2020 Census
Local Update of Census Addresses Operation (LUCA)

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Agenda

- The Decennial Census
- 2020 Census Design
- Address List Maintenance 2010 - 2020
- LUCA
  - Background
  - Confidentiality and Security
  - What's New for LUCA
  - Who Can Participate
- Preparation for LUCA Participation
  - Early Tools
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    - Product Formats (Address List & Maps)
  - Next Steps
  - Schedule

The Decennial Census

The purpose is to **conduct** a census of population and housing and **disseminate** results to the President, the States and the American People

- Uses of Census data:
  - **Apportioning** representation among states as mandated by Article 1, Section 2 of the US Constitution
  - **Drawing** congressional and state legislative districts, school districts and voting precincts
  - **Enforcing** voting rights and civil rights legislation
  - **Distributing** federal dollars to states
  - **Informing** planning decisions of federal, tribal, state and local government
  - **Informing** organizational decisions (e.g., where to locate, size of market, etc.) of businesses and non-profits

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2020 Census Design

The 2020 Census: A New Design for the 21st Century

Motivate People to Respond
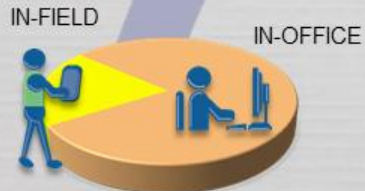
Conduct a nation-wide communications and partnership campaign

- Maximize outreach using traditional and new media
- Target ads to specific audiences
- Work with trusted sources to inspire participation.

TELEPHONE AND PAPER SELF-RESPONSE

NONRESPONSE FOLLOWUP

INTERNET SELF-RESPONSE

Count the Population

Collect data from all households, including group and unique living arrangements

- Make it easy for people to respond anytime, anywhere
- Encourage people to use the new online response option
- Use the most cost-effective strategy to contact and count nonrespondents
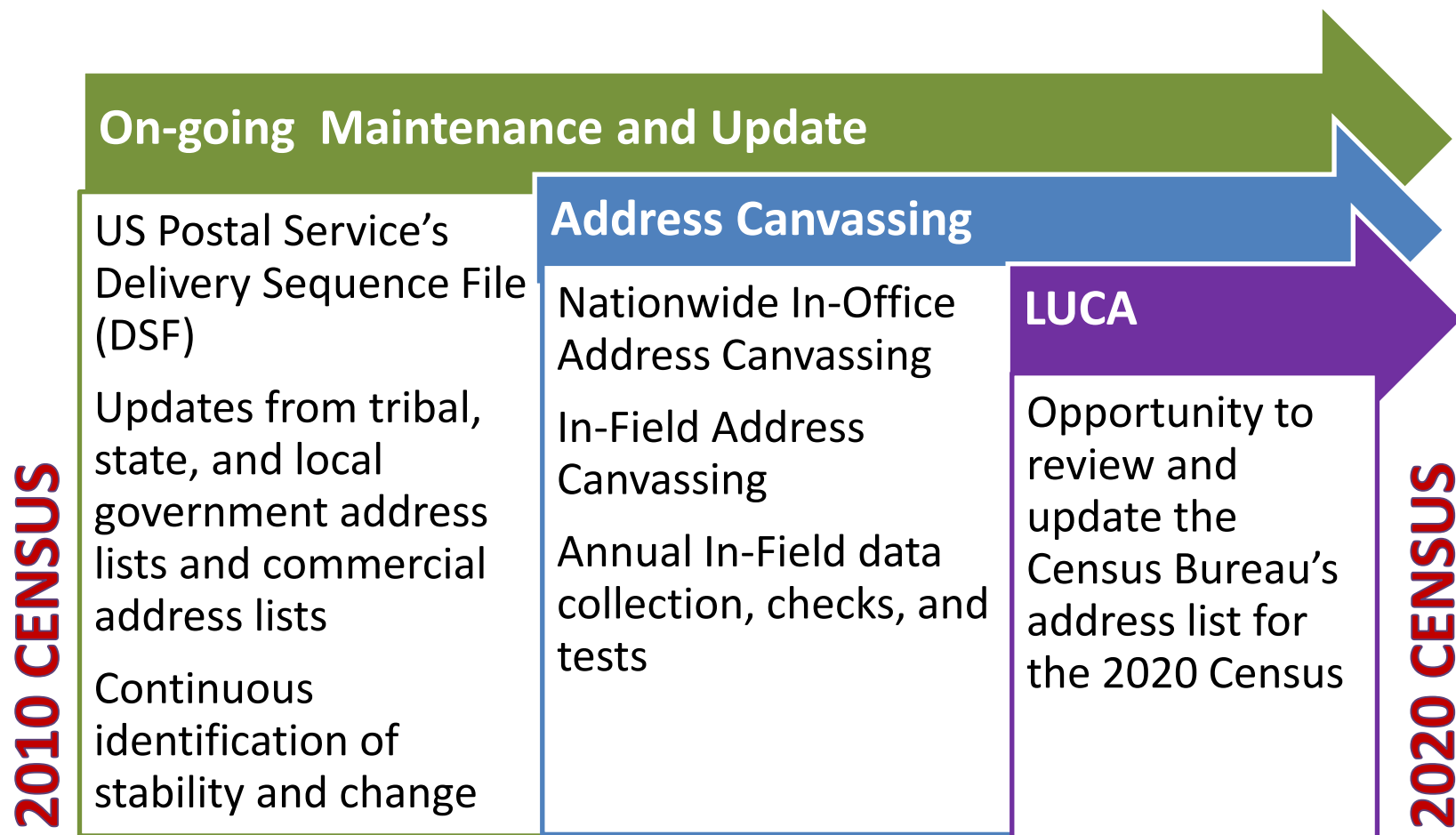- Knock on doors only when necessary
- Streamline in-field census-taking

