



**Preliminary Release of the
Public Use Microdata Sample of the
1860 U.S. Census of Slave Inhabitants:
User's Guide**

by

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Introduction to the User's Guide

This document describes the design and characteristics of the public use microdata sample of the 1860 U.S. Census of Slave Inhabitants. The project was conducted at the Minnesota Population Center of the University of Minnesota, with funding provided by the National Institute of Child Health and Human Development (Grant number R01 HD34572).

The 1860 census consisted of two population schedules. Schedule 1, which enumerated the free inhabitants of the United States, recorded each person's name, age, sex, color, occupation (for persons over age 15), value of real estates owned, value of personal estate, place of birth, whether married in year previous to the census, whether attended school in year previous to the census, literacy (for persons over age 20), and whether deaf and dumb, blind, insane, idiotic, pauper or convict. Dwellings and families were numbered in order of visitation. Using surname and position in household, it is possible to infer family relationships and construct inter-household variables. A public use microdata sample of the free inhabitants is available at <http://www.ipums.org>.

Schedule 2, which enumerated the slave inhabitants of the United States, was much more limited in the number of questions asked. Names of slaves were not recorded (with the exception of slaves over 100 years of age). The census noted only the age, sex, and color of each slave, and whether deaf, dumb, blind, insane, or idiotic. The census also recorded the name of each slaveholder, the number of slaves fugitive from the state, the number of slaves manumitted in the year previous to the census, and the number of slave houses. The lack of names and family numbers makes it impossible to infer family relationships. The lack of occupation, wealth, birthplace, and education questions further restricts the usefulness of the sample. Nevertheless, a public use microdata sample of the census of slave inhabitants will allow researchers to analyze slavery and slaveholding in much greater detail than is permitted by the 1860 published census data.

Sample Design

The 1860 public use sample of slave inhabitants includes complete data on slaves and slaveholders in 160 selected slaveholding counties and a 5-percent

random sample of slaves and slaveholders in all other slaveholding counties (see Appendix C for a map of all sampled and complete-count counties). The sample is analogous to existing public use microdata samples, which are simultaneously a sample of households and free individuals. Instead of the household, the sampling unit is the slave "holding"; that is, the slaves who were owned by a particular slave owner or holder. Some variables, such as state and county of residence, number of slave houses, and owner's name, are common to all slaves within the holding. Other variables, such as age, sex, race, and the various disabilities, are specific to individual slaves.

Given the slight differences between the slave schedules and the free population schedules, we followed a modified version of the general household selection rules used for the Integrated Public Use Microdata Series files of 1850, 1860, 1870, 1880, and 1920.

The sampling strategy is based on the manuscript page from the slave schedule. Each page contains 80 lines, which describes one or more slaves of a particular age, sex, color and disability. (Typically, each line contained information for only one slave.) We randomly generated a "window" of 4 sample points on every page (e.g., lines 24, 25, 26, and 27). To ensure that holdings had an equal probability of being included in the sample regardless of their size, they were entered only if a sample point fell on the line containing the first slave in the holding. When the sample point fell on any other line, the holding was skipped. If the holding was included, all slaves were entered. Under this procedure each holding and slave in the population had an equal probability of inclusion.

Sample Weights

Because the 1860 public use sample of slave inhabitants includes some complete-count counties and some 5% sampled counties, users **must** apply sample weights—see the variable WEIGHT in the data dictionary for column locations and details—to obtain representative statistics of the slave population.

All slaves residing in complete-count counties were assigned a weight of 1.0. The weight for slaves from sampled counties was calculated using the equation

$$x = \frac{[P(N) - P(A)]}{P(B)}$$

where x is the necessary sample weight, $P(B)$ is the number of slaves taken in sampled counties (167,821), $P(N)$ is the number of slaves enumerated by the census (3,953,742) and $P(A)$ is the number of slaves in the dataset from the complete-count counties (539,656). Solving the equation yields a sample weight of 20.3436.

Data Format

The dataset has a rectangular column-format structure. The unit of analysis is the individual slave. Since the file structure is rectangular, all holding-level variables—such as owner type and number of slave houses—are attached to all of the individual slaves within each holding.

Users making tabulations of any holding-level variables should therefore do so with caution. To make an accurate tabulation of the number of slaveholders, for instance, one would need to either select only the first slave record in each holding (using the variable SLAVENUM). Sample weights also must be applied.

The data dictionary on pages 5-16 provides variable descriptions, frequencies, column layouts, and coding schemes for all variables. Where possible, we have adopted IPUMS coding schemes

Data Dictionary

The data dictionary describes each variable in the sample. For each variable, the dictionary provides a universe statement and a description. In certain cases, additional user notes caution researchers against potential problems that some uses of the variable may entail.

Universe

The universe statement defines the population at risk for the given variable for each census year (i.e., who was asked the question, or to whom the question applies).

Codes and Frequencies

For most variables, a frequency table gives the value label for each code. The column numbers in the tables show the number of cases (frequencies) in each category. The frequency counts are unweighted; therefore, they do not accurately reflect the distribution for the general population. By applying

appropriate weights, all variables can be made representative of the general population.

Obtaining the Data

The data—in compressed ASCII format—documentation, and an SPSS syntax file with variable and value labels can be downloaded from the IPUMS website: <http://www.ipums.org/usa/samples.html>

Citation and Use of the Data

All persons are granted a limited license to use and distribute this documentation and the accompanying data, subject to the following conditions:

No fee may be charged for use or distribution. Publications and research reports based on the database must cite it appropriately. The citation should include the following:

Steven Ruggles and Matthew Sobek et. al.
Integrated Public Use Microdata Series: Version 2.0
Minneapolis: Historical Census Projects,
University of Minnesota, 1997

If possible, citations should also include the URL for the IPUMS site: <http://www.ipums.org>.

In addition, we request that users send us a copy of any publications, research reports, or educational material making use of the data or documentation. Printed matter should be sent to:

IPUMS
Minnesota Population Center
University of Minnesota
537 Heller Hall
261 19th Avenue South
Minneapolis, MN 55455

Send all electronic material to ipums@pop.umn.edu.

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Record Layout for the 1860 Slave Public Use Microdata Sample

Order	Variable	Variable Name	Width	Columns
1.	Census year	YEAR	2	1-2
2.	Dataset number	DATANUM	1	3-3
3.	Slave holding serial number	SERIAL	6	4-9
4.	Slave number within holding	SLAVENUM	3	10-12
5.	Sample weight	WEIGHT	9	13-21
6.	Microfilm reel number	REEL	4	22-25
7.	Microfilm page sequence number	PAGESEQ	1	26-26
8.	Microfilm page number	PAGENO	4	27-30
9.	Microfilm line number	LINE	3	31-33
10.	State ICPSR code	STATEICP	2	34-35
11.	County ICPSR code	COUNTY	4	36-39
12.	Place name	PLACE	50	40-89
13.	City name	CITY	4	90-93
14.	City population (incorporated places)	CITYPOP	6	94-99
15.	Day of Enumeration	ENUMDAY	2	100-101
16.	Month of Enumeration	ENUMNO	2	102-103
17.	Holding size	SIZEHOLD	4	104-107
18.	Blank (for future use)		4	108-111
19.	Complete count county	COMPCNTY	1	112-112
20.	Parker-Gallman county	PGCNTY	3	113-115
21.	Name of slave	NAME	25	116-140
22.	Age of slave	AGE	3	141-143
23.	Age of slave in month	AGEMNTH	2	144-145
24.	Sex	SEX	1	146-146
25.	Color/Race	COLOR	3	147-149
26.	Fugitive slave (identified on slave record)	FUGITIVE	1	150-150
27.	Manumitted slave (identified on slave record)	MANUMIT	1	151-151
28.	Blind	BLIND	1	152-152
29.	Deaf	DEAF	1	153-153
30.	Idiotic	IDIOTIC	1	154-154
31.	Insane	INSANE	1	155-155
32.	Hired out	HIREDOUT	1	156-156
33.	Number of owners	NOWNERS	2	157-158
34.	Number of fugitives from holding	NFUGITVS	3	159-161
35.	Number manumitted from holding	NMANUMTS	3	162-164
36.	Number of houses on holding	NHOUSES	3	165-167
37.	Owner 1 type	OWNTYPE1	2	168-169
38.	Owner 1 Last name	OWNLNAM1	55	170-224
39.	Owner 1 First name	OWNFNAM1	40	225-264
40.	Owner 2 type	OWNTYPE2	2	265-266
41.	Owner 2 Last name	OWNLNAM2	55	267-321
42.	Owner 2 First name	OWNFNAM2	40	322-361
43.	Owner 3 type	OWNTYPE3	2	362-363
44.	Owner 3 Last name	OWNLNAM3	55	364-418
45.	Owner 3 First name	OWNFNAM3	40	419-458
46.	Owner 4 type	OWNTYPE4	2	459-460
47.	Owner 4 Last name	OWNLNAM4	55	461-515
48.	Owner 4 First name	OWNFNAM4	40	516-555
49.	Owner 5 type	OWNTYPE5	2	556-557
50.	Owner 5 Last name	OWNLNAM5	55	558-612
51.	Owner 5 First name	OWNFNAM5	40	613-652
52.	Owner 6 type	OWNTYPE6	2	653-654
53.	Owner 6 Last name	OWNLNAM6	55	655-709

