the study spending some time (>0 minutes/day) in motor vehicles. The mean time spent in motor vehicles for the age group may be obtained by multiplying the participation rate (as a decimal) by the mean time shown above.

N = Sample size.
SD = Standard deviation.
COV = Coefficient of variation (SD/mean × 100).

Source: Graham and McCurdy (2004).

Activity Category	2002–2003				1981–1982			
			12 to 14	15 to 17			12 to 14	15 to 17
	6 to 8 years	9 to 11 years	years	years	6 to 8 years	9 to 11 years	years	years
Market work	0	0	1	22	-	-	-	28
Household work	25	32	38	39	15	18	27	34
Personal care	68	66	68	73	49	40	56	60
Eating	60	57	54	49	81	73	69	67
Sleeping, naps	607	583	542	515	595	548	473	499
School	406	398	395	352	292	315	344	314
Studying	29	39	49	50	8	29	33	33
Church	4	5	5	3	9	9	9	3
Visiting, socializing	16	25	25	53	-	-	-	-
Sports	10	17	33	33	24	21	40	46
Outdoor Activities	6	6	4	6	9	8	7	11
Hobbies	1	1	1	2	2	2	4	6
Art Activities	8	7	7	4	4	3	3	12
Television	94	106	111	115	99	146	142	108
Other passive leisure	9	10	24	39	-	-	-	-
Playing	74	56	45	35	111	65	31	14
Reading	11	12	11	7	5	9	10	12
Being read to	2	1	0	0	-	-	-	-
Computer activities	6	10	25	38	-	-	-	-
Missing data	4	8	4	6	-	-	-	-
- Data not provided.								
Source: Juster et al. (2004).								

Table 16-96. Mean Time Spent (minutes/day) in Various Activity Categories, by Age—Weekend Day (children only)

Activity Category	2002–2003				1981–1982			
	6 to 8 years	9 to 11 years	12 to 14 years	15 to 17 years	6 to 8 years	9 to 11 years	12 to 14 years	15 to 17 years
Market work	0	0	9	39	-	-	-	48
Household work	81	91	100	79	27	51	72	60
Personal care	78	72	73	77	45	44	60	51
Eating	89	80	69	64	80	78	68	65
Sleeping, naps	666	644	633	629	641	596	604	562
School	3	6	7	7	-	-	-	-
Studying	5	9	20	24	2	12	15	30
Church	41	37	36	30	56	53	32	37
Visiting, socializing	61	66	58	91	-	-	-	-
Sports	23	40	40	27	30	42	51	37
Outdoor Activities	12	12	12	11	23	39	25	26
Hobbies	2	1	4	5	5	3	8	3
Art Activities	11	7	9	6	4	4	7	10
Television	155	184	181	162	136	185	169	157
Other passive leisure	14	15	40	54	-	-	-	-
Playing	163	134	148	59	180	92	35	21
Reading	14	15	13	7	9	10	10	18
Being read to	1	1	0	0	-	-	-	-
Computer activities	12	19	39	58	-	-	-	-
Missing data	9	8	9	11	-	-	-	-

- Data not provided.

Source: Juster et al. (2004).

Table 16-97. Mean Time Spent (minutes/week) in Various Activity Categories for Children, Ages 6 to 17 Years		
Activity Category	2002–2003	1981–1982
Market work	53	126
Household work	343	223
Personal care	493	356
Eating	426	508
Sleeping, naps	4,092	3,758
School	1,947	1,581
Studying	238	158
Church	94	125
Visiting, socializing	287	132
Sports	179	244
Outdoor Activities	50	100
Hobbies	12	27
Art Activities	48	40
Television	876	944
Other passive leisure	166	39
Playing	485	440
Reading	77	69
Being read to	5	3
Computer activities	165	0
Missing data	45	1,206
Source: Juster et al. (2004).		

Table 16-98. Time Spent (minutes/2-day period)^a in Various Activities by Children Participating in the Panel Study of Income Dynamics (PSID), 1997 Child Development Supplement (CDS)				
Age Group	Boys (N = 1,444)		Girls (N = 1,387)	
	Mean ^a	Standard Deviation	Mean ^a	Standard Deviation
Television Use				
1 to 5 years	197	168	184	163
6 to 8 years	263	165	239	159
9 to 12 years	251	185	266	194
Electronic Game Use				
1 to 5 years	8	38	5	40
6 to 8 years	44	113	14	39
9 to 12 years	57	102	18	47
Computer Use				
1 to 5 years	7	28	7	35
6 to 8 years	13	43	8	28
9 to 12 years	27	71	15	43
Print Use^b				
1 to 5 years	21	32	23	34
6 to 8 years	20	37	20	32
9 to 12 years	19	47	29	56
Highly Active Activities^c				
1 to 5 years	42	74	34	78
6 to 8 years	107	123	62	92
9 to 12 years	137	149	63	88
Moderately Active Activities^d				
1 to 5 years	55	81	59	92
6 to 8 years	31	65	37	69
9 to 12 years	40	73	46	89
Sedentary Activities^e				
1 to 5 years	55	71	54	71
6 to 8 years	75	77	80	84
9 to 12 years	110	109	122	111
^a	Means represent minutes spent in each activity over a 2-day period (1 weekday and 1 weekend day).			
^b	Print use represents time spent using print media including reading and being read to.			
^c	Includes all sport activities such as basketball, soccer, swimming, running or bicycling.			
^d	Includes activities such as singing, camping, taking music lessons, fishing, and boating.			
^e	Includes activities such as playing board games, doing puzzles, talking on the phone, and relaxing.			
N	= Sample size.			
Source: Vanderwater et al., 2004.				

