Average Outlays by Income Category

Average for all Imputation Groups

1999 HOUSEHOLD TOTAL INCOME	Average Outlays
$0 to $20,000	17,902
$20,000 to $30,000	23,146
$30,000 to $40,000	27,145
$40,000 to $50,000	31,941
$50,000 to $60,000	36,052
$60,000 to $70,000	40,118
$70,000 to $80,000	43,003
$80,000 to $100,000	47,581
$100,000 to $130,000	54,639
Over $130,000	77,599

Income compared to outlays

```
*************************************************************************;
* program:    Total Consumption by SPS ID                               ;
* programmer: Rick Peterson                                             ;
* project:    Washington Excise Tax Microsimulation Model               ;
* date:       March 4, 2002                                             ;
*                                                                       ;
* purpose:    Creates file with income and total consumption by SPSID   ;
*                                                                       ;
*-----------------------------------------------------------------------;
* libraries: Altcons - Contains one consumption data set for each       ;
*                      of the 7 imputation groups                       ;
*             extaxmdl - Location of excise tax model data sets         ;
*-----------------------------------------------------------------------;
* incoming:   aggi99.txt - contains definition of total consumption     ;
*             altcons.consumption&x - consumption data for each group   ;
*-----------------------------------------------------------------------;
* formats:    Formats for excise tax microsimulation model 1.sas        ;
*                                                                       ;
*-----------------------------------------------------------------------;
* outgoing:   Totalconsump1 - Totalconsump7 containing total consumption ;
*              for each SPS ID                                          ;
*                                                                       ;
*-----------------------------------------------------------------------;
* reports:   Tables of average total consumption by income category     ;
*                                                                       ;
*-----------------------------------------------------------------------;
* changes:                                                              ;
*                                                                       ;
*-----------------------------------------------------------------------;
* notes:     The definition of total outlays from Rogers and Gray,      ;
*            Monthly Labor Review, Dec 1994 is used. Total Outlays      ;
*            equals CEX total consumption plus principal payments       ;
*            on home mortgages and financed vehicles less purchase      ;
*            price of financed vehicles. However, Rogers and Gray       ;
*            include pensions and social security which are removed     ;
*            here.                                                      ;
*************************************************************************;

*-----------------------------------------------------------------------;
*Bring in household data from WAPOP to merge with consumption data;
*-----------------------------------------------------------------------;
Data z;
set popsur.sps00f04;
where pnum=1;
keep id fnlwgt hhinc;
run;
proc sort data=z;
by id;
run;
*-----------------------------------------------------------------------;
*Bring in file for CEX aggregation scheme;
*-----------------------------------------------------------------------;
filename agg "c:\data\interview survey\aggi99.txt";

data agfile;
  infile agg lrecl=20;
  input @3 ucc $6.  @10 gift $1.
       @15 line$6.;
      if gift='2';
      run;
```

Income compared to outlays

```
*-----------------------------------------------------------------------;
*Assign line code for repayment of vehicle loan principal payments;
*This is the same code used for principal payments on property mortgages;
*Data below includes payments for nonfinanced vehicles (net outlays),
      cash downpayment on financed vehicles, and
      principal payments on financed vehicles;
*These expenditures will subsititute for net outlays on vehicles;
*-----------------------------------------------------------------------;
data x;
input ucc $ 1-6 line $ 8-13;
cards;
870101 144500
870102 144500
870104 144500
870201 144500
870202 144500
870204 144500
870301 144500
870302 144500
870304 144500
870401 144500
870402 144500
870404 144500
870501 144500
870502 144500
870504 144500
870605 144500
870606 144500
870608 144500
870701 144500
870702 144500
870704 144500
870801 144500
870802 144500
870804 144500
run;
data agfile2;
set agfile x;
proc sort data=agfile2;
by ucc;
run;
*-----------------------------------------------------------------------;
*Attach CEX agg scheme to summarized consumption data;
*Consumption data from program - Create Alt Consumption Data Set;
*-----------------------------------------------------------------------;
%macro loop;
%do x = 1 %to 7;
Proc SQL noprint;
create table work.consumptionbyline as
select *
  from  altcons.consumption&x, agfile2
  where consumption&x..ucc = agfile2.ucc;
  quit;

*Restrict data to items in total consumption plus principal payments;
*Drop net outlays on vehicles;
*Drop pension and social security contribtions;

  data one;
  set consumptionbyline;
```