Establish Where to Count

Identify all addresses where people could live

IN-FIELD

IN-OFFICE

- Conduct a 100% review and update of the nation's address list
- Minimize field work with in-office updating
- Use multiple data sources to identify areas with address changes
- Get local government input

Count Everyone Once In the Right Place

Release Census Results

Process and Provide Census Data

- Deliver apportionment counts to the President by December 31, 2020
- Release counts for redistricting by April 1, 2021
- Make it easier for the public to get data

Address List Maintenance 2010 - 2020

On-going Maintenance and Update

US Postal Service's Delivery Sequence File (DSF)

Updates from tribal, state, and local government address lists and commercial address lists

Continuous identification of stability and change

Address Canvassing

Nationwide In-Office Address Canvassing

In-Field Address Canvassing

Annual In-Field data collection, checks, and tests

LUCA

Opportunity to review and update the Census Bureau's address list for the 2020 Census

2010 CENSUS

2020 CENSUS

Geographic Support System (GSS) Program

- Integrated program of improved address coverage, continual spatial and feature updates, and enhanced quality assessment and measurement

- Supports and maintains the geographic and cartographic infrastructure necessary for the Census Bureau's data collection, processing, tabulation, and dissemination programs for the United States and Puerto Rico

- Provides for continual updates throughout the decade to support current surveys and the 2020 Census

LUCA Background

- Authorized by the Census Address List Improvement Act of 1994 (Public Law 103-430)

- Implemented in the support of the 2000 Census and refined to support the 2010 Census

- Provides a voluntary opportunity for designated representatives of tribal, state and local governments to review and comment on the addresses used to conduct the decennial census

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Confidentiality and Security

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 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

What's New for 2020 LUCA

- **Offers** streamlined participation – Full Address List Review

- **Provides** the digital address list in convenient standard software formats

- **Includes** ungeocoded address records for state and county participants

- **Requires** residential multi-unit structure identifiers (e.g., Apt 1, Unit A2, #3001, etc.)

- **Includes** residential structure coordinates, if available

- **Allows** participants to submit residential structure coordinates, if available

- **Allows** participants to submit non-city style addresses with corresponding map spot

Who can participate in LUCA

- Federally recognized tribes with a reservation and/or off-reservation trust land

- States

- Counties

- Incorporated places

  - Cities, towns, boroughs, or villages

- Townships (Minor Civil Divisions)

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Preparation - Early Tools

2020 LUCA Address Block Count List

- Provides access to an address count list which includes the count of residential addresses and group quarters by block

	A	B	C	D	E	F	G
1	State	County	Tract	BLOCK	BLOCK_GEOID	Total Residential	Total Group Quarters
2	21	051	9501.00	1000	210519501001000	0	0
3	21	051	9501.00	1001	210519501001001	1	0
4	21	051	9501.00	1002	210519501001002	0	0
5	21	051	9501.00	1003	210519501001003	7	0
6	21	051	9501.00	1004	210519501001004	0	0
7	21	051	9501.00	1005	210519501001005	0	0
8	21	051	9501.00	1006	210519501001006	0	0
9	21	051	9501.00	1007	210519501001007	0	0
10	21	051	9501.00	1008	210519501001008	2	0
11	21	051	9501.00	1009	210519501001009	28	0
12	21	051	9501.00	1010	210519501001010	0	0
13	21	051	9501.00	1011	210519501001011	37	0

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Preparation - Early Tools

Census Geocoder

- Takes individual addresses or file of addresses and obtains coordinates and census geography

- Geocoder updates include:

    - Increasing the maximum number of records for batch processing from 1,000 to 10,000

