

2017 Economic Census: Data Dissemination

Census Scientific Advisory Committee Briefing

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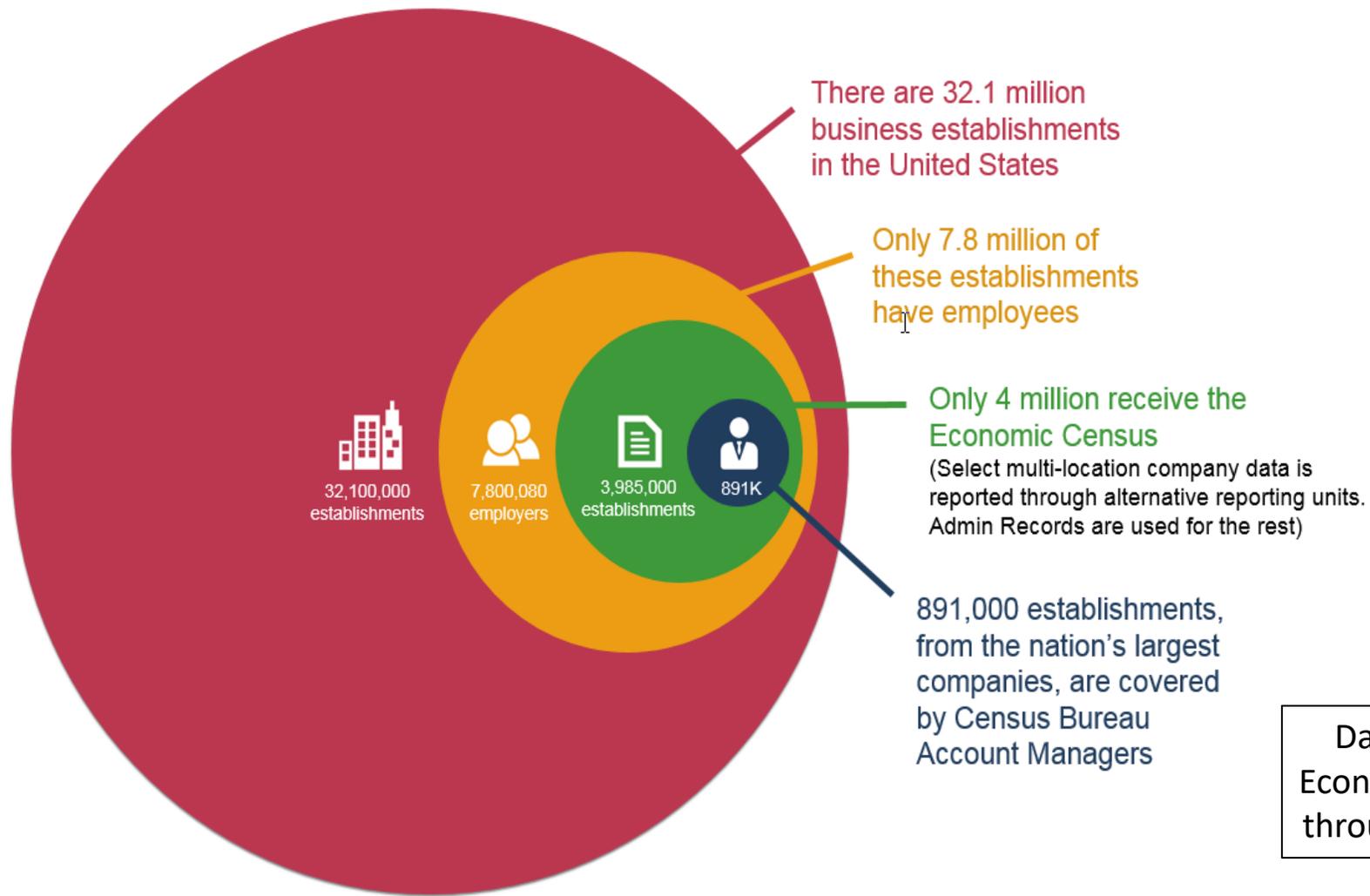
Economic Census Background