Table 16-99. Annual Average Time Spent (hours/day) on Various Activities According to Age, Race, Ethnicity, Marital Status, and Educational Level (ages 15 years and over)

Characteristic	Personal Care ^a	Eating and Drinking ^b	Household Activity ^c	Purchasing Goods and Services ^d	Caring for and Helping Household Member ^e	Caring for and Helping Non-Household Member ^f	Working on Work-Related Activity ^g	Educational Activity ^h	Organizational and Religious Activity ⁱ	Civic and Leisure Sport ^j	Telephone Call, Mail, and E-mail ^k	Other Activity Not Elsewhere Classified ^l
<u>Age (years)</u>												
15+	9.41	1.23	1.79	0.81	0.53	0.21	3.75	0.49	0.30	5.09	0.19	0.21
15 to 19	10.30	1.07	0.76	0.56	0.15	0.21	1.39	3.29	0.34	5.40	0.33	0.22
20 to 24	9.64	1.21	1.05	0.67	0.51	0.20	4.23	0.80	0.21	5.03	0.19	0.24
25 to 34	9.31	1.19	1.55	0.81	1.07	0.12	4.77	0.39	0.16	4.30	0.14	0.17
35 to 44	9.12	1.18	1.87	0.87	0.98	0.19	4.96	0.15	0.30	4.09	0.13	0.16
45 to 54	9.10	1.17	1.97	0.82	0.36	0.24	5.06	0.09	0.29	4.52	0.17	0.20
55 to 64	9.19	1.31	2.11	0.91	0.16	0.28	3.80	0.04	0.39	5.41	0.18	0.20
65 to 74	9.68	1.44	2.64	0.93	0.13	0.30	0.94	0.05	0.38	6.97	0.24	0.29
75+	9.83	1.50	2.32	0.80	0.12	0.21	0.34	0.06	0.43	7.82	0.30	0.27
<u>Sex</u>												
Male	9.21	1.25	1.33	0.64	0.33	0.18	4.53	0.45	0.29	5.47	0.12	0.20
Female	9.59	1.22	2.23	0.96	0.71	0.24	3.02	0.53	0.31	4.72	0.26	0.22
<u>Race/Ethnicity</u>												
White	9.30	1.28	1.85	0.81	0.53	0.21	3.76	0.47	0.29	5.09	0.18	0.21
Black	10.08	0.87	1.38	0.75	0.46	0.20	3.54	0.43	0.37	5.49	0.25	0.18
Hispanic/Latino	9.67	1.18	1.85	0.77	0.60	0.15	3.92	0.69	0.23	4.63	0.13	0.18
<u>Marital Status</u>												
Married	9.12	1.28	2.09	0.88	0.75	0.21	4.08	0.11	0.33	4.79	0.14	0.21
Other	9.75	1.18	1.43	0.72	0.25	0.22	3.34	0.94	0.27	5.45	0.25	0.20
<u>Education</u>												
< High School grad	9.86	1.10	2.38	0.80	0.50	0.20	2.57	0.04	0.25	6.01	0.10	0.17
HS grad, no college	9.42	1.19	2.05	0.76	0.46	0.25	3.58	0.07	0.28	5.57	0.15	0.21
Some college	9.21	1.24	1.94	0.92	0.58	0.23	4.25	0.22	0.29	4.76	0.19	0.18
BS or higher	8.94	1.41	1.77	0.91	0.71	0.18	4.72	0.22	0.37	4.33	0.22	0.23

^a Includes sleeping, bathing, dressing, health-related self-care, and personal and private activities.

^b Includes time spent eating or drinking (except when identified as part of work or volunteer activity); does not include time spent purchasing meals, snacks, or beverages.

^c Includes housework, cooking, yard care, pet care, vehicle maintenance and repair, home maintenance, repair, decoration, and renovation.

^d Includes purchase of consumer goods, professional (e.g., banking, legal, medical, real estate) and personal care services (e.g., hair salons, barbershops, day spas, tanning salons), household services (e.g., housecleaning, lawn care and landscaping, pet care, dry cleaning, vehicle maintenance, construction), and government services (e.g., applying for food stamps, government required licenses, or paying fines).

^e Includes time spent caring or helping to care for child or adult household member (e.g., physical care, playing with children, reading to child or adult, attending to health care needs, dropping off, picking up, or waiting for children).

^f Includes time spent caring or helping to care for child or adult who is not a household member (e.g., physical care, playing with children, reading to child or adult, attending to health care needs, dropping off, picking up or waiting for children). Does not include activities done through a volunteer organization.

^g Includes time spent as part of the job, income-generating activities, or job search activities. Also includes travel time for work-related activities.

^h Includes taking classes, doing research and homework, registering for classes, and before and after school extra-curricular activities, except sports.

ⁱ Includes time spent volunteering for or through civic obligations (e.g., jury duty, voting, attending town hall meetings), or through participating in religious or spiritual activities (e.g., church choir, youth groups, praying).

^j Includes sports, exercise, and recreation. This category is broken down into subcategories for the 15 to 19 years old age category.

^k Includes telephone use, mail, and e-mail. Does not include communications related to purchase of goods and services or those related to work or volunteering.

^l Includes residual activities that could not be coded or where information was missing.

