

APPENDIX B

STANDARD TABLES AND LOGIC

This appendix contains the commonly-requested tables listed below. For each cell, the table contains the sample size (unweighted number of cases), weighted size, and the standard error of the weighted estimate. Standard errors are more important when sample sizes are smaller. The cells of the tables show the standard errors for subsets of the data. The tables are followed by the logic, in the form of table statements, used to produce them.

Table 1 - Number of Households by Household Income and Household Vehicles

Table 2 - Number of Household Vehicles by Vehicle Age and Type

Table 3 - Number of Persons 5 Years and Older in Households, by Age and Sex

Table 4 - Number of Drivers by Annual Miles Category, Age and Sex

Table 5 - Number of Workers by Work Trip Time and MSA Size

Table 6 - Number of Travel Day Person Trips by Mode and Purpose

Table 7 - Average Number of Travel Day Trips per Person by Age and Sex
(NOTE: The rates in this table are per travelling person. Persons who made no travel day trips are excluded from the rates shown here.)

Table 8 - Number of Travel Day Person Miles Travelled by Mode and Purpose

Table 9 - Number of Travel Day Vehicle Trips by Trip Length Category and Purpose

Table 10 - Number of Travel Day Vehicle Miles of Travel by Trip Length Category and Purpose

Table 11 - Number of Travel Period Person Trips by Mode and Purpose

Table 12 - Average Vehicle Occupancy by Trip Length and Purpose
 (NOTE: The rates in this table are computed as POV person trips divided by vehicle trips. A different rate will be obtained if POV person miles are divided by vehicle miles of travel.)

Appendix B Notes

There are some differences between the totals shown in Appendix A, pages A-6 and A-7, and those shown in the Appendix B tables. The reason for the differences in Workers and Drivers is that legitimate skip responses were excluded because they add nothing to the understanding of the data in the Appendix B tables and they result in extraneous records being included in the table totals.

The specific differences and the reasons for them are shown below.

Variable	Appendix A #	Appendix B #	Reason
Drivers	n= 69,990 wgt= 176,798,290	n= 69,876 wgt= 176,330,410	Appendix A uses all records where DRIVER=01 Appendix B uses DRIVER=01 and YEARMILE not equal 999994 (legitimate skip)
Workers	n= 51,928 wgt= 131,697,367	n= 46,679 wgt= 117,746,380	Appendix A uses all workers (WORKER=01) Appendix B table presents workers by travel time and MSA size, and excludes 5,249 workers for whom travel time was legitimately skipped (TIMETOWK=994) for reasons including work from home and or no fixed place of work
Vehicle Trips	n= 250,181 wgt = 229,745,329,785	n= 250,173 wgt= 229,737,860,000	the Appendix B totals inadvertently omitted 8 trips because their trip distance fell between the categories as defined in the table code, e.g., a trip of 5.2 miles was not included in the <=5 category
VMT	wgt= 2,068,368,000,000	wgt= 2,068,326,640,000	this difference is the result of the 8 trips inadvertently omitted from the Appendix B table

Variance Estimation Method: Taylor Series (WR)
 Standard Table 1: Number of Households, by Family Income and Household Vehicles
 by: Household Income, Number of Household Vehicles.

Household Income		Number of Household Vehicles					
		Total	None	One	Two	Three	Four or more
Total	Sample Size	42033	3343	12678	18277	5716	2019
	Weighted Size (1000's)	98990.00	7988.70	32064.11	40023.57	13862.48	5051.14
	SE Weighted (1000's)	330.31	213.28	400.08	370.38	252.75	158.72
Under \$10,000	Sample Size	2997	1080	1427	402	68	20
	Weighted Size (1000's)	8410.04	2944.29	3939.32	1207.30	225.77	93.36
	SE Weighted (1000's)	228.65	140.34	160.01	83.38	38.53	25.82
\$10,000 to \$24,999	Sample Size	7770	907	3967	2248	507	141
	Weighted Size (1000's)	19906.54	2255.86	10331.59	5561.07	1379.51	378.52
	SE Weighted (1000's)	321.48	119.02	253.35	168.65	81.98	44.59
\$25,000 to \$49,999	Sample Size	13499	473	3946	6615	1882	583
	Weighted Size (1000's)	31832.91	888.68	9953.43	14713.23	4817.60	1459.97
	SE Weighted (1000's)	371.46	62.30	246.09	267.59	161.96	85.37
\$50,000 to \$99,999	Sample Size	8689	132	1087	5081	1751	638
	Weighted Size (1000's)	18271.86	171.55	2475.46	10173.76	3919.56	1531.53
	SE Weighted (1000's)	281.32	22.45	118.58	218.11	136.11	90.86
\$100,000 and over	Sample Size	1855	43	168	1016	433	195
	Weighted Size (1000's)	4018.82	47.82	409.96	2088.13	1022.30	450.61
	SE Weighted (1000's)	139.63	10.26	48.09	100.55	73.70	45.38

Variance Estimation Method: Taylor Series (WR)
 Standard Table 1: Number of Households, by Family Income and Household Vehicles
 by: Household Income, Number of Household Vehicles.

Household Income		Number of Household Vehicles					
		Total	None	One	Two	Three	Four or more
Not determined	Sample Size	7223	708	2083	2915	1075	442
	Weighted Size (1000's)	16549.82	1680.49	4954.34	6280.09	2497.75	1137.15
	SE Weighted (1000's)	284.10	98.54	173.35	176.79	112.20	78.07

```

/* -----
   This program produces the Standard Table 1 for US
  ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\sas";

options ls=150 ps=60;

/** format procedure ***/
proc format;
  value faminc
    1 = 'Under $10,000'
    2 = '$10,000 to $24,999'
    3 = '$25,000 to $49,999'
    4 = '$50,000 to $99,999'
    5 = '$100,000 and over'
    6 = 'Not determined'
  ;
  value vehcat
    1 = 'None'
    2 = 'One'
    3 = 'Two'
    4 = 'Three'
    5 = 'Four or more'
  ;
run;

/***** Extract data from the main HHOLD95 data set *****/
data sasdata.us_std1;
  set all.hhhold95 (keep=houseid hhvehcnt hhfaminc
    wthhfin varstrat substrat);

  if hhfaminc in ('01','02') then faminc = 1;
  else if hhfaminc in ('03','04','05') then faminc = 2;
  else if hhfaminc in ('06','07','08','09','10') then faminc = 3;
  else if hhfaminc in ('11','12','13','14','15','16','17') then faminc = 4;
  else if hhfaminc in ('18') then faminc = 5;
  else if hhfaminc in ('98','99') then faminc = 6;

  if hhvehcnt < 4 then vehcat = hhvehcnt + 1;
  else if hhvehcnt >= 4 then vehcat = 5;

label faminc = 'Household Income';
label vehcat = 'Number of Household Vehicles';
run ;

proc sort;
  by varstrat substrat houseid;
run;

/** Call SUDAAN crosstab procedure to produce the table ***/
proc crosstab data=sasdata.us_std1 design=wr;
  nest varstrat substrat houseid/strlev=2 missunit;
  weight wthhfin;

  subgroup faminc vehcat;
  levels 6 5;
  tables faminc*vehcat;
  setenv labwidth=12;
  print nsum wsum sewgt/wsumunt=3 sewgtunt=3;
  rtitle "Standard Table 1: Number of Households, by Family Income and Household Vehicles";
  rformat vehcat vehcat. ;
  rformat faminc faminc. ;
run;

```


Variance Estimation Method: Taylor Series (WR)
 Standard Table 2: Number of Household Vehicles, by Vehicle Age and Type
 by: Vehicle Type, Vehicle Age in Years.

Vehicle Type		Vehicle Age in Years					Not Determined
		Total	0 to 2	3 to 5	6 to 9	10 or more	
Total	Sample Size	75217	17823	15260	21752	17813	2569
	Weighted Size (1000's)	176066.66	40347.64	34963.74	47908.53	46724.36	6122.39
	SE Weighted (1000's)	827.67	462.54	428.24	480.77	566.14	222.20
Automobile	Sample Size	49409	11032	10489	15165	11446	1277
	Weighted Size (1000's)	113284.29	24660.51	23327.35	32943.39	29436.15	2916.89
	SE Weighted (1000's)	658.92	359.32	349.63	396.02	432.03	143.52
Van	Sample Size	6026	2057	1422	1544	867	136
	Weighted Size (1000's)	13810.10	4310.15	3323.57	3491.32	2332.21	352.85
	SE Weighted (1000's)	272.11	148.53	132.72	140.24	121.31	49.28
Sport Utility	Sample Size	5414	1947	1128	1336	890	113
	Weighted Size (1000's)	12154.71	4304.69	2560.42	2810.72	2215.86	263.02
	SE Weighted (1000's)	257.38	151.20	117.35	122.59	110.67	36.08
Pickup	Sample Size	12001	2523	2030	3318	3760	370
	Weighted Size (1000's)	31110.10	6459.39	5299.31	7721.34	10644.66	985.40
	SE Weighted (1000's)	403.08	191.31	169.06	201.66	245.38	77.59

Variance Estimation Method: Taylor Series (WR)
 Standard Table 2: Number of Household Vehicles, by Vehicle Age and Type
 by: Vehicle Type, Vehicle Age in Years.