Order	Variable	Variable Name	Width	Columns
54.	Owner 6 First name	OWNFNAM6	40	710-749
55.	Owner 7 type	OWNTYPE7	2	750-751
56.	Owner 7 Last name	OWNLNAM7	55	752-806
57.	Owner 7 First name	OWNFNAM7	40	807-846
58.	Owner 8 type	OWNTYPE8	2	847-848
59.	Owner 8 Last name	OWNLNAM8	55	849-903
60.	Owner 8 First name	OWNFNAM8	40	904-943
61.	Miscellaneous information from marginal notes	MISCINFO	100	944-1043

Data Dictionary

YEAR – Columns 1-2 Census Year

Universe: All slaves.

Description:

YEAR identifies the census year of the case. Since the middle two digits of the census year are used, the code for 1860 is “86.”

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
1860	86	707477

DATANUM – Column 3 Dataset number

Universe: All slaves.

Description:

DATANUM identifies the sample from which the case is drawn.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
1860 Slave PUMS	3	707477

SERIAL – Columns 4-9 Slave holding serial number

Universe: All holdings.

Description:

SERIAL is an identifying number, unique to each slave holding in the sample. All slaves in a given holding are assigned the same serial number. (Slave records also have their own unique identifiers -- see SLAVENUM.) A combination of SERIAL and SLAVENUM provides a unique identifier for every case in the sample.

Codes: See text above.

SLAVENUM – Columns 10-12 Slave number within holding

Universe: All slaves.

Description:

SLAVENUM is an identifying number, unique to each slave within a holding. Slaves within a given holding are numbered sequentially using SLAVENUM. (Slave holdings also have their own unique identifiers -- see SERIAL.) A combination of SERIAL and SLAVENUM provides a unique identifier for every case in the sample.


Codes: See text above.

WEIGHT – Columns 13-21 Sample weight

Universe: All slaves.

Description:

WEIGHT describes how many slaves in the U.S. population in 1860 are represented by a given slave in the sample. Slaves in complete-count counties were assigned a weight of 1.0. Slaves in sampled counties were assigned a weight of 20.3436. Sample design and the calculation of specific weights are described in the introduction on page 2.

 **User Caution:** WEIGHT must always be used to obtain nationally representative statistics.

User Note: Although the sample design of the slave sample requires the use of weights, in practice user's need not be overly concerned with them. All leading statistical programs support the use weights. If users simply remember to weight their analysis by WEIGHT, they can be assured of representative statistics.

Codes: See text above.

REEL – Columns 22-25
Microfilm reel number

Universe: All slaves.

Description:

REEL gives the National Archives number of the microfilm reel from which the case was entered. For each year, REEL can be used in conjunction with PAGESEQ, PAGE, and LINE to locate and view the case as it appeared on the original 1860 slave schedule.

Codes: See text above.

PAGESEQ – Column 26
Microfilm page sequence number

Universe: All slaves.

Description:

Occasionally the page numbering sequence repeats itself within a given microfilm reel. PAGESEQ indicates to which of the sequences of page numbers on each 1860 microfilm reel the case belonged. PAGESEQ can be used in conjunction with REEL, PAGE, and LINE to locate and view the case as it appeared on the original 1860 slave schedule (see REEL).

Codes: See text above.

PAGENO – Columns 27-30
Microfilm page number

Universe: All slaves.

Description:

PAGENO gives the microfilm page number from which the case was entered. These are the page numbers stamped on the forms before microfilming. PAGENO can be used in conjunction with other variables to locate and view the case as it appeared on the original census form (see REEL). In cases where page numbers were stamped on every second page, line numbers 1-80 indicate the case appeared on the first page, and lines 81-160 indicated the case appeared on the second page (see LINE).

Codes: See text above.

LINE – Columns 31-33
Microfilm line number

Universe: All slaves.

Description:

LINE gives the census-form line number of the randomly selected sample point that identifies the case. LINE can be used in conjunction with other variables to locate and view the case as it appeared on the original 1860 slave schedule (see REEL). In cases where page numbers were stamped on every second page, line numbers 1-80 indicate the case appeared on the first page, and lines 81-160 indicated the case appeared on the second page (see PAGENO).

Codes: See text above.

STATEICP – Columns 34-35
State (ICPSR code)

Universe: All holdings.

Description:

STATEICP identifies the holding's state of enumeration using the Inter-University Consortium for Political and Social Research (ICPSR) coding scheme. The variable allows ICPSR state data to be easily merged with the slave sample. The ICPSR scheme orders the states geographically by region.

With one exception, state or territory names represent that state or territory's contemporary political boundaries in 1860. Users should familiarize themselves with any historical changes in these boundaries that might affect their research. The exception is the state Virginia. Following IPUMS convention, we identify the Virginia counties that subsequently became part of West Virginia as West Virginia.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
Delaware	11	69
Missouri	34	6095
Virginia	40	59794
Alabama	41	101277
Arkansas	42	62477
Florida	43	61574
Georgia	44	58801
Louisiana	45	52678
Mississippi	46	66607

North Carolina	47	15465
South Carolina	48	57676
Texas	49	54785
Kentucky	51	40116
Maryland	52	44970
Oklahoma	53	371
Tennessee	54	14770
West Virginia	56	6731
Utah	67	29
District of Columbia	98	3192

COUNTY – Columns 36-39
County (ICPSR code)

Universe: All holdings.

Description:

COUNTY identifies the holding's county of enumeration using the Inter-University Consortium for Political and Social Research (ICPSR) coding scheme. With STATEICP, COUNTY allows the IPUMS data to be merged with ICPSR county-level data. The variable also identifies areas that were not part of any county, including the independent cities of Virginia. COUNTY is a state-dependent variable; it *must* be read with one of the STATE variables to distinguish between counties located in different states.

Note that many county boundaries and some county names changed over time. The creation of new counties is a further difficulty, especially in more recently settled states. All counties listed have the boundaries that they had *in 1860*; the boundaries could be different in any other year.

Codes:

See Appendix B, ICPSR County Codes.

PLACE – Columns 40-89
Place name

 User Caution:

PLACE is an alphabetic variable.

Universe: All holdings.

Description/Comparability:

When combined with STATEICP and COUNTY, PLACE identifies the holding's specific place of enumeration, where available. PLACE provides the unrecoded raw ASCII text from the

slave schedules. The symbol '*' indicates that no place information was recorded by the enumerator.

CITY – Columns 90-93
City

Universe:

All holdings in cities with a population of 8,200 or more.

