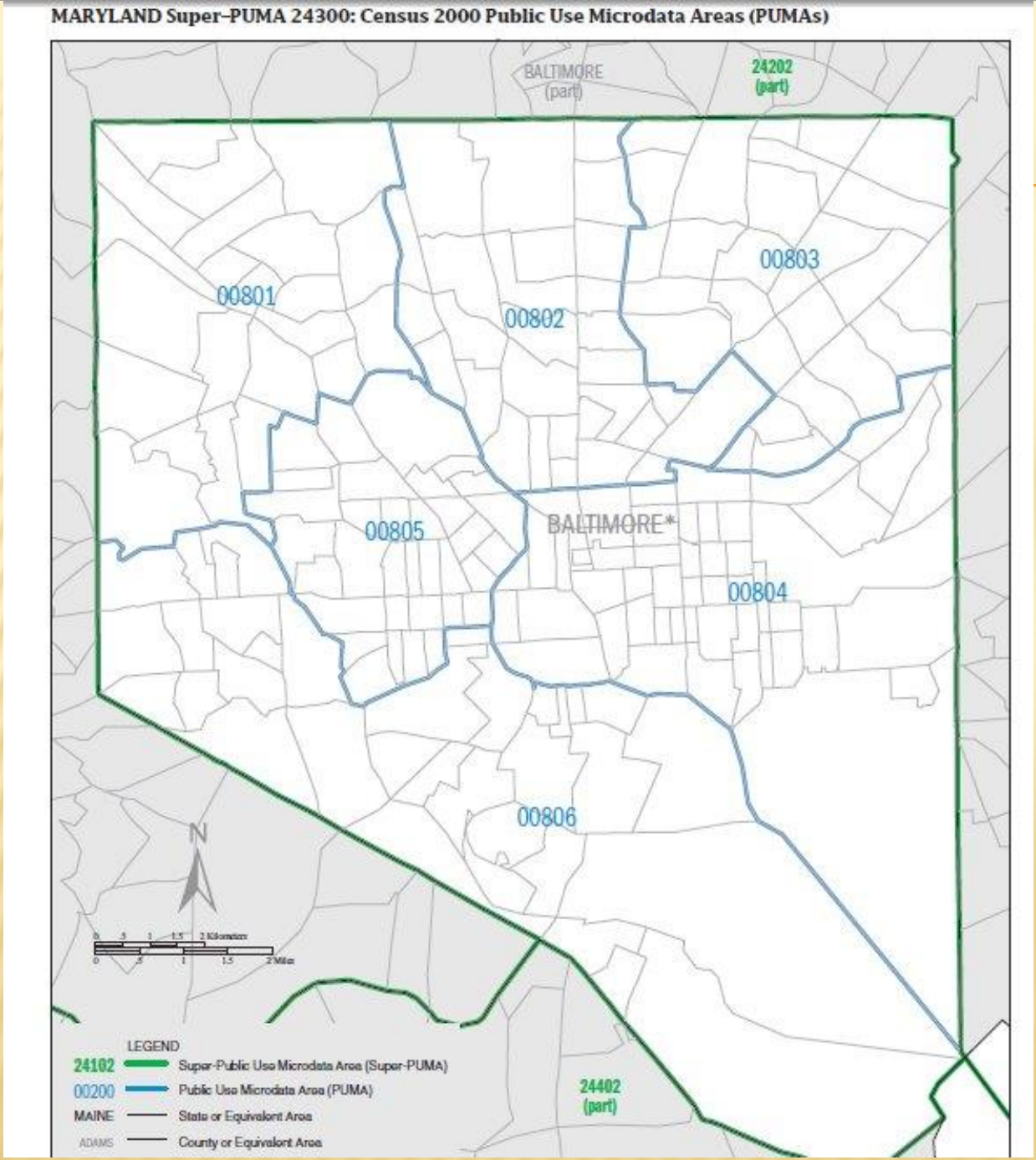
ACS
USING PUBLIC USE MICRODATA FILES

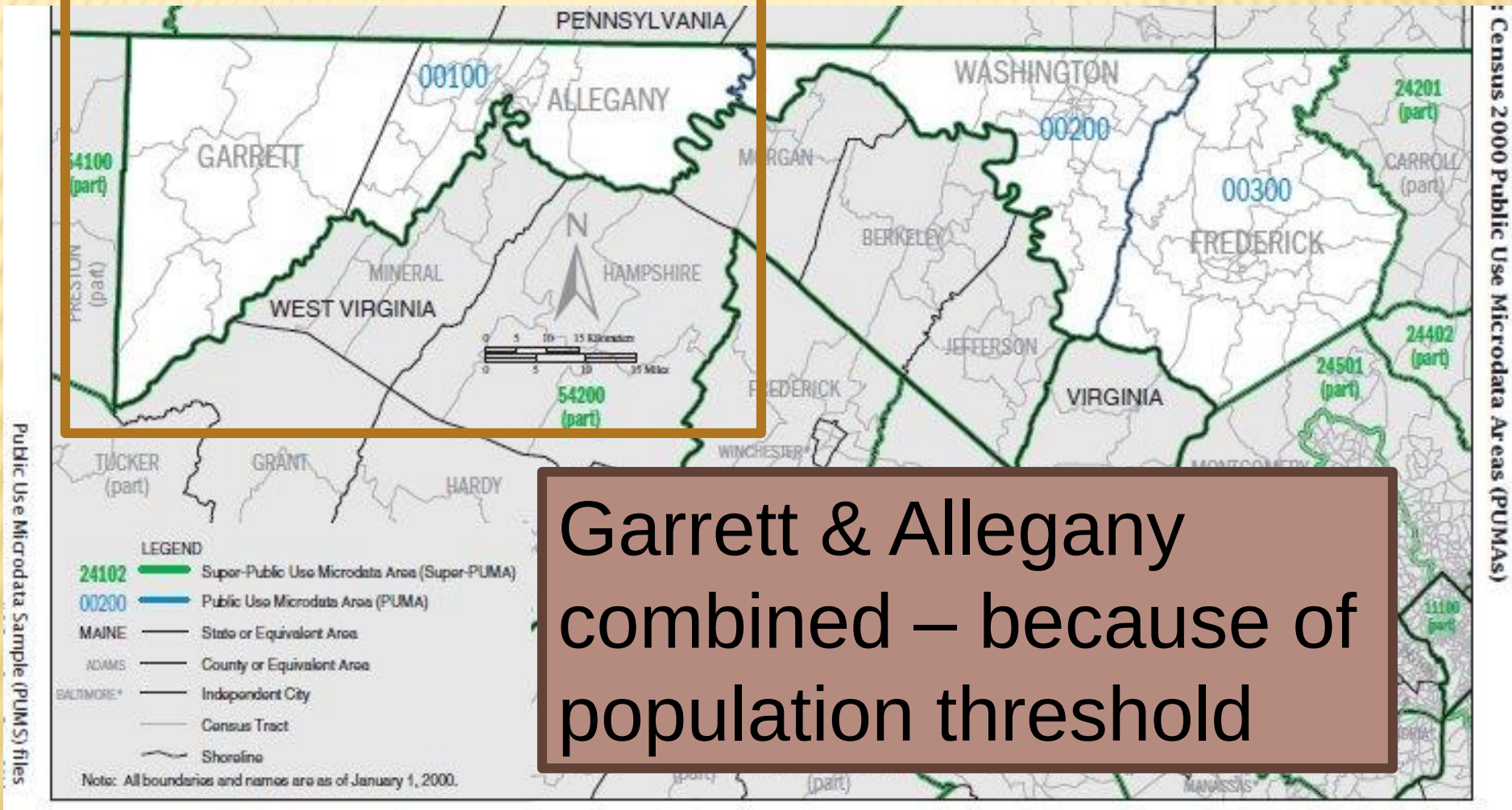
WHAT IS PUMS?