Vehicle Type		Vehicle Age in Years					
		Total	0 to 2	3 to 5	6 to 9	10 or more	Not Determined
Other truck	Sample Size	274	30	25	43	153	23
	Weighted Size (1000's)	695.83	56.16	82.07	100.74	412.68	44.18
	SE Weighted (1000's)	74.49	18.04	24.42	26.63	53.74	13.55
RV	Sample Size	333	25	36	84	169	19
	Weighted Size (1000's)	924.12	55.68	81.79	223.21	511.70	51.75
	SE Weighted (1000's)	75.90	17.08	20.01	35.45	58.71	17.11
Motorcycle	Sample Size	742	112	66	141	381	42
	Weighted Size (1000's)	1658.51	275.79	121.91	364.92	818.65	77.24
	SE Weighted (1000's)	111.95	42.78	25.49	51.62	67.91	23.77
Other	Sample Size	82	10	9	17	36	10
	Weighted Size (1000's)	148.88	26.67	14.09	27.99	65.85	14.28
	SE Weighted (1000's)	25.03	9.62	6.98	10.09	18.50	6.48
Not determined	Sample Size	936	87	55	104	111	579
	Weighted Size (1000's)	2280.10	198.61	153.23	224.89	286.60	1416.77
	SE Weighted (1000's)	128.51	36.32	30.93	37.07	39.83	103.97

```

/* -----
   This program produces the Standard Table 2 for US
  ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\sas";

options ls=170;

/** format procedure ***/
proc format;
  value yearcat
    1 = '0 to 2'
    2 = '3 to 5'
    3 = '6 to 9'
    4 = '10 or more'
    5 = 'Not Determined'
  ;
  value typecat
    1 = 'Automobile'
    2 = 'Van'
    3 = 'Sport Utility'
    4 = 'Pickup'
    5 = 'Other truck'
    6 = 'RV'
    7 = 'Motorcycle'
    8 = 'Other'
    9 = 'Not determined'
  ;
run;

/***** Extract data from the main VEHICL95 data set *****/
data sasdata.us_std2;
  set all.vehicl95 (keep=houseid vehyear vehtype
                  wthhfin varstrat substrat);

  tmptype = vehtype + 0;

  if tmptype <=8 then typecat = tmptype;
  else if tmptype in (98,99) then typecat = 9;

  if vehyear >= 1993 and vehyear not in (9998,9999) then yearcat = 1;
  else if 1990 <= vehyear <= 1992 then yearcat = 2;
  else if 1986 <= vehyear <= 1989 then yearcat = 3;
  else if vehyear <= 1985 then yearcat = 4;
  else if vehyear in (9998,9999) then yearcat = 5;

label yearcat = 'Vehicle Age in Years';
label typecat = 'Vehicle Type';
run ;

proc sort;
  by varstrat substrat houseid;
run;

/** Call SUDAAN crosstab procedure to produce the table ***/
proc crosstab data=sasdata.us_std2 design=wr;
  nest varstrat substrat houseid/strlev=2 missunit;
  weight wthhfin;

  subgroup yearcat typecat;
  levels 5 9;
  tables typecat*yearcat;

setenv colwidth=12;

```

```
print nsum wsum sewgt/wsumunt=3 sewgtunt=3;
rtitle "Standard Table 2: Number of Household Vehicles, by Vehicle Age and Type";
rformat typecat typecat. ;
rformat yearcat yearcat. ;
run;
```

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Variance Estimation Method: Taylor Series (WR)
 Standard Table 3: Number of Persons 5 Years and Older in Households, by Age and Sex
 by: SEX, AGE.

SEX AGE	Sample Size	Weighted Size	SE Weighted

Total			
Total	95360	241675000.00	1281054.77
5-15	17082	43091967.42	675338.96
16-19	4893	14074361.38	329870.38
20-24	4934	16127711.36	407885.74
25-34	14539	43365959.84	625185.66
35-44	17994	42329000.00	549090.37
45-54	14022	31059973.98	438922.87
55-64	9205	20377026.02	367185.23
65 and over	12691	31249000.00	460404.38
Not determined	0	0.00	0.00
Male			
Total	45159	117636000.00	807745.77
5-15	8765	22009185.64	426932.16
16-19	2434	7293957.96	237542.83
20-24	2277	7994320.38	277694.12
25-34	6732	21475536.02	402029.89
35-44	8481	20968000.00	336633.36
45-54	6595	15166969.77	267211.27
55-64	4347	9726030.23	222331.08
65 and over	5528	13002000.00	253597.71
Not determined	0	0.00	0.00
Female			
Total	50201	124039000.00	778373.99
5-15	8317	21082781.78	425095.98
16-19	2459	6780403.42	213001.64
20-24	2657	8133390.98	256811.07
25-34	7807	21890423.82	373412.63
35-44	9513	21361000.00	329614.66
45-54	7427	15893004.21	262387.27
55-64	4858	10650995.79	224905.03
65 and over	7163	18247000.00	317219.23
Not determined	0	0.00	0.00

```

/* -----
   This program produces the Standard Table 3 for US
  ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\us";

options ls=150;

/**** format procedure ****/
proc format;
  value Sex
    1 = 'Male'
    2 = 'Female'
  ;
  value age
    1 = '5-15'
    2 = '16-19'
    3 = '20-24'
    4 = '25-34'
    5 = '35-44'
    6 = '45-54'
    7 = '55-64'
    8 = '65 and over'
    9 = 'Not determined'
  ;
run;

/***** Pull data from the main PERSON95 data set *****/
data sasdata.us_std3;
  set all.person95 (keep=houseid r_age r_sex
                    varstrat substrat wtperfin);

  if r_sex = '01' then sex = 1;
  else if r_sex = '02' then sex = 2;

  if 5 <= r_age <= 15 then age = 1;
  else if 16 <= r_age <= 19 then age = 2;
  else if 20 <= r_age <= 24 then age = 3;
  else if 25 <= r_age <= 34 then age = 4;
  else if 35 <= r_age <= 44 then age = 5;
  else if 45 <= r_age <= 54 then age = 6;
  else if 55 <= r_age <= 64 then age = 7;
  else if r_age >= 65 and r_age not in (998,999) then age = 8;
  else if r_age in (998,999) then age = 9;
run ;

proc sort;
  by varstrat substrat houseid;
run;

/**** Call SUDAAN crosstab procedure to produce the table ****/
proc crosstab data=sasdata.us_std3 design=wr;
  nest varstrat substrat houseid/strlev=2 missunit;
  weight wtperfin;

  subgroup sex age;
  levels 2 9;
  tables sex*age;
  setenv colwidth=12;
  print nsum wsum sewgt/style=nchs;
  rtitle "Standard Table 3: Number of Persons 5 Years and Older in Households, by Age and Sex";
  rformat sex sex. ;

```

```
rformat age age. ;  
run;
```



```

/* -----
   This program produces the Standard Table 4 for US
   ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\sas";

options ls=150;

/** format procedure ***/
proc format;
  value Sex
    1 = 'Male'
    2 = 'Female'
    ;
  value age
    1 = 'Under 16'
    2 = '16-24'
    3 = '25-44'
    4 = '45-64'
    5 = '65 and over'
    6 = 'Not determined'
    ;
  value mile
    1 = 'Under 5000'
    2 = '5,000 to 9,999'
    3 = '10,000 to 14,999'
    4 = '15,000 to 24,999'
    5 = '25,000 to 39,999'
    6 = '40,000 and over'
    7 = 'Not Determined'
    ;
run;

/***** Extract data from the main PERSON95 data set *****/
data sasdata.us_std4;
  set all.person95 (keep=houseid r_age r_sex driver
                    yearmile wtperfin varstrat substrat);

  if driver >1 then delete;

  if yearmile=999994 then delete;

  if r_sex = '01' then sex = 1;
  else if r_sex = '02' then sex = 2;

  if r_age < 16 then age = 1;
  else if 16 <= r_age <= 24 then age = 2;
  else if 25 <= r_age <= 44 then age = 3;
  else if 45 <= r_age <= 64 then age = 4;
  else if r_age >= 65 and r_age not in (98,99) then age = 5;
  else if r_age in (98,99) then age = 6;

  if yearmile < 5000 then mile = 1;
  else if 5000 <= yearmile <= 9999 then mile = 2;
  else if 10000 <= yearmile <= 14999 then mile = 3;
  else if 15000 <= yearmile <= 24999 then mile = 4;
  else if 25000 <= yearmile <= 39999 then mile = 5;
  else if yearmile >= 40000 and yearmile ^= 999998 and
        yearmile ^= 999999 then mile = 6;
  else if yearmile = 999999 or yearmile = 999998 then mile = 7;

  label mile = "Annual Miles Driven";
run ;

```

```
proc sort;
  by varstrat substrat houseid;
run;

/** Call SUDAAN crosstab procedure to produce the table ***/
proc crosstab data=sasdata.us_std4 design=wr;
  nest varstrat substrat houseid/strlev=2 missunit;
  weight wtpferfin;

  subgroup sex age mile;
  levels 2 6 7;
  tables sex*age*mile;
  setenv colwidth=12;
  print nsum /style=nchs ndimrow=2 ndimcol=1;
  print wsum /style=nchs ndimrow=2 ndimcol=1 wsumunt=3;
  print sewgt /style=nchs ndimrow=2 ndimcol=1 sewgtunt=3;
  rtitle "Standard Table 4: Number of Drivers, by Annual Miles Driven, Age and Sex";
  rformat sex sex. ;
  rformat age age. ;
  rformat mile mile. ;
run;
```

Variance Estimation Method: Taylor Series (WR)
 Standard Table 5: Number of Workers, by Work Trip Time and MSA Size
 by: MSA Size, Work Trip time.

MSA Size		Work Trip time						
		Total	10 Minutes or less	11-20 Minutes	21-30 Minutes	31-60 Minutes	60 Minutes and over	Not Determined
Total	Sample Size	46679	14800	14691	7748	7313	1411	716
	Weighted Size (1000's)	117746.38	36858.88	36883.92	19525.41	19495.26	2916.41	2066.50
	SE Weighted (1000's)	658.14	463.51	463.13	344.06	378.41	134.97	124.60
Less than 250,000	Sample Size	4214	1761	1418	507	349	103	76
	Weighted Size (1000's)	9254.46	3805.85	3330.94	1135.27	676.47	145.04	160.89
	SE Weighted (1000's)	266.64	169.48	145.29	83.22	62.65	34.89	30.39
250,000 to 499,999	Sample Size	2804	1045	1029	423	238	38	31
	Weighted Size (1000's)	8280.14	2847.09	3181.59	1334.86	719.96	117.53	79.10
	SE Weighted (1000's)	239.28	131.54	144.53	93.17	61.64	27.74	19.13
500,000 to 999,999	Sample Size	5825	1946	2122	981	640	63	73
	Weighted Size (1000's)	9917.18	3236.42	3628.16	1669.90	1138.61	120.20	123.89
	SE Weighted (1000's)	265.74	138.02	170.53	95.73	75.48	21.29	21.68
1,000,000 to 2,999,999	Sample Size	8951	2676	3371	1726	984	81	113
	Weighted Size (1000's)	20624.49	5787.10	7649.93	3853.05	2758.81	223.60	351.98
	SE Weighted (1000's)	318.02	186.08	212.71	147.38	129.63	40.68	53.25


```

/* -----
   This program produces the Standard Table 5 for US
  ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\sas";

options ls=170;

/** format procedure ***/
proc format;
  value msacat
    1 = 'Less than 250,000'
    2 = '250,000 to 499,999'
    3 = '500,000 to 999,999'
    4 = '1,000,000 to 2,999,999'
    5 = '3,000,000 or more'
    6 = 'Not in an MSA'
    7 = 'Not Determined'
  ;
  value timecat
    1 = '10 Minutes or less'
    2 = '11-20 Minutes'
    3 = '21-30 Minutes'
    4 = '31-60 Minutes'
    5 = '60 Minutes and over'
    6 = 'Not Determined'
  ;
run;

/***** Extract data from the main PERSON95 data set *****/
data sasdata.us_std5;
  set all.person95 (keep=houseid msasize timetowk worker
                   wtperfin varstrat substrat);

  if worker > 1 then delete;

  if timetowk < 0 then delete;
  if timetowk = 994 then delete;

  tmpmsa = msasize + 0;

  if tmpmsa <= 5 then msacat = tmpmsa;
  else if tmpmsa = 94 then msacat = 6;
  else if tmpmsa in (98,99) then msacat = 7;

  if timetowk <= 10 then timecat = 1;
  else if 11 <= timetowk <= 20 then timecat = 2;
  else if 21 <= timetowk <= 30 then timecat = 3;
  else if 31 <= timetowk <= 60 then timecat = 4;
  else if 60 <= timetowk <= 993 then timecat = 5;
  else if timetowk in (998,999) then timecat = 6;

label msacat = 'MSA Size';
label timecat = 'Work Trip time';
run ;

proc sort;
  by varstrat substrat houseid;
run;

/** Call SUDAAN crosstab procedure to produce the table ***/
proc crosstab data=sasdata.us_std5 design=wr;
  nest varstrat substrat houseid/strlev=2 missunit;

```

```
weight      wtperfin;

subgroup    msacat timecat;
levels      7      6;
tables      msacat*timecat;

setenv colwidth=12;
print nsum wsum sewgt/wsumunt=3 sewgtunt=3;
rtitle "Standard Table 5: Number of Workers, by Work Trip Time and MSA Size";
rformat msacat msacat. ;
rformat timecat timecat. ;
run;
```

Variance Estimation Method: Taylor Series (WR)
 Standard Table 6: Number of Travel Day Person Trips, by Mode and Purpose
 by: Trip Purpose, Transportation Mode.

