



# *2020 Census Local Upside of Census Addresses Operation (LUCA)*

U.S. Census Bureau  
Geography Division

# Agenda

- 2020 Census LUCA Operation
- Participation in LUCA
  - What is LUCA?
  - Who Can Participate?
  - Why participate?
- What's new for LUCA
- Preparation for LUCA
- Confidentiality & Security
- Participation Options
- Q&A

There used to be a home here.



# Getting from Here to-----→ There (How we take a Census)

-Establish WHERE  
to count

-----→ LUCA, etc.

-Motivate People  
to Respond

-----→ Partnering

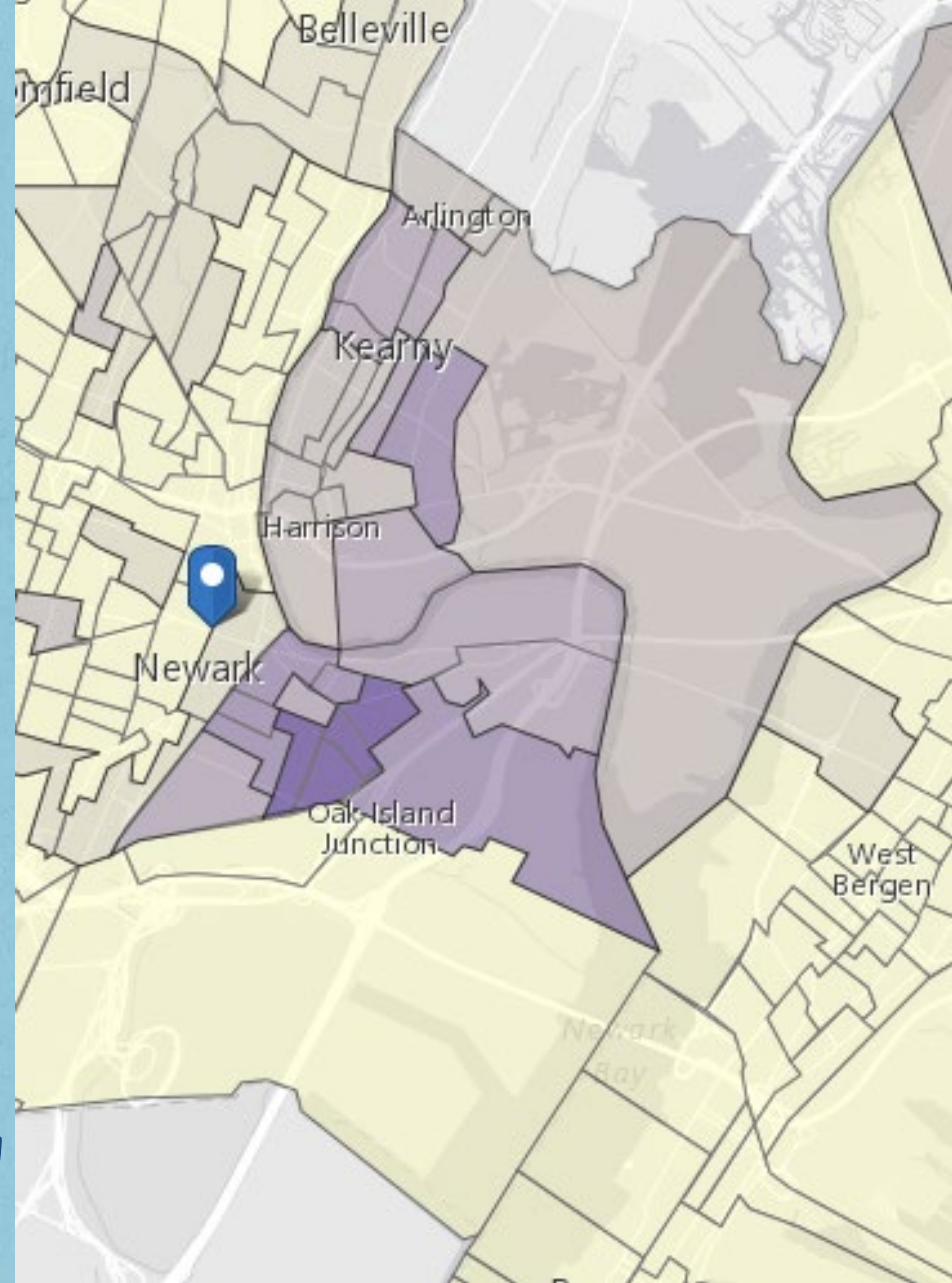
-Count People

-----→ Census Day!