Description:

CITY identifies the holding's city of residence for 27 southern cities with populations 8,200 or more with standard IPUMS codes. An additional 16 southern cities with populations of less than 8,200 are also assigned codes, but users should be aware that these are inconsistently identified. Other cities and towns can be identified using the STATEICP, COUNTY, PLACE, and CITYPOP variables.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
Not in identifiable city	0	682394
Alexandria, VA	90	79
Atlanta, GA	350	68
Augusta, GA	410	276
Austin, TX	490	967
Baltimore, MD	530	2221
Baton Rouge, LA	590	116
Charleston, SC	1050	556
Charleston, WV	1070	370
Columbia, SC	1410	225
Columbus, GA	1430	181
Covington, KY	1530	197
Galveston, TX	2410	53
Hagerstown, MD	2590	14
Hannibal, MO	2680	26
Houston, TX	2890	27
Huntsville, AL	2950	44
Jackson, MS	3090	19
Kansas City, MO	3260	8
Lexington, KY	3570	120
Little Rock, AR	3650	31
Louisville, KY	3750	222
Lynchburg, VA	3790	145
Macon, GA	3830	193
Memphis, TN	4010	165
Mobile, AL	4170	364
Nashville, TN	4411	161
Natchez, MS	4420	77
New Orleans, LA	4570	588

Newport, KY	4710	11
Norfolk, VA	4810	161
Petersburg, VA	5310	328
Portsmouth, VA	5590	45
Raleigh, NC	5750	62
Richmond, VA	5870	11660
Saint Louis, MO	6090	78
San Antonio, TX	6230	32
Savannah, GA	6370	477
Vicksburg, MS	7120	1402
Washington, DC	7230	2615
Georgetown, DC	7231	577
Wheeling, WV	7390	15
Wilmington, DE	7490	4
Wilmington, NC	7510	155

CITYPOP – Columns 94-99
City population

Universe:
All holdings.

Description:
CITYPOP gives the population for all cities and incorporated places. For cities under 8,200, the population is given even if the name is not identified in the variable CITY.

Codes:
0 = unincorporated place.

ENUMDAY – Columns 100-101
Day of enumeration

Universe: All holdings.

Description:
ENUMDAY, which should be read with ENUMMO, gives the day of the month in which the enumerator began to gather information for the census page containing the case.

Codes:
98 = illegible.
99 = missing.

ENUMMO – Columns 102-103
Month of enumeration

Universe: All holdings.

Description:
ENUMMO gives the month in which the enumerator began to gather information for the census page containing the case.

Codes:

01 = January	08 = August
02 = February	09 = September
03 = March	10 = October
04 = April	11 = November
05 = May	12 = December
06 = June	98 = illegible
07 = July	99 = missing

SIZEHOLD – Columns 104-107
Holding Size

Universe: All holdings.

Description:
SIZEHOLD gives the total number of slaves in the holding.

COMPCNTY – Column 112
Complete Count County

Universe: All holdings.

Description:
COMPCNTY reports whether the slave was taken from one of the 160 selected complete-count counties (all slaves in the county were taken) or from a sampled county. Although the complete-count counties are geographically scattered (see Appendix C for Map), users are cautioned that they were not randomly selected.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
Case taken from a sampled county	0	167821
Case taken from a complete-count county	1	539656

PGCNTY – Columns 113-115
Parker-Gallman County

Universe: All holdings.

Description:

PGCNTY identifies counties that were included in William N. Parker's and Robert E. Gallman's "Southern Farms Study" sample of 405 southern counties that produced over 1,000 bales of cotton in 1860 (ICPSR study number 7419). The counties are identified using the original identification numbers in the Parker-Gallman dataset.

See Parker, William N., and Robert E. Gallman. *Southern Farms Study, 1860* [Computer file]. Compiled by William N. Parker, Yale University, and Robert E. Gallman, University of North Carolina. ICPSR ed. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [producer and distributor], 1976.

Codes:

0 = not in a county used in the Parker-Gallman study.

NAME – Columns 116-140
Name of slave

 User Caution: NAME is an alphabetic variable.

Universe: All slaves ages 100 and up.

Description/Comparability:

NAME identifies the names of slaves aged 100 and over.

AGE – Columns 141-143
Age of slave

Universe: All slaves.

Description:

AGE gives the slave's age in years as of their last birthday prior to or on the day of enumeration.

Codes:

998 = illegible.
999 = missing.

AGEMNTH – Columns 144-145
Age of slave in months

Universe: All slaves under 1 year of age.

Description:

AGE gives the slave's age in months on the day of enumeration.

Codes:

99 = not applicable or missing.

SEX – Column 146
Sex

Universe: All slaves.

Description:

SEX gives the sex of each slave.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
Male	1	356673
Female	2	350363
Blank or Illegible	9	441

COLOR – Columns 147-149
Color/Race

Universe: All slaves.

Description:

COLOR gives the slave's color, as determined by the enumerator.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
Black	200	627851
Mulatto	210	75950
Indian	300	6
Blank	999	3670

FUGITIVE – Columns 150
Fugitive slave—identified on slave record

Universe: All slaves (see user caution below).

Description:

FUGITIVE identifies individual slaves who escaped between June 1, 1859 and June 1, 1860 and had not been returned to their owners. Although not present in the holding, fugitive slaves were otherwise described as fully the possession of their owners. Users should use this variable with caution: it was not collected systematically and is not nationally representative.

Enumerators were instructed to note how many slaves from a given holding had escaped within the past year, but *not* to note which individual slaves had escaped. According to the instructions, enumerators were to record how many fugitives had escaped from the holding across from the owner's name. In some cases, however, particular enumerators took it upon themselves to indicate which individual slave(s) in the holding had escaped. We have kept this additional information in the dataset for users who may want to look at the individual types of slaves who escaped.

☛ User Caution: FUGITIVE provides information on individual slaves who escaped, but the variable was not collected systematically and is not comprehensive. Users seeking a nationally-representative portrait of slave escapes should use the holding-level variable NOFUGITS (see below) or the published census reports by the 1860 Census Office.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
Not a fugitive or blank	0	707396
Yes, fugitive	1	81

MANUMIT – Columns 151
Manumitted slave—identified on slave record

Universe: All slaves (see user caution below).

Description:

MANUMIT identifies individual slaves who were manumitted between June 1, 1859 and June 1, 1860. Users should use this variable with caution: it

was not collected systematically and is not nationally representative.

Enumerators were instructed to note how many slaves from a given holding had been manumitted within the past year opposite the name of the former owner. Description of the individual slaves manumitted was up to the enumerator's discretion, so it is no doubt incomplete.

☛ User Caution: MANUMIT provides information on individual slaves who were manumitted, but the variable was not collected systematically and is not comprehensive. Users seeking a nationally representative portrait of slave manumissions should use the holding-level variable NOMANUMS (see below) or the reports published by the 1860 Census Office.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
Not manumitted or blank	0	707113
Yes, manumitted in year	1	364

BLIND – Columns 152
Blind

Universe: All slaves.

Description:

BLIND indicates whether or not the slave was blind.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
No (Blank)	1	707173
Yes, Blind	2	304

DEAF – Columns 153
Deaf and Dumb

Universe: All slaves.

Description:

DEAF indicates whether or not the slave was deaf.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
No (Blank)	1	707309
Yes, Deaf and Dumb	2	111
Dumb only	3	27
Deaf only	4	30

IDIOTIC – Columns 154**Idiotic**

Universe: All slaves.

Description:

IDIOTIC indicates whether or not the slave was “idiotic.”

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
No (Blank)	1	707166
Yes, Idiotic	2	311

INSANE – Columns 155**Insane**

Universe: All slaves.

Description:

INSANE indicates whether or not the slave was “insane.”

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
No (Blank)	1	707378
Yes, Insane	2	99

HIREDOUT – Columns 156**Hired out**

Universe: All slaves with OWNTYPE other than “Employer” or “Hirer” (see user caution below).

Description:

Occasionally, marginal notes in the manuscript pages indicated special ownership statuses for individual slaves in a holding. Perhaps one slave in a large holding was jointly held with another owner, or a few slaves in a holding were “hired out” to an

employer. Although we entered this information, it was inconsistently recorded and is not well suited for analysis (see the ASCII variable MISCINFO below). Nevertheless, enough slaves were listed as “hired out” to suggest that the need for a special variable. HIREDOUT summarizes this additional individual-level information for slaves with OWNTYPE other than “Employer” or “Hirer” (see description of OWNTYPE below).

☛ User Caution: Users wanting to get the fullest possible picture “hiring out” should use HIREDOUT in conjunction with the owner-level variable OWNTYPE (see below) of “Employer” or “Hirer.” We caution, however, that the count is likely to be incomplete.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
No (Blank)	0	705603
Yes, Hired Out	1	1874

NOWNERS – Columns 157-158**Number of owners**

Universe: All holdings.

Description:

NOWNERS indicates how many owners each slave had.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
1 owner	1	664100
2 owners	2	33074
3 owners	3	4603
4 owners	4	2412
5 owners	5	1384
6 owners	6	559
7 owners	7	742
8 owners	8	246
9 owners	9	98
10 owners	10	160
11 owners	11	36
12 owners	12	37
13 owners	13	11
14 owners	14	15

NFUGITVS – Columns 159-161 **Number of fugitives**

Universe: All holdings.

