# 2017-2018 Migration Data Users Guide

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#### A. Overview

The Migration Data Users guide provides a detailed description of the State-to-State, County-to-County, and Gross Migration files produced by the Internal Revenue Service (IRS) Statistics of Income (SOI) Division. IRS Migration data for the United States are based on year-to-year address changes reported on individual income tax returns filed with the IRS. They present migration patterns by State or by county and are available for inflows—the number of new residents who moved to a State or county and where they migrated from, and outflows—the number of residents leaving a State or county and where they went. The data also include tabulations on the number of non-migrant returns within a State or county.

#### **B. Nature of Changes**

No new changes have been made to the 2017-2018 migration data.

#### C. Definitions and Explanations

#### **C.1 Basic Source Information**

- Migration data are based on the population of Forms 1040 that were filed and processed by the IRS during calendar years 2017 and 2018. During this period, the bulk of returns filed with the IRS were for Tax Years 2016 (received in calendar year 2017) and Tax Year 2017 (received in calendar year 2018). Returns received in 2017 represent income that was earned in 2016. Returns received in 2018 represent income that was earned in 2017. Also during this period, a number of returns were filed representing prior tax years. For matching purposes, prior year returns are not used in the migration data.
- The address shown on the tax return is a mailing address that may not reflect the taxpayer's actual residence. In addition, the address may not reflect the location of the taxpayer when the income was earned, as a taxpayer may move during the course of a tax year. Thus, the income may have been earned in two locations. In addition, a taxpayer may move after the end of the tax year but file their return on time up to nine months later from another location.

- Due to continuing efforts to combat identity theft, the method in which the IRS processes returns may undergo changes. These processing changes may have an impact on the migration data and should be considered when comparing the data across years.
- Totals may not be comparable to other totals published elsewhere by SOI because of specific features of the migration data. [1]
- Data do not represent the full U.S. population because many individuals are not required to file an individual income tax return.
- Tax returns are assigned a State and County FIPS [2] code using a ZIP+4-to-County codebook developed by the U.S. Census Bureau.
- Tax returns filed without a ZIP code and returns filed with a ZIP code that did not match the State code shown on the return were excluded.
- Tax returns where the taxpayer was claimed as a dependent on another tax return in the second year (2018) were excluded. Tax returns where the taxpayer was claimed as a dependent in the first year (2017) and filed in the second year as a non-dependent taxpayer were included.
- Foreign tax returns as well as those filed using Army Post Office (APO) and Fleet Post Office addresses, addresses in Puerto Rico, Guam, Virgin Islands, American Samoa, Marshall Islands, Northern Marianas, and Palau have been included in the migration data
- The age of the primary taxpayer is used to place returns in various age categories. The primary taxpayer's age is derived by matching the Social Security numbers on the individual income tax return to information from the Social Security Administration (SSA).
- Tax returns with an Individual Taxpayer Identification Number (ITIN) issued by the IRS are included within the migration data. Information on an individual taxpayer's age, for returns with an ITIN, is derived from IRS administrative systems. See endnote 3 for more information on ITINs.

#### C.2 Matching Returns

Tax returns are matched for two consecutive calendar years based on the filer's taxpayer identification number (TIN). Migration data for 2010-2011 and earlier, returns were matched based on the TIN of the primary filer only. Beginning with the 2011-2012 data, returns will be matched on the TIN of the primary, secondary, and dependent filers. The matching process is done in the following order:

Matching order	Year 1	Year 2	Percent of the total matched returns
1	Primary filer	Primary filer	94.6%
2	Primary filer	Secondary filer	0.8%
3	Secondary filer	Primary filer	1.7%
4	Secondary filer	Secondary filer	less than 0.1%
5	Dependent filers	Primary filer	2.8%
6	Dependent filers	Secondary filer	less than 0.1%

To avoid duplicate matching, only returns that did not match based on the primary-to-primary match were used for the subsequent matches. Under the previous methodology, married tax filers who changed filing positions (i.e. from primary-to-secondary or dependent-to-primary), between the two years, would be excluded from the migration data. As an example, if a secondary filer on a joint return in year 1 filed as a single or head of household filer in year 2, that return would not be included in the data. Likewise,

individuals who were dependents in year 1, but filed as a primary or secondary tax filer in year 2, would be excluded.

Under the new methodology, if a filer changed their filing position between the two years and a matching TIN was found in the primary or secondary position, then that return would be included in the migration data. Using the same examples as above, if a secondary filer was on a married filing joint return in year 1, but filed single in year 2, that return would now be included. Also, if an individual was a dependent listed on a return in year 1, but became a primary or secondary filer in year 2, and was not claimed as a dependent, that return would now be included.

Returns that would still be excluded, under the new methodology, are those who did not have a matching TIN between year 1 and year 2. A non-matching return can occur if a TIN is recorded incorrectly between the two years; if a taxpayer switches from a temporary TIN to a permanent Social Security Number (SSN); or if a taxpayer filed a return in one year, but did not timely file a return in another year [3].

#### **C.3 Migration Status**

After matching returns for two consecutive years, each return is assigned one of four migrant statuses.

- (1) Non-migrant returns these are individual returns where the state and county in year 1 matches the state and county in year 2. A non-migrant return does not necessarily mean that a taxpayer did not move. If a taxpayer moved, but stayed in the same county and state, they would be considered a non-migrant.
- (2) Migrant return, different state these are individual returns where the state and county in one year does not match the state and county in another year.
- (3) Migrant return, same state, different county these are individual returns where the state is the same between the two years, but the county in one year is different than the county in another year.
- (4) Migrant return, foreign these are individual returns where the state is in the United States in one year and foreign (APO/FPO, Puerto Rico, U.S. Virgin Islands, overseas, or other) in another year.

## C.4 Geocoding Tax Returns

Tax returns are assigned county codes based on an internal-use nine-digit ZIP Code-to-county Codebook developed by the Census Bureau. The Codebook is revised annually based on new geographic information. Consequently, a return with a given nine-digit ZIP Code listed in county X in year one can be listed in county Y in year two, independent of an actual address change on the return. Most annual revisions have a very minor impact on the overall county-to-county distribution of returns. To document and quantify the impact of these revisions, the Calendar Year 2017 tax return population file was geocoded using both the 2017 and 2018 Codebooks. The number of returns, where the county codes differed between the two years, was then tabulated.

Because the 2017-2018 migration data was produced by applying the 2018 Codebook to the 2017 and 2018 population files, the Codebook revisions do NOT affect the in-flow and out-flow migration totals. They do affect a comparison of non-migrants with previous years. In other words, the impact of the Codebook revisions is contained in the non-migrant totals.

Table 1 (see Appendix 1) shows the results for counties that had a **net** absolute change of 100 returns or more sorted by the absolute value of the net percentage change, based on the 2017 and 2018 ZIP Code-to-county Codebooks. Table 2 (see Appendix 2) shows the same results sorted by state and county. Individual counties with a positive net percentage change experienced a greater number of returns being geocoded to that county using the 2018 Codebook as opposed to the 2017 Codebook. Individual counties with a negative net percentage change experienced fewer returns being geocoded to that county using the 2018 Codebook versus the 2017 Codebook. This list of counties should be considered when making year-to-year comparisons with previous migration data.

#### **D. Disclosure Protection Procedures**

To protect the confidentiality of information of individual taxpayers, SOI took the following precautions:

- For the State-to-State migration flows a cell must have at least 10 returns to be shown. In the Excel version of the state-to-state flows, collapsed categories have been identified with a "d". In the CSV version of the county-to-county flows, collapsed categories are notated with a -1
- For the County-to-County migration flows a cell must have at least 20 returns to be shown. In the Excel version of the county-to-county flows, collapsed categories have been identified with a "d". In the CSV version of the county-to-county flows, collapsed categories are notated with a -1.
- At the county level, counties with less than 20 returns have been aggregated into various "Other Flows" categories. The Other Flows categories are Same State, Different State, Foreign, as well as by region (Northeast, Midwest, South, and West). See section E.6 for a list of the "Other Flows" categories and codes.
- Other Flows categories with less than 20 returns were combined with the same Other Flows category for another county, within the same state. In the Excel version of the county-to-county flows, collapsed categories have been identified with a "d". In the CSV version of the county-to-county flows, collapsed categories are notated with a -1.
- At the county level only, certain matched tax returns that represented a specified percentage of the
  total of any particular cell have been excluded. For example, if one return represented 75 percent
  of the value of a given cell, the return was suppressed from the county detail. The actual threshold
  percentage used cannot be released.
- For the Gross Migration file a cell must have at least 10 returns in order to be shown. Cells with less than 10 returns have been combined with another AGI class within the same age classification, within the same state.
- Excluded from the Gross Migration file are tax returns with a negative adjusted gross income.