- Public Use Microdata Sample – sample file of unaggregated raw data with no identifying information about an individual person or household (no addresses, names, etc)
- PUMAS - Statistical areas of 100,000 or more population
- State Data Centers with support of the community define PUMAS
- Will be redefined in Summer of 2011



Census 2000 PUMAS for Baltimore City

Western MD PUMAS



Garrett & Allegany combined – because of population threshold

WHY USE MICRODATA FILES?

- Aggregated data – such as the tables found in FactFinder are not sufficient; you need additional detail for characteristics –do it yourself tabulations
- May have less detail for geography however

WAYS TO PROCESS ACS MICRODATA

- Download the microdata file from FactFinder and use statistical software (SAS,SPSS,etc.)
- Use an online microdata application such as:
  - IPUMS (Integrated Public Use Microdata Series from the MN Population Center)
  - DataFerrett – US Census Bureau

POPULATION FINDER
FACT SHEET
PEOPLE
HOUSING
BUSINESS AND GOVERNMENT
ABOUT THE DATA
DATA SETS
- Decennial Census
- American Community Survey
- Puerto Rico Community Survey
- Annual Population Estimates
- Economic Census
- Annual Economic Surveys

DOWNLOAD CENTER
MAPS
TOOLS AND REFERENCES

Main ▸ Data Sets

AMERICAN COMMUNITY SURVEY

Load Query | Clear all selections

The American Community Survey is a nationwide survey designed to provide communities a fresh look at how they are changing. The Puerto Rico Community Survey is the equivalent of the American Community Survey for Puerto Rico. more...

2008 Quick Guide | Errata Notes

Other Resources

- American Community Survey Main Page
- Quality Measures
- Public Use Microdata Sample (PUMS) - download data and view documentation
- Download Center
- Download 1996-2004 data via FTP

Explain Table and Map Formats

2008

2006-2008 American Community Survey 3-Year Estimates

- Data from the American Community Survey and the Puerto Rico Community Survey
- Collected during calendar years 2006, 2007 and 2008
- Available for geographic areas with populations of **20,000** or more

Explain 1-year vs. 3-year estimates

2008 American Community Survey 1-Year Estimates

- Data from the American

Select from the following:

Data Profiles
Selected Population Profiles
Subject Tables
Detailed Tables
Geographic Comparison Tables
Thematic Maps
Reference Maps

Custom Table

Enter a table number
List all tables
List all maps
Download PUMS data

Use it for GOOD -- never for EVIL

http://usa.ipums.org/usa/

MINNESOTA POPULATION CENTER, UNIVERSITY OF MINNESOTA

IPUMS USA

HOME DATA VARIABLES SAMPLES DOCUMENTATION SEARCH

IPUMS-USA Registration

- Login
- Apply for access
- View application form (without applying)
- Reset password (forgot password)

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IPUMS Extraction System logout

Create a New Extract

Extract Options help

- (•) Standard Interface
- ( ) Simplified Interface (offers fewer samples, variables, and extraction options)

Sample Density help

- (•) Regular — Most of the regular samples are 1% but the density of these samples varies. Refer to the online documentation for more information.
- ( ) Small — Small samples contain approximately 50,000 adults and their households.

Sample Selection List help

- ( ) Only the most commonly requested samples
- (•) All of the available samples

Continue to Sample Selection

IPUMS Extraction System logout

Sample Selection

Continue to Variable Selection

Extract File Type

help

- (•) Rectangular
- ( ) Hierarchical
- ( ) Household records only

Sam

- [ ] 2003 ACS sample
- [ ] 2004 ACS sample
- [ ] 2005 ACS sample
- [ ] 2005 PRCS sample
- [ ] 2006 ACS sample
- [ ] 2006 PRCS sample
- [ ] 2007 ACS sample
- [ ] 2007 PRCS sample
- [ ] 2005-2007, ACS 3-year sample
- [ ] 2005-2007, PRCS 3-year sample
- [ ] 2008 ACS sample
- [ ] 2008 PRCS sample
- [ ] 2006-2008, ACS 3-year sample
- [ ] 2006-2008, PRCS 3-year sample

Continue to Variable Selection

Selecting the number of rooms by heating costs

Technical Variables (Household)

top

Detailed Version	General Version	Variable	Label	Case Selection	2008
☑		YEAR	Census year		x
☐		MULTYEAR	Actual year of survey, multi-year ACS/PRCS		ℹ
☐		DATANUM	Data set number		x
☐		SERIAL	Household serial number		x
☐		NUMPREC	Number of person records following	☐	x
☐		SUBSAMP	Subsample number	☐	x
☑		HHWT	Household weight		x
☐		HHTYPE			
☐		REPWT			
☐		ADJUST			

Geographic Variables (Household)

top

Detailed Version	General Version	Variable	Label	Case Selection	2008
☐		REGION	Census region and division	☐	ℹ
☐		STATEICP	State (ICPSR code)	☐	x
☑		STATEFIP	State (FIPS code)	☑	x
☐		METRO	Metropolitan status	☐	ℹ
☐	☐	METAREA	Metropolitan area	☐	x
☐		CITY	City	☐	ℹ
☐		CITYPOP	City population		ℹ
☑		PUMA	Public Use Microdata Area		x
☐		PUMASUPR	Super Public Use Microdata Area		x