Description:

NFUGITVS indicates the number of slaves who escaped from the holding between June 1, 1859 and June 1, 1860 and had not been returned to their owners.

NFUGITVS is a holding-level variable and does not indicate the individual characteristics of the escaped slave. Users interested in the individual characteristics of escaped slaves (age, sex, color, etc.) should use the slave-level variable FUGITIVE.

☛ User Caution: Since NFUGITVS is a holding-level variable, users interested in obtaining an estimate of the total number of fugitives from a given area should select only one slave in each holding before running frequencies. Published reports by the 1860 Census Office provides a total count of the number of fugitives from each state.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
1 fugitive from holding	1	1012
2 fugitives from holding	2	340
3 fugitives from holding	3	34
14 fugitives from holding	14	19
None (Blank)	999	706072

NMANUMTS – Columns 162-164 **Number manumitted**

Universe: All holdings.

Description:

NMANUMTS indicates the number of slaves who were manumitted from the holding between June 1, 1859 and June 1, 1860.

NMANUMTS is a holding-level variable and does not indicate the individual characteristics of the manumitted slave. Users interested in the individual characteristics of manumitted slaves (age, sex, color, etc.) should use the slave-level variable MANUMIT.

☛ User Caution: Since NMANUMTS is a holding-level variable, users interested in obtaining an estimate of the total number of manumitted slaves from a given area should select only one slave in each holding before running frequencies. Published reports by the 1860 Census Office provides a total count of the number of manumitted slaves from each state.

Codes and Frequencies:

	<u>Code</u>	<u>Frequency</u>
1 manumission from holding	1	963
2 manumissions from holding	2	471
3 manumissions from holding	3	117
4 manumissions from holding	4	109
5 manumissions from holding	5	230
6 manumissions from holding	6	19
7 manumissions from holding	7	156
8 manumissions from holding	8	54
9 manumissions from holding	9	48
10 manumissions from holding	10	10
11 manumissions from holding	11	22
13 manumissions from holding	13	13
14 manumissions from holding	14	15
17 manumissions from holding	17	22
None (Blank)	999	705228

NHOUSES – Columns 165-167 **Number of houses**

Universe: All holdings.

Description:

NHOUSES indicates the number of slave houses for each holding.

☛ User Caution: Since NHOUSES is a holding-level variable, users interested in obtaining an estimate of the total number of slaves houses from a given area should select only one slave in each holding before running frequencies.

Codes:

998 = illegible.
999 = missing or zero.

OWNTYPE – (see column locations below)

Owner type

Universe: All holdings.

Description:

OWNTYPE indicates the type of owner for each holding. When holdings had more than one owner, we have indicated owner types for each owner in the subsequent variables OWNTYPE2, OWNTYPE3, etc.

OWNTYPE only provides ownership type information for the first 8 owners. A few holdings in the sample had more than 8 owners (see NOWNERS), but in all cases the OWNTYPE value of owners 9-14 is identical to the OWNTYPE value for owner 8 (OWNTYPE8).

*** User Caution:** Since OWNTYPE is a holding-level variable, users interested in obtaining an estimate of the total number of owners in a given area should select only one slave in each holding before running frequencies.

Codes and Frequencies:

Owner 1 type OWNTYPE1 Cols 168-169

	<u>Code</u>	<u>Frequency</u>
Not applicable	00	0
Owner	10	658097
Proprietor	11	714
Corporation or Company	20	4571
Employer	30	9353
Hirer	31	228
Overseer	40	853
Manger	41	1233
Agent	42	8963
Administrator	43	1385
Executor	50	958
Trustee or held in trust for	51	3355
Guardian	52	1864
Estate	53	12348
Unknown type	99	3555

Owner 2 type OWNTYPE2 Cols 265-266

	<u>Code</u>	<u>Frequency</u>
Not applicable	00	664124
Owner	10	32928
Proprietor	11	284
Corporation or Company	20	214
Employer	30	1625
Hirer	31	246
Overseer	40	495
Manger	41	212
Agent	42	1866
Administrator	43	293
Executor	50	84
Trustee or held in trust for	51	1648
Guardian	52	89
Estate	53	2384
Unknown type	99	985

Owner 3 type OWNTYPE3 Cols 362-363

	<u>Code</u>	<u>Frequency</u>
Not applicable	00	697163
Owner	10	9749
Proprietor	11	9
Corporation or Company	20	8
Employer	30	72
Hirer	31	10
Overseer	40	0
Manger	41	0
Agent	42	87
Administrator	43	0
Executor	50	9
Trustee or held in trust for	51	0
Guardian	52	6
Estate	53	215
Unknown type	99	105

Owner 4 type OWNTYPE4 Cols 459-460

	<u>Code</u>	<u>Frequency</u>
Not applicable	00	701773
Owner	10	5509
Proprietor	11	7
Corporation or Company	20	73
Employer	30	10
Hirer	31	9
Overseer	40	0
Manger	41	0

Agent	42	36
Administrator	43	0
Executor	50	0
Trustee or held in trust for	51	18
Guardian	52	12
Estate	53	30
Unknown type	99	707477

Owner 5 type OWNTYPE5 Cols 556-557

	<u>Code</u>	<u>Frequency</u>
Not applicable	00	704185
Owner	10	3271
Proprietor	11	3
Corporation or Company	20	0
Employer	30	5
Hirer	31	0
Overseer	40	0
Manger	41	0
Agent	42	0
Administrator	43	0
Executor	50	0
Trustee or held in trust for	51	5
Guardian	52	0
Estate	53	8
Unknown type	99	0

Owner 6 type OWNTYPE6 Cols 653-654

	<u>Code</u>	<u>Frequency</u>
Not applicable	00	705569
Owner	10	1876
Proprietor	11	2
Corporation or Company	20	0
Employer	30	18
Hirer	31	0
Overseer	40	0
Manger	41	0
Agent	42	0
Administrator	43	0
Executor	50	0
Trustee or held in trust for	51	12
Guardian	52	0
Estate	53	0
Unknown type	99	0

Owner 7 type OWNTYPE7 Cols 750-751


	<u>Code</u>	<u>Frequency</u>
Not applicable	00	706128
Owner	10	1346
Proprietor	11	2
Corporation or Company	20	0
Employer	30	0
Hirer	31	0
Overseer	40	0
Manger	41	0
Agent	42	0
Administrator	43	1
Executor	50	0
Trustee or held in trust for	51	0
Guardian	52	0
Estate	53	0
Unknown type	99	0

Owner 8 type OWNTYPE8 Cols 847-848

	<u>Code</u>	<u>Frequency</u>
Not applicable	00	706870
Owner	10	584
Proprietor	11	2
Corporation or Company	20	0
Employer	30	5
Hirer	31	0
Overseer	40	0
Manger	41	0
Agent	42	0
Administrator	43	0
Executor	50	0
Trustee or held in trust for	51	0
Guardian	52	0
Estate	53	0
Unknown type	99	16

OWNLNAM – (see column locations below)

Owner last name

 User Caution:
OWNLNAM is an alphabetic variable.

Universe: All holdings.

Description:
OWNLNAM indicates the owner's last name for each holding. When holdings had more than one owner, we have indicated each owner's last name in the subsequent variables OWNLNAM2, OWNLNAM3, etc.


OWNLNAM only provides names for the first 8 owners. A few holdings in the sample had more than 8 owners (see NOWNERS), but in all cases the OWNLNAM value of owners 9-14 is identical to the OWNLNAM value for owner 8, usually an "Unnamed Heir".

Codes and Frequencies:

Owner 1 name	OWNLNAM1	Cols 170-224
Owner 2 name	OWNLNAM2	Cols 267-321
Owner 3 name	OWNLNAM3	Cols 364-418
Owner 4 name	OWNLNAM4	Cols 461-515
Owner 5 name	OWNLNAM5	Cols 558-612
Owner 6 name	OWNLNAM6	Cols 655-709
Owner 7 name	OWNLNAM7	Cols 752-806
Owner 8 name	OWNLNAM8	Cols 849-903

OWNFNAM – (see column locations below)

Owner first name

 User Caution:
OWNFNAM is an alphabetic variable.

Universe: All holdings.

Description:
OWNFNAM indicates the owner's first name for each holding. When holdings had more than one owner, we have indicated each owner's first name in the subsequent variables OWNFNAM2, OWNFNAM3, etc.