#### E. Migration Data Files

## E.1 State-to-State Outflow Files

The State-to-State outflow migration files represent the migration flows from the origin state, in year 1, to the destination state, in year 2. There are 51 files for each state plus the District of Columbia. Included in the list of outflow states are the number of returns that migrated to a foreign location [4]. Each file tabulates the number of returns, number of exemptions, and adjusted gross income (AGI) by state and is available as a MS Excel spreadsheet or as a CSV (comma separated) file. The number of exemptions and AGI are based on the year 2 tax return.

#### E.1.a State Outflow Records

Each state file contains five header records that show (1) the total U.S. and foreign out-migration for that state, (2) the total U.S. out-migration, (3) the total foreign out-migration, (4) the total same state migration for that state, and (5) the total non-migrants. Below is an example of the state-to-state outflow header:

		Destination into	Number of returns	Number of exemptions	Adjusted gross income (AGI)
State Code	State	State Name			
Otate Code	Otate	State Name	(1)	(2)	(3)
96	Н	HI Total Migration-US and Foreign	27,228	57,999	1,362,154
97	Н	HI Total Migration-US	25,941	55,181	1,295,554
98	Н	HI Total Migration-Foreign	1,287	2,818	66,600
97	Н	HI Total Migration-Same State	3,261	5,803	139,952
15	Н	HI Non-migrants	529,559	1,087,217	32,920,808
	97 98 97	96 HI 97 HI 98 HI 97 HI	State Code State State Name  96 HI HI Total Migration-US and Foreign 97 HI HI Total Migration-US 98 HI HI Total Migration-Foreign 97 HI HI Total Migration-Same State	returns           State Code         State         State Name         (1)           96         HI         HI Total Migration-US and Foreign         27,228           97         HI         HI Total Migration-US         25,941           98         HI         HI Total Migration-Foreign         1,287           97         HI         HI Total Migration-Same State         3,261	returns         exemptions           State Code         State         State Name         (1)         (2)           96         HI         HI Total Migration-US and Foreign         27,228         57,999           97         HI         HI Total Migration-US         25,941         55,181           98         HI         HI Total Migration-Foreign         1,287         2,818           97         HI         HI Total Migration-Same State         3,261         5,803

Following the header records are the state-to-state out-migration records that have been ranked, in descending order, by the number of returns.

## E.1.b State Outflow Record Layout

The State Outflow files are available as a MS Excel spreadsheet or a CSV (comma separated) file. The files have the following naming convention:

- Individual state Excel files (State Outflow Tab) 1718XX.xls (XX = AL-WY)
- A comma separated file stateoutflow1718.csv

Below is the record layout for the State Outflow comma separated file:

VARIABLE NAME	DESCRIPTION/VALUES
1. Y1_STATEFIPS	State FIPS Code of Origin from Year 1
	Alabama to Wyoming [2]01 to 56
2. Y2_STATEFIPS	State FIPS Code of Destination from Year 2
	Alabama to Wyoming [2]
3. Y2_STATE	State Abbreviation or Postal Code of Destination from Year 2  Alabama to Wyoming
4. Y2_STATE_NAME	State Name of Destination from Year 2  See Y2_STATEFIPS for list of names  NOTE: Non-migrants are identified as those whose state of origin is the same as their state of destination.
5. N1	Number of returns  Suppressed data value1 Potential values3 to 99999999
6. N2	Number of exemptions  Suppressed data value1 Potential values3 to 999999999

7. AGI	Adjusted Gross Income (AGI)
	Suppressed data value1 Potential values999999999 to 999999999 NOTE: AGI is reported in thousands of dollars. Amounts include records with adjusted gross deficit. AGI is based on the year 2 tax return.

#### E.2 State-to-State Inflow Files

The State-to-State inflow migration files represent the migration flows into the destination state, in year two, from the origin state, in year one. There are 51 files for each state plus the District of Columbia. Included in the list of inflow states are the number of returns that migrated from a foreign location [4]. Each file tabulates the number of returns, number of exemptions, and adjusted gross income (AGI) by state and is available as a MS Excel spreadsheet or as a CSV (comma separated) file. The number of exemptions and AGI are based on the year 2 tax return.

#### E.2.a State Inflow Records

Each state file contains five header records that show (1) the total U.S. and foreign in-migration for that state, (2) the total U.S. in-migration, (3) the total foreign in-migration, (4) the total same state migration for that state, and (5) the total non-migrants. Below is an example of the state-to-state inflow header:

Destination into Oregon			Origin from	Number of returns	Number of exemptions	Adjusted gross income (AGI)
(State Code)	State Code	State	State Name			
	State Code	State	State Name	(1)	(2)	(3)
41	96	OR	OR Total Migration-US and Foreign	57,751	104,220	3,074,675
41	97	OR	OR Total Migration-US	57,003	102,680	3,029,966
41	98	OR	OR Total Migration-Foreign	748	1,540	44,709
41	97	OR	OR Total Migration-Same State	55,950	99,378	2,588,597
41	41	OR	OR Non-migrants	1,371,053	2,916,132	88,819,999

Following the header records are the state-to-state in-migration records that have been ranked, in descending order, by the number of returns.

#### E.2.b State Inflow Record Layout

The State Inflow files are available as a MS Excel spreadsheet or a CSV (comma separated) file. The files have the following naming convention:

- Individual state Excel files (State Inflow Tab) 1718XX.xls (XX = AL-WY)
- A comma separated file stateinflow1718.csv

Below is the record layout for the State Inflow comma separated file:

VARIABLE NAME	DESCRIPTION/VALUES
1. Y2_STATEFIPS	State FIPS Code of Destination from Year 2
	Alabama to Wyoming [2]01 to 56
2. Y1_STATEFIPS	State FIPS Code of Origin from Year 1

	Alabama to Wyoming [2]
3. Y1_STATE	State Abbreviation or Postal Code of Origin from Year 1  Alabama to Wyoming
4. Y1_STATE_NAME	State Name of Origin from Year 1  See Y1_STATEFIPS for list of names  NOTE: Non-migrants are identified as those whose state of destination is the same as their state of origin.
5. N1	Number of returns  Suppressed data value1 Potential values3 to 99999999
6. N2	Number of exemptions  Suppressed data value1 Potential values
7. AGI	Adjusted Gross Income (AGI)  Suppressed data value1 Potential values999999999999999999999999999999999

#### **E.3 County-to-County Outflow Files**

The County-to-County outflow migration files represent the migration flows from the origin state and county, in year one, to the destination state and county, in year two. There are 51 files for each state plus the District of Columbia. Included in the list of county flows are the number of returns that migrated to a foreign location [4]. The migration flows include the following county equivalents (Parishes in Louisiana, Boroughs, Census Areas, and municipalities in Alaska, independent cities, such as Baltimore, Maryland, and the District of Columbia).

Each file tabulates the number of returns, number of exemptions, and adjusted gross income (AGI) by county and is available as a MS Excel spreadsheet or as a CSV (comma separated) file. The number of exemptions and AGI are based on the year 2 tax return.

#### E.3.a County-to-County Outflow Records

Each state file contains five header records that show (1) The total U.S. and foreign out-migration for that state, (2) the total U.S. out-migration for that state, (3) the total same state migration for that state, (4) the total different state out-migration for that state, and (5) the total foreign out-migration for that state.

Each county within the county outflow files include the same five headers, as noted above, but at the county level, plus the number of non-migrants for that county. Below is an example of the County-to-County outflow header:

Origin from	n Delaware		Destination to				Number of	A divisted areas
State Code	County Code	State Code	County Code	State	County Name	Number of returns	Number of exemptions	Adjusted gross income (AGI)
Code	Code	Code	Code			(1)	(2)	(3)
10	000	96	000	DE	Total Migration-US and Foreign	19,259	35,254	1,057,256
10	000	97	000	DE	Total Migration-US	18,834	34,466	1,032,923
10	000	97	001	DE	Total Migration-Same State	3,772	7,129	152,080
10	000	97	003	DE	Total Migration-Different State	15,062	27,337	880,842
10	000	98	000	DE	Total Migration-Foreign	425	788	24,333
10	001	96	000	DE	Kent County Total Migration-US and Foreign	4,120	8,008	154,302
10	001	97	000	DE	Kent County Total Migration-US	3,989	7,735	148,878
10	001	97	001	DE	Kent County Total Migration-Same State	1,466	2,827	52,963
10	001	97	003	DE	Kent County Total Migration-Different State	2,523	4,908	95,914
10	001	98	000	DE	Kent County Total Migration-Foreign	131	273	5,425
10	001	10	001	DE	Kent County Non-migrants	57,756	125,697	3,014,664

Following the state header records are the county-to-county migration records that have been sorted first by county and then ranked, in descending order, by the number of returns.