-Release Census Results -----→ American Factfinder

# How are Census Data Used?

- Apportionment
- Draw congressional and state legislative districts, school districts and voting precincts
- Distribute federal dollars to states
- Inform local gov't planning decisions
- Inform business where to locate
- Provide benchmarks for American Community Survey



# What is LUCA?

- Voluntary geographic partnership
- Governments add ADDRESSES
- Authorized by the Census Address List Improvement Act of 1994 (Public Law 103-430)



# Who can participate in LUCA?

- Active governments
- States, counties, planning districts
- Cities, towns, townships, boroughs, villages.
- Federally recognized tribes with a reservation or off-reservation trust land
- But...Regional Planning Agencies must have governments sign off to them.



# Why participate?

-It improves the Census Bureau's Address List BEFORE the Decennial begins.

-The Census is based on the address list

-The ACS is based on the address list

-Accuracy gets people and stats in the right place

-It's your chance to see addresses we will use.



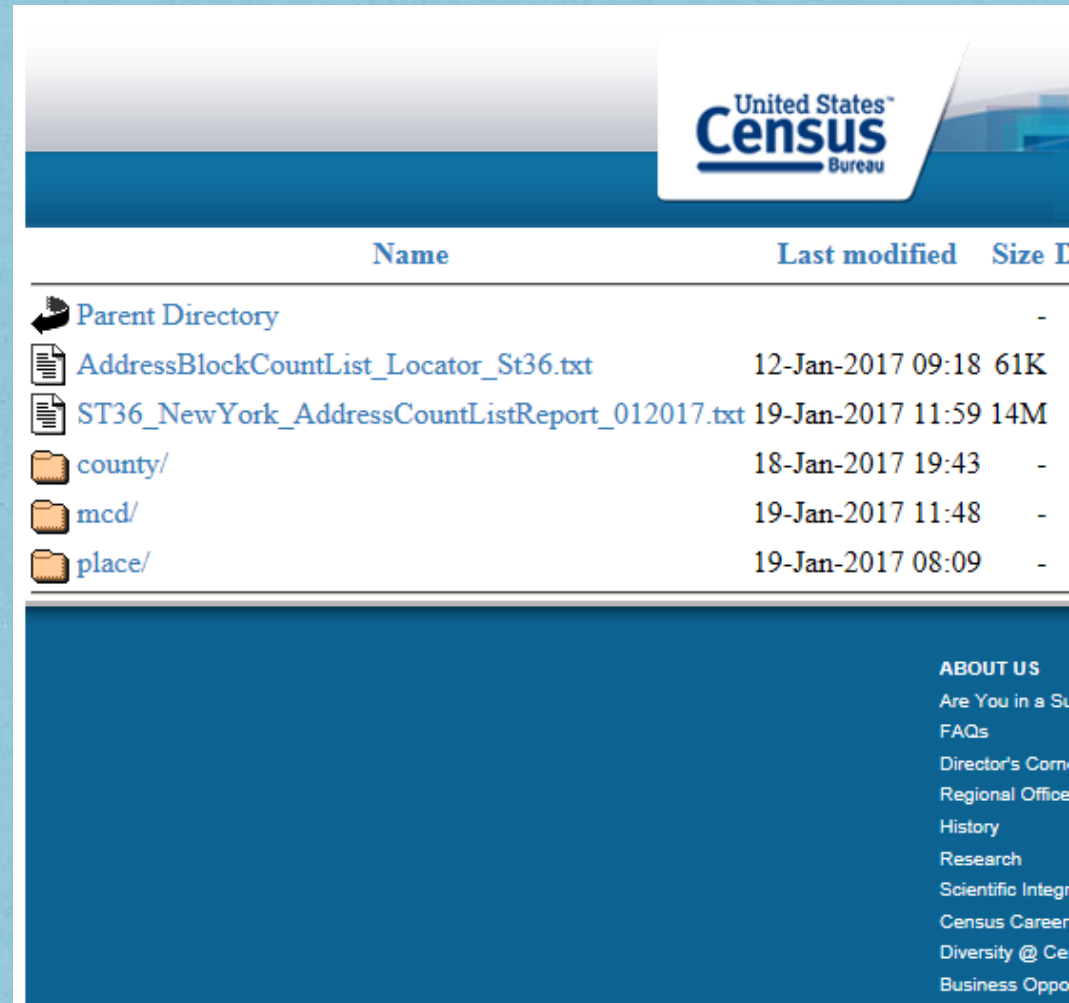