- Authorized under Title 13 U.S.C., Section 131 to take, compile, and publish censuses of manufacturers, of mineral industries and of other businesses every fifth year; Response required by law
- Data are collected every 5 years, for years ending in '2' and '7'
- Content developed in cooperation with business and government
- Most comprehensive measurement of the U.S. economy, providing statistics at the national, state and local levels
- Provides information on industry revenues and other measures of American business performance that are consistent, comparable, and comprehensive across industries and geographic areas

Economic Census Data Users

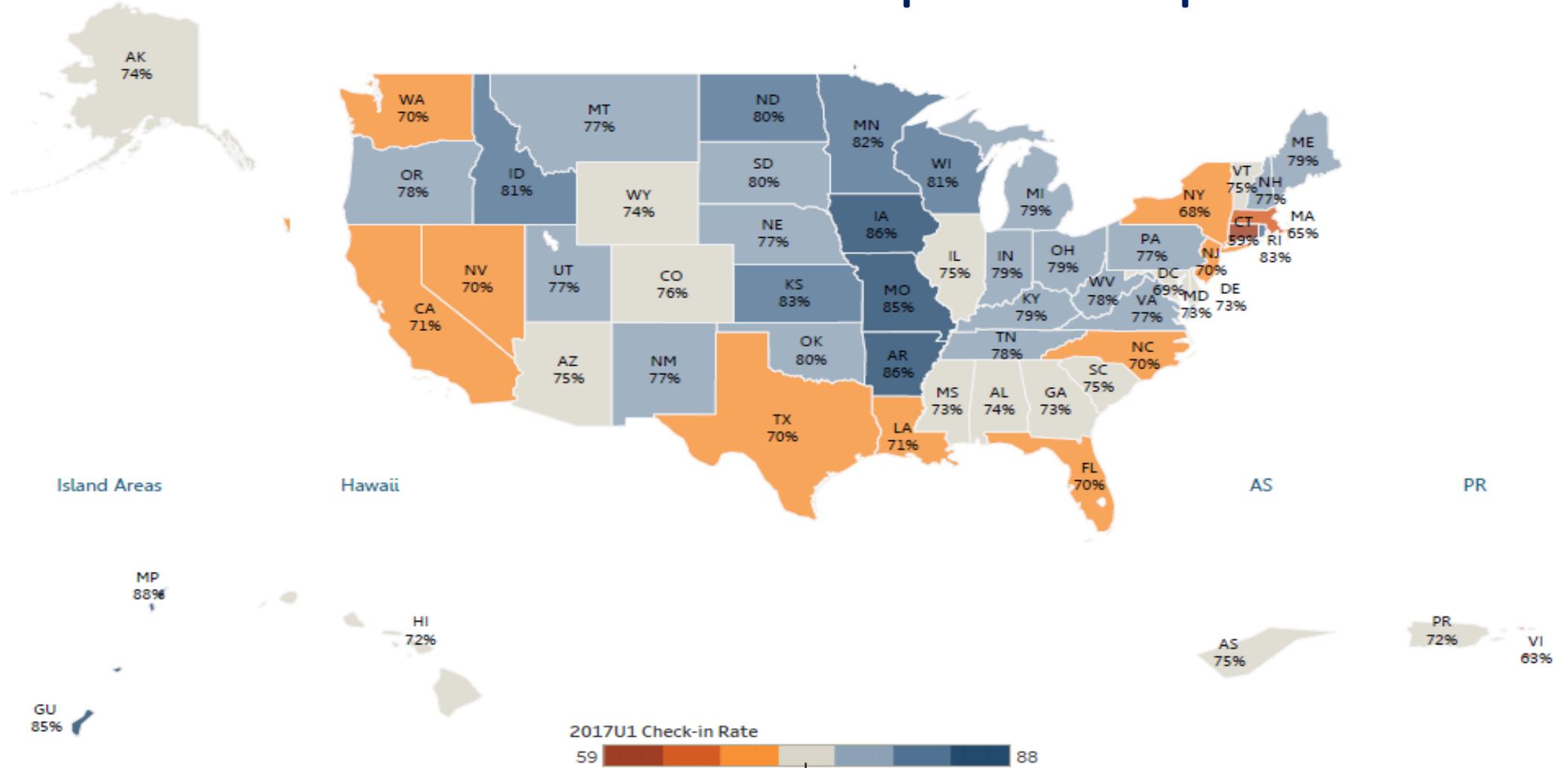
- The Bureau of Economic Analysis (BEA)
- Centers for Medicare and Medicaid Services (CMS)
- The Federal Reserve Board (FRB)
- The Bureau of Labor Statistics (BLS)
- Other federal agencies, trade associations, economic development agencies, local governments, and individual businesses for business decisions and policymaking