Additionally, county-to-county flows that have less than 10 returns have been categorized into seven "Other flows" categories. The categories include:

- Other flows Same State represents returns that migrated to another county within the same state.
- (2) Other flows Different State represents returns that migrated to a different state and county.
- (3) Other flows Northeast represents returns that migrated to a Northeastern state. See list of states in section E.6.
- (4) Other flows Midwest represents returns that migrated to a Midwestern state. See list of states in section E.6.
- (5) Other flows South represents returns that migrated to a Southern state. See list of states in section E.6.
- (6) Other flows West represents returns that migrated to a Western state. See list of states in section E.6.
- (7) Foreign Other flows represents returns that migrated to a foreign location [4].

## E.3.b County-to-County Outflow Record Layout

The County Outflow files are available as a MS Excel spreadsheet or a CSV (comma separated) file. The files have the following naming convention:

- Individual state Excel files (County Outflow Tab) **1718XX.xls** (XX = AL-WY)
- A comma separated file countyoutflow1718.csv

Below is the record layout for the County Outflow comma separated file:

VARIABLE NAME	DESCRIPTION/VALUES
1. Y1_STATEFIPS	State FIPS Code of Origin from Year 1
	Alabama to Wyoming [2]01 to 56
2. Y1_COUNTYFIPS	County FIPS Code of Origin from Year 1
	State total record
3. Y2_STATEFIPS	State FIPS Code of Destination from Year 2
	Alabama to Wyoming [2]
4. Y2_COUNTYFIPS	County FIPS code of Destination from Year 2
	State total record
5. Y2_STATE	State Abbreviation or Postal Code of Destination from Year 2
	Alabama to Wyoming
6. Y2_COUNTYNAME	County Name of Destination from Year 2
	NOTE: The county or county equivalent name is based on the actual state county name, except as noted below. See section E.6 for a full list of summary level records.  For state total records, the name will take the following format:  Total Migration – US and Foreign  Total Migration – US  Total Migration – Same State  Total Migration – Different State  Total Migration – Foreign

For county total records, the name will take the following format: [State County Name] Total Migration – US and Foreign [State County Name] Total Migration - US [State County Name] Total Migration - Same State [State County Name] Total Migration - Different State [State County Name] Total Migration - Foreign For non-migrant records, the name will take the following format: [State County Name] Non-migrants For the foreign records, the name will take the following format: Foreign – Overseas Foreign - Puerto Rico Foreign - APO/FPO ZIPs Foreign – US Virgin Islands For the other flows records, the name will take the following format: Other flows - Same State Other flows - Different State Other flows - Northeast Other flows - Midwest Other flows - South Other flows - West Foreign - other flows Number of returns 7. N1 Suppressed data value.....-1 Potential values......3 to 999999999 8. N2 Number of exemptions Suppressed data value.....-1 Potential values 3 to 999999999 9. AGI Adjusted Gross Income (AGI) Suppressed data value.....-1 Potential values.....-999999999 to 999999999 NOTE: AGI is reported in thousands of dollars. Amounts include records with adjusted gross deficit. AGI is based on the year 2 tax return.

#### E.4 County-to-County Inflow Files

The County-to-County inflow migration files represent the migration flows into the destination state and county, in year one, from the origin state and county, in year two. There are 51 files for each State plus the District of Columbia. Included in the list of county flows are the number of returns that migrated from a foreign location [4]. The migration flows include the following county equivalents (Parishes in Louisiana, Boroughs, Census Areas, and municipalities in Alaska, independent cities, such as Baltimore, Maryland, and the District of Columbia).

Each file tabulates the number of returns, number of exemptions, and adjusted gross income (AGI) by county and is available as a MS Excel spreadsheet or as a CSV (comma separated) file. The number of exemptions and AGI are based on the year 2 tax return.

#### E.4.a County-to-County Inflow Records

Each state file contains five header records that show (1) The total U.S. and foreign in-migration for that state, (2) the total U.S. in-migration for that state, (3) the total same state migration for that state, (4) the total different state in-migration for that state, and (5) the total foreign in-migration for that state.

Each county within the county inflow files also includes the same five headers, as noted above, but at the county level, plus the number of non-migrants for that county. Below is an example of the County-to-County inflow header:

Destination into Arizona				Origin from		Number of returns	Number of exemptions	Adjusted gross income (AGI)
State	County	State	County	State	County Name	(1)		(-)
Code	Code	Code	Code		,	(1)	(2)	(3)
04	000	96	000	AZ	Total Migration-US and Foreign	140,915	279,663	6,951,568
04	000	97	000	AZ	Total Migration-US	138,527	274,263	6,837,568
04	000	97	001	AZ	Total Migration-Same State	39,797	83,947	1,578,872
04	000	97	003	AZ	Total Migration-Different State	98,730	190,316	5,258,696
04	000	98	000	AZ	Total Migration-Foreign	2,388	5,400	114,001
04	001	96	000	AZ	Apache County Total Migration-US and Foreign	1,998	4,917	63,007
04	001	97	000	AZ	Apache County Total Migration-US	1,998	4,917	63,007
04	001	97	001	AZ	Apache County Total Migration-Same State	910	2,265	30,060
04	001	97	003	AZ	Apache County Total Migration- Different State	1,088	2,652	32,947
04	001	98	000	AZ	Apache County Total Migration- Foreign	d	d	d
04	001	04	001	AZ	Apache County Non-migrants	17,799	48,121	681,894

Following the state header records are the county-to-county migration records that have been sorted first by county and then ranked, in descending order, by the number of returns.

Additionally, county-to-county flows that have less than 10 returns have been categorized into seven "Other flows" categories. The categories include:

- (1) Other flows Same State represents returns that migrated from another county within the same state.
- (2) Other flows Different State represents returns that migrated from a different state and county.
- (3) Other flows Northeast represents returns that migrated from a Northeastern state. See list of states in section E.6.
- (4) Other flows Midwest represents returns that migrated from a Midwestern state. See list of states in section E.6.
- (5) Other flows South represents returns that migrated from a Southern state. See list of states in section E.6.
- (6) Other flows West represents returns that migrated from a Western state. See list of states in section E.6.
- (7) Foreign Other flows represents returns that migrated from a foreign location [4].

#### E.4.b County-to-County Inflow Record Layout

The County Inflow files are available as a MS Excel spreadsheet or a CSV (comma separated) file. The files have the following naming convention:

- Individual state Excel files (County Inflow Tab) 1718XX.xls (XX = AL-WY)
- A comma separated file countyinflow1718.csv

Below is the record layout for the County Outflow comma separated file:

VARIABLE NAME	DESCRIPTION/VALUES
1. Y2_STATEFIPS	State FIPS Code of Destination from Year 2
	Alabama to Wyoming [2]01 to 56
2. Y2_COUNTYFIPS	County FIPS Code of Destination from Year 2
	State total record
3. Y1_STATEFIPS	State FIPS Code of Origin from Year 1
	Alabama to Wyoming [2]
4. Y1_COUNTYFIPS	County FIPS code of Origin from Year 1
	State total record
5. Y1_STATE	State Abbreviation or Postal Code of Origin from Year 1
	Alabama to Wyoming
6. Y1_COUNTYNAME	County Name of Origin from Year 1
	NOTE: The county or county equivalent name is based on the actual state county name, except as noted below. See section E.6 for a full list of summary level records.
	For state total records, the name will take the following format:  Total Migration – US and Foreign Total Migration – US Total Migration – Same State Total Migration – Different State Total Migration – Foreign
	For county total records, the name will take the following format:  [State County Name] Total Migration – US and Foreign  [State County Name] Total Migration – US  [State County Name] Total Migration – Same State  [State County Name] Total Migration – Different State  [State County Name] Total Migration – Foreign

For non-migrant records, the name will take the following format: [State County Name] Non-migrants For the foreign records, the name will take the following format: Foreign – Overseas Foreign - Puerto Rico Foreign – APO/FPO ZIPs Foreign - US Virgin Islands For the other flows records, the name will take the following format: Other flows - Same State Other flows - Different State Other flows - Northeast Other flows - Midwest Other flows - South Other flows - West Foreign - other flows 7. N1 Number of returns Suppressed data value.....-1 8. N2 Number of exemptions Suppressed data value.....-1 Potential values......3 to 999999999 9. AGI Adjusted Gross Income (AGI) Suppressed data value.....-1 Potential values.....-999999999 to 999999999 NOTE: AGI is reported in thousands of dollars. Amounts include records with adjusted gross deficit. AGI is based on the year 2 tax return.