Source: DOL (2007).

Table 16-100. Annual Average Time Use by the U.S. Civilian Population, Ages 15 Years and Older

Activity	hours/day				
	Total	Male	Female	Weekday	Weekend and Holiday
Personal Care ^a	9.41	9.21	9.59	9.12	10.08
sleeping	8.63	8.56	8.69	8.33	9.32
Eating and Drinking ^b	1.23	1.25	1.22	1.18	1.37
Household Activities ^c	1.79	1.33	2.23	1.66	2.11
housework	0.61	0.25	0.95	0.57	0.70
food preparation/cleanup	0.53	0.29	0.75	0.51	0.57
lawn and garden care	0.20	0.26	0.14	0.16	0.27
household management	0.13	0.11	0.14	0.12	0.15
Purchasing Goods and Services ^d	0.81	0.64	0.96	0.76	0.93
consumer goods purchase	0.40	0.29	0.51	0.34	0.53
professional/personal goods purchase	0.09	0.06	0.11	0.10	0.04
Caring for and Helping Household Members ^e	0.53	0.33	0.71	0.56	0.45
caring for household children	0.41	0.24	0.57	0.43	0.37
Caring for and Helping Non-Household Members ^f	0.21	0.18	0.24	0.19	0.26
caring for non-household adults	0.07	0.07	0.08	0.06	0.11
Working on Work-related Activities ^g	3.75	4.53	3.02	4.77	1.36
Working	3.40	4.10	2.74	4.33	1.23
Educational Activities ^h	0.49	0.45	0.53	0.63	0.16
attending classes	0.30	0.29	0.32	0.42	0.04
homework and research	0.15	0.12	0.17	0.16	0.10
Organizational Civic and Religious Activities ⁱ	0.30	0.29	0.31	0.20	0.53
religious and spiritual activities	0.12	0.11	0.13	0.04	0.30
volunteering (organizational and civic activities)	0.13	0.13	0.13	0.13	0.15
Leisure and Sports ^j	5.09	5.47	4.72	4.54	6.37
socializing and communicating	0.76	0.71	0.80	0.60	1.11
watching TV	2.58	2.80	2.36	2.35	3.10
sports, exercise, recreation	0.28	0.38	0.18	0.26	0.33
Telephone Calls, Mail, and E-mail ^k	0.19	0.12	0.26	0.20	0.17
Other Activities not Elsewhere Classified ^l	0.21	0.20	0.22	0.20	0.22

^a Includes sleeping, bathing, dressing, health-related self-care, and personal and private activities.
^b Includes time spent eating or drinking (except when identified as part of work or volunteer activity); does not include time spent purchasing meals, snacks, or beverages.
^c Includes housework, cooking, yard care, pet care, vehicle maintenance and repair, home maintenance, repair, decoration, and renovation.
^d Includes purchase of consumer goods, professional (e.g., banking, legal, medical, real estate) and personal care services (e.g., hair salons, barbershops, day spas, tanning salons), household services (e.g., housecleaning, lawn care and landscaping, pet care, dry cleaning, vehicle maintenance, construction), and government services (e.g., applying for food stamps, government required licenses or paying fines).
^e Includes time spent caring or helping to care for child or adult household member (e.g., physical care, playing with children, reading to child or adult, attending to health care needs, dropping off, picking up or waiting for children).
^f Includes time spent caring or helping to care for child or adult who is not a household member (e.g., physical care, playing with children, reading to child or adult, attending to health care needs, dropping off, picking up or waiting for children). Does not include activities done through a volunteer organization.
^g Includes time spent as part of the job, income-generating activities, or job search activities. Also includes travel time for work-related activities.
^h Includes taking classes, doing research and homework, registering for classes, and before and after school extra-curricular activities, except sports.
ⁱ Includes time spent volunteering for or through civic obligations (e.g., jury duty, voting, attending town hall meetings), or through participating in religious or spiritual activities (e.g., church choir, youth groups, praying).
^j Includes sports, exercise, and recreation. This category is broken down into subcategories for the 15 to 19 years old age category.
^k Includes telephone use, mail and e-mail. Does not include communications related to purchase of goods and services or those related to work or volunteering.
^l Includes residual activities that could not be coded or where information was missing.

Source: DOL (2007).