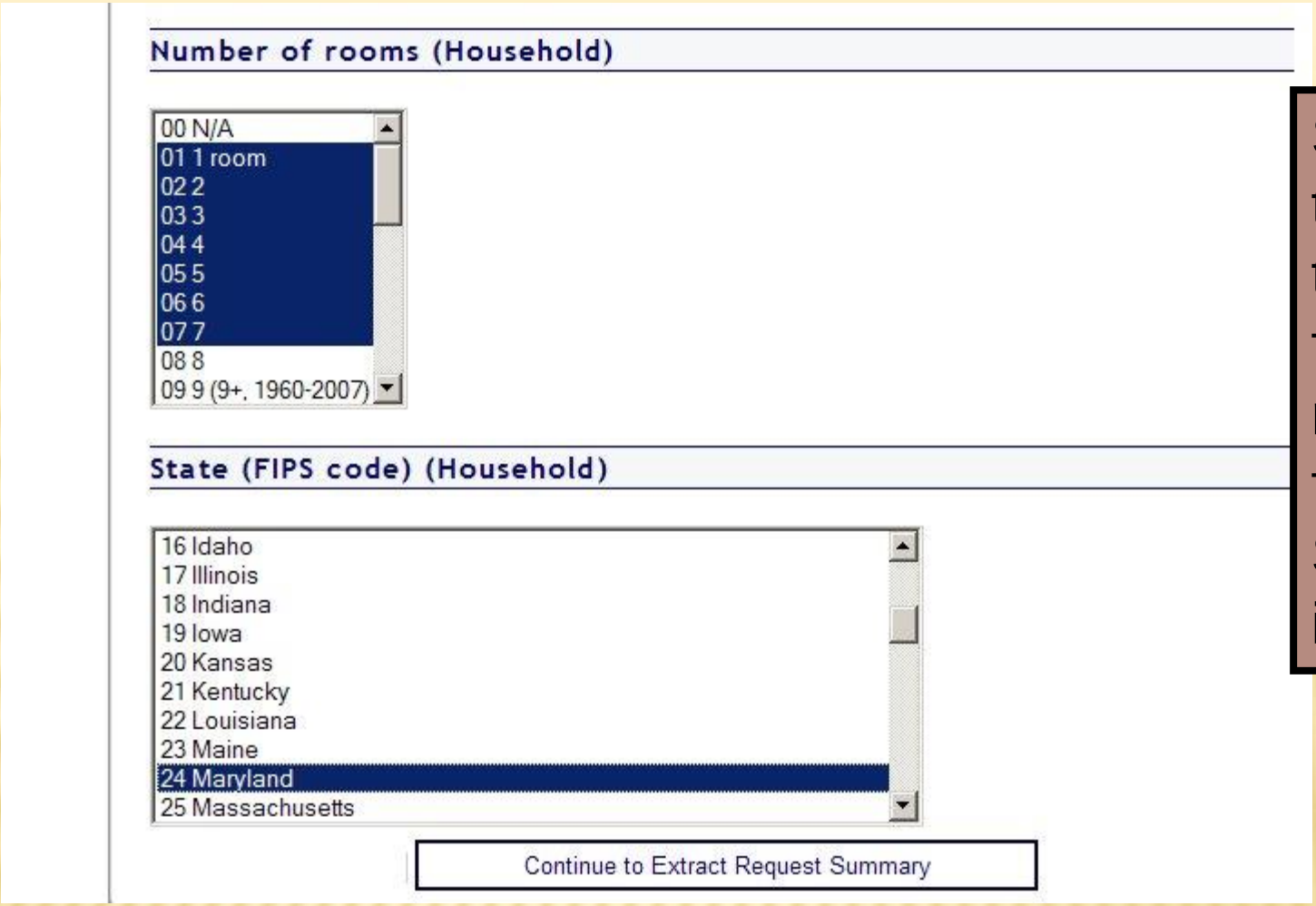
☐		MOBLHOME	Annual mobile home costs		x
☐		COSTELEC	Annual electricity cost		x
☐		COSTGAS	Annual gas cost		x
☐		COSTWATR	Annual water cost		x
☑		COSTFUEL	Annual home heating fuel cost		x
☐		HHINCOME	Total household income		x
☐		FOODSTMP	Food stamp recipiency	☐	x
☐		VALUEH	House value		x
☐	All Economic Characteristic Variables				

Dwelling Characteristic Variables (Household)

top

Detailed Version	General Version	Variable	Label	Case Selection	2008
☐		LINGISOL	Linguistic isolation	☐	x
☐		VACANCY	Vacancy status	☐	x
☐		KITCHEN	Kitchen or cooking facilities	☐	x
☐		PROBAPI	Probability of Asian/Pacific Islander race response	☐	
☐		PROBBLK	Probability of black race response	☐	
☐		PROBOTH	Probability of 'other race' race response	☐	
☐		PROBWHT	Probability of white race response	☐	
☐	All Other Variables				

Continue



Selecting the cases to include for # of rooms and for the State of interest

A review of the file selected; the variables chosen and an opportunity to make a change if you need to

2006-2008, ACS 3-year sample Regular

Extract File Type

rectangular

Variables and Case Selection

Type	Variable	Label	Case Selection
H	YEAR	Census year	--
H	HHWT	Household weight	--
H	STATEFIP	State (FIPS code)	details
H	PUMA	Public Use Microdata Area	--
H	COSTFUEL	Annual home heating fuel cost	--
H	ROOMS	Number of rooms	details
P	PERWT	Person weight	--

Case selection method: Include only those persons meeting case selection criteria.

If you would like to make changes to your extract request...

Change Density Selection

Change Variable Selection

Change Sample Selection

Change Case & Flag Selection

If your extract request is complete...

IPUMS Extraction System logout

Confirmation

Your extract request **00019** has been submitted.

You will be notified by e-mail at **jtraynham@mdp.state.md.us** when it has been created.

When your extract is ready, download the data, codebook, and command files for your statistical software.

IPUMS Extraction System logout

Download or Revise Extracts

Use the links provided below to download a data extract (right-click the links for the data, command files, and codebook) or to revise an extract (that is, use a previous extract as the basis for defining a new extract). For instructions on downloading and opening a data extract on your computer go here. Note: data files will be available for 72 hours, after which they are subject to deletion.

Request	Created	Description	Data	Codebook	Command
00019	08-24-10	Example of heating costs by number of rooms - up to 7 rooms for SDC meeting	data	codebook	SPSS SAS STATA
00018	08-03-10	Revision of (Household income for baby boomers MD PUMAs)			

Zipped ASCII file

yr	hhwt	state code	PUMA	fuelcost	no.rooms	per wt
2008	2500	24	1004	9993	7	2600
2008	2500	24	1004	9993	7	2600
2008	2500	24	1004	9993	7	2600
2008	2500	24	1004	9993	7	2800
2008	2500	24	1004	9993	7	2800
2008	2500	24	1004	9993	7	2600
2008	4100	24	901	9993	3	4100
2008	4100	24	901	9993	3	3700
2008	2300	24	1500	534	6	2200
2008	2300	24	1500	534	6	2500
2008	2000	24	100	9993	7	2000
2008	2000	24	100	9993	7	2500
2008	2300	24	1104	9993	4	2200
2008	2300	24	1004	9993	4	2300
2008	2300	24	1004	9993	4	3500
2008	3100	24	601	9993	5	3100
2008	3100	24	601	9993	5	3100
2008	1100	24	200	9993	6	1100
2008	1100	24	200	9993	6	1400
2008	1100	24	200	9993	6	1500

Initial file from IPUMS is available in either SAS, SPSS or ASCII

This file was converted to EXCEL and has over 98,000 records

Implied 2 decimal pts, ie 25.00 not 2500 wt per hh

Pros: easy to use, but ultimately need expertise in SAS/SPSS or database software to be able to “collapse” categories within PUMAs

Cons: can not easily”recode” or aggregate variables or geographies; need to submit data request and wait to receive the completed file – which is normally only a few minutes, but may need to do this several times to “get it right”

yr	hhwt	PUMA	fuelcost	no.rooms
2008	6600	100	9993	1
2008	6900	100	9993	1
2008	7800	100	9993	1
2008	2100	100	9993	1
2008	2100	100	9993	1
2008	6600	100	9993	1
2008	2000	100	9997	1
2008	4200	100	9993	1
2008	1000	100	9993	1
2008	3600	100	9993	1
2008	3600	100	9993	1
2008	3600	100	9993	1
2008	3600	100	9993	1
2008	7800	100	9993	1
2008	7800	100	9993	1
2008	7800	100	9993	1
2008	700	100	9993	1
2008	16800	100	9997	1
total	946			