#### **E.5 Gross Migration File**

The Gross Migration file is a summary of the migration flows for each state, plus the District of Columbia [5]. The data are divided into five return groups that include: (1) the total number of matched returns; (2) the number of non-migrant returns; (3) the number of outflow returns; (4) the number of inflow returns; and (5) the number of same state returns [6]. Each group is further divided into six age categories. Returns are categorized by age based on the date of birth of the primary taxpayer only. The six age categories include: (1) under 26; (2) 26 under 35; (3) 35 under 45; (4) 45 under 55; (5) 55 under 65; and (6) 65 and over. Each grouping also includes a tally for all ages.

In addition to the groupings mentioned above, the data for each state is also divided into seven adjusted gross income (AGI) classes, plus a total for all income classes. The AGI class is based on the AGI in year 2. The AGI classes include (1) \$1 under \$10,000; (2) \$10,000 under \$25,000; (3) \$25,000 under \$50,000; (4) \$50,000 under \$75,000; (5) \$75,000 under \$100,000; (6) \$100,000 under \$200,000; and (7) \$200,000 or more. The gross migration file does not include returns with adjusted gross deficit. The file tabulates the number of returns, number of exemptions, the year 1 AGI (2017), and the year 2 AGI (2018) for each of the six age categories, within the five return groupings, by state and AGI class. Due to the omission of returns with adjust gross deficit, the state totals will not match similar totals in the state-to-state files.

The number of exemptions is based on the year 2 tax return and all AGI amounts are reported in thousands of dollars.

## E.5.a Gross Migration File Record Layout

The Gross Migration file is available as a MS Excel spreadsheet or a CSV (comma separated) file. The files have the following naming convention:

- Individual Excel file 1718inmigall.xls
- A comma separated file 1718inmigall.csv

Below is the record layout for the Gross Migration comma separated file:

VARIABLE NAME	DESCRIPTION/VALUES
1. STATEFIPS	State FIPS Code
	Alabama to Wyoming [2]01 to 56
2. STATE	State Abbreviation or Postal Code
	Alabama to Wyoming AL to WY
3. STATE_NAME	State Name
	See STATEFIPS for list of names
4. AGI_STUB	Size of adjusted gross income
	All AGI classes
5. TOTAL_N1_0	Total Returns - number of returns, all ages
	Potential values0, 10 to 99999999
6. TOTAL_N2_0	Total Returns – number of exemptions, all ages
	Potential values0, 10 to 99999999
7. TOTAL_Y1_AGI_0	Total Returns – adjusted gross income from Year 1, all ages
	Potential values 0 to 999999999
8. TOTAL_Y2_AGI_0	Total Returns – adjusted gross income from Year 2, all ages
	Potential values 0 to 999999999
9. TOTAL_N1_1	Total Returns - number of returns, primary taxpayers under age 26
	Potential values0, 10 to 99999999
10. TOTAL_N2_1	Total Returns – number of exemptions, primary taxpayers under age 26
	Potential values0, 10 to 99999999

11. TOTAL_Y1_AGI_1	Total Returns – adjusted gross income from Year 1, primary taxpayers under age 26				
	Potential values 0 to 99999999				
12. TOTAL_Y2_AGI_1	Total Returns – adjusted gross income from Year 2, primary taxpayers under age 26				
	Potential values 0 to 999999999				
13. TOTAL_N1_2	Total Returns - number of returns, primary taxpayers ages 26 under 35				
	Potential values0, 10 to 99999999				
14. TOTAL_N2_2	Total Returns – number of exemptions, primary taxpayers ages 26 under 35				
	Potential values0, 10 to 99999999				
15. TOTAL_Y1_AGI_2	Total Returns – adjusted gross income from Year 1, primary taxpayers ages 26 under 35				
	Potential values 0 to 999999999				
16. TOTAL_Y2_AGI_2	Total Returns – adjusted gross income from Year 2, primary taxpayers ages 26 under 35				
	Potential values 0 to 99999999				
17. TOTAL_N1_3	Total Returns - number of returns, primary taxpayers ages 35 under 45				
	Potential values0, 10 to 99999999				
18. TOTAL_N2_3	Total Returns – number of exemptions, primary taxpayers ages 35 under 45				
	Potential values0, 10 to 99999999				
19. TOTAL_Y1_AGI_3	Total Returns – adjusted gross income from Year 1, primary taxpayers ages 35 under 45				
	Potential values 0 to 999999999				
20. TOTAL_Y2_AGI_2	Total Returns – adjusted gross income from Year 2, primary taxpayers ages 26 under 35				
	Potential values 0 to 999999999				
21. TOTAL_N1_4	Total Returns - number of returns, primary taxpayers ages 45 under 55				
	Potential values0, 10 to 99999999				
22. TOTAL_N2_4	Total Returns – number of exemptions, primary taxpayers ages 45 under 55				
	Potential values0, 10 to 99999999				
23. TOTAL_Y1_AGI_4	Total Returns – adjusted gross income from Year 1, primary taxpayers ages 45 under 55				
	Potential values 0 to 999999999				
24. TOTAL_Y2_AGI_4	Total Returns – adjusted gross income from Year 2, primary taxpayers ages 45 under 55				
	Potential values 0 to 999999999				
25. TOTAL_N1_5	Total Returns - number of returns, primary taxpayers ages 55 under 65				
	Potential values0, 10 to 99999999				

26. TOTAL_N2_5	Total Returns – number of exemptions, primary taxpayers ages 55 under 65				
	Potential values0, 10 to 99999999				
27. TOTAL_Y1_AGI_5	Total Returns – adjusted gross income from Year 1, primary taxpayers ages 55 under 65				
	Potential values 0 to 999999999				
28. TOTAL_Y2_AGI_5	Total Returns – adjusted gross income from Year 2, primary taxpayers ages 55 under 65				
	Potential values 0 to 99999999				
29. TOTAL_N1_6	Total Returns - number of returns, primary taxpayers ages 65 and over				
	Potential values0, 10 to 999999999				
30. TOTAL_N2_6	Total Returns – number of exemptions, primary taxpayers ages 65 and over				
	Potential values0, 10 to 999999999				
31. TOTAL_Y1_AGI_6	Total Returns – adjusted gross income from Year 1, primary taxpayers ages 65 and over				
	Potential values 0 to 99999999				
32. TOTAL_Y2_AGI_6	Total Returns – adjusted gross income from Year 2, primary taxpayers ages 65 and over				
	Potential values 0 to 999999999				
33. NONMIG_N1_0	Non-migrant Returns - number of returns, all ages				
	Potential values0, 10 to 99999999				
34. NONMIG_N2_0	Non-migrant Returns – number of exemptions, all ages				
	Potential values0, 10 to 99999999				
35. NONMIG_Y1_AGI_0	Non-migrant Returns – adjusted gross income from Year 1, all ages				
	Potential values 0 to 99999999				
36. NONMIG_Y2_AGI_0	Non-migrant Returns – adjusted gross income from Year 2, all ages				
	Potential values 0 to 99999999				
37. NONMIG_N1_1	Non-migrant Returns - number of returns, primary taxpayers under age 26				
	Potential values0, 10 to 999999999				
38. NONMIG_N2_1	Non-migrant Returns – number of exemptions, primary taxpayers under age 26				
	Potential values0, 10 to 99999999				
39. NONMIG_Y1_AGI_1	Non-migrant Returns – adjusted gross income from Year 1, primary taxpayers under age 26				
	Potential values 0 to 99999999				
40. NONMIG_Y2_AGI_1	Non-migrant Returns – adjusted gross income from Year 2, primary taxpayers under age 26				
	Potential values 0 to 99999999				