Table 16-101. Mean Time Use (hours/day) by Children, Ages 15 to 19 Years

Activity	hours/day		
	Male	Female	All
Personal Care ^a	10.26	10.34	10.30
Eating and Drinking ^b	1.02	1.11	1.07
Household Activities ^c	0.61	0.92	0.76
Purchasing Goods and Services ^d	0.38	0.74	0.56
Caring for and Helping Household Members ^e	0.10	0.19	0.15
Caring for and Helping Non-Household Members ^f	0.20	0.23	0.21
Working on Work-related Activities ^g	1.53	1.24	1.39
Educational Activities ^h	3.08	3.51	3.29
Organizational Civic and Religious Activities ⁱ	0.34	0.33	0.34
Leisure and Sports ^j	6.02	4.75	5.40
total leisure and sports – weekdays	-	-	4.85
total leisure and sports – weekends	-	-	6.68
sports, exercise, recreation – weekdays	-	-	0.58
sports, exercise, recreation – weekends/holidays	-	-	0.69
socializing and communicating – weekdays	-	-	0.76
socializing and communicating, – weekends/holidays	-	-	1.32
watching TV – weekdays	-	-	1.96
watching TV – weekends/holidays	-	-	2.45
reading – weekdays	-	-	0.11
reading – weekends/holidays	-	-	0.11
relaxing, thinking – weekdays	-	-	0.15
relaxing, thinking – weekends/holidays	-	-	0.13
playing games, computer use for leisure – weekdays	-	-	0.69
playing games, computer use for leisure – weekends/holidays	-	-	1.00
other sports/leisure including travel – weekdays	-	-	0.61
other sports/leisure including travel – weekends/holidays	-	-	0.98
Telephone Calls, Mail, and E-mail ^k	0.24	0.42	0.33
Other Activities not Elsewhere Classified ^l	0.23	0.21	0.22
^a	Includes sleeping, bathing, dressing, health-related self-care, and personal and private activities.		
^b	Includes time spent eating or drinking (except when identified as part of work or volunteer activity); does not include time spent purchasing meals, snacks, or beverages.		
^c	Includes housework, cooking, yard care, pet care, vehicle maintenance and repair, home maintenance, repair, decoration, and renovation.		
^d	Includes purchase of consumer goods, professional (e.g., banking, legal, medical, real estate) and personal care services (e.g., hair salons, barbershops, day spas, tanning salons), household services (e.g., housecleaning, lawn care and landscaping, pet care, dry cleaning, vehicle maintenance, construction), and government services (e.g., applying for food stamps, government required licenses or paying fines).		
^e	Includes time spent caring or helping to care for child or adult household member (e.g., physical care, playing with children, reading to child or adult, attending to health care needs, dropping off, picking up or waiting for children).		
^f	Includes time spent caring or helping to care for child or adult who is not a household member (e.g., physical care, playing with children, reading to child or adult, attending to health care needs, dropping off, picking up or waiting for children). Does not include activities done through a volunteer organization.		
^g	Includes time spent as part of the job, income-generating activities, or job search activities. Also includes travel time for work-related activities.		
^h	Includes taking classes, doing research and homework, registering for classes, and before and after school extra-curricular activities, except sports.		
ⁱ	Includes time spent volunteering for or through civic obligations (e.g., jury duty, voting, attending town hall meetings), or through participating in religious or spiritual activities (e.g., church choir, youth groups, praying).		
^j	Includes sports, exercise, and recreation. This category is broken down into subcategories for the 15 to 19 years old age category.		
^k	Includes telephone use, mail and e-mail. Does not include communications related to purchase of goods and services or those related to work or volunteering.		
^l	Includes residual activities that could not be coded or where information was missing.		

Source: DOL (2007).

**Table 16-102. Mean Time Spent (minutes/day) in Moderate to Vigorous Physical Activity
(children only)**

Age (years)	Number of Participants		Weekday Mean (SD)			Weekend Mean (SD)		
	Boys	Girls	Boys	Girls	Both	Boys	Girls	Both
9	555	543	190.8(53.2)	173.3(46.6)	181.8(50.6)	184.3(68.6)	173.3(64.3)	178.6(66.6)
11	544	540	133.0(42.9)	115.6(36.3)	124.1(40.6)	127.1(59.5)	112.6(53.2)	119.7(56.8)
12	532	532	105.3(40.2)	86.0(32.5)	95.6(37.8)	93.4(55.3)	73.9(45.8)	83.6(51.7)
15	503	506	58.2(31.8)	38.7(23.6)	49.2(29.9)	43.2(38.0)	25.5(23.3)	35.1(33.3)

SD = Standard deviation.

Source: Nader et al. (2008).

Table 16-103. Occupational Tenure of Employed Individuals^a by Age and Sex

Age Group (years)	Median Tenure (years)					
	N	All Workers	N	Men	N	Women
16 to 24	19,090	1.9	9,520	2.0	9,270	1.9
25 to 29	16,326	4.4	8,974	4.6	7,353	4.1
30 to 34	15,833	6.9	8,971	7.6	6,863	6.0
35 to 39	14,674	9.0	8,109	10.4	6,565	7.0
40 to 44	11,871	10.7	6,463	13.8	5,408	8.0
45 to 49	9,350	13.3	5,208	17.5	4,152	10.0
50 to 54	7,684	15.2	4,341	20.0	3,343	10.8
55 to 59	6,914	17.7	4,006	21.9	2,908	12.4
60 to 64	4,500	19.4	2,673	23.9	1,827	14.5
65 to 69	1,692	20.1	1,000	26.9	692	15.6
70 and older	1,146	21.9	678	30.5	467	18.8
Total	109,090	6.6	60,242	7.9	41,949	5.4

^a Working population = 109.1 million persons.
N = Number of individuals.

Source: Carey (1988).

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Race	Median Tenure (years)					
	All Individuals		Men		Women	
	N		N		N	
White	95,044	6.7	53,096	8.3	41,949	5.4
Black	10,851	5.8	5,447	5.8	5,404	5.8
Hispanic	7,198	4.5	4,408	5.1	2,790	3.7

^a Working population = 109.1 million persons.
N = Number of individuals.

Source: Carey (1988).

Employment Status	Median Tenure (years)					
	All Individuals		Men		Women	
	N		N		N	
Full-Time	93,665	7.2	55,464	8.4	38,201	5.9
Part-Time	15,425	3.1	4,778	2.4	10,647	3.6

^a Working population = 109.1 million persons.
N = Number of individuals.

Source: Carey (1988).