Trip Purpose		Transportation Mode								
		Total	POV trips	Bus trips	Train trips	Streetcar/- Subway	Bike/Walk	School Bus	Other	Not determined
Total	Sample Size	409025	352171	4681	815	2040	24221	8807	2422	13868
	Weighted Size (1000000's)	378930.36	327399.96	4541.38	647.00	1472.08	23666.92	6599.27	2135.84	12467.91
	SE Weighted (1000000's)	2553.38	2312.24	192.98	49.80	80.76	551.73	230.36	129.49	393.35
Go to work	Sample Size	36281	32461	706	245	516	1130	126	241	856
	Weighted Size (1000000's)	32766.86	29565.08	665.13	193.73	395.06	943.18	103.86	197.42	703.40
	SE Weighted (1000000's)	332.71	313.22	42.22	19.13	29.81	50.28	38.68	23.56	44.49
Work-related business	Sample Size	11544	10277	83	16	61	320	118	355	314
	Weighted Size (1000000's)	10622.75	9510.87	81.85	8.56	34.94	289.55	92.99	331.53	272.47
	SE Weighted (1000000's)	296.42	279.65	25.87	3.44	6.91	31.23	27.57	55.37	37.11
Return to work	Sample Size	7229	5989	28	3	10	775	20	107	297
	Weighted Size (1000000's)	6777.40	5705.25	22.48	1.89	3.46	703.04	9.72	104.44	227.12
	SE Weighted (1000000's)	154.07	140.58	6.26	1.54	1.51	49.49	3.51	21.13	22.94

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,
 and other POV modes. Train includes Amtrak and commuter train.
 Streetcar/subway includes trolley and elevated rail.
 Other includes airplane, taxi, and other modes

Variance Estimation Method: Taylor Series (WR)
 Standard Table 6: Number of Travel Day Person Trips, by Mode and Purpose
 by: Trip Purpose, Transportation Mode.

Trip Purpose		Transportation Mode								
		Total	POV trips	Bus trips	Train trips	Streetcar/- Subway	Bike/Walk	School Bus	Other	Not determined
Shopping	Sample Size	56326	50637	421	31	119	3068	64	95	1891
	Weighted Size (1000000's)	52386.81	47171.38	370.81	25.53	83.63	2937.70	49.89	99.68	1648.19
	SE Weighted (1000000's)	577.59	551.03	32.77	7.36	11.05	120.94	10.08	21.34	93.32
School	Sample Size	13304	6787	355	31	81	1353	4121	32	544
	Weighted Size (1000000's)	12161.88	6739.08	312.22	19.70	66.30	1413.74	3075.85	16.93	518.06
	SE Weighted (1000000's)	252.17	177.84	30.66	5.05	11.21	82.09	116.99	5.33	48.96
Religious activity	Sample Size	6080	5500	66	6	15	336	3	14	140
	Weighted Size (1000000's)	6119.61	5612.32	75.28	1.69	11.65	279.97	2.03	16.43	120.24
	SE Weighted (1000000's)	199.24	192.59	18.20	0.93	3.97	32.55	1.69	9.16	18.76
Medical/Dental	Sample Size	4084	3642	137	10	35	122	2	63	73
	Weighted Size (1000000's)	3486.43	3086.48	136.45	7.28	26.67	106.27	3.64	49.71	69.94
	SE Weighted (1000000's)	111.12	105.25	20.36	2.95	7.80	15.18	3.59	11.35	13.69

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,
 and other POV modes. Train includes Amtrak and commuter train.
 Streetcar/subway includes trolley and elevated rail.
 Other includes airplane, taxi, and other modes

Variance Estimation Method: Taylor Series (WR)
 Standard Table 6: Number of Travel Day Person Trips, by Mode and Purpose
 by: Trip Purpose, Transportation Mode.

Trip Purpose		Transportation Mode								
		Total	POV trips	Bus trips	Train trips	Streetcar/- Subway	Bike/Walk	School Bus	Other	Not determined
Other Family/Personal Business	Sample Size	41238	36245	413	62	168	2321	278	241	1510
	Weighted Size (1000000's)	37309.80	32956.53	408.60	38.72	100.82	2102.49	216.29	208.84	1277.51
	SE Weighted (1000000's)	478.76	449.13	38.41	7.09	12.09	81.11	32.86	27.76	72.89
Pick up/Drop off someone	Sample Size	27662	26298	96	10	26	600	66	62	504
	Weighted Size (1000000's)	25359.91	24146.94	98.47	12.86	18.10	510.80	60.47	37.42	474.86
	SE Weighted (1000000's)	418.91	411.27	18.78	5.10	5.28	41.51	14.77	8.47	49.22
Vacation	Sample Size	749	592	25	5	13	34	0	45	35
	Weighted Size (1000000's)	716.73	586.04	35.88	2.69	0.64	35.38	0.00	27.55	28.54
	SE Weighted (1000000's)	85.35	75.14	17.69	1.87	0.62	17.27	0.00	8.44	13.56
Visit Friends and Relatives	Sample Size	20336	16438	254	43	101	1999	77	123	1301
	Weighted Size (1000000's)	20003.82	16064.93	253.42	39.56	79.57	2117.14	41.49	125.68	1282.04
	SE Weighted (1000000's)	325.63	282.33	30.23	9.47	12.52	103.97	9.31	20.30	74.42

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,
 and other POV modes. Train includes Amtrak and commuter train.
 Streetcar/subway includes trolley and elevated rail.
 Other includes airplane, taxi, and other modes

Variance Estimation Method: Taylor Series (WR)
 Standard Table 6: Number of Travel Day Person Trips, by Mode and Purpose
 by: Trip Purpose, Transportation Mode.

Trip Purpose		Transportation Mode								
		Total	POV trips	Bus trips	Train trips	Streetcar/- Subway	Bike/Walk	School Bus	Other	Not determined
Go out to eat	Sample Size	19026	16700	84	5	40	1403	22	88	684
	Weighted Size (1000000's)	18366.73	16221.20	74.20	2.42	23.91	1366.97	18.51	99.92	559.60
	SE Weighted (1000000's)	284.93	269.41	12.79	1.93	5.96	77.41	6.13	22.08	40.22
Other Social/Recreat- ional	Sample Size	26405	21902	291	29	132	2403	253	259	1136
	Weighted Size (1000000's)	24820.69	20367.78	295.20	30.71	92.61	2505.93	173.14	233.13	1122.18
	SE Weighted (1000000's)	428.62	365.88	36.05	9.10	15.77	120.96	21.76	33.37	92.88
Other	Sample Size	612	437	22	1	4	45	9	17	77
	Weighted Size (1000000's)	608.20	455.67	14.61	0.38	3.12	49.27	14.32	16.48	54.34
	SE Weighted (1000000's)	51.46	44.94	5.68	0.38	3.03	13.65	7.51	6.68	14.05
To go home	Sample Size	138077	118228	1700	318	719	8310	3645	680	4477
	Weighted Size (1000000's)	127373.54	109178.58	1696.80	261.28	531.60	8305.38	2736.80	570.68	4092.43
	SE Weighted (1000000's)	900.46	796.18	82.10	23.57	36.13	231.39	102.79	41.18	150.43

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,
 and other POV modes. Train includes Amtrak and commuter train.
 Streetcar/subway includes trolley and elevated rail.
 Other includes airplane, taxi, and other modes

Variance Estimation Method: Taylor Series (WR)
 Standard Table 6: Number of Travel Day Person Trips, by Mode and Purpose
 by: Trip Purpose, Transportation Mode.

Trip Purpose		Transportation Mode								
		Total	POV trips	Bus trips	Train trips	Streetcar/- Subway	Bike/Walk	School Bus	Other	Not determined
Not Determined	Sample Size	72	38	0	0	0	2	3	0	29
	Weighted Size (1000000's)	49.18	31.83	0.00	0.00	0.00	0.10	0.27	0.00	16.98
	SE Weighted (1000000's)	13.12	11.76	0.00	0.00	0.00	0.08	0.27	0.00	5.74

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,
 and other POV modes. Train includes Amtrak and commuter train.
 Streetcar/subway includes trolley and elevated rail.
 Other includes airplane, taxi, and other modes

```

/* -----
   This program produces the Standard Table 6 for US
  ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\sas";

options ls=180;

/** format procedure ***/
proc format;
  value Trip
    1 = 'Go to work'
    2 = 'Work-related business'
    3 = 'Return to work'
    4 = 'Shopping'
    5 = 'School'
    6 = 'Religious activity'
    7 = 'Medical/Dental'
    8 = 'Other Family/Personal Business'
    9 = 'Pick up/Drop off someone'
    10 = 'Vacation'
    11 = 'Visit Friends and Relatives'
    12 = 'Go out to eat'
    13 = 'Other Social/Recreational'
    14 = 'Other'
    15 = 'To go home'
    16 = 'Not Determined'
  ;
  value tmode
    1 = 'POV trips'
    2 = 'Bus trips'
    3 = 'Train trips'
    4 = 'Streetcar/Subway'
    5 = 'Bike/Walk'
    6 = 'School Bus'
    7 = 'Other'
    8 = 'Not determined'
  ;
run;

/** Pull data from the main DAYTRP95 (travel day file) data set ***/
data sasdata.us_std6;
  set all.daytrp95 (keep=houseid trprtrans whytrp95
                  wtrdrfin varstrat substrat);

  if      whytrp95 in (9,10) then trip = 9;
else if  whytrp95 in (98,99) then trip = 16;
else if 11 <= whytrp95 <= 14 then trip = whytrp95-1 ;
else if 16 <= whytrp95 <= 17 then trip = whytrp95-2 ;
else if whytrp95 <= 8 then trip = whytrp95 ;

  if 1 <= trprtrans <= 8 then mode = 1;
else if trprtrans = 9 then mode = 2;
else if 10 <= trprtrans <= 11 then mode = 3;
else if 12 <= trprtrans <= 13 then mode = 4;
else if 16 <= trprtrans <= 17 then mode = 5;
else if trprtrans = 18 then mode = 6;
else if trprtrans in (14,15,19) then mode = 7;
else if trprtrans in (98,99) then mode = 8;

  label mode = "Transportation Mode";
  label trip = "Trip Purpose";
run ;