PUMA 100 (Alle/Garr co); 1 room – all have either no charge or no solid fuel used or their fuel is included in their rent or condo fee

16 households with no chg/no fuel; 2 w/ fuel included in rent or condo fee

Codes

0000 = N/A

0002 = $1 or $2 (2000)

9993 = no charge or no solid or liquid fuel used (2003-2007 ACS)

9997 = fuel included in rent or in condo fee (2003-2007 ACS)

yr	hhwt	PUMA	fuelcost	no.rooms
2008	6600	100	9993	1
2008	6900	100	9993	1
2008	7800	100	9993	1
2008	2100	100	9993	1
2008	2100	100	9993	1
2008	6600	100	9993	1
2008	2000	100	9997	1
2008	4200	100	9993	1
2008	1000	100	9993	1
2008	3600	100	9993	1
2008	3600	100	9993	1
2008	3600	100	9993	1
2008	3600	100	9993	1
2008	7800	100	9993	1
2008	7800	100	9993	1
2008	7800	100	9993	1
2008	700	100	9993	1
2008	16800	100	9997	1
total	946			18

18 * 946 = 17,028 units in Allegany & Garrett that are 1 room that do not pay a separate bill for heating costs

*note: does not include analysis for Margins of Error

DATAFERRETT – U.S. CENSUS BUREAU

U.S. Census Bureau

People | Business | Geography | Newsroom | Subjects A to Z | Search@Census

data: (da • ta) n. a collection of facts from which conclusions may be drawn

Click Here to Launch BETA

DATAFERRETT!

ferret: (fer' • it) v. To uncover and to bring to light by searching; to search intensively

TheDataWeb is a site to support and promote organizational and multi-agency collaborative efforts to enhance the DataFerrett project

- What is DataFerrett
- Datasets Available
- FAQs

- What is TheDataWeb

- DataFerrett HelpDesk:
  Toll Free: 866-437-0171
- DataFerrettTeam Email:
  dsd_ferrett@census.gov

- DataFerrett Video

Welcome to the DataFerrett for TheDataWeb

DataFerrett is a unique data analysis and extraction tool—with recoding capabilities—to customize federal, state, and local data to suit your requirements. (FERRETT stands for Federated Electronic Research, Review, Extraction, and Tabulation Tool.) Using DataFerrett, you can develop an unlimited array of customized spreadsheets that are as versatile and complex as your usage demands.

The DataFerrett helps you locate and retrieve the data you need across the Internet to your desktop or system, regardless of where the data resides.

You can then develop and customize tables. Selecting your results in your table you can create a chart or graph for a visual presentation into an html page. Save your data in the databasket and save your table for continued reuse.

The DataFerrett is a **Beta** testing version that will incorporate the latest bug fixes, enhancements,

Get Data ~ Run:

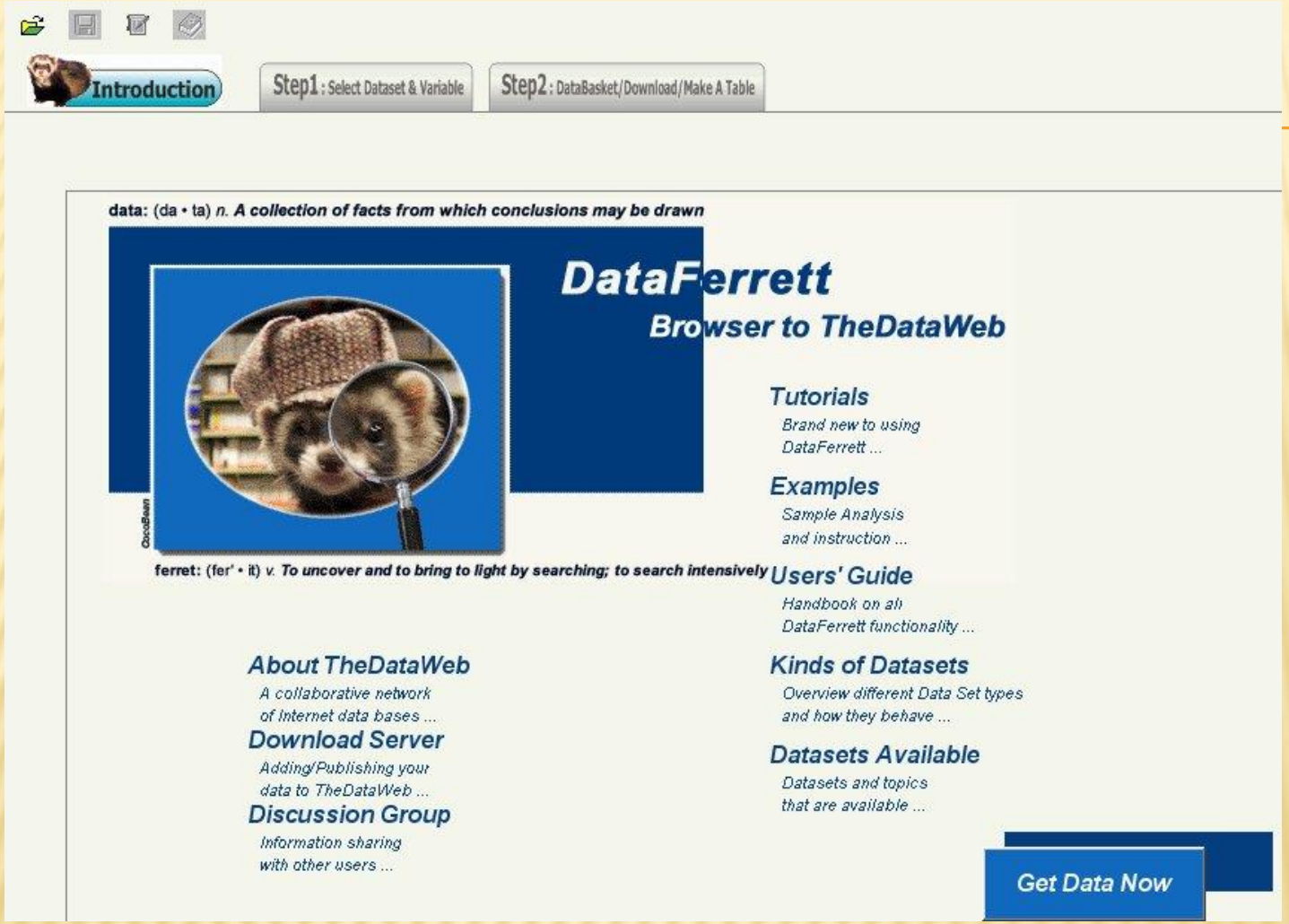
Launch BetaDataFerrett

- Troubleshooting
- 1st time only:
  Run SecurityPolicy

- Production DataFerrett Application
  We recommend using beta

- QuickTour
- Tutorials
- Users' Guide
- Advanced Topics
- Use Examples
- Types of Datasets

http://dataferrett.census.gov/



Example selecting specific ages for householders (reference person) by home ownership

Introduction

Step1 : Select Dataset & Variable

Step2 : DataBasket/Download/Make A Table

Select Data Types:

- MicroData
- Aggregate Data
- Longitudinal Data
- Time Series Data

Refresh Dataset List

Microdata is data in which every record is at the unit of analysis level and all records must be added up to get the totals for each data item. For example, for surveys of individuals, microdata contain records for each individual interviewed; for surveys of organizations, the microdata contain records for each organization.