Occupational Group	Total ^b	Median Tenure (years)					
		Age Group (years)					
		16–24	25–34	35–44	45–54	55–64	65+
Executive, Administrative, and Managerial	8.4	2.4	5.6	10.1	15.1	17.9	26.3
Professional Specialty	9.6	2.0	5.7	12.0	18.2	25.6	36.2
Technicians and Related Support	6.9	2.2	5.7	10.9	17.7	20.8	22.2
Sales Occupations	5.1	1.7	4.7	7.7	10.5	15.5	21.6
Administrative Support, including Clerical	5.4	2.1	5.0	7.6	10.9	14.6	15.4
Service Occupations	4.1	1.7	4.4	6.9	9.0	10.6	10.4
Precision Production, Craft, and Repair	9.3	2.6	7.1	13.5	19.9	25.7	30.1
Operators, Fabricators, and Laborers	5.5	1.7	4.6	9.1	13.7	18.1	14.7
Farming, Forestry, and Fishing	10.4	2.9	7.9	13.5	20.7	30.5	39.8

^a Working population = 109.1 million persons.
^b Includes all workers 16 years and older.

Source: Carey (1988).

Table 16-107. Voluntary Occupational Mobility Rates for Workers^a Age 16 Years and Older

Age Group (years)	Occupational Mobility Rate ^b (percent)
16 to 24	12.7
25 to 34	6.6
35 to 44	4.0
45 to 54	1.9
55 to 64	1.0
64 and older	0.3
Total, age 16 and older	5.3

^a Working population = 100.1 million persons.

^b Occupational mobility rate = percentage of persons employed in an occupation who had voluntarily entered it from another occupation.

Source: Carey (1990).

Table 16-108. Descriptive Statistics for Residential Occupancy Period (years)

	N	Mean	Percentiles												2 nd Largest Value	Max.
			5 th	10 th	25 th	50 th	75 th	90 th	95 th	98 th	99 th	99.5 th	99.8 th	99.9 th		
Both sexes	500,000	11.7	2	2	3	9	16	26	33	41	47	51	55	59	75	87
Male only	244,274	11.1	2	2	4	8	15	24	31	39	44	48	53	56	73	73
Female only	255,726	12.3	2	2	5	9	17	28	35	43	49	53	58	61	75	87

N = Number of simulated persons.

Source: Johnson and Capel (1992).

Table 16-109. Descriptive Statistics for Both Sexes by Current Age

Current Age, Years	Residential Occupancy Period (years)						
	Mean	Percentiles					
		25	50	75	90	95	99
3	6.5	3	5	8	13	17	22
6	8.0	4	7	10	15	18	22
9	8.9	5	8	12	16	18	22
12	9.3	5	9	13	16	18	23
15	9.1	5	8	12	16	18	23
18	8.2	4	7	11	16	19	23
21	6.0	2	4	8	13	17	23
24	5.2	2	4	6	11	15	25
27	6.0	3	5	8	12	16	27
30	7.3	3	6	9	14	19	32
33	8.7	4	7	11	17	23	39
36	10.4	5	8	13	21	28	47
39	12.0	5	9	15	24	31	48
42	13.5	6	11	18	27	35	49
45	15.3	7	13	20	31	38	52
48	16.6	8	14	22	32	39	52
51	17.4	9	15	24	33	39	50
54	18.3	9	16	25	34	40	50
57	19.1	10	17	26	35	41	51
60	19.7	11	18	27	35	40	51
63	20.2	11	19	27	36	41	51
66	20.7	12	20	28	36	41	50
69	21.2	12	20	29	37	42	50
72	21.6	13	20	29	37	43	53
75	21.5	13	20	29	38	43	53
78	21.4	12	19	29	38	44	53
81	21.2	11	20	29	39	45	55
84	20.3	11	19	28	37	44	56
87	20.6	10	18	29	39	46	57
90	18.9	8	15	27	40	47	56
All ages	11.7	4	9	16	26	33	47

Source: Johnson and Capel (1992).

Year Household Moved Into Unit	Total Occupied Units (number in thousands)
2005–2009	33,543
2000–2004	28,695
1995–1999	15,120
1990–1994	9,631
1985–1989	6,459
1980–1984	3,703
1975–1979	4,412
1970–1974	2,979
1960–1969	3,661
1950–1959	1,892
1940–1949	460
1939 or earlier	137
	Total 110,692

Source: U.S. Census Bureau (2008a).

Years Lived in Current Home		Percent of Total Households			
	0–4	30.3			
	5–9	25.9			
	10–14	13.7			
	15–19	8.7			
	20–24	5.8			
	25–29	3.3			
	30–34	4.0			
	35–44	2.7			
	45–54	3.3			
	55–64	1.7			
	65–74	0.4			
	>75	0.1			
		Total ^a 99.9			
Statistics for Years Lived in Current Home					
<i>N</i>	Mean ^b	50 th Percentile ^b	90 th Percentile ^b	95 th Percentile ^b	99 th Percentile ^b
110,692	13	8	32	46	62
^a	Total does not equal 100 due to rounding errors.				
^b	The mean, 50 th and 90 th percentiles were calculated for the number of years lived in current house by apportioning the total sample size (110,692 households) to the indicated percentile associated with the applicable range of years lived in the current home, assuming an even distribution.				

Source: Adapted from U.S. Census Bureau (2008a).