41. NONMIG_N1_2	Non-migrant Returns - number of returns, primary taxpayers ages 26 under 35			
	Potential values0, 10 to 99999999			
42. NONMIG_N2_2	Non-migrant Returns – number of exemptions, primary taxpayers ages 26 under 35			
	Potential values0, 10 to 99999999			
43. NONMIG_Y1_AGI_2	Non-migrant Returns – adjusted gross income from Year 1, primary taxpayers ages 26 under 35			
	Potential values 0 to 99999999			
44. NONMIG_Y2_AGI_2	Non-migrant Returns – adjusted gross income from Year 2, primary taxpayers ages 26 under 35			
	Potential values 0 to 999999999			
45. NONMIG_N1_3	Non-migrant Returns - number of returns, primary taxpayers ages 35 under 45			
	Potential values0, 10 to 99999999			
46. NONMIG_N2_3	Non-migrant Returns – number of exemptions, primary taxpayers ages 35 under 45			
	Potential values0, 10 to 99999999			
47. NONMIG_Y1_AGI_3	Non-migrant Returns – adjusted gross income from Year 1, primary taxpayers ages 35 under 45			
	Potential values 0 to 99999999			
48. NONMIG_Y2_AGI_3	Non-migrant Returns – adjusted gross income from Year 2, primary taxpayers ages 35 under 45			
	Potential values 0 to 99999999			
49. NONMIG_N1_4	Non-migrant Returns - number of returns, primary taxpayers ages 45 under 55			
	Potential values0, 10 to 99999999			
50. NONMIG_N2_4	Non-migrant Returns – number of exemptions, primary taxpayers ages 45 under 55			
	Potential values0, 10 to 99999999			
51. NONMIG_Y1_AGI_4	Non-migrant Returns – adjusted gross income from Year 1, primary taxpayers ages 45 under 55			
	Potential values 0 to 999999999			
52. NONMIG_Y2_AGI_4	Non-migrant Returns – adjusted gross income from Year 2, primary taxpayers ages 45 under 55			
	Potential values 0 to 999999999			
53. NONMIG_N1_5	Non-migrant Returns - number of returns, primary taxpayers ages 55 under 65			
	Potential values0, 10 to 99999999			
54. NONMIG_N2_5	Non-migrant Returns – number of exemptions, primary taxpayers ages 55 under 65			
	Potential values0, 10 to 99999999			
55. NONMIG_Y1_AGI_5	Non-migrant Returns – adjusted gross income from Year 1, primary taxpayers ages 55 under 65			
	Potential values 0 to 99999999			

56. NONMIG_Y2_AGI_5	Non-migrant Returns – adjusted gross income from Year 2, primary taxpayers ages 55 under 65				
	Potential values 0 to 999999999				
57. NONMIG_N1_6	Non-migrant Returns - number of returns, primary taxpayers ages 65 and over				
	Potential values0, 10 to 99999999				
58. NONMIG_N2_6	Non-migrant Returns – number of exemptions, primary taxpayers ages 65 and over				
	Potential values0, 10 to 99999999				
59. NONMIG_Y1_AGI_6	Non-migrant Returns – adjusted gross income from Year 1, primary taxpayers ages 65 and over				
	Potential values 0 to 99999999				
60. NONMIG_Y2_AGI_6	Non-migrant Returns – adjusted gross income from Year 2, primary taxpayers ages 65 and over				
	Potential values 0 to 999999999				
61. OUTFLOW_N1_0	Outflow Returns - number of returns, all ages				
	Potential values0, 10 to 99999999				
62. OUTFLOW_N2_0	Outflow Returns – number of exemptions, all ages				
	Potential values0, 10 to 99999999				
63. OUTFLOW_Y1_AGI_0	Outflow Returns – adjusted gross income from Year 1, all ages				
	Potential values 0 to 99999999				
64. OUTFLOW_Y2_AGI_0	Outflow Returns – adjusted gross income from Year 2, all ages				
	Potential values 0 to 999999999				
65. OUTFLOW_N1_1	Outflow Returns - number of returns, primary taxpayers under age 26				
	Potential values0, 10 to 999999999				
66. OUTFLOW_N2_1	Outflow Returns – number of exemptions, primary taxpayers under age 26				
	Potential values0, 10 to 999999999				
67. OUTFLOW_Y1_AGI_1	Outflow Returns – adjusted gross income from Year 1, primary taxpayers under age 26				
	Potential values 0 to 999999999				
68. OUTFLOW_Y2_AGI_1	Outflow Returns – adjusted gross income from Year 2, primary taxpayers under age 26				
	Potential values 0 to 999999999				
69. OUTFLOW_N1_2	Outflow Returns - number of returns, primary taxpayers ages 26 under 35				
	Potential values0, 10 to 99999999				
70. OUTFLOW_N2_2	Outflow Returns – number of exemptions, primary taxpayers ages 26 under 35				
	Potential values0, 10 to 999999999				

71. OUTFLOW_Y1_AGI_2	Outflow Returns – adjusted gross income from Year 1, primary taxpayers ages 26 under 35				
	Potential values 0 to 99999999				
72. OUTFLOW_Y2_AGI_2	Outflow Returns – adjusted gross income from Year 2, primary taxpayers ages 26 under 35				
	Potential values 0 to 999999999				
73. OUTFLOW_N1_3	Outflow Returns - number of returns, primary taxpayers ages 35 under 45				
	Potential values0, 10 to 99999999				
74. OUTFLOW_N2_3	Outflow Returns – number of exemptions, primary taxpayers ages 35 under 45				
	Potential values0, 10 to 99999999				
75. OUTFLOW_Y1_AGI_3	Outflow Returns – adjusted gross income from Year 1, primary taxpayers ages 35 under 45				
	Potential values 0 to 999999999				
76. OUTFLOW_Y2_AGI_3	Outflow Returns – adjusted gross income from Year 2, primary taxpayers ages 35 under 45				
	Potential values 0 to 999999999				
77. OUTFLOW_N1_4	Outflow Returns - number of returns, primary taxpayers ages 45 under 55				
	Potential values0, 10 to 99999999				
78. OUTFLOW_N2_4	Outflow Returns – number of exemptions, primary taxpayers ages 45 under 55				
	Potential values0, 10 to 99999999				
79. OUTFLOW_Y1_AGI_4	Outflow Returns – adjusted gross income from Year 1, primary taxpayers ages 45 under 55				
	Potential values 0 to 99999999				
80. OUTFLOW_Y2_AGI_4	Outflow Returns – adjusted gross income from Year 2, primary taxpayers ages 45 under 55				
	Potential values 0 to 999999999				
81. OUTFLOW_N1_5	Outflow Returns - number of returns, primary taxpayers ages 55 under 65				
	Potential values0, 10 to 99999999				
82. OUTFLOW_N2_5	Outflow Returns – number of exemptions, primary taxpayers ages 55 under 65				
83. OUTFLOW_Y1_AGI_5	Potential values0, 10 to 999999999  Outflow Returns – adjusted gross income from Year 1, primary taxpayers ages 55 under 65				
	Potential values 0 to 99999999				
84. OUTFLOW_Y2_AGI_5	Outflow Returns – adjusted gross income from Year 2, primary taxpayers ages 55 under 65				
	Potential values 0 to 99999999				
85. OUTFLOW_N1_6	Outflow Returns - number of returns, primary taxpayers ages 65 and over				
	Potential values0, 10 to 99999999				

86. OUTFLOW_N2_6	Outflow Returns – number of exemptions, primary taxpayers ages 65 and over				
	Potential values0, 10 to 99999999				
87. OUTFLOW_Y1_AGI_6	Outflow Returns – adjusted gross income from Year 1, primary taxpayers ages 65 and over				
	Potential values 0 to 999999999				
88. OUTFLOW_Y2_AGI_6	Outflow Returns – adjusted gross income from Year 2, primary taxpayers ages 65 and over				
	Potential values 0 to 999999999				
89. INFLOW_N1_0	Inflow Returns - number of returns, all ages				
	Potential values0, 10 to 99999999				
90. INFLOW_N2_0	Inflow Returns – number of exemptions, all ages				
	Potential values0, 10 to 99999999				
91. INFLOW_Y1_AGI_0	Inflow Returns – adjusted gross income from Year 1, all ages				
	Potential values 0 to 99999999				
92. INFLOW_Y2_AGI_0	Inflow Returns – adjusted gross income from Year 2, all ages				
	Potential values 0 to 99999999				
93. INFLOW_N1_1	Inflow Returns - number of returns, primary taxpayers under age 26				
	Potential values0, 10 to 99999999				
94. INFLOW_N2_1	Inflow Returns – number of exemptions, primary taxpayers under age 26				
	Potential values0, 10 to 99999999				
95. INFLOW_Y1_AGI_1	Inflow Returns – adjusted gross income from Year 1, primary taxpayers under age 26				
	Potential values 0 to 99999999				
96. INFLOW_Y2_AGI_1	Inflow Returns – adjusted gross income from Year 2, primary taxpayers under age 26				
	Potential values 0 to 99999999				
97. INFLOW_N1_2	Inflow Returns - number of returns, primary taxpayers ages 26 under 35				
	Potential values0, 10 to 99999999				
98. INFLOW_N2_2	Inflow Returns – number of exemptions, primary taxpayers ages 26 under 35				
	Potential values0, 10 to 99999999				
99. INFLOW_Y1_AGI_2	Inflow Returns – adjusted gross income from Year 1, primary taxpayers ages 26 under 35				
	Potential values 0 to 99999999				
100. INFLOW_Y2_AGI_2	Inflow Returns – adjusted gross income from Year 2, primary taxpayers ages 26 under 35				
	Potential values 0 to 999999999				