U.S. Business Target Universe

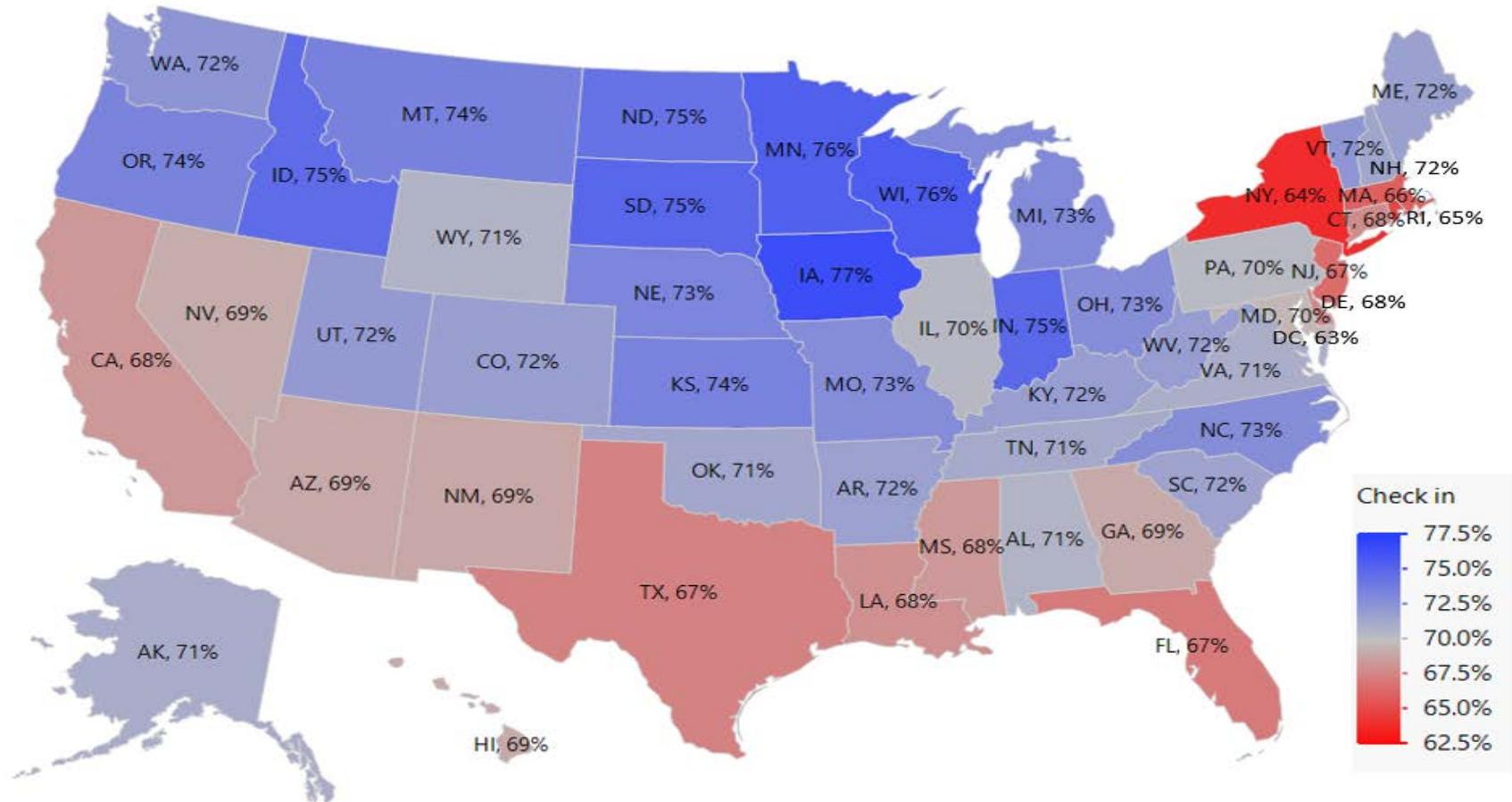


Data Collection for the 2017 Economic Census was conducted throughout 2018 and early 2019

Mailed Location Response Map



Physical Location Response Map



Leading Up to Data Dissemination: Data Editing and Review

- Data editing and review at micro-level
- Updates to the Business Register information including organizational structure
- Completeness and consistency
- Data logic (revenue vs. payroll)
- Review of entire universe including response records, delinquent records, and administrative records

Leading Up to Data Dissemination: Data Editing and Review

- Large company reviews to ensure micro data of the most complex companies is reviewed by and coordinated across all trade areas impacted
- Largest influencer reviews to ensure companies with the largest impact in each industry are a priority during review
- Utilization of programmed mass corrections to fix systematic problems across a large number of records

Leading Up to Data Dissemination: Macro Data Review and Reconciliation

- Conducted when full tabulated data is available
- Verify that summary data are ready for release
- Includes summary data for the entire universe (response records, delinquents, administrative data)
- Problem identification of specific cells
- Reconciliation operations

Data Dissemination

- Demand is for detailed data
- Needs of primary federal agencies have most weight
- New tools will be used to disseminate data
- Data releases are being standardized across sectors so that economy-wide data releases are available
- Data releases start in September 2019 and will be completed by December 2021

2017 Data Product Release Schedule

Series	Description	Planned Release
First Look Report	General statistics data at the 2 – 6 digit NAICS level	September 2019
Geographic Area Series (GAS)	General statistics data at the U.S., State, Metro Area, County, and Place level for 2 – 6 digit NAICS level	January 2020 – November 2020