Table 16-112. Values and Their Standard Errors for Average Total Residence Time, T , for Each Group in Survey^a

Households	Average Total Residence Time T (years)	SD S_T	Average Current Residence T_{CR} (years)	Households (percent)	
				1985	1987
All households	4.55 ± 0.60	8.68	10.56 ± 0.10	100.0	100.0
Renters	2.35 ± 0.14	4.02	4.62 ± 0.08	36.5	36.0
Owners	11.36 ± 3.87	13.72	13.96 ± 0.12	63.5	64.0
Farms	17.31 ± 13.81	18.69	18.75 ± 0.38	2.1	1.9
Urban	4.19 ± 0.53	8.17	10.07 ± 0.10	74.9	74.5
Rural	7.80 ± 1.17	11.28	12.06 ± 0.23	25.1	25.5
Northeast region	7.37 ± 0.88	11.48	12.64 ± 0.12	21.2	20.9
Midwest region	5.11 ± 0.68	9.37	11.15 ± 0.10	25.0	24.5
South region	3.96 ± 0.47	8.03	10.12 ± 0.08	34.0	34.4
West region	3.49 ± 0.57	6.84	8.44 ± 0.11	19.8	20.2

^a Values of the average current residence time, T_{CR} , are given for comparison.

Source: Israeli and Nelson (1992).

Table 16-113. Total Residence Time, T (years), Corresponding to Selected Values of $R(t)$ ^a by Housing Category

$R(t) =$	0.05	0.1	0.25	0.5	0.75
All households	23.1	12.9	3.7	1.4	0.5
Renters	8.0	5.2	2.6	1.2	0.5
Owners	41.4	32.0	17.1	5.2	1.4
Farms	58.4	48.3	26.7	10.0	2.4
Urban	21.7	10.9	3.4	1.4	0.5
Rural	32.3	21.7	9.1	3.3	1.2
Northeast region	34.4	22.3	7.5	2.8	1.0
Midwest region	25.7	15.0	4.3	1.6	0.6
South region	20.7	10.8	3.0	1.2	0.4
West region	17.1	8.9	2.9	1.2	0.4

^a $R(t)$ = fraction of households living in the same residence for T years or more.

Source: Israeli and Nelson (1992).

Table 16-114. Summary of Residence Time of Recent Home Buyers (1993)	
Number of Years Lived in Previous House	Percent of Respondents
1 year or less	2
2-3	16
4-7	40
8-9	10
10 years or more	32

Source: NAR (1993).

Table 16-115. Tenure in Previous Home (percentage distribution)				
	1987	1989	1991	1993
	Percent			
1 year or less	5	8	4	2
2-3 Years	25	15	21	16
4-7 Years	36	22	37	40
8-9 Years	10	11	9	10
10 or More Years	24	34	29	32
Total	100	100	100	100
	Years			
Median	6	6	6	6

Source: NAR (1993).

Table 16-116. Number of Miles Moved (percentage distribution)					
	All Buyers	First-Time Buyer	Repeat Buyer	New Home Buyer	Existing Home Buyer
Mile	Percent				
Less than 5 miles	29	33	27	23	31
5-9 miles	20	25	16	18	20
10-19 miles	18	20	17	20	17
20-34 miles	9	11	8	12	9
35-50 miles	2	2	2	2	3
51-100 miles	5	2	6	6	4
Over 100 miles	17	6	24	19	16
Total	100	100	100	100	100
	Miles				
Median	9	8	11	11	8
Mean	200	110	270	230	190

Source: NAR (1993).

Table 16-117. General Mobility, by Race and Hispanic Origin, Region, Sex, Age, Educational Attainment, Marital Status, Nativity, Tenure, and Poverty Level: 2006–2007 (numbers in thousands)