Variable ☉ ☑ Labels ☐ Names ☐ Topics ☐ Question Text ☐ Values

match ANY word ○ match ALL words

Search

Instructions

Empty DataBasket

Select Dataset(s) to search:

Search All Datasets

Highlight the variables you are interested in

Browse/Select

Select Dataset(s) to search:

Search All Datasets

- American Community Surve
  - 3-Year Estimates - Publ
    - 2006-2008
    - 2005-2007
  - 3-Year Estimates - Puer
  - Public Use Microdata Sa
    - 2008
    - 2007
    - 2006
    - 2005
    - 2004
  - Puerto Rico Public Use M
- American Housing Survey
- Common Core of Data(Educ
- Consumer Expenditure Surv
- County Business Patterns
- Current Population Survey
- Decennial Census of Popula
- Decennial Public Use Microd
- Home Mortgage Disclosure
- Mortality

Highlight the variables you are interested in

0 Variables returned from search. 0 variables selected in DataBasket.

Browse/Select Highlighted Variables

Select All Topics

- ☑ Housing
- ☑ Selectable Geographies
- ☑ Population
- ☐ Geographic Entities

Search Variables

Topic	Name	Availability	Variable Label
Housing	WGTP	2006-2008 - 2006-2008	Housing Weight
Population	PWGTP	2006-2008 - 2006-2008	Person's weight
Housing	ACR	2006-2008 - 2006-2008	Lot size
Housing	ADJHSG	2006-2008 - 2006-2008	Adjustment factor for housing dollar amounts (6 implied decimal places)
Population	ADJINC	2006-2008 - 2006-2008	Adjustment factor for income and earnings dollar amounts (6 implied decimal places)
Population	AGEP	2006-2008 - 2006-2008	Age
Housing	AGS	2006-2008 - 2006-2008	Sales of Agriculture Products
Housing	PSF	2006-2008 - 2006-2008	Presence of subfamilies in Household
Selectable Geographies	Geography	2006-2008 - 2006-2008	Geographic Items
Population	RACWHT	2006-2008 - 2006-2008	White recode (White alone or in combination with one or more other races)
Population	RC	2006-2008 - 2006-2008	Related child
Population	REL	2006-2008 - 2006-2008	Relationship
Housing	RESMODE	2006-2008 - 2006-2008	Response mode
Housing	TAXP	2006-2008 - 2006-2008	Property taxes (yearly amount)
Housing	TEL	2006-2008 - 2006-2008	Telephone in Unit
Housing	TEN	2006-2008 - 2006-2008	Tenure
Housing	TYPE	2006-2008 - 2006-2008	Type of unit
Population	UWRK	2006-2008 - 2006-2008	Worked last week (UNEDITED - See"Employment Status Recode" (ESR))
Housing	VACS	2006-2008 - 2006-2008	Vacancy status

Variables selected – Housing weight; Age; Geography; Relationship in HH; Tenure (own/rent)

Click on

Browse/Select Highlighted Variables

Browse/Select Variables & Values

Your highlighted variables:

ACS WGTP (2006-2008 - 2006-2008) Housing Weight
ACS AGEP (2006-2008 - 2006-2008) Age
ACS TEN (2006-2008 - 2006-2008) Tenure

OK

Select ALL Variables

Select ACS WGTP Housing Weight

Housing Weight

0001 to 9999 Integer weight of housing unit

Ferrett Geography Codebook

Browse/Select Geographies

Select Geography Unit:

FIPS State Code ST State Code

FIPS State Code ST State Code
--Public Use Microdata Area (PUMA) PUMA Pu

Geographies Selected:

<Back | Next> | Delete | Cancel | Finish

Geographies>

Browse/Select Variables & Values

Your highlighted variables:

ACS WGTP (2006-2008 - 2006-2008) Housing Weight
ACS AGEP (2006-2008 - 2006-2008) Age
ACS REL (2006-2008 - 2006-
ACS TEN (2006-2008 - 2006

Select ALL Variables

Select ACS WGTP

Housing Weight

0001 to 9999 Integer weig

Additional Metadata Tags here

Ferrett Geography Codebook

Browse/Select ST

Select ST from list:

Delaware
District of Columbia
Florida
Georgia
Hawaii
Idaho
Illinois
Indiana
Iowa
Kansas
Kentucky
Louisiana
Maine
Maryland

ST Selected:

<Back | Next> | Delete | Cancel | Finish

Geographies>ST>

Values

Search

Instructions

Empty DataBasket

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(UNEDITED - See"Employment Status Recode" (ESR))

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Start | 2 Microsoft Office Outl... | BETA DataFerrett Applet... | Microsoft PowerPoint - [... | BETA DataFerrett - Be... | 2:48 PM

Ferrett Browse Variable

Browse/Select Variables & Values

Your highlighted variables:

ACS WGTP (2006-2008 - 2006-2008) Housing Weight
ACS AGEP (2006-2008 - 2006-2008) Age
ACS REL (2006-2008 - 2006-
ACS TEN (2006-2008 - 2006

OK

Select ALL Variables

Select ACS WGTP

Housing Weight

0001 to 9999 Integer weig

Additional Metadata Tags here

Ferrett Geography Codebook

Browse/Select Geographies

Select Geography Unit:

FIPS State Code ST State Code

FIPS State Code ST State Code

--Public Use Microdata Area (PUMA) PUMA Pu

Geographies Selected:

ST = Maryland

<Back | Next> | Delete | Cancel | Finish

Geographies>

Values

Instructions

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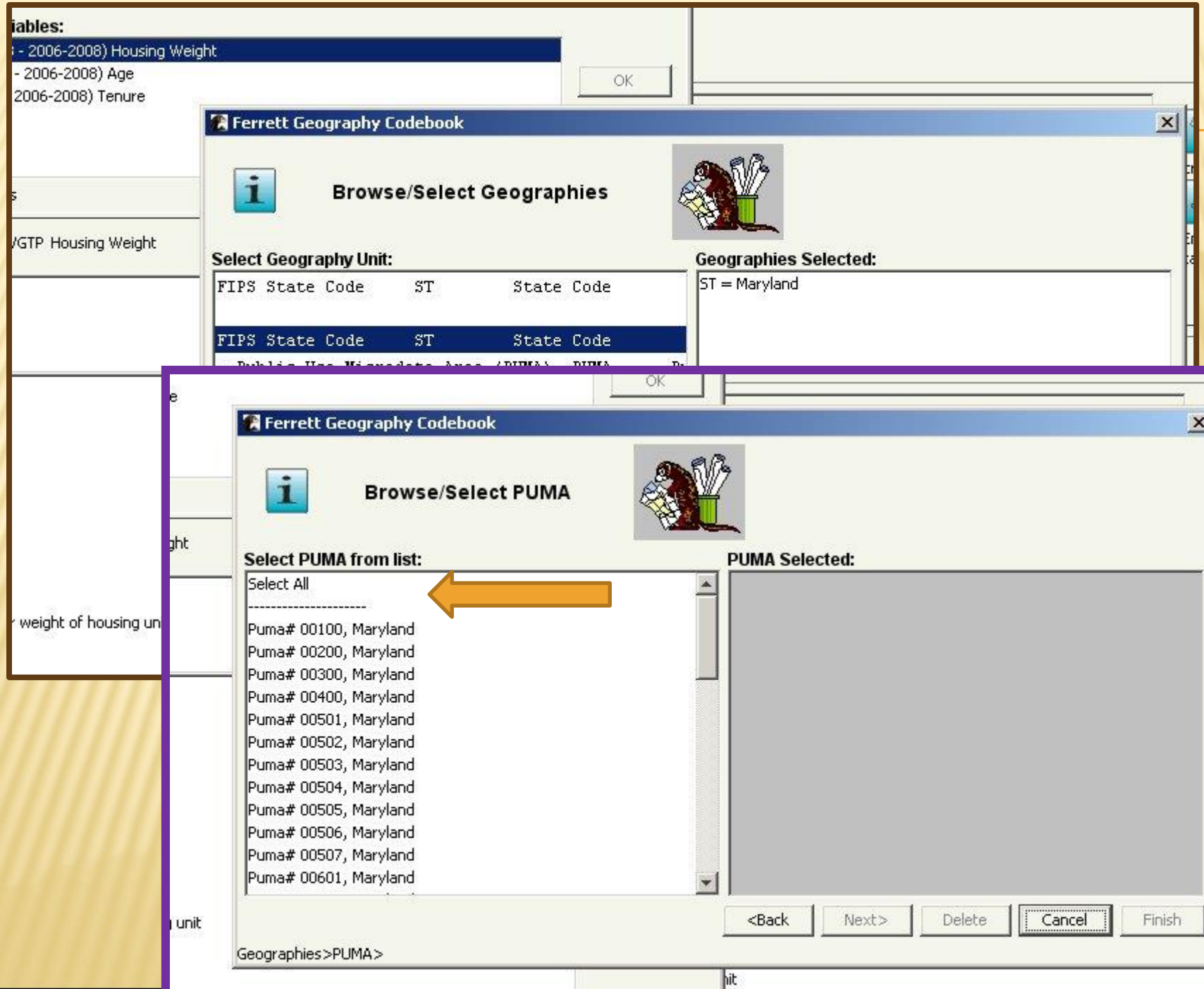
iables:
- 2006-2008) Housing Weight
- 2006-2008) Age
2006-2008) Tenure
OK
Ferrett Geography Codebook
Browse/Select Geographies
Select Geography Unit:
FIPS State Code ST State Code
FIPS State Code ST State Code
Geographies Selected:
ST = Maryland
OK
Ferrett Geography Codebook
Browse/Select PUMA
Select PUMA from list:
Select All

Puma# 00100, Maryland
Puma# 00200, Maryland
Puma# 00300, Maryland
Puma# 00400, Maryland
Puma# 00501, Maryland
Puma# 00502, Maryland
Puma# 00503, Maryland
Puma# 00504, Maryland
Puma# 00505, Maryland
Puma# 00506, Maryland
Puma# 00507, Maryland
Puma# 00601, Maryland
PUMA Selected:
<Back
Next>
Delete
Cancel
Finish
Geographies>PUMA>

Ferrett Browse Variable

Browse/Select Variables & Values

Your highlighted variables:

ACS WGTP (2006-2008 - 2006-2008) Housing Weight
ACS AGEP (2006-2008 - 2006-2008) Age
ACS REL (2006-2008 - 2006-
ACS TEN (2006-2008 - 2006

Select ALL Variables

Select ACS WGTP

Housing Weight

0001 to 9999 Integer weig

Additional Metadata Tags here

Ferrett Geography Codebook

Browse/Select PUMA

Select PUMA from list:

Select All

Puma# 00100, Maryland
Puma# 00200, Maryland
Puma# 00300, Maryland
Puma# 00400, Maryland
Puma# 00501, Maryland
Puma# 00502, Maryland
Puma# 00503, Maryland
Puma# 00504, Maryland
Puma# 00505, Maryland
Puma# 00506, Maryland
Puma# 00507, Maryland
Puma# 00601, Maryland

PUMA Selected:

Puma# 00100, Maryland
Puma# 00200, Maryland
Puma# 00300, Maryland
Puma# 00400, Maryland
Puma# 00501, Maryland
Puma# 00502, Maryland
Puma# 00503, Maryland
Puma# 00504, Maryland
Puma# 00505, Maryland
Puma# 00506, Maryland
Puma# 00507, Maryland
Puma# 00601, Maryland
Puma# 00602, Maryland
Puma# 00700, Maryland

<Back | Next> | Delete | Cancel | Finish

Click Next to add additional geographies or finish your selection.

Values

Instructions

Empty DataBasket

Search

ome past 12 months
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Start | 2 Microsoft Office Outl... | BETA DataFerrett Applet... | Microsoft PowerPoint - [... | BETA DataFerrett - Be... | 2:51 PM

Browse/Select Variables & Values

Your highlighted variables:

ACS WGTP (2006-2008 - 2006-2008) Housing Weight
ACS AGEP (2006-2008 - 2006-2008) Age
ACS REL (2006-2008 - 2006-2008) Relationship
ACS TEN (2006-2008 - 2006-2008) Tenure

OK
Cancel

Select ALL Variables

Select ACS AGEP Age

Age

00) Under 1 year

01) Year

46 to 64

Your highlighted variables:

ACS WGTP (2006-2008 - 2006-2008) Housing Weight
ACS AGEP (2006-2008 - 2006-2008) Age
ACS REL (2006-2008 - 2006-2008
ACS TEN (2006-2008 - 2006-2008

Select ALL Variables

Select ACS TEN Tenure

Tenure

0) N/A (GQ/vacant)

1) Owned with mortgage

2) Owned Free And Clear

3) Rented

ACS WGTP (2006-2008 - 2006-2008) Housing Weight
ACS AGEP (2006-2008 - 2006-2008) Age
ACS REL (2006-2008 - 2006-2008) Relationship
ACS TEN (2006-2008 - 2006-2008) Tenure

OK
Cancel

Select ALL Variables

Select ACS REL Relationship

Relationship

00) Reference person

01) Husband/wife

02) Son/daughter

03) Brother/sister

04) Father/mother

05) Grandchild

06) In-law

07) Other relative

Deselect all values

Unsort Ranges

BETA DataFerrett - Beta Beta Beta

File Edit View Options Special Help

Introduction | Step1 : Select Dataset & Variable | Step2 : DataBasket/Download/Make A Table

Review your variables then go back to select more variables or go on to get data

Download | Make A Table

Act on Your Query:

- Recode Variable(s)
- Delete Variable(s)
- Modify Variable(s)
- Advanced Sql Option
- Change Longitudinal Period
- Add TimeSeries Time

Current Query Variables:

Name	Variable Label	Availability
GEOG-105	Public Use Microdata Area (PUMA)	2006-2008 - 2006-2008
GEOG-106	FIPS State Code	2006-2008 - 2006-2008
AGEP	Age	2006-2008 - 2006-2008
RECODE1	ages 46-64	
PWGTP	Person's weight	
REL	Relationship	
TEN	Tenure	