101.	INFLOW_N1_3	Inflow Returns - number of returns, primary taxpayers ages 35 under 45
		Potential values0, 10 to 999999999
102.	INFLOW_N2_3	Inflow Returns – number of exemptions, primary taxpayers ages 35 under 45
		Potential values0, 10 to 999999999
103.	INFLOW_Y1_AGI_3	Inflow Returns – adjusted gross income from Year 1, primary taxpayers ages 35 under 45
		Potential values 0 to 999999999
104.	INFLOW_Y2_AGI_3	Inflow Returns – adjusted gross income from Year 2, primary taxpayers ages 35 under 45
		Potential values 0 to 99999999
105.	INFLOW_N1_4	Inflow Returns - number of returns, primary taxpayers ages 45 under 55
		Potential values0, 10 to 999999999
106.	INFLOW_N2_4	Inflow Returns – number of exemptions, primary taxpayers ages 45 under 55
		Potential values0, 10 to 99999999
107.	INFLOW_Y1_AGI_4	Inflow Returns – adjusted gross income from Year 1, primary taxpayers ages 45 under 55
		Potential values 0 to 999999999
108.	INFLOW_Y2_AGI_4	Inflow Returns – adjusted gross income from Year 2, primary taxpayers ages 45 under 55
		Potential values 0 to 999999999
109.	INFLOW_N1_5	Inflow Returns - number of returns, primary taxpayers ages 55 under 65
		Potential values0, 10 to 999999999
110.	INFLOW_N2_5	Inflow Returns – number of exemptions, primary taxpayers ages 55 under 65
		Potential values0, 10 to 999999999
111.	INFLOW_Y1_AGI_5	Inflow Returns – adjusted gross income from Year 1, primary taxpayers ages 55 under 65
		Potential values 0 to 999999999
112.	INFLOW_Y2_AGI_5	Inflow Returns – adjusted gross income from Year 2, primary taxpayers ages 55 under 65
113.	INFLOW_N1_6	Potential values
		Potential values0, 10 to 99999999
114.	INFLOW_N2_6	Inflow Returns – number of exemptions, primary taxpayers ages 65 and over
		Potential values
115.	INFLOW_Y1_AGI_6	Inflow Returns – adjusted gross income from Year 1, primary taxpayers ages 65 and over
		Potential values
		. Storidar valuoo 0 to 00000000

116.	INFLOW_Y2_AGI_6	Inflow Returns – adjusted gross income from Year 2, primary taxpayers ages 65 and over				
		Potential values 0 to 999999999				
117.	SAMEST_N1_0	Same State Returns - number of returns, all ages				
		Potential values0, 10 to 99999999				
118.	SAMEST_N2_0	Same State Returns – number of exemptions, all ages				
		Potential values0, 10 to 999999999				
119.	SAMEST_Y1_AGI_0	Same State Returns – adjusted gross income from Year 1, all ages				
		Potential values 0 to 999999999				
120.	SAMEST_Y2_AGI_0	Same State Returns – adjusted gross income from Year 2, all ages				
		Potential values 0 to 999999999				
121.	SAMEST_N1_1	Same State Returns - number of returns, primary taxpayers under age 26				
		Potential values0, 10 to 99999999				
122.	SAMEST_N2_1	Same State Returns – number of exemptions, primary taxpayers under age 26				
		Potential values0, 10 to 999999999				
123.	SAMEST_Y1_AGI_1	Same State Returns – adjusted gross income from Year 1, primary taxpayers under age 26				
		Potential values 0 to 999999999				
124.	SAMEST_Y2_AGI_1	Same State Returns – adjusted gross income from Year 2, primary taxpayers under age 26				
		Potential values 0 to 999999999				
125.	SAMEST_N1_2	Same State Returns - number of returns, primary taxpayers ages 26 under 35				
		Potential values0, 10 to 99999999				
126.	SAMEST_N2_2	Same State Returns – number of exemptions, primary taxpayers ages 26 under 35				
		Potential values0, 10 to 999999999				
127.	SAMEST_Y1_AGI_2	Same State Returns – adjusted gross income from Year 1, primary taxpayers ages 26 under 35				
		Potential values 0 to 999999999				
128.	SAMEST_Y2_AGI_2	Same State Returns – adjusted gross income from Year 2, primary taxpayers ages 26 under 35				
		Potential values 0 to 999999999				
129.	SAMEST_N1_3	Same State Returns - number of returns, primary taxpayers ages 35 under 45				
		Potential values0, 10 to 99999999				
130.	SAMEST_N2_3	Same State Returns – number of exemptions, primary taxpayers ages 35 under 45				
		Potential values0, 10 to 99999999				

131. SAMEST_Y1_AGI_3	Same State Returns – adjusted gross income from Year 1, primary taxpayers ages 35 under 45
	Potential values 0 to 99999999
132. SAMEST_Y2_AGI_3	Same State Returns – adjusted gross income from Year 2, primary taxpayers ages 35 under 45
	Potential values 0 to 999999999
133. SAMEST_N1_4	Same State Returns - number of returns, primary taxpayers ages 45 under 55
	Potential values0, 10 to 99999999
134. SAMEST_N2_4	Same State Returns – number of exemptions, primary taxpayers ages 45 under 55
	Potential values0, 10 to 99999999
135. SAMEST_Y1_AGI_4	Same State Returns – adjusted gross income from Year 1, primary taxpayers ages 45 under 55
	Potential values 0 to 99999999
136. SAMEST_Y2_AGI_4	Same State Returns – adjusted gross income from Year 2, primary taxpayers ages 45 under 55
	Potential values 0 to 999999999
137. SAMEST_N1_5	Same State Returns - number of returns, primary taxpayers ages 55 under 65
	Potential values0, 10 to 999999999
138. SAMEST_N2_5	Same State Returns – number of exemptions, primary taxpayers ages 55 under 65
	Potential values0, 10 to 99999999
139. SAMEST_Y1_AGI_5	Same State Returns – adjusted gross income from Year 1, primary taxpayers ages 55 under 65
	Potential values 0 to 99999999
140. SAMEST_Y2_AGI_5	Same State Returns – adjusted gross income from Year 2, primary taxpayers ages 55 under 65
	Potential values 0 to 99999999
141. SAMEST_N1_6	Same State Returns - number of returns, primary taxpayers ages 65 and over
	Potential values0, 10 to 99999999
142. SAMEST_N2_6	Same State Returns – number of exemptions, primary taxpayers ages 65 and over
	Potential values0, 10 to 999999999
143. SAMEST_Y1_AGI_6	Same State Returns – adjusted gross income from Year 1, primary taxpayers ages 65 and over
	Potential values 0 to 99999999
144. SAMEST_Y2_AGI_6	Same State Returns – adjusted gross income from Year 2, primary taxpayers ages 65 and over
	Potential values 0 to 999999999

## **E.6 Special Summary Level Records**

Special summary level records have been created specifically for the migration data. The names, State FIPS, and County FIPS codes will take on the following format:

## **State Total Migration Flows:**

_	State	County
	FIPS	FIPS
Total Migration – US and Foreign	96	000
Total Migration – US	97	000
Total Migration – Same State	97	001
Total Migration – Different State	97	003
Total Migration – Foreign	98	000

#### **Non-Migrants:**

Non-migrant records can be identified where the origin state and county codes are the same as the destination state and county codes.