OWNFNAM only provides names for the first 8 owners. A few holdings in the sample had more than 8 owners (see NOWNERS), but in all cases the OWNFNAM value of owners 9-14 is identical to the

OWNFNAM value for owner 8, usually an "Unnamed Heir".

Codes and Frequencies:

Owner 1 name	OWNFNAM1	Cols 225-264
Owner 2 name	OWNFNAM2	Cols 322-361
Owner 3 name	OWNFNAM3	Cols 419-458
Owner 4 name	OWNFNAM4	Cols 516-555
Owner 5 name	OWNFNAM5	Cols 613-652
Owner 6 name	OWNFNAM6	Cols 710-749
Owner 7 name	OWNFNAM7	Cols 807-846
Owner 8 name	OWNFNAM8	Cols 904-943

MISCINFO – Columns 944-1043
Miscellaneous information

 User Caution:
MISCINFO is an alphabetic variable.

Universe: All slaves.

Description:
In addition to the standard holding and individual information required by the census bureau, some enumerators took it upon themselves to record a variety of other information on a non-systematic basis. MISCINFO contains a multitude of information regarding unique ownership types, owner relationships, and slave occupations from such marginal notes. We have summarized cases where MISCINFO indicated that a particular slave was hired out in the variable HIREDOUT.

Users studying unusual ownership types, or users studying localities where enumerators tended to make many marginal notes, may find this variable useful.

Appendix A

Census Questions and Enumerator Instructions

Census Questions

Schedule 2. Slave Inhabitants in _____, in the County of _____, State of _____, enumerated by me, on the ____ day of _____, 1860.
_____, Ass't. Marshal.

1. Number of slave owners.
2. Numbered of slaves.

Description:

3. Age.
4. Sex.
5. Color.
6. Fugitives from the state.
7. Number manumitted.
8. Deaf and dumb, blind, insane, or idiotic.
9. Number of slave houses.

Instructions to Enumerators

SCHEDULE No. 2.-SLAVE INHABITANTS.

This schedule is to be filled up in the following manner: The heading is to be filled up in all respects after the manner of Schedule No, 1, omitting only the name of post office.

1. Owners of Slaves.-- Under heading No. 1 insert, in proper consecutive order, the names of all owners of slaves. When slaves are the property of a corporation, enter the name of the corporation. If held in trust for persons who have attained to their majority, whose names as owners do not elsewhere appear, the names of such persons may be entered, or their number, as

“John Smith and two others;” always provided that the “others” do not appear as owners in other places. If held in trust for minors, give the number of such minors. The desire is to obtain a true return of the number of owners.

2. Number of Slaves.-- Under heading 2, entitled “Number of slaves,” insert, in regular numerical order, the number of all the slaves, of both sexes. and of every age, belonging to the owner whose name you have recorded. In the case of slaves, numbers are to be substituted for names. The description of every slave, as numbered, is to be recorded, and you are to enumerate such slaves as may be temporarily absent, provided they are usually held to service in your subdivision.

The slaves of each owner are to be numbered separately, beginning with the older at No. 1. The person in whose charge, or on whose plantation the slave is found to be employed may return all slaves in his charge, (although they may be owned by other persons,) provided they are not returned by their proper owner. The name of the bona fide owner should be returned as proprietor, and the name of the person having them in charge as employer.

3. Ages-- Under heading 3, entitled “Age,” insert, in figures, the specific age of each slave opposite the number of such slave. If the exact age cannot be ascertained insert a number which shall be the nearest approximation thereto. The exact or estimated age of every slave in to be inserted. If the slave be a child which on the 1st day of June was less than one year old the entry is to be made by fractional parts of a year, as directed in Rule 7, Schedule 1. Slaves who (born previously) have died since the 1st day of June are to be entered as living, and all details respecting them to be given with as much care as if the slave were living. You are desired to give the names of all slaves whom age reaches or exceeds 100 years.

4. Sex.-- Under heading 4, opposite each number, insert “m” for male, and “f” for female, in all cases, as the fact may be. In the case of slaves it is very essential that the sex be specified, because of the entire omission of name. The compensation for all returns where this fact is omitted will be reduced.

5. Color.-- Under heading 5, entitled "Color," insert, in all cases where the slave is black, the letter "B." When he or she is a mulatto insert "M." You are to note the color of every slave. Those who are in any degree of mixed blood are to be termed mulatto, "M."

6. Fugitives.-- Under heading 6 insert, in figures, opposite the name of the owner, a mark or number designating the fugitives who, having escaped within the year, have not been returned to their owners. Such fugitives are to be described as fully as if in possession of their masters. No allusion is to be made respecting such as may have absconded subsequent to the 1st day of June; they are to be recorded as if in possession of their proper owners.

7. No. Manumitted.-- In column No. 7, insert opposite the name of the former owner thereof the number of slaves manumitted within the year ending on the 1st day of June. The name of the person is to be given although at the time of the enumeration, or on the 1st day of June, such person may have held no slaves. The description of all the slaves manumitted may or may not be given at your pleasure, but the number manumitted must be clearly expressed. If you describe them separately, write "manumitted" under the name of the former owner in a line with

each one described. If the former owner of slaves manumitted within the year should have died or removed, such circumstance is not to obviate the necessity of their enumeration as directed.

8. Deaf and Dumb, Blind, Insane, Idiotic.-- You should be particular in every instance to inquire whether any slave comes within the above description, and, if so insert the fact in column 8, opposite the number and general description of such slave. If slaves be found imprisoned convicts, mention the crime in column 8, and the date of conviction in the vacant space No. 1. By carefully observing the following schedule, you will experience no difficulty in making proper returns:

9. Number of Slave Houses.-- In column 9 you will insert the number of slave tenements or dwellings on every farm and plantation, and in every family where slaves are held you will inquire what number of separate tenements are occupied by slaves, and you will insert the number in every instance on a line with the last slave described as belonging to the person or estate whereof you are instituting inquiry. We wish by this column to learn the number of occupied houses, the abode of slaves, belonging to each slaveholder.

Appendix B
ICPSR County Codes: 1850-1920
(with State, ICPSR State Code and FIPS State Code)

ALABAMA

ICPSR: 41 FIPS: 01

0010	Autauga	0830	Limestone	0270	Columbia
0030	Baldwin	0850	Lowndes	0290	Conway
0050	Barbour	0870	Macon	0310	Craighead
0070	Bibb	0890	Madison	0330	Crawford
0090	Blount	0910	Marengo	0350	Crittenden
0110	Bullock	0930	Marion	0370	Cross
0130	Butler	0950	Marshall	0390	Dallas
0150	Calhoun/Benton	0970	Mobile	0410	Desha
0170	Chambers	0990	Monroe	0430	Drew
0190	Cherokee	1010	Montgomery	0450	Faulkner
0210	Chilton/Baker	1030	Morgan/Cotaco	0470	Franklin
0230	Choctaw	1050	Perry	0490	Fulton
0250	Clarke	1070	Pickens	0510	Garland
0270	Clay	1090	Pike	0530	Grant
0290	Cleburne	1110	Randolph	0550	Greene
0310	Coffee	1130	Russell	0570	Hempstead
0330	Colbert	1150	St Clair	0590	Hot Spring
0350	Conecuh	1170	Shelby	0610	Howard
0370	Coosa	1190	Sumter	0630	Independence
0390	Covington	1210	Talladega	0650	Izard
0410	Crenshaw	1230	Tallapoosa	0670	Jackson
0430	Cullman	1250	Tuscaloosa	0690	Jefferson
0450	Dale	1270	Walker	0710	Johnson
0470	Dallas	1290	Washington	0730	Lafayette
0490	De Kalb	1310	Wilcox	0750	Lawrence
0510	Elmore	1330	Winston/Hancock	0770	Lee
0530	Escambia			0790	Lincoln
0550	Etowah			0810	Little River
0570	Fayette			0830	Logan
0590	Franklin			0870	Madison
0610	Geneva			0890	Marion
0630	Greene			0910	Miller
0650	Hale			0930	Mississippi
0670	Henry			0950	Monroe
0690	Houston			0970	Montgomery
0710	Jackson			0990	Nevada
0730	Jefferson			1010	Newton
0750	Lamar/Sanford			1030	Ouachita
0770	Lauderdale			1050	Perry
0790	Lawrence			1070	Phillips
0810	Lee			1090	Pike
				1110	Poinsett
				1130	Polk