Ferrett Microdata Recode2

Recode/Regroup Variables

Tell me about

Things on the screen

owned is label for the Variable Recode of TEN

Highlight the value(s) to recode/regroup

Description
Owned with mortgage or loan (include H
Owned Free And Clear

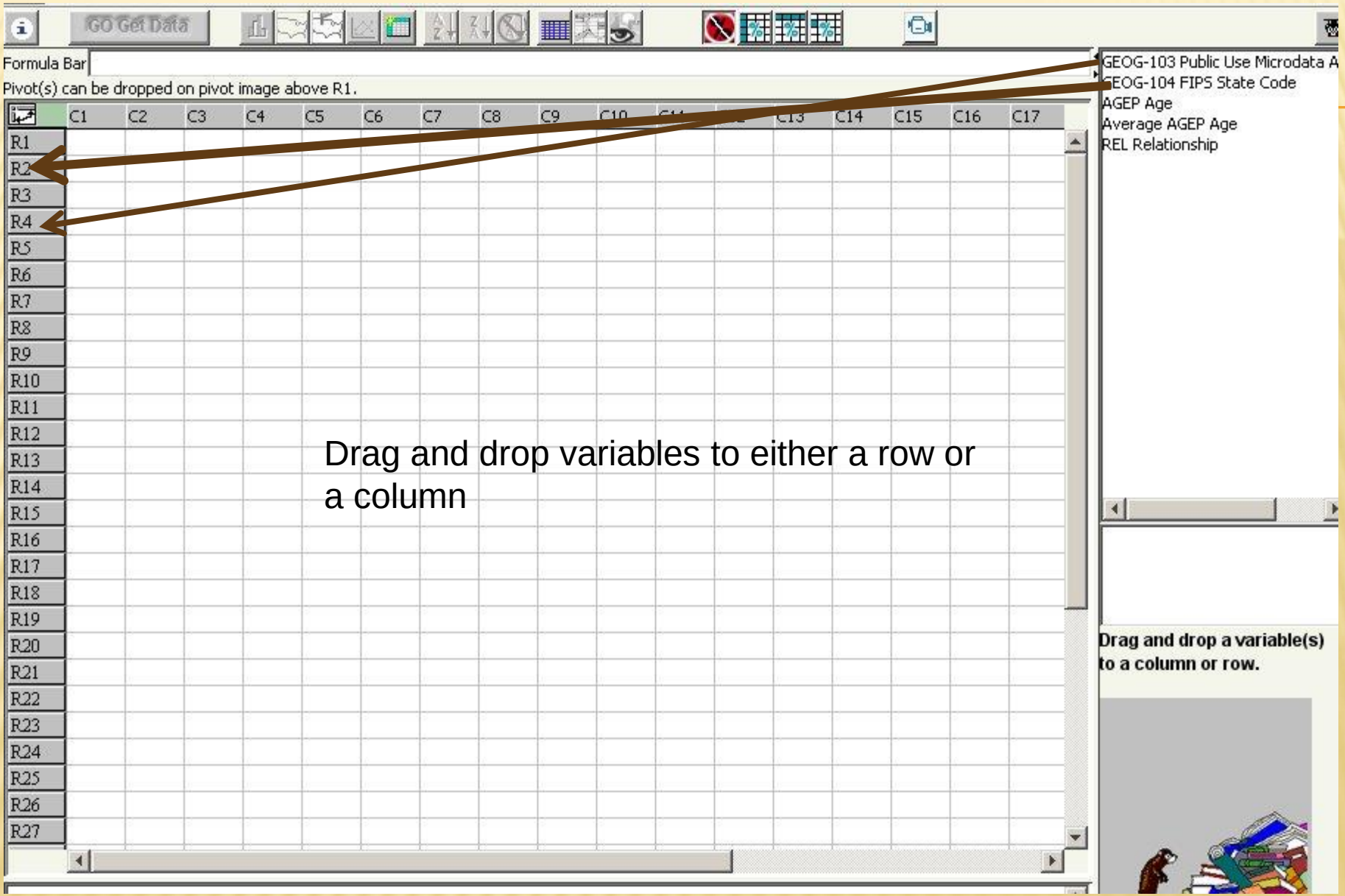
	Label	Values
1	owned	{1 ,2}

Set to value 1 Recode

Redefine Current Row

Ok Cancel

Recoding a variable – select “recode variable”; give it a label such as “owned”; highlight the two owner categories to form 1



Drag and drop variables to either a row or a column

Ferrett Tabulation

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GO Get Data

Formula Bar

Pivot(s) can be dropped on pivot image above R1.

	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C1
R1			Total RECODE3	Between 46 and 64									
R2	Total GEOG-108		?	?									
R3	Maryland		?	?									
R4	Total GEOG-107		?	?									
R5	Puma# 00100, Maryland		?	?									
R6	Puma# 00200, Maryland		?	?									
R7	Puma# 00300, Maryland		?	?									
R8	Puma# 00400, Maryland		?	?									
R9	Puma# 00501, Maryland		?	?									
R10	Puma# 00502, Maryland		?	?									
R11	Puma# 00503, Maryland		?	?									
R12	Puma# 00504, Maryland		?	?									
R13	Puma# 00505, Maryland		?	?									
R14	Puma# 00506, Maryland		?	?									
R15	Puma# 00507, Maryland		?	?									
R16	Puma# 00601, Maryland		?	?									
R17	Puma# 00602, Maryland		?	?									
R18	Puma# 00700, Maryland		?	?									
R19	Puma# 00801, Maryland		?	?									
R20	Puma# 00802, Maryland		?	?									
R21	Puma# 00803, Maryland		?	?									
R22	Puma# 00804, Maryland		?	?									
R23	Puma# 00805, Maryland		?	?									
R24	Puma# 00806, Maryland		?	?									
R25	Puma# 00901, Maryland		?	?									
R26	Puma# 00902, Maryland		?	?									
R27	Puma# 01001, Maryland		?	?									

GEOG-107 Public Use Microdata Ar
GEOG-108 FIPS State Code
AGEP Age
Average AGEP Age
RECODE1 ages 46-64
REL Relationship
TEN Tenure
RECODE2 owned
RECODE3 Recode3

Click to add notes

Ferrett Tabulation

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Col C6 =SUM(C10)

Pivot(s) can be dropped on pi

- ✔ Automatic Totals
- ✔ Automatic Cross Variable Explosion
- ✔ Create Thematic Maps
- List Mode
- Average across time
- ● Cumulative
- Percent
- Specify Sequence
- Variances
- Weighting
  - Unweighted
  - PWGTP
  - ● WGTP