Income compared to outlays

```
  where line = '104500' or line='144500';
  if ucc in ('450110', '450210', '450220', '460110', '460901',
             '460902') then delete;
    if ucc in ('800910', '800920', '800931', '800932', '800940')
               then delete;
  run;

  proc sort;
  by  id;
  run;

  proc summary data=one;
  by id;
  var cost;
  output out=two sum=;
  run;

*Merge consumption file with pop file and weight consumption;

data extaxmdl.totalconsbyid&x;
merge two(in=a) z;
by id;
if cost = '.' then cost=0;
wcost = cost*fnlwgt;
if not a then delete;
drop _freq_ _type_ ;
run;
proc sort;
by id;

proc delete data=consumptionbyline;
run;
%end;
%mend Loop;
%Loop;
*-------------------------------------------------------------------------;
*Create table of total consumption by income category by imputation group;
*-------------------------------------------------------------------------;
data x;
merge extaxmdl.totalconsbyid1 (rename= wcost=exp1 drop= cost)
extaxmdl.totalconsbyid2 (rename= wcost=exp2 drop= cost)
extaxmdl.totalconsbyid3 (rename= wcost=exp3 drop= cost)
extaxmdl.totalconsbyid4 (rename= wcost=exp4 drop= cost)
extaxmdl.totalconsbyid5 (rename= wcost=exp5 drop= cost)
extaxmdl.totalconsbyid6 (rename= wcost=exp6 drop= cost)
extaxmdl.totalconsbyid7 (rename= wcost=exp7 drop= cost);
by id;
run;

proc sort data=x;
by hhinc;
run;

proc summary data=x;
by hhinc;
var fnlwgt exp1 exp2 exp3 exp4 exp5 exp6 exp7;
format hhinc incfmtd.;
output out=xx sum=;
run;
```

Income compared to outlays

```
data xxx;
set xx;
array aveoutl {7} aveoutl1-aveoutl7;
array expend {7} exp1-exp7;
do i=1 to 7;
aveoutl{i}=expend{i}/fnlwgt;
end;
label aveoutl1 = 'Average Outlay 1'
aveoutl2 = 'Average Outlay 2'
aveoutl3 = 'Average Outlay 3'
aveoutl4 = 'Average Outlay 4'
aveoutl5 = 'Average Outlay 5'
aveoutl6 = 'Average Outlay 6'
aveoutl7 = 'Average Outlay 7';
run;

Title1  h=3 c=black  'Average Outlays by Income Category';
footnote h=1 j=l 'Washington Excise Tax Microsimulation Model'
j=r 'April 15, 2002';
proc print data=xxx noobs labels;
var hhinc aveoutl1-aveoutl7;
format hhinc incfmtd.;
format aveoutl1-aveoutl7 comma10.;
run;

*-----------------------------------------------------------------------;
*Create table of total consumption by income category for all imputation
groups;
*-----------------------------------------------------------------------;
data w;
set extaxmdl.totalconsbyid1 (drop= cost)
extaxmdl.totalconsbyid2 (drop= cost)
extaxmdl.totalconsbyid3 (drop= cost)
extaxmdl.totalconsbyid4 (drop= cost)
extaxmdl.totalconsbyid5 (drop= cost)
extaxmdl.totalconsbyid6 (drop= cost)
extaxmdl.totalconsbyid7 (drop= cost);
run;

proc sort data=w;
by hhinc;
run;

proc summary data=w;
by hhinc;
var fnlwgt wcost;
format hhinc incfmtd.;
output out=ww sum=;
run;

data www;
set ww;
aveoutl=wcost/fnlwgt;
label aveoutl='Average Outlays';
run;

Title1 h=3 c=black  'Average Outlays by Income Category';
Title2 h=2 "Average for all Imputation Groups";
footnote h=1 j=l 'Washington Excise Tax Microsimulation Model'
j=r 'April 15, 2002';
```

Income compared to outlays

```
proc print data=www noobs labels;
var hhinc aveoutl;
format hhinc incfmtd.;
format aveoutl comma10.;
run;
```