ARKANSAS

ICPSR: 42 FIPS: 05

0010	Arkansas
0030	Ashley
0050	Baxter
0070	Benton
0090	Boone
0110	Bradley
0130	Calhoun
0150	Carroll
0170	Chicot
0190	Clark
0210	Clay
0230	Cleburne
0250	Cleveland

1150 Pope
1170 Prairie
1190 Pulaski
1210 Randolph
1230 St Francis
1250 Saline
1270 Scott
1290 Searcy
1310 Sebastian
1330 Sevier
1350 Sharp
1370 Stone
1390 Union
1410 Van Buren
1430 Washington
1450 White
1470 Woodruff
1490 Yell

DELAWARE

ICPSR: 11 FIPS: 10

0010 Kent
0030 New Castle
0050 Sussex

**DISTRICT OF
COLUMBIA**

ICPSR: 99 FIPS: 11

0010 District of Columbia

FLORIDA

ICPSR: 43 FIPS: 12

0010 Alachua
0030 Baker
0050 Bay
0070 Bradford/New River
0090 Brevard/St Lucie
0110 Broward
0130 Calhoun
0170 Citrus
0190 Clay
0230 Columbia
0250 Dade
0270 De Soto
0310 Duval
0330 Escambia
0350 Flagler

0370 Franklin
0390 Gadsden
0470 Hamilton
0530 Hernando/ Benton
0570 Hillsborough
0590 Holmes
0630 Jackson
0650 Jefferson
0670 Lafayette
0690 Lake
0710 Lee
0730 Leon
0750 Levy
0770 Liberty
0790 Madison
0810 Manatee
0830 Marion
0870 Monroe
0890 Nassau
0910 Okaloosa
0930 Okeechobee
0950 Orange/Mesquito
0970 Osceola
0990 Palm Beach
1010 Pasco
1030 Pinellas
1050 Polk
1070 Putnam
1090 St Johns
1110 St Lucie
1130 Santa Rosa
1170 Seminole

1190 Sumter
1210 Suwannee
1230 Taylor
1270 Volusia
1290 Wakulla
1310 Walton
1330 Washington

GEORGIA

ICPSR: 44 FIPS: 13

0010 Appling
0030 Atkinson
0050 Bacon
0070 Baker
0090 Baldwin
0110 Banks

0130 Barrow
0150 Bartow/Cass
0170 Ben Hill
0190 Berrien
0210 Bibb
0230 Bleckley
0270 Brooks
0290 Bryan
0310 Bulloch
0330 Burke
0350 Butts
0370 Calhoun
0390 Camden
0410 Campbell
0430 Candler
0450 Carroll
0470 Catoosa
0490 Charlton
0510 Chatham
0530 Chattahoochee
0550 Chattooga
0570 Cherokee
0590 Clarke
0610 Clay
0630 Clayton
0650 Clinch
0670 Cobb
0690 Coffee
0710 Colquitt
0730 Columbia
0750 Cook
0770 Coweta
0790 Crawford
0810 Crisp
0830 Dade
0850 Dawson
0870 Decatur
0890 De Kalb
0910 Dodge
0930 Dooly
0950 Dougherty
0970 Douglas
0990 Early
1010 Echols
1030 Effingham
1050 Elbert
1070 Emanuel
1090 Evans
1110 Fannin
1130 Fayette

1150	Floyd	2210	Oglethorpe
1170	Forsyth	2230	Paulding
1190	Franklin	2270	Pickens
1210	Fulton	2290	Pierce
1230	Gilmer	2310	Pike
1250	Glascocok	2330	Polk
1270	Glynn	2350	Pulaski
1290	Gordon	2370	Putnam
1310	Grady	2390	Quitman
1330	Greene	2410	Rabun
1350	Gwinnett	2430	Randolph
1370	Habersham	2450	Richmond
1390	Hall	2470	Rockdale
1410	Hancock	2490	Schley
1430	Haralson	2510	Screven
1450	Harris	2550	Spalding
1470	Hart	2570	Stephens
1490	Heard	2590	Stewart
1510	Henry	2610	Sumter
1530	Houston	2630	Talbot
1550	Irwin	2650	Taliaferro
1570	Jackson	2670	Tattnall
1590	Jasper	2690	Taylor
1610	Jeff Davis	2710	Telfair
1630	Jefferson	2730	Terrell
1650	Jenkins	2750	Thomas
1670	Johnson	2770	Tift
1690	Jones	2790	Toombs
1750	Laurens	2810	Towns
1770	Lee	2830	Treutlen
1790	Liberty	2850	Troup
1810	Lincoln	2870	Turner
1850	Lowndes	2890	Twiggs
1870	Lumpkin	2910	Union
1890	Mcduffie	2930	Upton
1910	Mcintosh	2950	Walker
1930	Macon	2970	Walton
1950	Madison	2990	Ware
1970	Marion	3010	Warren
1990	Meriwether	3030	Washington
2010	Miller	3050	Wayne
2030	Milton	3070	Webster
2050	Mitchell	3090	Wheeler
2070	Monroe	3110	White
2090	Montgomery	3130	Whitfield
2110	Morgan	3150	Wilcox
2130	Murray	3170	Wilkes
2150	Muscogee	3190	Wilkinson
2170	Newton	3210	Worth
2190	Oconee		

KENTUCKY

ICPSR: 51 FIPS: 21

0010	Adair
0030	Allen
0050	Anderson
0070	Ballard
0090	Barren
0110	Bath
0130	Bell
0150	Boone
0170	Bourbon
0190	Boyd
0210	Boyle
0230	Bracken
0250	Breathitt
0270	Breckinridge
0290	Bullitt
0310	Butler
0330	Caldwell
0350	Calloway
0370	Campbell
0390	Carlisle
0410	Carroll
0430	Carter
0450	Casey
0470	Christian
0490	Clark
0510	Clay
0530	Clinton
0550	Crittenden
0570	Cumberland
0590	Daviess
0610	Edmonson
0630	Elliott
0650	Estill
0670	Fayette
0690	Fleming
0710	Floyd
0730	Franklin
0750	Fulton
0770	Gallatin
0790	Garrard
0810	Grant
0830	Graves
0850	Grayson
0870	Green
0890	Greenup
0910	Hancock
0930	Hardin

0070 Calvert
0090 Caroline
0110 Carroll
0130 Cecil
0150 Charles
0170 Dorchester
0190 Frederick
0210 Garrett
0230 Harford
0250 Howard
0270 Kent
0290 Montgomery
0310 Prince Georges
0330 Queen Annes
0350 Somerset
0370 St Marys
0390 Talbot
0410 Washington
0430 Wicomico
0450 Worcester
5100 Baltimore City

MISSISSIPPI

ICPSR: 46 FIPS: 28

0010 Adams
0030 Alcorn
0050 Amite
0070 Attala
0090 Benton
0110 Bolivar
0130 Calhoun
0150 Carroll
0170 Chickasaw
0190 Choctaw
0210 Claiborne
0230 Clarke
0250 Clay
0270 Coahoma
0290 Copiah
0310 Covington
0330 De Soto
0350 Forrest
0370 Franklin
0390 George
0410 Greene
0430 Grenada
0450 Hancock
0470 Harrison
0490 Hinds

0510 Holmes
0530 Humphreys
0550 Issaquena
0570 Itawamba
0590 Jackson
0610 Jasper
0630 Jefferson
0650 Jefferson Davis
0670 Jones
0690 Kemper
0710 Lafayette
0730 Lamar
0750 Lauderdale
0770 Lawrence
0790 Leake
0810 Lee
0830 Leflore
0850 Lincoln
0870 Lowndes
0890 Madison
0910 Marion
0930 Marshall
0950 Monroe
0970 Montgomery
0990 Neshoba
1010 Newton
1030 Noxubee
1050 Oktibbeha
1070 Panola
1090 Pearl River
1110 Perry
1130 Pike
1150 Pontotoc
1170 Prentiss
1190 Quitman
1210 Rankin
1230 Scott
1250 Sharkey
1270 Simpson
1290 Smith
1310 Stone
1315 Sumner
1330 Sunflower
1350 Tallahatchie
1370 Tate
1390 Tippah
1410 Tishomingo
1430 Tunica
1450 Union
1470 Walthall