## Foreign Flows:

	State	State	County
	Abbre	v. FIPS	FIPS
Foreign - Overseas	FR	57	001
Foreign - Puerto Rico	FR	57	003
Foreign - APO/FPO ZIPs	FR	57	005
Foreign - Virgin Islands, U.S	FR	57	007

## **County Total Migration Flows:**

<b>, ,</b>	State FIPS	County FIPS
[State County Name] Total Migration – US and Foreign	96	000
[State County Name] Total Migration – US	97	000
[State County Name] Total Migration – Same State	97	001
[State County Name] Total Migration – Different State	97	003
[State County Name] Total Migration – Foreign	98	000

#### Other Flows:

	State	State	County
	Abbrev	. FIPS	FIPS
Other Flows - Same State	SS	58	000
Other Flows - Different State	DS	59	000
Other Flows - Northeast	DS	59	001
Other Flows - Midwest	DS	59	003
Other Flows - South	DS	59	005
Other Flows - West	DS	59	007
Foreign - Other flows	FR	57	009

# Northeast Region (59-001) Midwest Region (59-003) Connecticut (09-000) Illinois (17-000) Ohio (39-000)

Connecticut (	(09-000)	IIIInois (17-000)	Onio (39-000)	
Maine (	(23-000)	Indiana (18-000)	South Dakota	(46-000)
Massachusetts (	(25-000)	lowa (19-000)	Wisconsin	(55-000)
New Hampshire	(33-000)	Kansas (20-000)		
New Jersey (	(34-000)	Michigan (26-000)		
New York (	(36-000)	Minnesota (27-000)		
Pennsylvania	(42-000)	Missouri (29-000)		
Rhode Island	(44-000)	Nebraska (31-000)		
Vermont (	(50-000)	North Dakota (38-000)		

## South Region (59-005)

Alabama (01-000) Arkansas (05-000) Delaware (10-000) D.C. (11-000)Florida (12-000)Georgia (13-000)Kentucky (21-000) Louisiana (22-000) Maryland (24-000)Mississippi (28-000) North Carolina (37-000) Oklahoma (40-000)South Carolina (45-000) Tennessee (47-000)Texas (48-000)Virginia (51-000)

West Virginia (54-000)

## West Region (59-007)

Alaska (02-000)
Arizona (04-000)
California (06-000)
Colorado (08-000)
Hawaii (15-000)
Idaho (16-000)
Montana (30-000)
Nevada (32-000)
New Mexico (35-000)
Oregon (41-000)
Utah (49-000)
Washington (53-000)
Wyoming (56-000)

## F. Appendix 1

Table 1: Counties with a Net Change Greater than 100 Returns by Absolute Value of the Net Percentage Change, based on the 2017 and 2018 ZIP Code-to-County Codebooks

State	County FIPS code	County name	Net percentage change
GA	053	Chattahoochee County	11.73
LA	023	Cameron Parish	7.42
OK	083	Logan County	3.83
ID	015	Boise County	-3.68
VA	830	Williamsburg city	2.96
TX	351	Newton County	2.70
LA	091	St. Helena Parish	-2.65
ОН	159	Union County	2.02
KY	121	Knox County	-2.00
FL	093	Okeechobee County	1.98
AR	021	Clay County	1.92
TX	071	Chambers County	-1.75
VA	053	Dinwiddie County	1.52
VA	730	Petersburg city	-1.23
SC	037	Edgefield County	1.13
TX	259	Kendall County	-1.07
LA	007	Assumption Parish	-1.07
GA	029	Bryan County	1.04
SC	031	Darlington County	1.04
IA	049	Dallas County	1.03
KY	125	Laurel County	0.96
GA	073	Columbia County	-0.95
NC	109	Lincoln County	0.91
NC	061	Duplin County	-0.82
AL	115	St. Clair County	0.79
FL	075	Levy County	0.74
SC	025	Chesterfield County	-0.72
GA	245	Richmond County	0.71
AL	083	Limestone County	0.70
OK	145	Wagoner County	-0.69
WI	015	Calumet County	0.68
AR	055	Greene County	-0.68
VA	187	Warren County	-0.68
FL	055	Highlands County	-0.67
GA	031	Bulloch County	-0.65
NC	161	Rutherford County	0.65
OK	041	Delaware County	0.64
OK	017	Canadian County	0.64

СО	014	Broomfield County	0.59
OK	131	Rogers County	0.59
LA	015	Bossier Parish	0.58
MI	037	Clinton County	-0.58
NC	191	Wayne County	0.51
NC	035	Catawba County	-0.49
LA	101	St. Mary Parish	0.49
AL	113	Russell County	-0.47
OK	109	Oklahoma County	-0.47
TX	203	Harrison County	0.46
NC	045	Cleveland County	-0.46
PA	019	Butler County	-0.44
NM	035	Otero County	-0.43
NC	031	Carteret County	-0.42
SC	035	Dorchester County	-0.42
VA	095	James City County	-0.41
FL	131	Walton County	0.41
GA	215	Muscogee County	-0.40
IN	059	Hancock County	-0.38
NC	089	Henderson County	0.38
VA	069	Frederick County	0.37
VA	760	Richmond city	-0.36
TX	135	Ector County	0.32
MO	165	Platte County	0.31
OK	027	Cleveland County	0.31
KY	029	Bullitt County	-0.30
PA	125	Washington County	-0.30
NC	101	Johnston County	-0.29
LA	017	Caddo Parish	-0.28
SC	041	Florence County	-0.28
CO	123	Weld County	-0.28
LA	019	Calcasieu Parish	-0.28
TX	187	Guadalupe County	-0.27
TX	491	Williamson County	0.27
TX	183	Gregg County	-0.27
FL	035	Flagler County	0.24
LA	105	Tangipahoa Parish	0.24
AL	069	Houston County	0.24
FL	119	Sumter County	-0.23
VA	161	Roanoke County	0.23
ОН	165	Warren County	0.22
AR	143	Washington County	0.22
IA	153	Polk County	-0.21
NC	133	Onslow County	0.21

TX	329	Midland County	-0.21
SC	015	Berkeley County	0.21
NJ	041	Warren County	0.21
TN	187	Williamson County	-0.19
WI	087	Outagamie County	-0.19
TX	209	Hays County	0.18
AR	007	Benton County	-0.18
AL	081	Lee County	0.18
NC	021	Buncombe County	-0.18
TX	139	Ellis County	-0.18
TX	157	Fort Bend County	0.18
TX	167	Galveston County	0.17
FL	109	St. Johns County	0.16
AL	089	Madison County	-0.16
TN	165	Sumner County	-0.16
SC	003	Aiken County	-0.16
PA	007	Beaver County	-0.15
AL	073	Jefferson County	-0.14
CO	069	Larimer County	0.14
GA	139	Hall County	0.14
MI	065	Ingham County	0.14
CO	059	Jefferson County	0.13
OR	005	Clackamas County	0.13
NC	063	Durham County	-0.13
TN	037	Davidson County	0.13
TX	121	Denton County	0.13
PA	003	Allegheny County	0.13
FL	001	Alachua County	-0.12
NM	013	Dona Ana County	0.12
VA	087	Henrico County	0.12
TX	453	Travis County	-0.12
VA	041	Chesterfield County	0.12
ОН	113	Montgomery County	-0.12
СО	001	Adams County	-0.11
FL	091	Okaloosa County	-0.11
NC	183	Wake County	0.11
MD	005	Baltimore County	-0.10
GA	089	DeKalb County	0.09
KY	067	Fayette County	-0.08
ID	001	Ada County	0.08
ОН	049	Franklin County	-0.07
PA	091	Montgomery County	-0.07
PA	045	Delaware County	0.07
OR	051	Multnomah County	-0.07

PA	129	Westmoreland County	0.07
WA	053	Pierce County	-0.06
SC	019	Charleston County	0.06
PA	011	Berks County	0.06
TX	029	Bexar County	0.06
AR	119	Pulaski County	0.06
MD	510	Baltimore city	0.05
FL	127	Volusia County	-0.05
MD	033	Prince George's County	-0.05
TX	113	Dallas County	-0.05
TX	085	Collin County	0.04
MD	031	Montgomery County	0.04
CO	031	Denver County	-0.04
NJ	027	Morris County	-0.04
GA	135	Gwinnett County	-0.04
FL	031	Duval County	-0.04
CO	005	Arapahoe County	0.04
MO	095	Jackson County	-0.03
MO	189	St. Louis County	0.03
FL	095	Orange County	0.03
TX	439	Tarrant County	0.02
WA	033	King County	0.02
NY	005	Bronx County	-0.02
TX	201	Harris County	-0.02
FL	057	Hillsborough County	-0.02
CA	085	Santa Clara County	-0.01
IL	031	Cook County	0.01
CA	073	San Diego County	0.01