# What's New for LUCA

- Offers streamlined participation – Full Address List Review
- Requires residential multiunit structure identifiers (Apt 1, Apt 2)
- Provides the digital address list in a standard software format
- Includes ungeocoded address records for participants
- Includes residential structure coordinates
- Allows participants to submit residential structure coordinates



# Preparing for LUCA

- ✓ Submit Contact Information Update Form
- ✓ Develop a strategy for your address review
- ✓ Review the Census Bureau's count of residential addresses by census block for your government



The screenshot shows the United States Census Bureau website interface. At the top right is the logo for the United States Census Bureau. Below the logo is a table listing files and folders. The table has three columns: Name, Last modified, and Size. The entries are:

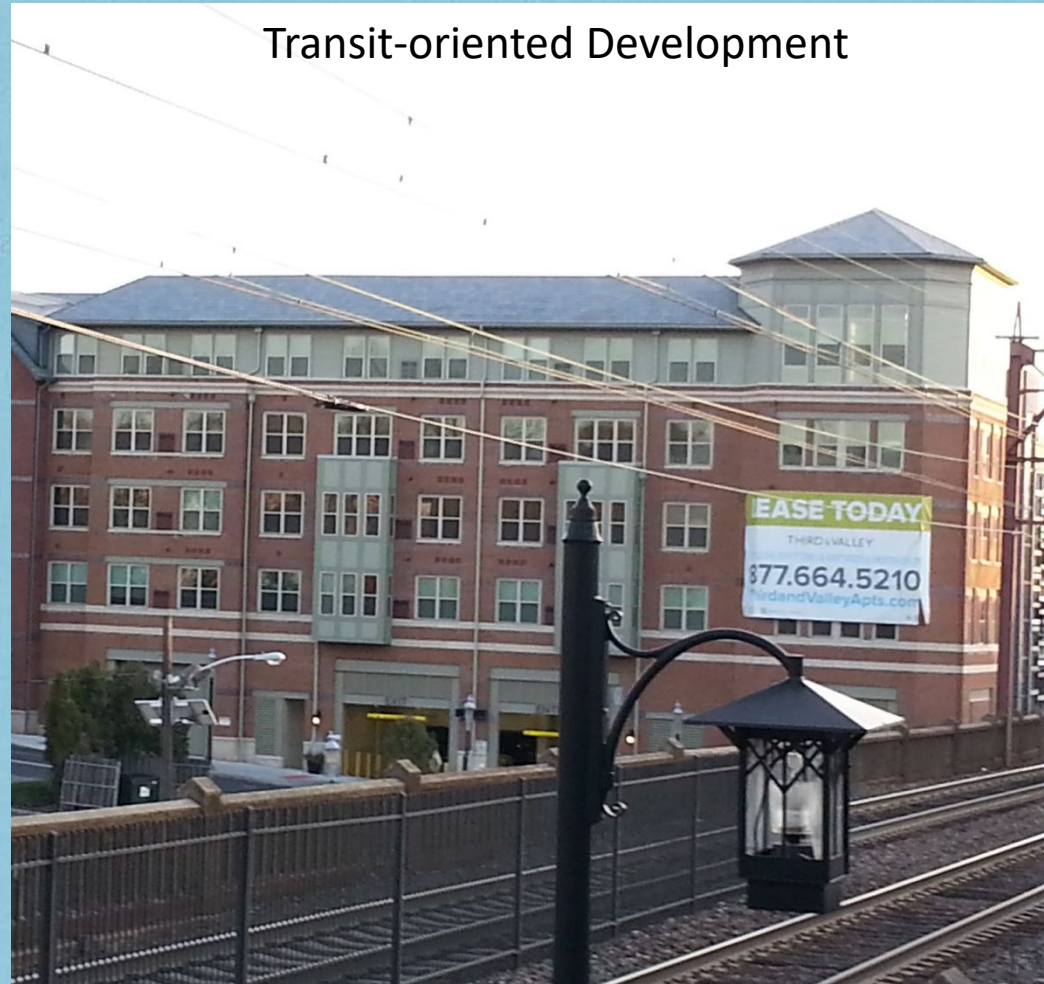
Name	Last modified	Size
Parent Directory		-
AddressBlockCountList_Locator_St36.txt	12-Jan-2017 09:18	61K
ST36_NewYork_AddressCountListReport_012017.txt	19-Jan-2017 11:59	14M
county/	18-Jan-2017 19:43	-
mcd/	19-Jan-2017 11:48	-
place/	19-Jan-2017 08:09	-