North American Product Classification System (NAPCS) Tables	NAICS by NAPCS at the U.S. and state level, NAPCS by NAICS at the U.S. level	November 2020
Final Releases	Establishment and firm size data, industry specific subjects	November 2020 – September 2021
All Releases Complete	Comparative and bridge reports	December 2021



**Incremental
Quality
Improvements
and
More Specificity**

Data Releases –Tire Manufacturing (NAICS 326211)

Dollar values in \$1,000, 2012 Economic Census data

FIRST LOOK REPORT (U.S. level data)

number of establishments – 111
 total employment – 43,197
 total payroll - \$2,456,984
 revenue/shipments - \$20,240,441

GEOGRAPHIC AREA SERIES (State and lower geographical detail)

<p>North Carolina number of establishments – 8 total employment – 5,300 payroll - \$282,903 revenue/shipments - \$2,831,809</p>	<p>Ohio number of establishments – 8 total employment - 2,976 payroll- \$179,619 revenue/shipments- \$1,128,890</p>
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Los Angeles-Long Beach, CA CSA,
 number of establishments – 4
 total employment – 86
 total payroll - \$3,044

PRODUCTS (U.S. Level detail of products made)

Passenger car tires – product value \$9,788,285
 Truck and bus tires– product value \$5,283,938
 Tractor and implement tires – product value \$965,357
 Industrial and utility tires – product value \$69,739

2017 Data Product Release Schedule

<https://www.census.gov/programs-surveys/economic-census/about/release-schedules.html>

Data Dissemination Risks

- Impact on data related to disclosure methodology requirements
- Budgetary impacts – risk to future data products being released, including GAS, NAPCS, and final data tables

IRS Confidentiality Requirements

9/30/2016: IRS issued revision to confidentiality requirements

5/4/2018: IRS and Census Bureau sign new Memorandum of Agreement on disclosure protection

8/2/2019: IRS certified Economic Directorate's use of cell suppression, noise infusion, and differential privacy