## G. Appendix 2

Table 2: Counties with a Net Change Greater than 100 Returns by State and County, based on the 2017 and 2018 ZIP Code-to-County Codebooks

State	County FIPS code	County name	Net percentage change
AL	069	Houston County	0.24
AL	073	Jefferson County	-0.14
AL	081	Lee County	0.18
AL	083	Limestone County	0.70
AL	089	Madison County	-0.16
AL	113	Russell County	-0.47
AL	115	St. Clair County	0.79
AR	007	Benton County	-0.18
AR	021	Clay County	1.92
AR	055	Greene County	-0.68
AR	119	Pulaski County	0.06
AR	143	Washington County	0.22
CA	073	San Diego County	0.01
CA	085	Santa Clara County	-0.01
СО	001	Adams County	-0.11
СО	005	Arapahoe County	0.04
СО	014	Broomfield County	0.59
СО	031	Denver County	-0.04
CO	059	Jefferson County	0.13
СО	069	Larimer County	0.14
СО	123	Weld County	-0.28
FL	001	Alachua County	-0.12
FL	031	Duval County	-0.04
FL	035	Flagler County	0.24
FL	055	Highlands County	-0.67
FL	057	Hillsborough County	-0.02
FL	075	Levy County	0.74
FL	091	Okaloosa County	-0.11
FL	093	Okeechobee County	1.98
FL	095	Orange County	0.03
FL	109	St. Johns County	0.16
FL	119	Sumter County	-0.23
FL	127	Volusia County	-0.05
FL	131	Walton County	0.41
GA	029	Bryan County	1.04
GA	031	Bulloch County	-0.65
GA	053	Chattahoochee County	11.73
GA	073	Columbia County	-0.95

GA	089	DeKalb County	0.09
GA	135	Gwinnett County	-0.04
GA	139	Hall County	0.14
GA	215	Muscogee County	-0.40
GA	245	Richmond County	0.71
IA	049	Dallas County	1.03
IA	153	Polk County	-0.21
ID	001	Ada County	0.08
ID	015	Boise County	-3.68
IL	031	Cook County	0.01
IN	059	Hancock County	-0.38
KY	029	Bullitt County	-0.30
KY	067	Fayette County	-0.08
KY	121	Knox County	-2.00
KY	125	Laurel County	0.96
LA	007	Assumption Parish	-1.07
LA	015	Bossier Parish	0.58
LA	017	Caddo Parish	-0.28
LA	019	Calcasieu Parish	-0.28
LA	023	Cameron Parish	7.42
LA	091	St. Helena Parish	-2.65
LA	101	St. Mary Parish	0.49
LA	105	Tangipahoa Parish	0.24
MD	005	Baltimore County	-0.10
MD	031	Montgomery County	0.04
MD	033	Prince George's County	-0.05
MD	510	Baltimore city	0.05
MI	037	Clinton County	-0.58
MI	065	Ingham County	0.14
MO	095	Jackson County	-0.03
MO	165	Platte County	0.31
MO	189	St. Louis County	0.03
NC	021	Buncombe County	-0.18
NC	031	Carteret County	-0.42
NC	035	Catawba County	-0.49
NC	045	Cleveland County	-0.46
NC	061	Duplin County	-0.82
NC	063	Durham County	-0.13
NC	089	Henderson County	0.38
NC	101	Johnston County	-0.29
NC	109	Lincoln County	0.91
NC	133	Onslow County	0.21
NC	161	Rutherford County	0.65
NC	183	Wake County	0.11

NC	191	Wayne County	0.51
NJ	027	Morris County	-0.04
NJ	041	Warren County	0.21
NM	013	Dona Ana County	0.12
NM	035	Otero County	-0.43
NY	005	Bronx County	-0.02
ОН	049	Franklin County	-0.07
ОН	113	Montgomery County	-0.12
ОН	159	Union County	2.02
ОН	165	Warren County	0.22
OK	017	Canadian County	0.64
OK	027	Cleveland County	0.31
OK	041	Delaware County	0.64
OK	083	Logan County	3.83
OK	109	Oklahoma County	-0.47
OK	131	Rogers County	0.59
OK	145	Wagoner County	-0.69
OR	005	Clackamas County	0.13
OR	051	Multnomah County	-0.07
PA	003	Allegheny County	0.13
PA	007	Beaver County	-0.15
PA	011	Berks County	0.06
PA	019	Butler County	-0.44
PA	045	Delaware County	0.07
PA	091	Montgomery County	-0.07
PA	125	Washington County	-0.30
PA	129	Westmoreland County	0.07
SC	003	Aiken County	-0.16
SC	015	Berkeley County	0.21
SC	019	Charleston County	0.06
SC	025	Chesterfield County	-0.72
SC	031	Darlington County	1.04
SC	035	Dorchester County	-0.42
SC	037	Edgefield County	1.13
SC	041	Florence County	-0.28
TN	037	Davidson County	0.13
TN	165	Sumner County	-0.16
TN	187	Williamson County	-0.19
TX	029	Bexar County	0.06
TX	071	Chambers County	-1.75
TX	085	Collin County	0.04
TX	113	Dallas County	-0.05
TX	121	Denton County	0.13
TX	135	Ector County	0.32

TX	139	Ellis County	-0.18
TX	157	Fort Bend County	0.18
TX	167	Galveston County	0.17
TX	183	Gregg County	-0.27
TX	187	Guadalupe County	-0.27
TX	201	Harris County	-0.02
TX	203	Harrison County	0.46
TX	209	Hays County	0.18
TX	259	Kendall County	-1.07
TX	329	Midland County	-0.21
TX	351	Newton County	2.70
TX	439	Tarrant County	0.02
TX	453	Travis County	-0.12
TX	491	Williamson County	0.27
VA	041	Chesterfield County	0.12
VA	053	Dinwiddie County	1.52
VA	069	Frederick County	0.37
VA	087	Henrico County	0.12
VA	095	James City County	-0.41
VA	161	Roanoke County	0.23
VA	187	Warren County	-0.68
VA	730	Petersburg city	-1.23
VA	760	Richmond city	-0.36
VA	830	Williamsburg city	2.96
WA	033	King County	0.02
WA	053	Pierce County	-0.06
WI	015	Calumet County	0.68
WI	087	Outagamie County	-0.19

#### H. Endnotes:

- [1] Totals from the migration data may not be comparable to other totals published by SOI because the migration data are based on individual returns and tax return filers that can be matched to two consecutive calendar years. Most of SOI's individual income tax tabulations are based on returns from only one calendar year.
- [2] The State and County Federal Information Processing System (FIPS) codes used for these statistics were derived from the U.S. Census Bureau. A complete list of codes can be obtained from <a href="http://www.census.gov/geo/reference/ansi.html">http://www.census.gov/geo/reference/ansi.html</a>.
- [3] Individuals can apply to the IRS for an Individual Taxpayer Identification Number (ITIN) for the purpose of filing a valid U.S. Federal income tax return. An ITIN is a special nine-digit tax processing number, beginning with the number "9". There are some instances where an individual will receive a valid Social Security Number (SSN) in place of their ITIN and must file their individual return using the SSN. Returns that switch between an ITIN and a SSN between two migration years will not be included in the data because of the non-matching TINs.

A non-matching return can also occur if a taxpayer filed a return in one year, but not timely file in the other year or did not file at all. Individuals may not be obligated to file a tax return if their income fell below the filing threshold in a given year.

- [4] The foreign category is derived from records with Puerto Rico, the U.S. Virgin Islands, foreign countries, or APO/FPO addresses. APO refers to Army Post Office and FPO refers to Fleet Post Office, part of the Overseas Military Mail System that is responsible for transferring mail to- and from- these overseas locations through military ZIP Codes.
- [5] The Gross Migration file is for all 50 states, plus the District of Columbia (DC). A separate category for "Other areas", such as returns filed from Army Post Office and Fleet Post Office addresses by members of the armed forces stationed overseas; returns filed by other U.S. citizens abroad; and returns filed by residents of Puerto Rico with income from sources outside Puerto Rico or with income earned as U.S. government employees; have not been included.
- [6] The total number of matched returns is derived from the year 2 number of returns. The total number of matched returns is also equal to the sum of the number of non-migrant returns, the number of inflow returns, and the number of same state returns.

Same state returns are those who migrated to another county within the same state.