```

```
proc sort;
    by varstrat substrat houseid;
run;

/** Call SUDAAN crosstab procedure to produce the table ***/
proc crosstab data=sasdata.us_std6 design=wr;
    nest varstrat substrat houseid/strlev=2 missunit;
    weight wtrdrfin;

    subgroup trip mode;
    levels 16 8;
    tables trip*mode;
    setenv colwidth=11;
    print nsum wsum sewgt/wsumunt=6 sewgtunt=6;
    rtitle "Standard Table 6: Number of Travel Day Person Trips, by Mode and Purpose";
    rfootnote "Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,";
    rfootnote " and other POV modes. Train includes Amtrak and commuter train.";
    rfootnote " Streetcar/subway includes trolley and elevated rail.";
    rfootnote " Other includes airplane, taxi, and other modes";
    rformat trip trip. ;
    rformat mode tmode. ;
run;
```

Variance Estimation Method: Taylor Series (WR)
 Standard Table 7: Average Number of Travel Day Trips per Person, by Age and Sex
 by: Variable, AGE, SEX.
 for: Variable = TDAYCNT.

AGE		SEX Total	Males	Females
Total	Sample Size	84039	40646	43393
	Mean	4.90	4.82	4.97
	SE Mean	0.02	0.02	0.02
5-15	Sample Size	15193	7784	7409
	Mean	4.22	4.20	4.25
	SE Mean	0.04	0.05	0.05
16-19	Sample Size	4478	2248	2230
	Mean	5.10	5.04	5.17
	SE Mean	0.07	0.10	0.09
20-24	Sample Size	4488	2080	2408
	Mean	4.90	4.70	5.09
	SE Mean	0.06	0.09	0.09
25-34	Sample Size	13283	6232	7051
	Mean	5.10	4.92	5.28
	SE Mean	0.04	0.05	0.06
35-44	Sample Size	16505	7880	8625
	Mean	5.37	5.09	5.66
	SE Mean	0.04	0.05	0.05
45-54	Sample Size	12666	6067	6599
	Mean	4.97	4.93	5.00
	SE Mean	0.04	0.06	0.06

Date: 09-24-97
Time: 16:23:42

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The DESCRIPT Procedure

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Variance Estimation Method: Taylor Series (WR)
Standard Table 7: Average Number of Travel Day Trips per Person, by Age and Sex
by: Variable, AGE, SEX.
for: Variable = TDAYCNT.

AGE		SEX Total	Males	Females
55-64	Sample Size	7885	3864	4021
	Mean	4.91	5.07	4.75
	SE Mean	0.05	0.08	0.07
65 and over	Sample Size	9541	4491	5050
	Mean	4.65	4.87	4.47
	SE Mean	0.04	0.07	0.05

```

/* -----
   This program produces the Standard Table 7 for US
  ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\us";

options ls=170;

/** format procedure ***/
proc format;
  value age
    1 = '5-15'
    2 = '16-19'
    3 = '20-24'
    4 = '25-34'
    5 = '35-44'
    6 = '45-54'
    7 = '55-64'
    8 = '65 and over'
    9 = 'Not Determined'
    ;
  value sex
    1 = 'Males'
    2 = 'Females'
    3 = 'Not Determined'
    ;
run;

proc sort data=all.person95(keep=houseid personid r_age
                          r_sex varstrat substrat wtperfin) out=tmp1 ;
  by houseid personid;
run;

proc freq data=all.daytrp95;
  tables houseid*personid/out=tmpcnt noprint;
run;

data tmp3;
  set tmpcnt;
  tdaycnt = count;
  keep houseid personid tdaycnt ;
run;

proc sort data=tmp3 ;
  by houseid personid ;
run ;

data sasdata.us_std7;
  merge tmp1 tmp3;
  by houseid personid;

  if      r_age < 5 then delete;
  else if 5 <= r_age <= 15 then age = 1;
  else if 16 <= r_age <= 19 then age = 2;
  else if 20 <= r_age <= 24 then age = 3;
  else if 25 <= r_age <= 34 then age = 4;
  else if 35 <= r_age <= 44 then age = 5;
  else if 45 <= r_age <= 54 then age = 6;
  else if 55 <= r_age <= 64 then age = 7;
  else if      r_age >= 65 and r_age not in (998,999) then age = 8;
  else if r_age in (998,999) then age = 9;

  if r_sex = '01' then sex = 1;
  else if r_sex = '02' then sex = 2;

```

```
else if r_sex in ('98','99') then sex = 3;
run ;

proc sort;
  by varstrat substrat houseid;
run;

/** Call SUDAAN crosstab procedure to produce the table ***/
proc descript data=sasdata.us_std7 design=wr;
  nest varstrat substrat houseid/strlev=2 missunit;
  weight wtpferfin;

  subgroup age sex;
  levels 8 2;
  tables age*sex;
  var tdaycnt;

  print nsum mean semean;
  rtitle "Standard Table 7: Average Number of Travel Day Trips per Person, by Age and Sex";
  rformat age age. ;
  rformat sex sex. ;
run;
```

Variance Estimation Method: Taylor Series (WR)
 Standard Table 8: Number of Travel Day Person Miles Traveled, by Mode and Purpose
 by: Variable, Trip Purpose, Transportation Mode.

for: Variable = Distance (miles).

Trip Purpose		Transportation Mode								
		Total	POV trips	Bus trips	Train trips	Streetcar/S- ubway	Bike/Walk	School Bus	Other	Not determined
Total	Sample Size Total	402298	348497	4151	631	1681	24189	8502	2162	12485
	(1000000's) SE Total (1000000's)	3411121.81	3110249.27	48027.62	14161.65	12051.65	15406.68	43391.05	133758.64	34075.25
Go to work	Sample Size Total	35690	32215	633	207	429	1129	119	223	735
	(1000000's) SE Total (1000000's)	370178.28	346557.52	6076.69	4270.41	3467.26	967.57	1485.50	4065.17	3288.17
Work-related business	Sample Size Total	11291	10166	67	16	52	320	117	313	240
	(1000000's) SE Total (1000000's)	209993.44	174484.79	1118.39	853.58	228.56	165.23	1050.24	30164.05	1928.59
Return to work	Sample Size Total	7174	5952	23	3	10	775	19	104	288
	(1000000's) SE Total (1000000's)	39685.42	37331.37	63.24	9.86	8.83	260.04	244.06	1623.96	144.07

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,
 and other POV modes. Train includes Amtrak and commuter train.
 Streetcar/subway includes trolley and elevated rail.
 Other includes airplane, taxi, and other modes

Variance Estimation Method: Taylor Series (WR)
 Standard Table 8: Number of Travel Day Person Miles Traveled, by Mode and Purpose
 by: Variable, Trip Purpose, Transportation Mode.

for: Variable = Distance (miles).

Trip Purpose		Transportation Mode								
		Total	POV trips	Bus trips	Train trips	Streetcar/S- ubway	Bike/Walk	School Bus	Other	Not determined
Shopping	Sample Size	55623	50170	379	21	100	3067	63	92	1731
	Total (1000000's)	309269.14	298607.94	1649.68	295.09	584.68	1479.18	245.90	3384.63	3022.04
	SE Total (1000000's)	9436.76	9123.30	195.73	135.66	118.82	94.32	65.15	2180.67	426.39
School	Sample Size	12968	6699	311	19	66	1352	3998	27	496
	Total (1000000's)	66660.74	43655.76	2429.55	104.88	605.00	822.34	18314.57	127.76	600.88
	SE Total (1000000's)	2920.02	2563.01	538.23	41.40	143.54	71.35	1065.59	78.92	135.32
Religious activity	Sample Size	5967	5421	57	2	11	336	3	14	123
	Total (1000000's)	37917.55	36367.29	845.55	5.87	96.02	124.14	9.78	201.82	267.08
	SE Total (1000000's)	2277.96	2246.48	307.37	4.27	40.55	17.11	8.40	171.66	100.59
Medical/Dental	Sample Size	3994	3591	125	5	30	122	2	59	60
	Total (1000000's)	33711.65	31750.54	757.01	64.27	117.24	90.01	64.71	495.62	372.25
	SE Total (1000000's)	1834.27	1798.52	172.09	48.06	34.62	18.96	64.62	244.76	129.05

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,
 and other POV modes. Train includes Amtrak and commuter train.
 Streetcar/subway includes trolley and elevated rail.
 Other includes airplane, taxi, and other modes

Variance Estimation Method: Taylor Series (WR)
 Standard Table 8: Number of Travel Day Person Miles Traveled, by Mode and Purpose
 by: Variable, Trip Purpose, Transportation Mode.

for: Variable = Distance (miles).

Trip Purpose		Transportation Mode								
		Total	POV trips	Bus trips	Train trips	Streetcar/S- ubway	Bike/Walk	School Bus	Other	Not determined
Other Family/Personal Business	Sample Size	40640	35906	365	50	143	2318	270	210	1378
	Total (1000000's)	295070.03	258284.25	3578.52	995.34	645.31	1182.30	1108.00	26132.04	3144.26
	SE Total (1000000's)	20905.45	15047.26	782.99	410.10	116.88	75.25	173.88	11485.36	556.14
Pick up/Drop off someone	Sample Size	27259	25961	89	10	17	599	59	59	465
	Total (1000000's)	189717.32	184682.65	1602.73	245.09	97.25	252.77	578.02	917.04	1341.78
	SE Total (1000000's)	6194.66	6122.25	572.14	112.42	43.26	30.93	239.71	646.73	237.50
Vacation	Sample Size	709	566	22	3	13	34	0	37	34
	Total (1000000's)	52147.30	44970.19	1926.95	75.07	1.94	47.05	0.00	5114.76	11.35
	SE Total (1000000's)	7632.65	6869.54	1268.77	75.04	1.86	36.80	0.00	3035.99	5.54
Visit Friends and Relatives	Sample Size	19844	16157	222	30	74	1997	72	100	1192
	Total (1000000's)	256583.93	233347.62	1461.46	1324.31	734.20	1200.90	193.06	16402.85	1919.54
	SE Total (1000000's)	13437.71	11920.02	289.02	550.20	153.60	87.25	47.83	5563.26	448.08

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,
 and other POV modes. Train includes Amtrak and commuter train.
 Streetcar/subway includes trolley and elevated rail.
 Other includes airplane, taxi, and other modes

Variance Estimation Method: Taylor Series (WR)
 Standard Table 8: Number of Travel Day Person Miles Traveled, by Mode and Purpose
 by: Variable, Trip Purpose, Transportation Mode.

for: Variable = Distance (miles).