At the bottom right of the screenshot, there is a navigation menu titled "ABOUT US" with links to: Are You in a State, FAQs, Director's Corner, Regional Offices, History, Research, Scientific Integrity, Census Career, Diversity @ Census, and Business Opportunities.

# Preparing for LUCA (cont'd)

- ✓ *Confirm that your address list contains individual multi-unit structure identifiers (Apt 1, Apt 2)*
- ✓ *Identify local address sources such as building permits, E-911 address files, local utility records, annexation records, and assessment or taxation files*
- ✓ *Plan to attend a LUCA Workshop*
- ✓ *Spread the word!*

Transit-oriented Development



# Confidentiality and Security

- The information provided to/from LUCA is covered under Title 13 of the United States Code which:
  - Requires the Census Bureau to ensure confidential treatment of census-related information, including individual addresses and map structure points
  - Requires that all liaisons, reviewers, and anyone with access to Title 13 materials abide by Confidentiality and Security Guidelines
  - Requires the Census Bureau maintain the confidentiality of all information it collects

# Confidentiality and Security (continued)

- Confidentiality Agreement
  - Appoint LUCA liaison to assume responsibility for Title 13 compliance
  - Reviewers must follow guidelines and sign the Confidentiality Agreement

# LUCA - Participation Methods

- GUPS (Geographic Update Partnership Software )
- Digital (Commercial GIS/Spreadsheet/Database software)
- Paper Address List and Maps  
(Available only to governments with less than 6000 addresses)

How Many Housing Units?



# Geographic Update Partnership Software (GUPS)

- A self-contained, customized GIS software package for LUCA 2020.
- Includes Census Bureau's Address List, Census Bureau's count of residential addresses by census block, and TIGER partnership shapefiles
- Designed for participants with no GIS experience
- Allows for simple or intricate reviews and edits
- Quality Check/Validation Tool assures LUCA edits are valid for before submission
- No Internet connection required

# Geographic Update Partnership Software (GUPS) – Cont'd

QGIS 2.8.3-Wien - PL2430900 - GUPS \*\*\* Disclosure Prohibited by Title 13 U.S.C. \*\*\*

Project Edit View Layer Settings Vector Raster Processing Help GUPS

The screenshot shows the QGIS interface with a map of Frostburg, Maryland. The map displays several districts: District 11, West Frostburg; District 26, Frostburg; and District 12, East Frostburg. The city of Frostburg and Frostburg State University are also labeled. The interface includes a toolbar with various GIS tools and two panels for address lists.

**Address Count List**

Move Selection to top

	STATE	COUNTY	TRACT	BLOCK	GEOID
17	24	001	0016.00	1012	2400100160010
25	24	001	0016.00	1014	2400100160010
53	24	001	0016.00	1019	2400100160010
47	24	001	0016.00	1020	2400100160010
40	24	001	0016.00	1049	2400100160010
50	24	001	0016.00	1050	2400100160010
273	24	001	0016.00	1051	2400100160010
10	24	001	0016.00	1052	2400100160010
212	24	001	0016.00	1053	2400100160010
151	24	001	0016.00	1054	2400100160010
176	24	001	0016.00	1055	2400100160010
76	24	001	0016.00	1057	2400100160010
202	24	001	0016.00	1058	2400100160010
171	24	001	0016.00	1059	2400100160010
51	24	001	0016.00	1060	2400100160010
56	24	001	0016.00	1061	2400100160010
268	24	001	0016.00	1064	2400100160010
93	24	001	0016.00	1067	2400100160010
250	24	001	0016.00	1069	2400100160010
108	24	001	0016.00	1070	2400100160010
179	24	001	0016.00	1071	2400100160010
31	24	001	0016.00	1072	2400100160010
218	24	001	0016.00	1073	2400100160010
72	24	001	0016.00	1075	2400100160010