	Total		Mover		Same County		Different County, Same State		Different State, Same Division		Different Division, Same Region		Different Region		Abroad		
	<i>N</i>	<i>N</i>	% (of total)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)
Population																	
Total 1+ years	292,749	38,681	13%	25,192	65%	7,436	19%	1,446	4%	968	3%	2,448	6%	1,191	3%		
Sex																	
Male	143,589	19,457	14%	12,579	65%	3,693	19%	771	4%	505	3%	1,220	6%	689	4%		
Female	149,160	19,224	13%	12,613	66%	3,743	19%	675	4%	463	2%	1,228	6%	502	3%		
Age (years)																	
1 to 4 years	16,455	3,217	20%	2,188	68%	577	18%	117	4%	81	3%	184	6%	72	2%		
5 to 9 years	19,830	3,161	16%	2,092	66%	614	19%	121	4%	73	2%	179	6%	81	3%		
10 to 14 years	20,444	2,517	12%	1,735	69%	441	18%	92	4%	62	2%	139	6%	47	2%		
15 to 17 years	13,297	1,465	11%	1,057	72%	224	15%	50	3%	22	2%	75	5%	37	3%		
18 to 19 years	7,873	1,330	17%	898	68%	252	19%	40	3%	25	2%	68	5%	47	4%		
20 to 24 years	20,532	5,516	27%	3,623	66%	1,069	19%	168	3%	157	3%	320	6%	179	3%		
25 to 29 years	20,666	5,316	26%	3,335	63%	1,061	20%	219	4%	136	3%	339	6%	226	4%		
30 to 34 years	19,202	3,767	20%	2,374	63%	789	21%	140	4%	106	3%	221	6%	137	4%		
35 to 39 years	20,907	2,962	14%	1,877	63%	587	20%	104	4%	84	3%	187	6%	121	4%		
40 to 44 years	21,856	2,456	11%	1,567	64%	480	20%	102	4%	60	2%	178	7%	68	3%		
45 to 49 years	22,643	1,963	9%	1,362	69%	304	15%	74	4%	42	2%	131	7%	49	2%		
50 to 54 years	20,819	1,612	8%	1,119	69%	292	18%	55	3%	42	3%	76	5%	27	2%		
55 to 59 years	18,221	1,171	6%	706	60%	258	22%	57	5%	37	3%	86	7%	27	2%		
60 to 61 years	6,093	381	6%	212	56%	82	22%	30	8%	9	2%	39	10%	10	3%		
62 to 64 years	7,877	386	5%	201	52%	98	25%	19	5%	1	0%	49	13%	18	5%		
65 to 69 years	10,629	496	5%	286	58%	110	22%	16	3%	5	1%	63	13%	16	3%		
70 to 74 years	8,369	357	4%	179	50%	79	22%	24	7%	17	5%	43	12%	15	4%		
75 to 79 years	7,567	233	3%	153	66%	41	18%	4	2%	6	3%	21	9%	7	3%		
80 to 84 years	5,513	219	4%	121	55%	53	24%	10	5%	4	2%	26	12%	5	2%		
85+ years	3,958	159	4%	108	68%	24	15%	2	1%	-	-	22	14%	3	2%		
Educational Attainment																	
Not a high school graduate	27,742	3,458	12%	2,431	70%	575	17%	103	3%	33	1%	137	4%	178	5%		
High school graduate	61,490	6,435	10%	4,398	68%	1,207	19%	221	3%	145	2%	353	5%	112	2%		
Some college or AA degree	49,243	5,534	11%	3,475	63%	1,167	21%	206	4%	145	3%	411	7%	130	2%		
Bachelor's degree	36,658	4,062	11%	2,290	56%	910	22%	231	6%	124	3%	336	8%	172	4%		
Prof or graduate degree	19,184	1,985	10%	1,004	51%	399	20%	97	5%	102	5%	246	12%	137	7%		
Persons age 1 to 24	98,431	17,205	17%	11,593	67%	3,177	18%	589	3%	419	2%	965	6%	462	3%		

Table 16-117. General Mobility, by Race and Hispanic Origin, Region, Sex, Age, Educational Attainment, Marital Status, Nativity, Tenure, and Poverty Level: 2006–2007 (numbers in thousands) (continued)

	Total		Mover		Same County		Different County, Same State		Different State, Same Division		Different Division, Same Region		Different Region		Abroad	
	<i>N</i>	<i>N</i>	% (of total)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)	<i>N</i>	% (of movers)	<i>N</i>
Population																
Marital Status																
Married, spouse present	121,390	10,671	9%	6,434	60%	2,220	21%	502	5%	338	3%	808	8%	369	3%	
Married, spouse absent	3,472	805	23%	501	62%	90	11%	31	4%	11	1%	73	9%	98	12%	
Widowed	13,920	802	6%	533	66%	136	17%	34	4%	8	1%	68	8%	22	3%	
Divorced	22,867	3,483	15%	2,369	68%	702	20%	93	3%	69	2%	200	6%	50	1%	
Separated	5,047	1,246	25%	911	73%	213	17%	29	2%	16	1%	57	5%	19	2%	
Never married	69,324	12,779	18%	8,429	66%	2,442	19%	427	3%	310	2%	739	6%	433	3%	
Persons age 1 to 14	56,730	8,895	16%	6,015	68%	1,632	18%	330	4%	216	2%	502	6%	200	2%	
Nativity																
Native	255,501	33,023	13%	21,603	65%	6,671	20%	1,279	4%	904	3%	2,180	7%	387	1%	
Foreign born	37,248	5,658	15%	3,589	63%	765	14%	167	3%	64	1%	268	5%	804	14%	
Naturalized US citizen	14,525	1,161	8%	768	66%	212	18%	41	4%	31	3%	76	7%	31	3%	
Not a US citizen	22,723	4,497	20%	2,821	63%	553	12%	126	3%	33	1%	192	4%	772	17%	
Tenure																
Owner-occupied housing unit	207,774	13,760	7%	8,467	62%	2,881	21%	595	4%	408	3%	1,027	7%	381	3%	
Renter-occupied housing unit	81,351	24,228	30%	16,353	67%	4,374	18%	806	3%	547	2%	1,371	6%	776	3%	
No cash renter-occupied housing unit	3,624	694	19%	372	54%	181	26%	45	6%	13	2%	49	7%	33	5%	
Poverty Status																
Below 100% of poverty	35,924	8,777	24%	6,041	69%	1,484	17%	270	3%	166	2%	392	4%	423	5%	
100% to 149% of poverty	26,183	4,705	18%	3,312	70%	832	18%	128	3%	84	2%	215	5%	136	3%	
150% of poverty and above	230,642	25,199	11%	15,839	63%	5,120	20%	1,048	4%	718	3%	1,841	7%	632	3%	
- Represents 0 or rounds to 0.																
<i>N</i> = Number of respondents.																
Source: U.S. Census Bureau (2008b).																