- Certification specifies suppression of establishment counts of one and two
- Departure from past practice – Census Bureau has not considered counts of establishments/firms to be sensitive
- New interpretation from IRS to reduce risk of revealing fact of filing/not filing

Impact of Establishment Count Suppression Requirements on 2017 Economic Census

- All rows containing fewer than three contributing establishments will be dropped (i.e., will not be included in published tables) instead of showing a row with all cells suppressed (all “D”)
- Additional counts will be suppressed so that small cells can not be obtained by subtraction

Approximate Percentage of Rows Suppressed – 2012 EC

SECTOR	NUMBER OF ROWS WHERE ESTAB < 3	TOTAL ROWS	% of Total
21	0	1,147	-
22	59,197	86,503	68.4
23	8	1,954	0.4
31-33	0	335,877	-
42	756,737	1,238,657	61.1
44-45	769,587	1,521,057	50.6
48-49	350,195	572,316	61.2
51	201,197	319,911	62.9
52	226,344	501,278	45.2
53	266,134	492,726	54.0
54	745,130	1,441,398	51.7
55	3	363	0.8
56	303,098	531,508	57.0
61	219,617	349,056	62.9
62	970,777	1,816,773	53.4
71	484,161	727,616	66.5
72	112,699	306,444	36.8
81	649,064	1,232,898	52.6

Approximate Percentage of Rows Suppressed – Zip Code Data

SECTOR	NAICS201 2 length	Count of rows with ESTAB < 3	Count of all rows	Percent decrease in the number of published rows
44	2	64766	174802	37.1%
44	3	500904	808959	61.9%
44	4	801159	1123208	71.3%
54	2	56521	147461	38.3%
54	3	56521	147461	38.3%
54	4	335967	543476	61.8%
56	2	61808	137117	45.1%
56	3	91518	169338	54.0%
56	4	280452	385069	72.8%
61	2	38963	59899	65.0%
61	3	38963	59899	65.0%
61	4	74681	93280	80.1%
62	2	54987	149939	36.7%
62	3	161251	309305	52.1%
62	4	448471	663649	67.6%
71	2	58030	91776	63.2%
71	3	98426	131968	74.6%
71	4	132828	162806	81.6%
72	2	63261	157534	40.2%
72	3	102123	210087	48.6%
72	4	181790	304576	59.7%
81	2	61938	150664	41.1%
81	3	163471	297311	55.0%
81	4	381292	527552	72.3%

Questions for the Committee

1. Looking ahead to the 2022 Economic Census, are there emerging trends that may need to be researched and data collected on?
2. What are the concerns about the impact on data and availability of data with changes to disclosure methodologies (i.e., IRS confidentiality requirements)? How should we inform data users about these changes and the effects on the data products?

Contact Information

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12.0 Return Information in Statistical Reports

12.1 General

IRC 6103 authorizes the disclosure of FTI to specific federal agencies for use in statistical reports, tax administration purposes, and certain other purposes specified in IRC 6103(j). Statistical reports may only be released in a form that cannot be associated with, or otherwise identify, directly or indirectly, a particular taxpayer.

Agencies authorized to produce statistical reports must adhere to the following guidelines or an equivalent alternative that has been approved by the IRS:

- Access to FTI must be restricted to authorized personnel
- No statistical tabulation may be released outside the agency with cells containing data from fewer than three returns. The exception to this rule is for corporation returns where no tabulation with cells containing data for less than five returns may be released
- Statistical tabulations prepared at the state level may not be released for cells containing data for fewer than 10 returns. Data for geographic areas below the state level such as county may not be released with cells containing data from fewer than 20 returns. In addition for tabular data at the ZIP Code level, additional procedures must be employed. Individual ZIP Codes areas with fewer than 100 returns cannot be shown. Additionally, any cell in the ZIP Code table based on fewer than 20 returns cannot be shown. Finally, individual returns that represent a large percentage of the total of a particular cell must be excluded from the data
- Tabulations that would pertain to specifically identified taxpayers or that would tend to identify a particular taxpayer, either directly or indirectly, may not be released