1490 Warren
1510 Washington
1530 Wayne
1550 Webster
1570 Wilkinson
1590 Winston
1610 Yalobusha
1630 Yazoo

MISSOURI

ICPSR: 34 FIPS: 29

0010 Adair
0030 Andrew
0050 Atchison
0070 Audrain
0090 Barry
0110 Barton
0130 Bates
0150 Benton
0170 Bollinger
0190 Boone
0210 Buchanan
0230 Butler
0250 Caldwell
0270 Callaway
0290 Camden
0310 Cape Girardeau
0330 Carroll
0350 Carter
0370 Cass/Van Buren
0390 Cedar
0410 Chariton
0430 Christian
0450 Clark
0470 Clay
0490 Clinton
0510 Cole
0530 Cooper
0550 Crawford
0570 Dade
0590 Dallas
0610 Daviess
0630 De Kalb
0650 Dent
0655 Dodge
0670 Douglas
0690 Dunklin
0710 Franklin
0730 Gasconade

0750 Gentry
0770 Greene
0790 Grundy
0810 Harrison
0830 Henry/Rives
0850 Hickory
0870 Holt
0890 Howard
0910 Howell
0930 Iron
0950 Jackson
0970 Jasper
0990 Jefferson
1010 Johnson
1030 Knox
1050 Laclede

NORTH CAROLINA

ICPSR: 47 FIPS: 37

0010 Alamance
0030 Alexander
0050 Alleghany
0070 Anson
0090 Ashe
0110 Avery
0130 Beaufort
0150 Bertie
0170 Bladen
0190 Brunswick
0210 Buncombe
0230 Burke
0250 Cabarrus
0270 Caldwell
0290 Camden
0310 Carteret
0330 Caswell
0350 Catawba
0370 Chatham
0390 Cherokee
0410 Chowan
0430 Clay
0450 Cleveland
0470 Columbus
0490 Craven
0510 Cumberland
0530 Currituck
0550 Dare
0570 Davidson
0590 Davie

0610 Duplin
0630 Durham
0650 Edgecombe
0670 Forsyth
0690 Franklin
0710 Gaston
0730 Gates
0750 Graham
0770 Granville
0790 Greene
0810 Guilford
0830 Halifax
0850 Harnett
0870 Haywood
0890 Henderson
0910 Hertford
0930 Hoke
0950 Hyde
0970 Iredell
0990 Jackson
1010 Johnston
1030 Jones
1050 Lee
1070 Lenoir
1090 Lincoln
1110 McDowell
1130 Macon
1150 Madison
1170 Martin
1190 Mecklenburg
1210 Mitchell
1230 Montgomery
1250 Moore
1270 Nash
1290 New Hanover
1310 Northampton
1330 Onslow
1350 Orange
1370 Pamlico
1390 Pasquotank
1410 Pender
1430 Perquimans
1450 Person
1470 Pitt
1490 Polk
1510 Randolph
1530 Richmond
1550 Robeson
1570 Rockingham
1590 Rowan

1610 Rutherford
1630 Sampson
1650 Scotland
1670 Stanly
1690 Stokes
1710 Surry
1730 Swain
1750 Transylvania
1770 Tyrrell
1790 Union
1810 Vance
1830 Wake
1850 Warren
1870 Washington
1890 Watauga
1910 Wayne
1930 Wilkes
1950 Wilson
1970 Yadkin
1990 Yancey

OKLAHOMA

ICPSR: 53 FIPS: 40
0000 Oklahoma

SOUTH CAROLINA

ICPSR: 48 FIPS: 45

0010 Abbeville
0030 Aiken
0050 Allendale
0070 Anderson
0090 Bamberg
0110 Barnwell
0130 Beaufort
0150 Berkeley
0170 Calhoun
0190 Charleston
0210 Cherokee
0230 Chester
0250 Chesterfield
0270 Clarendon
0290 Colleton
0310 Darlington
0330 Dillon
0350 Dorchester
0370 Edgefield
0390 Fairfield
0410 Florence

0430 Georgetown
0450 Greenville
0470 Greenwood
0490 Hampton
0510 Horry
0530 Jasper
0550 Kershaw
0570 Lancaster
0590 Laurens
0610 Lee
0630 Lexington
0650 McCormick
0670 Marion
0690 Marlboro
0710 Newberry
0730 Oconee
0750 Orangeburg
0770 Pickens
0790 Richland
0810 Saluda
0830 Spartanburg
0850 Sumter
0870 Union
0890 Williamsburg
0910 York

TENNESSEE

ICPSR: 54 FIPS: 47

0010 Anderson
0030 Bedford
0050 Benton
0070 Bledsoe
0090 Blount
0110 Bradley
0130 Campbell
0150 Cannon
0170 Carroll
0190 Carter
0210 Cheatham
0230 Chester
0250 Claiborne
0270 Clay
0290 Cocke
0310 Coffee
0330 Crockett
0350 Cumberland
0370 Davidson
0390 Decatur
0410 De Kalb

0430 Dickson
0450 Dyer
0470 Fayette
0490 Fentress
0510 Franklin
0530 Gibson
0550 Giles
0570 Grainger
0590 Greene
0610 Grundy
0630 Hamblen
0650 Hamilton
0670 Hancock
0690 Hardeman
0710 Hardin
0730 Hawkins
0750 Haywood
0850 Humphreys
0870 Jackson
0875 James
0890 Jefferson
0910 Johnson
0930 Knox
0950 Lake
0970 Lauderdale
0990 Lawrence
1010 Lewis
1030 Lincoln
1050 Loudon
1070 McMinn
1090 McNairy
1110 Macon
1130 Madison
1150 Marion
1170 Marshall
1190 Maury
1210 Meigs
1230 Monroe
1250 Montgomery
1270 Moore
1290 Morgan
1310 Obion
1330 Overton
1350 Perry
1370 Pickett
1390 Polk
1410 Putnam
1430 Rhea
1450 Roane
1470 Robertson

1490 Rutherford
1510 Scott
1530 Sequatchie
1550 Sevier
1570 Shelby
1590 Smith
1610 Stewart
1630 Sullivan
1650 Sumner
1670 Tipton
1690 Trousdale
1710 Unicoi
1730 Union
1750 Van Buren
1770 Warren
1790 Washington
1810 Wayne
1830 Weakley
1850 White
1870 Williamson
1890 Wilson

TEXAS

ICPSR: 49 FIPS: 48

0010 Anderson
0030 Andrews
0050 Angelina
0070 Aransas
0090 Archer
0110 Armstrong
0130 Atascosa
0150 Austin
0170 Bailey
0190 Bandera
0210 Bastrop
0230 Baylor
0250 Bee
0270 Bell
0290 Bexar
0310 Blanco
0330 Borden
0350 Bosque
0370 Bowie
0390 Brazoria
0410 Brazos
0430 Brewster
0450 Briscoe
0470 Brooks
0490 Brown

0510	Burleson	1490	Fayette	2490	Jim Wells
0530	Burnet	1510	Fisher	2510	Johnson
0550	Caldwell	1530	Floyd	2530	Jones
0570	Calhoun	1550	Foard	2550	Karnes
0590	Callahan	1570	Fort Bend	2570	Kaufman
0610	Cameron	1590	Franklin	2590	Kendall
0630	Camp	1610	Freestone	2630	Kent
0650	Carson	1630	Frio	2650	Kerr
0670	Cass/Davis	1650	Gaines	2670	Kimble
0690	Castro	1670	Galveston	2690	King
0710	Chambers	1690	Garza	2710	Kinney
0730	Cherokee	1710	Gillespie	2730	Kleberg
0750	Childress	1730	Glasscock	2750	Knox
0770	Clay	1750	Goliad	2770	Lamar
0790	Cochran	1770	Gonzales	2790	Lamb
0810	Coke	1790	Gray	2810	Lampasas
0830	Coleman	1810	Grayson	2830	La Salle
0850	Collin	1830	Gregg	2850	Lavaca
0870	Collingsworth	1850	Grimes	2870	Lee
0890	Colorado	1870	Guadalupe	2890	Leon
0910	Comal	1890	Hale	2910	Liberty
0930	Comanche	1910	Hall	2930	Limestone
0950	Concho	1930	Hamilton	2950	Lipscomb
0970	Cooke	1950	Hansford	2970	Live Oak
0990	Coryell	1970	Hardeman	2990	Llano
1010	Cottle	1990	Hardin	3010	Loving
1030	Crane	2010	Harris	3030	Lubbock
1050	Crockett	2030	Harrison	3050	Lynn
1070	Crosby	2050	Hartley	3070	Mcculloch
1090	Culberson	2070	Haskell	3090	Mclennan
1110	Dallam	2090	Hays	3110	Mcmullen
1130	Dallas	2110	Hemphill	3130	Madison
1150	Dawson	2130	Henderson	3150	Marion
1170	Deaf Smith	2150	Hidalgo	3170	Martin
1190	Delta	2170	Hill	3190	Mason
1210	Denton	2190	Hockley	3210	Matagorda
1230	De Witt	2210	Hood	3230	Maverick
1250	Dickens	2230	Hopkins	3250	Medina
1270	Dimmit	2250	Houston	3270	Menard
1290	Donley	2270	Howard	3290	Midland
1310	Duval	2290	Hudspeth	3310	Milam
1330	Eastland	2310	Hunt	3330	Mills
1350	Ector	2330	Hutchinson	3350	Mitchell
1370	Edwards	2350	Irion	3370	Montague
1390	Ellis	2370	Jack	3390	Montgomery
1410	El Paso	2390	Jackson	3410	Moore
1415	Encinal	2410	Jasper	3430	Morris
1430	Erath	2430	Jeff Davis	3450	Motley
1450	Falls	2450	Jefferson	3470	Nacogdoches
1470	Fannin	2470	Jim Hogg	3490	Navarro