**Census Address List**

Add Import Deselect All Features  Move Selection to top

GEOID Edit Copy Out of Jurisdiction Non-Residential Delete

MAFID	Action	ST	COU	Tract	Block	GEOID	GQ	House #	Street Name	Apt/L
2504		24	001	0018.00	1055	240010018001055			Gold Fish HWY	
2505		24	001	0018.00	1055	240010018001055			Nemo HWY	
2506		24	001	0018.00	1055	240010018001055			HotdogBEER LANE	
2507		24	001	0018.00	1055	240010018001055			Gold Fish LANE	

Show All Features Clear Edits Save Edits

Census Address List User Address List

Coordinate: -78.8892,39.6369 Scale: 1:33,456

# Address List Formats

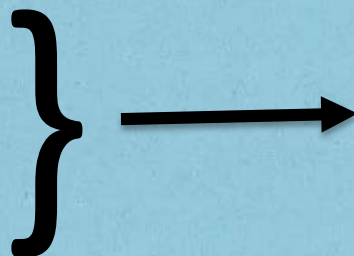
- **Digital Address List**
  - Excel (.xlsx) or comma-delimited (.csv)
  - Available to all governments
  - No separate “Add Pages”
- **Paper Address List**
  - Available to gov'ts ≤ 6,000 addresses
  - Legal size (8 ½ x 14”) – 6 addresses/pg.
  - Two sorts:
    - Street Name/House Number
    - Census Tract/Block/Street Name/House No.
    - Separate “Add Page”



# Electronic Address List Layout

## LUCA 2010 – 26 Fields

Entity ID
Line #
MAFID
Action
State
County
Tract
Block
GQ Flag
House Number
Street Name Prefix Qualifier
Street Name Prefix Direction
Street Name Prefix Type
Street Name
Street Name Suffix Type
Street Name Suffix Direction
Street Name Suffix Qualifier
Location Description or GQ Name
Apartment/Unit Number
ZIP Code
Noncity-Style Mailing Address
Noncity-Style ZIP Code
Structure Point
Latitude
Longitude
City-Style Flag



## LUCA 2020 – 24 Fields

Line #
MAFID
Action
Entity ID
State
County
Tract
Block
GEO ID
GQ Flag
House Number
Street Name
Apartment/Unit #
ZIP Code
GQ Name
Facility Name
Location Description
Noncity-Style Mailing Address
Noncity-Style ZIP Code
Mapspot ID
Address Use
Latitude
Longitude
City-Style Flag

# Paper Address List

Form D-2007  
(XX-XX-XXXX)  
OMB Control No. 0607-0994

## ADDRESS LIST 2020 LOCAL UPDATE OF CENSUS ADDRESSES OPERATION (LUCA)

U.S. DEPARTMENT OF COMMERCE  
ECONOMICS AND STATISTICS ADMINISTRATION  
U.S. CENSUS BUREAU

Sort: Street Name/House Number  
Entity: Winter County CO88009

Page: 5 of 20  
Date: 01/04/2018

DISCLOSURE PROHIBITED BY TITLE 13, U.S.C.

1 Line Number	2 MAFID	3 Action Code	4 Census Geographic Location of Address			5 GQ Flag	6 City Style Mail Delivery Address or E-911 Address or Physical Location Description and Road Name			7 Noncity-Style Mail Delivery Address (RR Number, HCR Number, PO Box Number)	8 Map Spot Number	9 City-Style Address Flag	10 Map Spot ID Coordinates	
			(4a) State County Code	(4b) Census Tract	(4c) Census Block		(6a) Complete Address Number	(6b) Complete Street Name	(6e) Apt/ Unit Number				(6f) City- Style ZIP Code	(10a) Latitude (10b) Longitude
							(6c) Group Quarters Name	(6d) Facility Name or Physical Location Description		(7a) Noncity-Style Mailing ZIP Code				
25	999999993		88009	0045.00	1055		4007	AMPHORA ST		99997		3	Y	40.361373 -73.543799
26	999999994		88009	0045.00	1055		4009	AMPHORA ST		99997		4	Y	40.361377 -73.543799
27	999999995		88009	0045.00	1058		5001	AMPHORA ST		99997		1	Y	40.361381 -73.543799
28	999999996		88009	0045.00	1058		5003	AMPHORA ST		99997		2	Y	40.3613785 -73.543799
29	999999997		88009	0045.00	1065		402	W CAMERON AVE		99997		11	Y	40.3613791 -73.543799
30	999999999		88009	0045.00	1065		404	W CAMERON AVE		99997		12	Y	40.3613796 -73.543799