Trip Purpose		Transportation Mode								
		Total	POV trips	Bus trips	Train trips	Streetcar/S- ubway	Bike/Walk	School Bus	Other	Not determined
Go out to eat	Sample Size	18766	16531	77	3	34	1403	21	81	616
	Total (1000000's)	122966.50	119346.89	1296.74	5.35	101.99	601.02	217.42	766.78	630.31
	SE Total (1000000's)	5404.23	5363.63	550.66	4.59	31.99	53.94	156.48	295.21	128.83
Other Social/Recreat- ional	Sample Size	25885	21606	256	18	109	2394	236	233	1033
	Total (1000000's)	271639.05	240889.11	6920.96	835.12	628.71	2319.95	3258.17	12593.32	4193.71
	SE Total (1000000's)	12286.09	9350.55	1496.58	438.63	153.22	223.20	739.08	7446.95	2051.05
Other	Sample Size	550	422	18	1	4	45	8	17	35
	Total (1000000's)	12635.15	8134.72	86.13	24.61	9.15	38.45	96.21	4160.49	85.38
	SE Total (1000000's)	4612.97	2130.09	50.52	24.61	9.10	17.07	59.23	4090.46	56.08
To go home	Sample Size	135896	117097	1507	243	589	8297	3512	593	4058
	Total (1000000's)	1141350.88	1050261.78	18214.02	5052.82	4725.51	5855.65	16524.83	27608.36	13107.92
	SE Total (1000000's)	18408.47	16606.18	2637.45	604.16	396.64	254.13	963.88	6807.76	2319.21

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,
 and other POV modes. Train includes Amtrak and commuter train.
 Streetcar/subway includes trolley and elevated rail.
 Other includes airplane, taxi, and other modes

Variance Estimation Method: Taylor Series (WR)
 Standard Table 8: Number of Travel Day Person Miles Traveled, by Mode and Purpose
 by: Variable, Trip Purpose, Transportation Mode.

for: Variable = Distance (miles).

Trip Purpose		Transportation Mode								
		Total	POV trips	Bus trips	Train trips	Streetcar/S- ubway	Bike/Walk	School Bus	Other	Not determined
Not Determined	Sample Size	42	37	0	0	0	1	3	0	1
	Total (1000000's)	1595.42	1576.85	0.00	0.00	0.00	0.07	0.58	0.00	17.91
	SE Total (1000000's)	1382.95	1382.83	0.00	0.00	0.00	0.07	0.58	0.00	17.91

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,
 and other POV modes. Train includes Amtrak and commuter train.
 Streetcar/subway includes trolley and elevated rail.
 Other includes airplane, taxi, and other modes

```

/* -----
   This program produces the Standard Table 8 for US
   ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\us";

options ls=180;

/** format procedure ***/
proc format;
  value Trip
    1 = 'Go to work'
    2 = 'Work-related business'
    3 = 'Return to work'
    4 = 'Shopping'
    5 = 'School'
    6 = 'Religious activity'
    7 = 'Medical/Dental'
    8 = 'Other Family/Personal Business'
    9 = 'Pick up/Drop off someone'
    10 = 'Vacation'
    11 = 'Visit Friends and Relatives'
    12 = 'Go out to eat'
    13 = 'Other Social/Recreational'
    14 = 'Other'
    15 = 'To go home'
    16 = 'Not Determined'
  ;
  value mode
    1 = 'POV trips'
    2 = 'Bus trips'
    3 = 'Train trips'
    4 = 'Streetcar/Subway'
    5 = 'Bike/Walk'
    6 = 'School Bus'
    7 = 'Other'
    8 = 'Not determined'
  ;
run;

/***** Pull data from the main DAYTRP95 data set *****/
data sasdata.us_std8;
  set all.daytrp95 (keep=houseid trprans whytrp95 trpmiles
    wttrdfin personid varstrat substrat);

  if trpmiles > 9997.0 then delete;
  else if trpmiles = 9996.0 then trpmiles = 0.06;
  else if trpmiles = 9997.0 then trpmiles = 0.5;

  if whytrp95 in (9, 10) then trip = 9;
  else if whytrp95 in (98, 99) then trip = 16;
  else if 11 <= whytrp95 <= 14 then trip = whytrp95-1 ;
  else if 16 <= whytrp95 <= 17 then trip = whytrp95-2 ;
  else if whytrp95 <= 8 then trip = whytrp95;

  if 1 <= trprans <= 8 then mode = 1;
  else if trprans = 9 then mode = 2;
  else if 10 <= trprans <= 11 then mode = 3;
  else if 12 <= trprans <= 13 then mode = 4;
  else if 16 <= trprans <= 17 then mode = 5;
  else if trprans = 18 then mode = 6;

```

```

else if      trptrans in (14,15,19) then mode = 7;
else if trptrans in (98,99) then mode = 8;

label mode = "Transportation Mode";
label trip = "Trip Purpose";
run ;

proc sort;
  by varstrat substrat houseid;
run;

/** Call SUDAAN descript procedure to produce the table ***/
proc descript data=sasdata.us_std8 design=wr;
  nest varstrat substrat houseid/strlev=2 missunit;
  weight wtttrdfin;

  subgroup trip mode;
  levels 16 8;
  var trpmiles;
  tables trip*mode;
  setenv colwidth=12;
  print nsum total setotal/totalunt=6 setotalunt=6;
  rtitle "Standard Table 8: Number of Travel Day Person Miles Traveled, by Mode and Purpose";
  rfootnote "Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle,";
  rfootnote "      and other POV modes. Train includes Amtrak and commuter train.";
  rfootnote "      Streetcar/subway includes trolley and elevated rail.";
  rfootnote "      Other includes airplane, taxi, and other modes";
  rformat trip trip. ;
  rformat mode mode. ;
run;

```

Variance Estimation Method: Taylor Series (WR)
 Standard Table 9: Number of Travel Day Vehicle Trips, by Trip Length and Purpose (POV trips)
 by: Trip Purpose, Trip Length in Miles.

Trip Purpose		Trip Length in Miles							
		Total	<=5	6-10	11-15	16-20	21-30	31+	Not Determined
Total	Sample Size	250173	150995	44128	20530	11039	10479	11228	1774
	Weighted Size (1000000's)	229737.86	138202.95	40146.56	18949.78	10210.26	10011.55	10758.96	1457.80
	SE Weighted (1000000's)	1457.59	1116.56	473.10	297.89	209.30	215.57	240.60	103.28
Go to work	Sample Size	29545	11956	6436	3961	2397	2425	2180	190
	Weighted Size (1000000's)	26605.09	10860.85	5807.10	3439.28	2150.57	2274.75	1903.14	169.41
	SE Weighted (1000000's)	280.50	181.17	126.98	90.81	71.02	79.66	78.58	22.75
Work-related business	Sample Size	9151	4388	1559	923	600	598	1009	74
	Weighted Size (1000000's)	8501.94	3978.79	1447.33	899.82	576.98	555.37	1001.85	41.79
	SE Weighted (1000000's)	260.19	165.75	72.35	52.54	42.70	44.13	65.71	11.86
Return to work	Sample Size	5304	3914	765	243	98	106	148	30
	Weighted Size (1000000's)	4975.65	3676.33	683.19	247.89	98.04	97.67	152.88	19.65
	SE Weighted (1000000's)	128.73	106.19	41.63	28.52	15.92	14.82	19.88	7.85
Shopping	Sample Size	36967	27506	5161	1814	851	746	624	265
	Weighted Size (1000000's)	33691.30	25112.54	4640.64	1663.30	722.47	710.10	642.76	199.50
	SE Weighted (1000000's)	355.23	296.53	117.06	64.90	39.82	39.50	42.97	21.33

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle, and other POV modes.

Variance Estimation Method: Taylor Series (WR)
 Standard Table 9: Number of Travel Day Vehicle Trips, by Trip Length and Purpose (POV trips)
 by: Trip Purpose, Trip Length in Miles.

Trip Purpose		Trip Length in Miles							
		Total	<=5	6-10	11-15	16-20	21-30	31+	Not Determined
School	Sample Size	2374	1244	441	233	178	126	124	28
	Weighted Size (1000000's)	2519.80	1303.10	518.43	241.85	163.22	150.31	123.34	19.55
	SE Weighted (1000000's)	105.62	71.86	45.38	25.23	23.60	23.35	18.23	5.80
Religious activity	Sample Size	2956	2037	535	175	78	56	53	22
	Weighted Size (1000000's)	2984.66	1998.44	509.66	264.84	76.95	51.86	63.37	19.54
	SE Weighted (1000000's)	97.06	78.90	33.67	32.30	13.09	9.12	14.29	6.36
Medical/Dental	Sample Size	2490	1295	551	240	138	122	124	20
	Weighted Size (1000000's)	2079.21	1047.75	484.06	184.48	122.96	116.61	107.83	15.51
	SE Weighted (1000000's)	74.10	51.89	32.55	20.10	17.66	17.56	15.35	6.72
Other Family/Personal Business	Sample Size	25614	18013	3879	1550	725	631	674	142
	Weighted Size (1000000's)	23194.29	16185.14	3487.88	1446.60	713.96	598.63	654.16	107.91
	SE Weighted (1000000's)	320.49	258.03	103.88	58.67	42.50	36.84	47.15	17.50
Pick up/Drop off someone	Sample Size	21264	13787	3772	1559	694	657	568	227
	Weighted Size (1000000's)	19153.75	12219.96	3446.53	1384.53	714.17	648.34	548.58	191.64
	SE Weighted (1000000's)	312.02	237.80	107.53	67.28	45.94	40.05	40.10	27.84

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle, and other POV modes.

Variance Estimation Method: Taylor Series (WR)
 Standard Table 9: Number of Travel Day Vehicle Trips, by Trip Length and Purpose (POV trips)
 by: Trip Purpose, Trip Length in Miles.