3510 Newton
3530 Nolan
3550 Nueces
3570 Ochiltree
3590 Oldham
3610 Orange
3630 Palo Pinto
3650 Panola
3670 Parker
3690 Parmer
3710 Pecos
3730 Polk
3750 Potter
3770 Presidio
3790 Rains
3810 Randall
3830 Reagan
3850 Real
3870 Red River
3890 Reeves
3910 Refugio
3930 Roberts
3950 Robertson
3970 Rockwall
3990 Runnels
4010 Rusk
4030 Sabine
4050 San Augustine
4070 San Jacinto
4090 San Patricio
4110 San Saba
4130 Schleicher
4150 Scurry
4170 Shackelford
4190 Shelby
4210 Sherman
4230 Smith
4250 Somervell
4270 Starr
4290 Stephens/Buchanan
4310 Sterling
4330 Stonewall
4350 Sutton
4370 Swisher
4390 Tarrant
4410 Taylor
4430 Terrell
4450 Terry
4470 Throckmorton
4490 Titus

4510 Tom Green
4530 Travis
4550 Trinity
4570 Tyler
4590 Upshur
4610 Upton
4630 Uvalde
4650 Val Verde
4670 Van Zandt
4690 Victoria
4710 Walker
4730 Waller
4750 Ward
4770 Washington
4790 Webb
4810 Wharton
4830 Wheeler
4850 Wichita
4870 Wilbarger
4890 Willacy
4910 Williamson
4930 Wilson
4950 Winkler
4970 Wise
4990 Wood
5010 Yoakum
5030 Young
5050 Zapata
5070 Zavalla

UTAH

ICPSR: 67 FIPS: 49

0010 Beaver
0030 Box Elder
0050 Cache
0070 Carbon
0090 Daggett
0110 Davis
0130 Duchesne
0150 Emery
0170 Garfield
0190 Grand
0210 Iron
0230 Juab
0250 Kane
0270 Millard
0290 Morgan
0310 Piute
0330 Rich

0350 Salt Lake
0370 San Juan
0390 Sanpete
0410 Sevier
0430 Summit
0450 Tooele
0470 Uintah
0490 Utah
0510 Wasatch
0530 Washington
0550 Wayne
0570 Weber

VIRGINIA

ICPSR: 40 FIPS: 51

0010 Accomack
0030 Albemarle
0050 Alleghany
0070 Amelia
0090 Amherst
0110 Appomattox
0130 Arlington/
Alexandria
0150 Augusta
0155 Barbour
0170 Bath
0190 Bedford
0195 Berkeley
0210 Bland
0215 Boone
0230 Botetourt
0235 Braxton
0245 Brooke
0250 Brunswick
0270 Buchanan
0290 Buckingham
0295 Cabell
0310 Campbell
0330 Caroline
0350 Carroll
0360 Charles City
0370 Charlotte
0410 Chesterfield
0430 Clarke
0450 Craig
0470 Culpeper
0490 Cumberland
0510 Dickenson
0530 Dinwiddie

0535	Doddridge	1205	Monroe	1930	Westmoreland
0550	Elizabeth City	1210	Montgomery	1935	Wetzel
0570	Essex	1215	Morgan	1945	Wirt
0590	Fairfax	1230	Nansemond	1950	Wise
0610	Fauquier	1250	Nelson	1955	Wood
0615	Fayette	1270	New Kent	1965	Wyoming
0630	Floyd	1275	Nicholas	1970	Wythe
0650	Fluvanna	1290	Norfolk	1990	York
0670	Franklin	1310	Northampton	5100	Alexandria City
0690	Frederick	1330	Northumberland	5200	Bristol
0710	Giles	1350	Nottoway	5300	Buena Vista
0715	Gilmer	1355	Ohio	5400	Charlottes-Ville
0730	Gloucester	1370	Orange	5600	Clifton Forge
0750	Goochland	1390	Page	5900	Danville
0770	Grayson	1410	Patrick	6300	Fredericksburg
0775	Greenbrier	1415	Pendleton	6600	Harrisonburg
0790	Greene	1430	Pittsylvania	6700	Hopewell
0810	Greensville	1445	Pocahontas	6800	Lynchburg
0830	Halifax	1450	Powhatan	7000	Newport News
0850	Hanover	1455	Preston	7100	Norfolk City
0855	Hardy	1470	Prince Edward	7300	Petersburg
0865	Harrison	1490	Prince George	7400	Portsmouth
0870	Henrico	1510	Princess Anne	7500	Radford
0890	Henry	1530	Prince William	7600	Richmond City
0910	Highland	1550	Pulaski	7700	Roanoke City
0930	Isle Of Wight	1555	Putnam	7900	Staunton
0935	Jackson	1565	Raleigh	8000	Suffolk
0950	James City	1567	Randolph	8300	Williamsburg City
0955	Jefferson	1570	Rappahannock	8400	Winchester
0965	Kanawha	1590	Richmond		
0970	King And Queen	1595	Ritchie		
0990	King George	1610	Roanoke		
1010	King William	1630	Rockbridge		
1030	Lancaster	1650	Rockingham	0010	Barbour
1050	Lee	1670	Russell	0030	Berkeley
1055	Lewis	1690	Scott	0050	Boone
1065	Logan	1710	Shenandoah	0070	Braxton
1070	Loudoun	1730	Smyth	0090	Brooke
1090	Louisa	1750	Southampton	0110	Cabell
1110	Lunenburg	1770	Spotsylvania	0130	Calhoun
1130	Madison	1790	Stafford	0150	Clay
1135	City Of Manchester	1810	Surry	0170	Doddridge
1141	Marion	1830	Sussex	0190	Fayette
1145	Marshall	1835	Taylor	0210	Gilmer
1148	Mason	1850	Tazewell	0230	Grant
1150	Mathews	1859	Tyler	0250	Greenbrier
1170	Mecklenburg	1870	Warren	0270	Hampshire
1175	Mercer	1875	Warwick	0290	Hancock
1190	Middlesex	1910	Washington	0310	Hardy
1195	Monongalia	1915	Wayne	0330	Harrison

WEST VIRGINIA

ICPSR: 56 FIPS: 54

0350	Jackson
0370	Jefferson
0390	Kanawha
0410	Lewis
0430	Lincoln
0450	Logan
0470	Mcdowell
0490	Marion
0510	Marshall
0530	Mason
0550	Mercer
0570	Mineral
0590	Mingo
0610	Monongalia
0630	Monroe
0650	Morgan
0670	Nicholas
0690	Ohio
0710	Pendleton
0730	Pleasants
0750	Pocahontas
0770	Preston
0790	Putnam
0810	Raleigh
0830	Randolph
0850	Ritchie
0870	Roane
0890	Summers
0910	Taylor
0930	Tucker
0950	Tyler
0970	Upshur
0990	Wayne
1010	Webster
1030	Wetzel
1050	Wirt
1070	Wood
1090	Wyoming

Appendix C Sample Density by County