Action Codes

C – Correction to this address    D – Delete this address    J – Address is not in this Jurisdiction    N – Address is Nonresidential

FICTITIOUS INFORMATION –FOR EXAMPLE ONLY

# Paper Address List – Add Page

Form D-2008  
(XX-XX-XXXX)  
OMB Control No. 0607-0994

U.S. DEPARTMENT OF COMMERCE  
ECONOMICS AND STATISTICS ADMINISTRATION  
U.S. CENSUS BUREAU

**ADDRESS LIST ADD PAGE**  
**2020 LOCAL UPDATE OF CENSUS ADDRESSES OPERATION (LUCA)**

PAGE \_\_\_\_\_ OF \_\_\_\_\_ PAGES  
Name of Preparer: \_\_\_\_\_  
*(Print Name)*  
Date Completed: \_\_\_\_\_  
*(MM/DD/YYYY)*

Add Page For: \_\_\_\_\_  
*(Entity Name)*

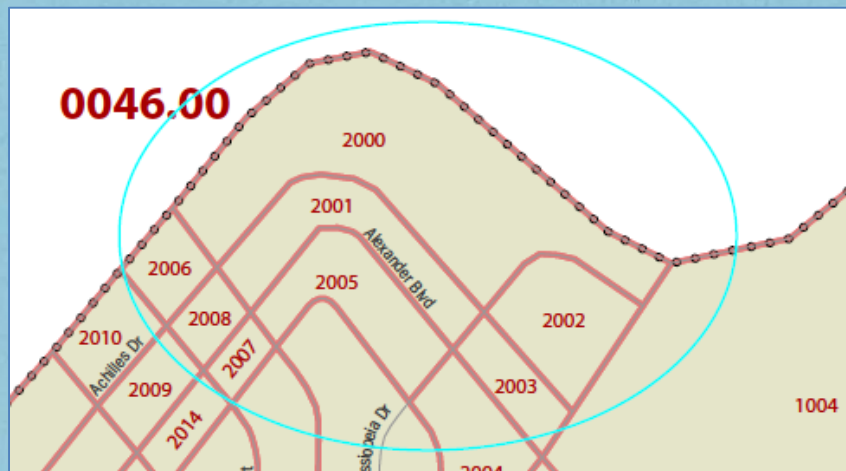
Entity ID Code: \_\_\_\_\_  
*(Copy from Address List Page)*

1 Line #	2 Census Geographic Location of Address				3 Enter "Y" if this is a Group Quarters	4a Complete Address Number	4 Residential Address			5 Unique Map Spot Number	6 Address Use, if known <b>M</b> =Mailing <b>L</b> =Location <b>B</b> =Both	
	2a State Code Number	2b County Code Number	2c Census Tract Number	2d Census Block Number			4b Complete Street Name	4c Group Quarters Name	4d Facility Name			4e Apt/ Unit Number

DISCLOSURE PROHIBITED BY TITLE 13, U.S.C.