Table 16-118. Distance of Intercounty Move^a, by Sex, Age, Race and Hispanic Origin, Educational Attainment, Marital Status, Nativity, Tenure, Poverty Status, Reason for Move, and State of Residence 1 Year Ago: 2006 to 2007 (numbers in thousands)									
	Total	Less than 50 miles		50 to 199 miles		200 to 499 miles		500 miles or more	
	<i>N</i>	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%
Population									
Intercounty Movers 1+ years	12,299	5,149	42%	2,582	21%	1,802	15%	2,765	22%
Sex									
Male	6,190	2,554	41%	1,324	21%	894	14%	1,418	23%
Female	6,109	2,595	42%	1,258	21%	909	15%	1,347	22%
Age									
Under 16 years	2,809	1,230	44%	520	19%	455	16%	603	21%
16 to 19 years	629	279	44%	148	24%	82	13%	120	19%
20 to 24 years	1,714	720	42%	436	25%	185	11%	373	22%
25 to 29 years	1,755	792	45%	347	20%	215	12%	400	23%
30 to 44 years	3,040	1,295	43%	618	20%	458	15%	669	22%
45 to 64 years	1,782	633	36%	408	23%	312	18%	429	24%
65 to 74 years	357	128	36%	68	19%	66	18%	95	27%
75+ years	213	71	33%	37	17%	30	14%	76	36%
Race and Hispanic Origin									
White alone	9,730	4,049	42%	2,064	21%	1,382	14%	2,234	23%
Black or African American alone	1,626	729	45%	285	18%	320	20%	293	18%
Asian alone	515	205	40%	120	23%	51	10%	138	27%
All remaining single races and all race combinations ^b	427	166	39%	113	26%	49	11%	99	23%
White alone, not Hispanic or Latino	8,290	3,527	43%	1,697	20%	1,156	14%	1,910	23%
Hispanic or Latino ^c	1,575	578	37%	401	25%	232	15%	364	23%
White alone or in combination with 1 or more other races	9,986	4,161	42%	2,130	21%	1,405	14%	2,290	23%
Black or African American alone or in combination with 1 or more other races	1,733	777	45%	312	18%	329	19%	315	18%
Asian alone or in combination with 1 or more other races	573	223	39%	146	25%	59	10%	144	25%

Table 16-118. Distance of Intercounty Move^a, by Sex, Age, Race and Hispanic Origin, Educational Attainment, Marital Status, Nativity, Tenure, Poverty Status, Reason for Move, and State of Residence 1 Year Ago: 2006 to 2007 (numbers in thousands)
(continued)

	Total	Less than 50 miles	50 to 199 miles	200 to 499 miles	500 miles or more				
Population	<i>N</i>	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%
Educational Attainment									
Not a high school graduate	848	390	46%	197	23%	126	15%	135	16%
High school graduate	1,926	776	40%	414	21%	351	18%	385	20%
Some college or AA degree	1,929	836	43%	376	19%	254	13%	463	24%
Bachelor's degree	1,601	651	41%	340	21%	210	13%	400	25%
Prof. or graduate degree	844	268	32%	151	18%	140	17%	286	34%
Persons age 1 to 24	5,151	2,229	43%	1,104	21%	721	14%	1,096	21%
Marital Status									
Married, spouse present	3,868	1,500	39%	834	22%	560	14%	975	25%
Married, spouse absent	206	57	28%	44	21%	31	15%	74	36%
Widowed	246	78	32%	60	24%	45	18%	63	26%
Divorced	1,065	493	46%	221	21%	158	15%	193	18%
Separated	316	146	46%	57	18%	66	21%	47	15%
Never married	3,917	1,691	43%	867	22%	517	13%	843	22%
Persons age 1 to 14	2,680	1,184	44%	500	19%	426	16%	570	21%
Nativity									
Native	11,034	4,627	42%	2,299	21%	1,646	15%	2,462	22%
Foreign born	1,265	523	41%	283	22%	156	12%	303	24%
Naturalized U.S. citizen	361	156	43%	63	17%	45	12%	96	27%
Not a US citizen	904	367	41%	220	24%	111	12%	206	23%
Tenure									
Owner-occupied housing unit	4,912	2,083	42%	950	19%	742	15%	1,137	23%
Renter-occupied housing unit	7,099	2,962	42%	1,554	22%	1,019	14%	1,564	22%
No cash renter-occupied housing unit	288	104	36%	78	27%	41	14%	64	22%
Poverty Status									
Below 100% of poverty	2,313	967	42%	576	25%	353	15%	417	18%
100% to 149% of poverty	1,258	625	50%	245	19%	176	14%	212	17%
150% of poverty and above	8,728	3,558	41%	1,761	20%	1,274	15%	2,136	24%

Table 16-118. Distance of Intercounty Move^a, by Sex, Age, Race and Hispanic Origin, Educational Attainment, Marital Status, Nativity, Tenure, Poverty Status, Reason for Move, and State of Residence 1 Year Ago: 2006 to 2007 (continued) (numbers in thousands)									
	Total	Less than 50 miles		50 to 199 miles		200 to 499 miles		500 miles or more	
Population	<i>N</i>	<i>N</i>	%	<i>N</i>	%	<i>N</i>	<i>N</i>	%	<i>N</i>
State of Residence 1 Year Ago									
Same state	7,436	4,741	64%	2,059	28%	627	8%	9	0%
Different state	4,862	408	8%	524	11%	1,175	24%	2,756	57%
^a	The estimated distance in miles of an intercounty move is measured from the county of previous residence's geographic population centroid to the county of current residence's geographic population centroid.								
^b	Includes American Indian and Alaska Native alone, Native Hawaiian and Other Pacific Islander alone, and 2 or More Races.								
^c	Hispanics or Latinos may be of any race.								
Source: U.S. Census Bureau (2008b).									