Trip Purpose		Trip Length in Miles							
		Total	<=5	6-10	11-15	16-20	21-30	31+	Not Determined
Vacation	Sample Size	238	58	23	19	7	10	116	5
	Weighted Size (1000000's)	215.07	41.93	22.92	20.88	9.89	4.04	110.67	4.74
	SE Weighted (1000000's)	26.72	10.56	7.55	6.39	4.31	2.28	16.93	4.02
Visit Friends and Relatives	Sample Size	10005	5370	1882	915	489	499	746	104
	Weighted Size (1000000's)	9897.42	5245.21	1827.86	937.31	505.38	513.86	768.78	99.02
	SE Weighted (1000000's)	187.19	132.25	72.38	47.69	33.33	34.97	47.14	15.74
Go out to eat	Sample Size	9719	6883	1506	570	256	217	225	62
	Weighted Size (1000000's)	9333.51	6586.23	1476.95	547.88	248.59	212.63	210.45	50.78
	SE Weighted (1000000's)	152.66	127.80	58.95	36.40	24.93	24.50	22.31	9.70
Other Social/Recreat- ional	Sample Size	10107	5497	2036	922	498	459	629	66
	Weighted Size (1000000's)	9348.40	5152.78	1811.33	856.65	441.67	439.39	607.32	39.27
	SE Weighted (1000000's)	169.09	121.74	66.28	45.60	31.70	31.08	37.20	8.16
Other	Sample Size	201	98	34	18	10	13	24	4
	Weighted Size (1000000's)	195.93	101.29	35.02	15.30	10.13	13.83	15.74	4.62
	SE Weighted (1000000's)	21.97	15.50	7.87	5.03	4.30	6.09	4.94	2.63

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle, and other POV modes.

Variance Estimation Method: Taylor Series (WR)
 Standard Table 9: Number of Travel Day Vehicle Trips, by Trip Length and Purpose (POV trips)
 by: Trip Purpose, Trip Length in Miles.

Trip Purpose		Trip Length in Miles							
		Total	<=5	6-10	11-15	16-20	21-30	31+	Not Determined
To go home	Sample Size	84213	48934	15546	7388	4018	3811	3981	535
	Weighted Size (1000000's)	77024.18	44682.11	13947.50	6799.18	3655.08	3620.51	3844.92	474.88
	SE Weighted (1000000's)	502.52	410.59	196.22	136.85	92.47	98.00	105.92	40.45
Not Determined	Sample Size	25	15	2	0	2	3	3	0
	Weighted Size (1000000's)	17.64	10.49	0.16	0.00	0.18	3.64	3.17	0.00
	SE Weighted (1000000's)	8.07	6.41	0.16	0.00	0.18	2.61	2.67	0.00

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle, and other POV modes.

```

/* -----
   This program produces the Standard Table 9 for US
  ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\us";

options ls=170;

/** format procedure ***/
proc format;
  value Trip
    1 = 'Go to work'
    2 = 'Work-related business'
    3 = 'Return to work'
    4 = 'Shopping'
    5 = 'School'
    6 = 'Religious activity'
    7 = 'Medical/Dental'
    8 = 'Other Family/Personal Business'
    9 = 'Pick up/Drop off someone'
    10 = 'Vacation'
    11 = 'Visit Friends and Relatives'
    12 = 'Go out to eat'
    13 = 'Other Social/Recreational'
    14 = 'Other'
    15 = 'To go home'
    16 = 'Not Determined'
  ;
  value mile
    1 = '<=5'
    2 = '6-10'
    3 = '11-15'
    4 = '16-20'
    5 = '21-30'
    6 = '31+'
    7 = 'Not Determined'
  ;
run;

/***** Extract data from the main DAYTRP95 data set *****/
data sasdata.us_std9;
  set all.daytrp95 (keep=houseid whytrp95 trpmiles trptrans
                   vtr_flg wttrdfin varstrat substrat);

  if trptrans > 8 then delete;

  if vtr_flg ^= 1 then delete;

  if whytrp95 in (9, 10) then trip = 9;
  else if whytrp95 in (98, 99) then trip = 16;
  else if 11 <= whytrp95 <= 14 then trip = whytrp95-1;
  else if 16 <= whytrp95 <= 17 then trip = whytrp95-2;
  else if whytrp95 <= 8 then trip = whytrp95;

  if trpmiles = 9996 then mile = 1;
  else if trpmiles = 9997 then mile = 1;
  else if trpmiles <= 5 then mile = 1;
  else if 6 <= trpmiles <= 10 then mile = 2;
  else if 11 <= trpmiles <= 15 then mile = 3;
  else if 16 <= trpmiles <= 20 then mile = 4;
  else if 21 <= trpmiles <= 30 then mile = 5;
  else if trpmiles > 30 and trpmiles not in (9998,9999) then mile = 6;
  else if trpmiles in (9998,9999) then mile = 7;

```

```
label trip='Trip Purpose';
label mile='Trip Length in Miles';

proc sort;
  by varstrat substrat houseid;
run;

/** Call SUDAAN crosstab procedure to produce the table ***/
proc crosstab data=sasdata.us_std9 design=wr;
  nest varstrat substrat houseid/strlev=2 missunit;
  weight wttrdfin;
  subgroup trip mile;
  levels 16 7;
  tables trip*mile;
  setenv colwidth=12;
  print nsum wsum sewgt/wsumunt=6 sewgtunt=6;
  rtitle "Standard Table 9: Number of Travel Day Vehicle Trips, by Trip Length and Purpose (POV trips)";
  rfootnote "Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle, and other POV modes.";
  rformat trip trip. ;
  rformat mile mile. ;
run;
```

Variance Estimation Method: Taylor Series (WR)
 Standard Table 10: Number of Travel Day Vehicle Miles Traveled, by Trip Length and Purpose (POV trips)
 by: Variable, Trip Purpose, Trip Length in Miles.

for: Variable = Distance (miles).

Trip Purpose		Trip Length in Miles						
		Total	<=5	6-10	11-15	16-20	21-30	31+
Total	Sample Size Total	248399	150995	44128	20530	11039	10479	11228
	(1000000's)	2068326.64	315478.52	316201.97	251406.17	187777.02	256339.37	741123.59
	SE Total (1000000's)	22940.29	2789.76	3782.44	3992.12	3861.36	5579.54	19807.95
Go to work	Sample Size Total	29355	11956	6436	3961	2397	2425	2180
	(1000000's)	313485.44	28800.30	46221.52	45570.75	39388.69	57983.71	95520.47
	SE Total (1000000's)	5560.08	536.82	1020.92	1219.70	1305.17	2062.38	4633.46
Work-related business	Sample Size Total	9077	4388	1559	923	600	598	1009
	(1000000's)	148388.72	9536.35	11523.82	11999.98	10659.39	14413.17	90256.01
	SE Total (1000000's)	8007.06	427.74	579.18	707.51	786.01	1136.97	7485.58
Return to work	Sample Size Total	5274	3914	765	243	98	106	148
	(1000000's)	30909.10	7941.82	5194.62	3325.00	1772.10	2515.27	10160.29
	SE Total (1000000's)	1765.08	282.68	325.50	392.91	283.72	388.50	1538.31
Shopping	Sample Size Total	36702	27506	5161	1814	851	746	624
	(1000000's)	184353.17	50648.16	36465.31	22006.89	13293.29	18197.14	43742.38
	SE Total (1000000's)	4231.06	693.60	963.91	869.08	738.88	1021.32	3603.24

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle, and other POV modes.

Variance Estimation Method: Taylor Series (WR)
 Standard Table 10: Number of Travel Day Vehicle Miles Traveled, by Trip Length and Purpose (POV trips)
 by: Variable, Trip Purpose, Trip Length in Miles.

for: Variable = Distance (miles).

Trip Purpose		Trip Length in Miles						
		Total	<=5	6-10	11-15	16-20	21-30	31+
School	Sample Size	2346	1244	441	233	178	126	124
	Total (1000000's)	24896.10	3327.06	4193.36	3222.16	3028.56	3862.73	7262.23
	SE Total (1000000's)	1656.68	202.93	395.24	326.53	451.45	608.73	1345.79
Religious activity	Sample Size	2934	2037	535	175	78	56	53
	Total (1000000's)	19251.20	4595.81	3945.69	3481.39	1396.97	1315.02	4516.32
	SE Total (1000000's)	1452.56	226.91	271.31	441.10	236.05	234.41	1256.43
Medical/Dental	Sample Size	2470	1295	551	240	138	122	124
	Total (1000000's)	19874.44	2804.86	3866.15	2414.07	2270.87	3002.38	5516.10
	SE Total (1000000's)	1191.87	155.68	264.10	263.12	330.64	451.36	937.18
Other Family/Personal Business	Sample Size	25472	18013	3879	1550	725	631	674
	Total (1000000's)	158715.80	34029.31	27340.90	19143.15	13113.83	15257.09	49831.52
	SE Total (1000000's)	5419.97	612.96	837.95	787.85	781.17	942.28	4980.88
Pick up/Drop off someone	Sample Size	21037	13787	3772	1559	694	657	568
	Total (1000000's)	140581.79	27640.18	27238.70	18263.95	13118.27	16556.46	37764.24
	SE Total (1000000's)	4336.80	602.73	872.88	883.14	846.35	1036.27	3651.70

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle, and other POV modes.

Variance Estimation Method: Taylor Series (WR)
 Standard Table 10: Number of Travel Day Vehicle Miles Traveled, by Trip Length and Purpose (POV trips)
 by: Variable, Trip Purpose, Trip Length in Miles.

for: Variable = Distance (miles).

Trip Purpose		Trip Length in Miles						
		Total	<=5	6-10	11-15	16-20	21-30	31+
Vacation	Sample Size	233	58	23	19	7	10	116
	Total (1000000's)	18689.62	69.83	194.72	273.15	189.94	103.75	17858.23
	SE Total (1000000's)	3102.45	19.70	63.91	84.38	83.75	59.03	3077.15
Visit Friends and Relatives	Sample Size	9901	5370	1882	915	489	499	746
	Total (1000000's)	129606.68	12565.20	14594.01	12517.89	9394.55	13406.20	67128.83
	SE Total (1000000's)	6021.67	352.12	582.12	646.02	624.37	924.50	5789.01
Go out to eat	Sample Size	9657	6883	1506	570	256	217	225
	Total (1000000's)	59281.29	14804.99	11469.77	7328.49	4620.48	5439.33	15618.24
	SE Total (1000000's)	2350.11	348.04	468.55	490.96	468.21	618.35	2070.20
Other Social/Recreat- ional	Sample Size	10041	5497	2036	922	498	459	629
	Total (1000000's)	106050.24	12611.71	14397.52	11488.84	8232.61	11464.40	47855.15
	SE Total (1000000's)	4014.46	337.56	533.79	624.03	598.73	824.25	3707.39
Other	Sample Size	197	98	34	18	10	13	24
	Total (1000000's)	3484.16	246.55	282.10	209.99	188.17	350.26	2207.09
	SE Total (1000000's)	1146.49	53.26	62.52	70.09	80.79	152.66	1126.44

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle, and other POV modes.