	C1	C6	C7	C8	C9	C10	C1
		DE3	Between 46 and 64				
		RecodeValue_1	Total		RecodeValue_1		
R1		al Reference person	Total	Reference person	Total	Reference person	
R2	Total GEOG-108	? ?	?	?	?	?	
R3	Maryland	? ?	?	?	?	?	
R4	Total GEOG-107	? ?	?	?	?	?	
R5	Puma# 00100, Mary	? ?	?	?	?	?	
R6	Puma# 00200, Mary	? ?	?	?	?	?	
R7	Puma# 00300, Mary	? ?	?	?	?	?	
R8	Puma# 00400, Mary	? ?	?	?	?	?	
R9	Puma# 00501, Maryland	? ?	?	?	?	?	
R10	Puma# 00502, Maryland	? ?	?	?	?	?	
R11	Puma# 00503, Maryland	? ?	?	?	?	?	
R12	Puma# 00504, Maryland	? ?	?	?	?	?	
R13	Puma# 00505, Maryland	? ?	?	?	?	?	
R14	Puma# 00506, Maryland	? ?	?	?	?	?	
R15	Puma# 00507, Maryland	? ?	?	?	?	?	
R16	Puma# 00601, Maryland	? ?	?	?	?	?	
R17	Puma# 00602, Maryland	? ?	?	?	?	?	
R18	Puma# 00700, Maryland	? ?	?	?	?	?	
R19	Puma# 00801, Maryland	? ?	?	?	?	?	
R20	Puma# 00802, Maryland	? ?	?	?	?	?	
R21	Puma# 00803, Maryland	? ?	?	?	?	?	
R22	Puma# 00804, Maryland	? ?	?	?	?	?	
R23	Puma# 00805, Maryland	? ?	?	?	?	?	
R24	Puma# 00806, Maryland	? ?	?	?	?	?	
R25	Puma# 00901, Maryland	? ?	?	?	?	?	

GEOG-107 Public Use Microdata Ar
GEOG-108 FIPS State Code
AGEP Age
Average AGEP Age
RECODE1 ages 46-64
REL Relationship
TEN Tenure
RECODE2 owned
RECODE3 Recode3

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Slide 22 of 24 "Trek" 80%

Start | 6 Interne... | Microsoft P... | 2 Java(T... | 2 Microso... | ACSPUMS_... | 2 Microso... | Paint Shop ... | 4:15 PM

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(C3R1
Pivot(
t image above R1.

		C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
		Total RECODE3				Between 46 and 64					
		Total		Reference person		Total		Reference person			
		Total	RecodeValue_1	Total	RecodeValue_1	Total	RecodeValue_1	Total	RecodeValue_1		
R1											
R2		620,285	620,285	620,285	620,285	620,285	620,285	620,285	620,285		
R3		620,285	620,285	620,285	620,285	620,285	620,285	620,285	620,285		
R4		620,285	620,285	620,285	620,285	620,285	620,285	620,285	620,285		
R5	nd	11,012	11,012	11,012	11,012	11,012	11,012	11,012	11,012		
R6	nd	13,428	13,428	13,428	13,428	13,428	13,428	13,428	13,428		
R7	nd	26,173	26,173	26,173	26,173	26,173	26,173	26,173	26,173		
R8	nd	21,136	21,136	21,136	21,136	21,136	21,136	21,136	21,136		
R9	nd	17,496	17,496	17,496	17,496	17,496	17,496	17,496	17,496		
R10	nd	12,205	12,205	12,205	12,205	12,205	12,205	12,205	12,205		
R11	Puma# 00503, Maryland	12,546	12,546	12,546	12,546	12,546	12,546	12,546	12,546		
R12	Puma# 00504, Maryland	11,363	11,363	11,363	11,363	11,363	11,363	11,363	11,363		
R13	Puma# 00505, Maryland	12,253	12,253	12,253	12,253	12,253	12,253	12,253	12,253		
R14	Puma# 00506, Maryland	10,623	10,623	10,623	10,623	10,623	10,623	10,623	10,623		
R15	Puma# 00507, Maryland	11,320	11,320	11,320	11,320	11,320	11,320	11,320	11,320		
R16	Puma# 00601, Maryland	18,335	18,335	18,335	18,335	18,335	18,335	18,335	18,335		
R17	Puma# 00602, Maryland	11,371	11,371	11,371	11,371	11,371	11,371	11,371	11,371		
R18	Puma# 00700, Maryland	12,616	12,616	12,616	12,616	12,616	12,616	12,616	12,616		
R19	Puma# 00801, Maryland	8,415	8,415	8,415	8,415	8,415	8,415	8,415	8,415		
R20	Puma# 00802, Maryland	9,363	9,363	9,363	9,363	9,363	9,363	9,363	9,363		
R21	Puma# 00803, Maryland	11,466	11,466	11,466	11,466	11,466	11,466	11,466	11,466		
R22	Puma# 00804, Maryland	7,669	7,669	7,669	7,669	7,669	7,669	7,669	7,669		
R23	Puma# 00805, Maryland	5,488	5,488	5,488	5,488	5,488	5,488	5,488	5,488		
R24	Puma# 00806, Maryland	7,785	7,785	7,785	7,785	7,785	7,785	7,785	7,785		
R25	Puma# 00901, Maryland	17,415	17,415	17,415	17,415	17,415	17,415	17,415	17,415		

GEOG-107 Public Use Microdata Ar
GEOG-108 FIPS State Code
AGEP Age
Average AGEP Age
RECODE1 ages 46-64
REL Relationship
TEN Tenure
RECODE2 owned
RECODE3 Recode3

Universe: ((AGEP be
Weight used: WGTP
DataSet(s) selecte

Click to add notes

Slide 24 of 24 "Trek" 82%

Start 6 Interne... Microsoft P... 2 Java(T... 2 Microso... ACSPUMS_... 2 Microso... Paint Shop ... 3:51

	Total 46-64				Percent			
	Total	owned	SE	90% CI	owned	SE	90% CI	R
Maryland	790,911	620,285	6007	9,881	78.4%	0.4%	0.7%	
Alle,Garr	13,693	11,012	818	1,345	80.4%	3.1%	5.1%	
Anne Arundel	73,402	62,179	1858	3,056	84.7%	1.2%	2.0%	
Baltimore City	84,535	50,186	1808	2,975	59.4%	1.5%	2.5%	
Baltimore Co.	111,560	87,806	2283	3,756	78.7%	1.1%	1.8%	
Calvert, St. Mary's	24,788	21,277	1091	1,795	85.8%	2.0%	3.3%	
Caroline,Dorc,QA,Talb	20,855	17,117	998	1,642	82.1%	2.4%	4.0%	
Carroll	23,730	21,136	1058	1,740	89.1%	1.8%	3.0%	
Cecil,Kent	15,477	12,616	863	1,419	81.5%	2.8%	4.7%	
Charles	17,586	15,583	939	1,544	88.6%	2.2%	3.6%	
Frederick	31,367	26,173	1213	1,996	83.4%	1.9%	3.1%	
Harford	34,929	29,706	1283	2,111	85.0%	1.7%	2.9%	
Howard	39,991	34,181	1365	2,245	85.5%	1.6%	2.6%	
Montgomery	140,395	113,520	2505	4,121	80.9%	1.0%	1.6%	
Prince George's	118,432	87,471	2264	3,724	73.9%	1.2%	1.9%	
Some, Wico,Worc	22,117	16,894	1021	1,679	76.4%	2.6%	4.3%	
Washington	18,054	13,428	918	1,510	74.4%	3.0%	4.9%	

Copy spreadsheet from DataFerrett into blank Excel file , insert your calculations for SE and MOE