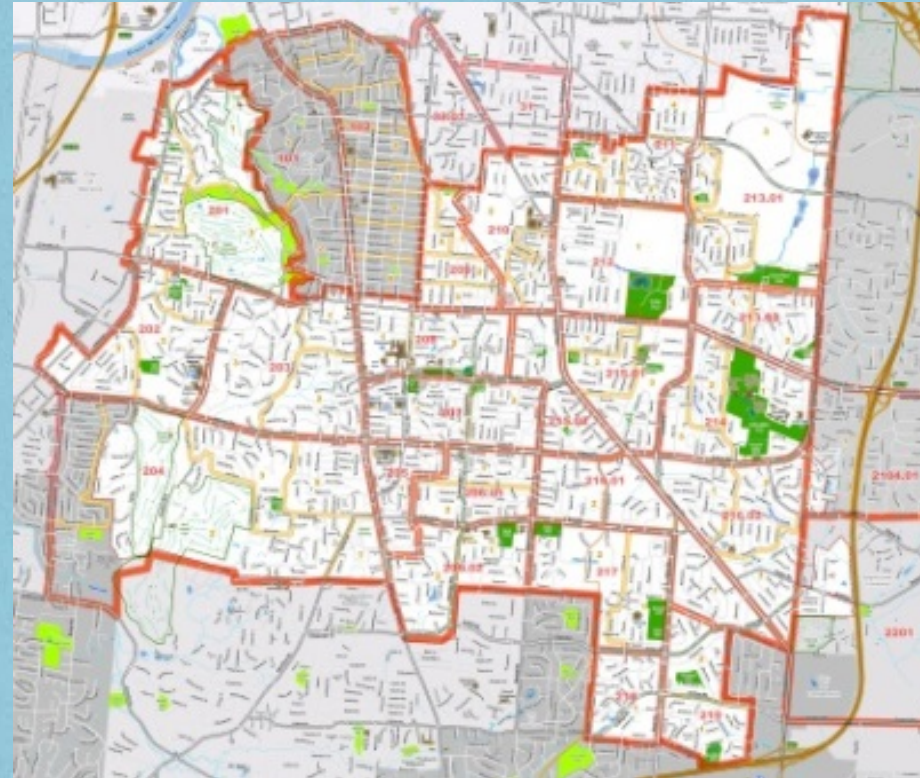
# Map Media Types

- **Electronic Map Media**
  - Maps are provided as TIGER partnership shapefiles
- **Paper Map Media**
  - Large format paper map(s) (36" X 42") along with a DVD of small format (8.5" X 14") block maps in Adobe PDF format



# Paper Option

- Address lists available to governments with 6,000 or fewer addresses and delivered in 8.5" X 14" format [the equivalent of 1,000 printed pages]
- Large format paper map(s) (36" X 42") along with a DVD of small format (8.5" X 14") block maps in Adobe PDF format



# What's next for LUCA?

- Advanced notice mailed to Highest Elected Officials (HEO) and Tribal Chairs (TC) (cc other LUCA contacts) January 2017
  - Contact Update Form
- Invitation and registration mailed July 2017
  - LUCA Information Booklet
  - Confidentiality and Security Guidelines
  - Forms for Registration:
    1. Registration Form
    2. Confidentiality Agreement Form
    3. Product Preference Form
    4. Self-Assessment for the Confidentiality and Security Guidelines

Dec 15, 2017 – Registration Deadline

# Next Step for Participants

Training begins in October 2017

- In-person workshops conducted where needed
- Self-training aids and webinars online

Completing the address review

- **120** calendar days to review and update the Census Bureau's Address List from receipt of materials

# How Can You Prepare Now!?

- 120 Days is NOT a lot of time
- Focus on areas of growth (get the addresses ready)
- Use the Census Address Geocoder
- Download your Address Block Count List from our site
- Learn how to locate Block Numbers in American Factfinder
- Determine WHO from your jurisdiction will participate.

How Many Buzzers? How Many Units?





# 2020 Census LUCA Schedule

2020 Census LUCA Operation Schedule	
Timeframe	Activity
January 2017	Advance Notice mailed to Highest Elected Officials(HEOs), Tribal Chairs (TCs), Governors, and other LUCA contacts.
March 2017	LUCA promotional workshops begin.
July 2017	LUCA invitation and registration materials mailed to HEOs, TCs, and Governors.
October 2017	LUCA training workshops begin.
February-April 2018	Participants review and update the Census Bureau’s address list.
February-September 2018	Census Bureau processes LUCA submissions.
August-September 2019	Feedback provided to respondents

# Useful websites:

## LUCA Homepage:

<https://www.census.gov/geo/partnerships/luca.html>

## CENSUS Geocoder:

<https://www.census.gov/geo/maps-data/data/geocoder.html>

## American Factfinder Shortcut:

<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>

# 2020 Census LUCA Operation

*Questions?*

*Contact Information:*

*Or Email: [GEO.2020.LUCA@census.gov](mailto:GEO.2020.LUCA@census.gov)*

*New York Regional Office (Geo) :*

*212-584-3430*