Variance Estimation Method: Taylor Series (WR)
 Standard Table 10: Number of Travel Day Vehicle Miles Traveled, by Trip Length and Purpose (POV trips)
 by: Variable, Trip Purpose, Trip Length in Miles.

for: Variable = Distance (miles).

Trip Purpose		Trip Length in Miles						
		Total	<=5	6-10	11-15	16-20	21-30	31+
To go home	Sample Size	83678	48934	15546	7388	4018	3811	3981
	Total (1000000's)	710475.93	105820.95	109272.48	90160.47	67106.43	92367.68	245747.91
	SE Total (1000000's)	9470.88	1106.79	1562.88	1826.57	1701.50	2527.52	8686.75
Not Determined	Sample Size	25	15	2	0	2	3	3
	Total (1000000's)	282.96	35.43	1.30	0.00	2.86	104.78	138.59
	SE Total (1000000's)	139.28	20.60	1.30	0.00	2.86	75.93	109.68

Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle, and other POV modes.

```

/* -----
   This program produces the Standard Table 10 for US
  ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\sas";

options ls=180 ps=55;

/** format procedure ***/
proc format;
  value Trip
    1 = 'Go to work'
    2 = 'Work-related business'
    3 = 'Return to work'
    4 = 'Shopping'
    5 = 'School'
    6 = 'Religious activity'
    7 = 'Medical/Dental'
    8 = 'Other Family/Personal Business'
    9 = 'Pick up/Drop off someone'
    10 = 'Vacation'
    11 = 'Visit Friends and Relatives'
    12 = 'Go out to eat'
    13 = 'Other Social/Recreational'
    14 = 'Other'
    15 = 'To go home'
    16 = 'Not Determined'
  ;
  value mile
    1 = '<=5'
    2 = '6-10'
    3 = '11-15'
    4 = '16-20'
    5 = '21-30'
    6 = '31+'
  ;
run;

/***** Extract data from the main DAYTRP95 data set *****/
data sasdata.us_std10;
  set all.daytrp95 (keep=houseid whytrp95 trpmiles trptrans vtr_flg
                  wttrdfin varstrat substrat);
  if trpmiles > 9997.0 then delete;
  if vtr_flg ^= '01' then delete;

  if      whytrp95 in (9, 10) then trip = 9 ;
  else if whytrp95 in (98, 99) then trip = 16 ;
  else if 11 <= whytrp95 <= 14 then trip = whytrp95-1 ;
  else if 16 <= whytrp95 <= 17 then trip = whytrp95-2 ;
  else if whytrp95 <= 8 then trip = whytrp95 ;

  if trpmiles in (9996,9997) then mile = 1;
  else if trpmiles <= 5 then mile = 1;
  else if 6 <= trpmiles <= 10 then mile = 2;
  else if 11 <= trpmiles <= 15 then mile = 3;
  else if 16 <= trpmiles <= 20 then mile = 4;
  else if 21 <= trpmiles <= 30 then mile = 5;
  else if trpmiles > 30 and trpmiles not in (9998,9999) then mile = 6;

  if trpmiles = 9996 then trpmiles = 0.06;
  else if trpmiles = 9997 then trpmiles = 0.5;

label trip='Trip Purpose';
label mile='Trip Length in Miles';

```

```
run ;

proc sort;
    by varstrat substrat houseid;
run;

/** Call SUDAAN crosstab procedure to produce the table ***/
proc descript data=sasdata.us_std10 design=wr;
    nest varstrat substrat houseid/strlev=2 missunit;
    weight wtrdrfin;

    subgroup trip mile;
    levels 16 6;
    var trpmiles;
    tables trip*mile;

    setenv colwidth=14;
    print nsum total setotal/totalunt=6 setotalunt=6;
    rtitle "Standard Table 10: Number of Travel Day Vehicle Miles Traveled, by Trip Length and Purpose (POV trips)";
    rfootnote "Note: POV includes auto, van, utility, pickup, other truck, RV, Motorcycle, and other POV modes.";
    rformat trip trip. ;
    rformat mile mile. ;
run;
```

Variance Estimation Method: Taylor Series (WR)
 Standard Table 11: Number of Travel Period Trips, by Travel Mode and Purpose
 by: Trip Purpose, Transportation Mode.

Trip Purpose		Transportation Mode							Not Determined	7
		Total	POV Trips	Bus Trips	Amtrak Trips	Airplane Trips	Other			
Total	Sample Size	29647	27222	507	103	1283	492	40	0	
	Weighted Size (1000's)	1996178.14	1838883.84	35488.24	6747.97	84416.12	28484.81	2157.15	0.00	
	SE Weighted (1000's)	23159.89	22663.42	3565.86	1277.83	4673.20	2685.38	554.08	0.00	
Go to work	Sample Size	1845	1670	30	6	52	85	2	0	
	Weighted Size (1000's)	117809.37	106226.76	3480.06	448.64	3943.59	3620.93	89.39	0.00	
	SE Weighted (1000's)	8873.06	8305.23	2045.13	407.54	899.71	1126.27	87.70	0.00	
Work-related business	Sample Size	4895	4241	34	26	499	89	6	0	
	Weighted Size (1000's)	318051.54	279372.07	1886.98	936.64	30234.39	5351.67	269.78	0.00	
	SE Weighted (1000's)	11030.77	10596.59	648.70	424.89	2697.50	1301.66	148.79	0.00	
Return to work	Sample Size	0	0	0	0	0	0	0	0	
	Weighted Size (1000's)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	SE Weighted (1000's)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Shopping	Sample Size	1239	1206	18	1	1	12	1	0	
	Weighted Size (1000's)	95693.50	93861.99	1048.36	169.96	42.44	566.24	4.50	0.00	
	SE Weighted (1000's)	5632.47	5606.18	461.14	169.96	42.44	258.60	4.50	0.00	

Variance Estimation Method: Taylor Series (WR)
 Standard Table 11: Number of Travel Period Trips, by Travel Mode and Purpose
 by: Trip Purpose, Transportation Mode.

Trip Purpose		Transportation Mode							Not Determined	7
		Total	POV Trips	Bus Trips	Amtrak Trips	Airplane Trips	Other			
School	Sample Size	294	229	31	2	4	28	0	0	
	Weighted Size (1000's)	24152.66	19223.35	2245.56	264.79	205.03	2213.92	0.00	0.00	
	SE Weighted (1000's)	3111.42	2887.94	850.02	191.75	144.97	763.99	0.00	0.00	
Religious activity	Sample Size	231	207	15	0	2	5	2	0	
	Weighted Size (1000's)	19622.33	17540.66	1756.97	0.00	22.04	160.16	142.50	0.00	
	SE Weighted (1000's)	2832.49	2633.53	1038.84	0.00	19.18	104.63	131.11	0.00	
Medical/Dental	Sample Size	570	549	9	0	1	10	1	0	
	Weighted Size (1000's)	47782.95	46669.18	510.96	0.00	2.88	597.13	2.80	0.00	
	SE Weighted (1000's)	4745.80	4723.96	302.82	0.00	2.88	279.48	2.80	0.00	
Other Family/Personal Business	Sample Size	3018	2829	43	14	104	23	5	0	
	Weighted Size (1000's)	203044.23	190375.97	2797.66	625.18	7443.71	1383.32	418.39	0.00	
	SE Weighted (1000's)	8819.12	8669.67	717.29	211.40	1338.39	444.28	255.94	0.00	
Pick up/Drop off someone	Sample Size	1058	1040	6	0	6	4	2	0	
	Weighted Size (1000's)	75207.26	73121.75	1319.85	0.00	603.19	82.00	80.47	0.00	
	SE Weighted (1000's)	4774.33	4671.37	930.26	0.00	273.96	54.02	80.47	0.00	

Variance Estimation Method: Taylor Series (WR)
 Standard Table 11: Number of Travel Period Trips, by Travel Mode and Purpose
 by: Trip Purpose, Transportation Mode.

Trip Purpose		Transportation Mode							Not Determined	7
		Total	POV Trips	Bus Trips	Amtrak Trips	Airplane Trips	Other			
Vacation	Sample Size	1915	1677	24	4	191	18	1	0	
	Weighted Size (1000's)	126654.28	109451.97	1516.21	233.30	14022.57	1314.12	116.11	0.00	
	SE Weighted (1000's)	6661.26	6332.07	492.55	163.84	1911.11	502.24	116.11	0.00	
Visit Friends and Relatives	Sample Size	7713	7299	79	34	242	52	7	0	
	Weighted Size (1000's)	516799.39	488980.39	4934.18	3207.73	16219.40	2996.89	460.79	0.00	
	SE Weighted (1000's)	12663.14	12394.37	1252.68	1004.29	2001.14	743.98	301.34	0.00	
Go out to eat	Sample Size	84	83	0	0	0	1	0	0	
	Weighted Size (1000's)	5310.42	5229.78	0.00	0.00	0.00	80.64	0.00	0.00	
	SE Weighted (1000's)	981.45	978.13	0.00	0.00	0.00	80.64	0.00	0.00	
Other Social/Recreational	Sample Size	6275	5774	202	14	164	118	3	0	
	Weighted Size (1000's)	417440.56	385333.99	13001.95	759.40	10788.72	7538.28	18.21	0.00	
	SE Weighted (1000's)	10895.73	10679.64	1509.94	344.96	1550.66	1254.25	12.54	0.00	
Other	Sample Size	494	411	16	2	17	47	1	0	
	Weighted Size (1000's)	27675.69	23024.90	989.49	102.30	888.16	2579.51	91.33	0.00	
	SE Weighted (1000's)	2558.06	2315.23	375.87	80.96	367.25	894.37	91.33	0.00	

Variance Estimation Method: Taylor Series (WR)
 Standard Table 11: Number of Travel Period Trips, by Travel Mode and Purpose
 by: Trip Purpose, Transportation Mode.

Trip Purpose		Transportation Mode							Not Determined	7
		Total	POV Trips	Bus Trips	Amtrak Trips	Airplane Trips	Other			
To go home	Sample Size	0	0	0	0	0	0	0	0	
	Weighted Size (1000's)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	SE Weighted (1000's)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Not Determined	Sample Size	16	7	0	0	0	0	9	0	
	Weighted Size (1000's)	933.97	471.09	0.00	0.00	0.00	0.00	462.88	0.00	
	SE Weighted (1000's)	330.95	231.11	0.00	0.00	0.00	0.00	237.77	0.00	

```

/* -----
   This program produces the Standard Table 11 for US
  ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\sas";

options ls=170;

/** format procedure ***/
proc format;
  value Trip
    1 = 'Go to work'
    2 = 'Work-related business'
    3 = 'Return to work'
    4 = 'Shopping'
    5 = 'School'
    6 = 'Religious activity'
    7 = 'Medical/Dental'
    8 = 'Other Family/Personal Business'
    9 = 'Pick up/Drop off someone'
    10 = 'Vacation'
    11 = 'Visit Friends and Relatives'
    12 = 'Go out to eat'
    13 = 'Other Social/Recreational'
    14 = 'Other'
    15 = 'To go home'
    16 = 'Not Determined'
  ;
  value mode
    1 = 'POV Trips'
    2 = 'Bus Trips'
    3 = 'Amtrak Trips'
    4 = 'Airplane Trips'
    5 = 'Other'
    6 = 'Not Determined'
  ;
run;

/***** Extract data from the main PERTRP95 data set *****/
data sasdata.us_std11;
  set all.pertrp95(keep=houseid towhytrp to_trans
                  wttrpfin varstrat substrat);

  if towhytrp in (9, 10) then trip = 9 ;
  else if towhytrp in (98, 99) then trip = 16 ;
  else if 11 <= towhytrp <= 14 then trip = towhytrp-1 ;
  else if 16 <= towhytrp <= 17 then trip = towhytrp-2 ;
  else if towhytrp <= 8 then trip = towhytrp ;

  if 1 <= to_trans <= 8 then mode = 1;
  else if to_trans = 9 then mode = 2;
  else if to_trans = 10 then mode = 3;
  else if to_trans = 14 then mode = 4;
  else if 11 <= to_trans <= 13 then mode = 5;
  else if 15 <= to_trans <= 19 then mode = 5;
  else if to_trans in (98,99) then mode = 6;

label trip='Trip Purpose';
label mode='Transportation Mode';
run ;

proc sort;
  by varstrat substrat houseid;
run;

```

```
/** Call SUDAAN crosstab procedure to produce the table ***/  
proc crosstab data=sasdata.us_std11 design=wr;  
  nest varstrat substrat houseid/strlev=2 missunit;  
  weight wttrpfin;  
  
  subgroup trip mode;  
  levels 16 7;  
  tables trip*mode;  
  
print nsum wsum sewgt/wsumunt=3 sewgtunt=3;  
rtitle "Standard Table 11: Number of Travel Period Trips, by Travel Mode and Purpose";  
rformat trip trip. ;  
rformat mode mode. ;  
run ;
```

Variance Estimation Method: Taylor Series (WR)
 Standard Table 12: Average Vehicle Occupancy, by Trip Purpose and Trip Length(POV trips)
 by: Variable, Trip Purpose, Trip Length in Miles.

for: Variable = Total # of persons on trip (derived).

Trip Purpose		Trip Length in Miles							
		Total	<=5	6-10	11-15	16-20	21-30	31+	Not Determined
Total	Sample Size	250116	150973	44119	20530	11036	10478	11223	1757
	Mean	1.50	1.49	1.50	1.47	1.45	1.44	1.66	1.69
	SE Mean	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.06
Go to work	Sample Size	29539	11953	6435	3961	2396	2424	2180	190
	Mean	1.09	1.09	1.08	1.06	1.09	1.11	1.17	1.20
	SE Mean	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.06
Work-related business	Sample Size	9149	4387	1559	923	600	598	1009	73
	Mean	1.18	1.17	1.19	1.15	1.18	1.15	1.27	1.23
	SE Mean	0.01	0.02	0.03	0.02	0.04	0.04	0.04	0.13
Return to work	Sample Size	5302	3913	765	243	97	106	148	30
	Mean	1.24	1.25	1.15	1.22	1.42	1.12	1.31	1.09
	SE Mean	0.01	0.02	0.02	0.08	0.18	0.05	0.10	0.05
Shopping	Sample Size	36959	27502	5160	1814	851	746	624	262
	Mean	1.53	1.48	1.61	1.68	1.74	1.80	2.04	1.85
	SE Mean	0.01	0.01	0.02	0.04	0.06	0.07	0.08	0.13
School	Sample Size	2372	1244	441	233	177	126	123	28
	Mean	1.30	1.40	1.25	1.18	1.09	1.11	1.27	1.07
	SE Mean	0.02	0.04	0.04	0.05	0.03	0.04	0.12	0.06
Religious activity	Sample Size	2955	2037	535	175	78	56	53	21
	Mean	1.95	1.84	2.00	2.36	2.17	2.11	2.51	2.45
	SE Mean	0.04	0.05	0.09	0.17	0.25	0.19	0.31	0.34

Variance Estimation Method: Taylor Series (WR)
 Standard Table 12: Average Vehicle Occupancy, by Trip Purpose and Trip Length(POV trips)
 by: Variable, Trip Purpose, Trip Length in Miles.

for: Variable = Total # of persons on trip (derived).

Trip Purpose		Trip Length in Miles							Not Determined
		Total	<=5	6-10	11-15	16-20	21-30	31+	
Medical/Dental	Sample Size	2490	1295	551	240	138	122	124	20
	Mean	1.41	1.39	1.37	1.45	1.41	1.45	1.61	2.21
	SE Mean	0.02	0.03	0.04	0.08	0.08	0.09	0.10	0.64
Other Family/Personal Business	Sample Size	25608	18010	3878	1550	725	631	674	140
	Mean	1.41	1.37	1.45	1.46	1.48	1.58	1.79	1.71
	SE Mean	0.01	0.01	0.02	0.03	0.06	0.06	0.07	0.14
Pick up/Drop off someone	Sample Size	21261	13786	3770	1559	694	657	568	227
	Mean	1.99	2.02	1.96	1.88	1.85	1.94	2.20	2.02
	SE Mean	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.12
Vacation	Sample Size	238	58	23	19	7	10	116	5
	Mean	2.50	2.30	2.46	2.90	2.15	1.81	2.53	3.52
	SE Mean	0.15	0.29	0.27	0.57	0.94	0.38	0.16	0.56
Visit Friends and Relatives	Sample Size	10002	5368	1882	915	489	499	746	103
	Mean	1.59	1.53	1.57	1.59	1.66	1.60	1.94	1.83
	SE Mean	0.02	0.02	0.04	0.05	0.07	0.06	0.07	0.21
Go out to eat	Sample Size	9717	6882	1506	570	256	217	225	61
	Mean	1.90	1.83	1.99	2.19	2.08	2.12	2.42	2.06
	SE Mean	0.02	0.02	0.05	0.10	0.10	0.14	0.16	0.26
Other Social/Recreational	Sample Size	10098	5493	2033	922	498	459	627	66
	Mean	1.89	1.80	1.89	1.90	1.97	2.02	2.53	1.81
	SE Mean	0.02	0.03	0.04	0.06	0.09	0.08	0.08	0.22

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 Time: 16:53:06

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Variance Estimation Method: Taylor Series (WR)
 Standard Table 12: Average Vehicle Occupancy, by Trip Purpose and Trip Length(POV trips)
 by: Variable, Trip Purpose, Trip Length in Miles.

for: Variable = Total # of persons on trip (derived).

Trip Purpose		Trip Length in Miles							
		Total	<=5	6-10	11-15	16-20	21-30	31+	Not Determined
Other	Sample Size	201	98	34	18	10	13	24	4
	Mean	1.98	1.96	2.34	2.55	1.15	1.69	1.70	1.45
	SE Mean	0.15	0.23	0.22	0.60	0.12	0.28	0.24	0.29
To go home	Sample Size	84200	48932	15545	7388	4018	3811	3979	527
	Mean	1.46	1.45	1.47	1.45	1.43	1.40	1.60	1.62
	SE Mean	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.08
Not Determined	Sample Size	25	15	2	0	2	3	3	0
	Mean	1.78	1.22	1.00	.	1.00	3.41	1.82	.
	SE Mean	0.51	0.21	0.00	.	0.00	1.34	0.21	.

```

* -----
  This program produces the Standard Table 12 for US
* ----- */

libname all "d:\nptstab";
libname sasdata "d:\nptstab\us";

options ls=170;

/** format procedure ***/
proc format;
  value Trip
    1 = 'Go to work'
    2 = 'Work-related business'
    3 = 'Return to work'
    4 = 'Shopping'
    5 = 'School'
    6 = 'Religious activity'
    7 = 'Medical/Dental'
    8 = 'Other Family/Personal Business'
    9 = 'Pick up/Drop off someone'
    10 = 'Vacation'
    11 = 'Visit Friends and Relatives'
    12 = 'Go out to eat'
    13 = 'Other Social/Recreational'
    14 = 'Other'
    15 = 'To go home'
    16 = 'Not Determined'
  ;
  value mile
    1 = '<=5'
    2 = '6-10'
    3 = '11-15'
    4 = '16-20'
    5 = '21-30'
    6 = '31+'
    7 = 'Not Determined'
  ;
run;

/***** Extract data from the main DAYTRP95 data set *****/
data sasdata.us_std12;
  set all.daytrp95 (keep=houseid whytrp95 trpmiles trptrans vtr_flg
    numontrp wttrdfin varstrat substrat);

  if trptrans > 8 then delete;
  if vtr_flg ^= '01' then delete;
  if numontrp >= 998 then delete;

  if whytrp95 in (9, 10) then trip = 9 ;
  else if whytrp95 in (98, 99) then trip = 16 ;
  else if 11 <= whytrp95 <= 14 then trip = whytrp95-1 ;
  else if 16 <= whytrp95 <= 17 then trip = whytrp95-2 ;
  else if whytrp95 <= 8 then trip = whytrp95 ;

  if trpmiles in (9996,9997) then mile = 1;
  else if trpmiles <= 5 then mile = 1;
  else if 6 <= trpmiles <= 10 then mile = 2;
  else if 11 <= trpmiles <= 15 then mile = 3;
  else if 16 <= trpmiles <= 20 then mile = 4;
  else if 21 <= trpmiles <= 30 then mile = 5;
  else if trpmiles > 30 and trpmiles not in (9998,9999) then mile = 6;
  else if trpmiles in (9998,9999) then mile = 7;

label trip='Trip Purpose';

```

```
label mile='Trip Length in Miles';
run ;

proc sort;
  by varstrat substrat houseid;
run;

/** Call SUDAAN crosstab procedure to produce the table ***/
proc descript data=sasdata.us_std12 design=wr;
  nest varstrat substrat houseid/strlev=2 missunit;
  weight wttrdfin;

  subgroup trip mile;
  levels 16 7;
  var numontrp;
  tables trip*mile;

  print nsum mean semean;
  rtitle "Standard Table 12: Average Vehicle Occupancy, by Trip Purpose and Trip Length(POV trips)";
  rformat trip trip. ;
  rformat mile mile. ;
run;
```