    - Providing larger governments another means to submit addresses to be geocoded
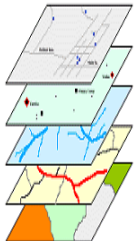
Preparation - Participation Methods

Geographic Update Partnership Software (GUPS)
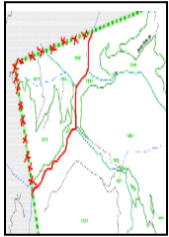
Paper Format - Address List and Maps

Digital Format - Address List and Maps

GUPS – Participation Method
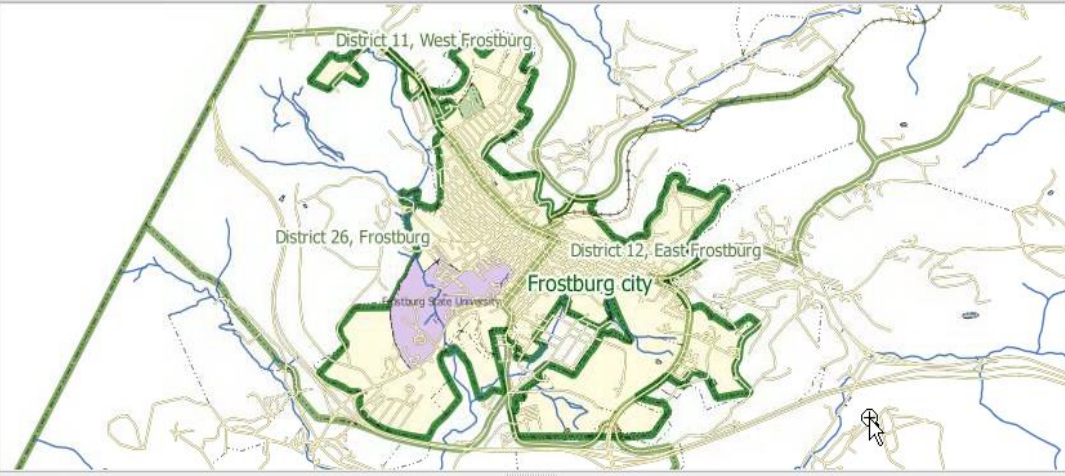
- Customized Geographic Information System (GIS) software for participation in 2020 LUCA

- Pre-packaged to include all components

- Designed for participants with no GIS experience

- Allows for simple to complicated reviews and edits

- Programmed with a review tool to validate LUCA edits

- No internet connection required

GUPS screen example

GUPS screen example

NO TITLE 13 DATA DISPLAYED

GUPS screen example

NO TITLE 13 DATA DISPLAYED

Preparation – Address List Formats

- Paper
  - Available to governments with 6,000 or fewer addresses
  - Legal size (8.5" x 14") – 6 addresses per page
  - Two sorts:
    - Street Name/House Number
    - Census Tract number/Block number/Street Name/House Number
  - Separate 'Add Page'
- Digital
  - Available to all governments
  - Excel (.xlsx) or Comma Delimited Text (.csv) format
  - No separate 'Add Page'

Address List Structure

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
Non-city style Mailing Address
Non-city style ZIP Code
Structure Point
Latitude
Longitude
City-Style Flag
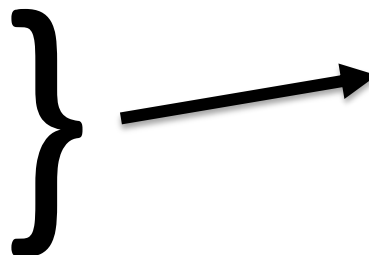
LUCA 2020 – 24 Fields

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
Non-city style Mailing Address
Non-city 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)

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

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1 Line Number	2 MAFID	3 Action Code	(4a) State County Code	(4b) Census Tract	(4c) Census Block	5 GQ Flag	(6a) Complete Address Number	(6b) Complete Street Name / (6c) Group Quarters Name / (6d) Facility Name or Physical Location Description	(6e) Apt/Unit Number	(6f) City-Style ZIP Code	(7) Noncity-Style Mail Delivery Address / (7a) Noncity-Style Mailing ZIP Code	8 Map Spot Number	9 City-Style Address Flag	10 (10a) Latitude / (10b) Longitude
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

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NO TITLE 13 DATA DISPLAYED

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Paper – Address List Add Page

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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	4 Residential Address						5 Unique Map Spot Number	6 Address Use, if known M=Mailing L=Location B=Both
	(2a) State Code Number	(2b) County Code Number	(2c) Census Tract Number	(2d) Census Block Number		(4a) Complete Address Number	(4b) Complete Street Name / (4c) Group Quarters Name / (4d) Facility Name			(4e) Apt/ Unit Number	(4f) City-Style Mailing ZIP Code		

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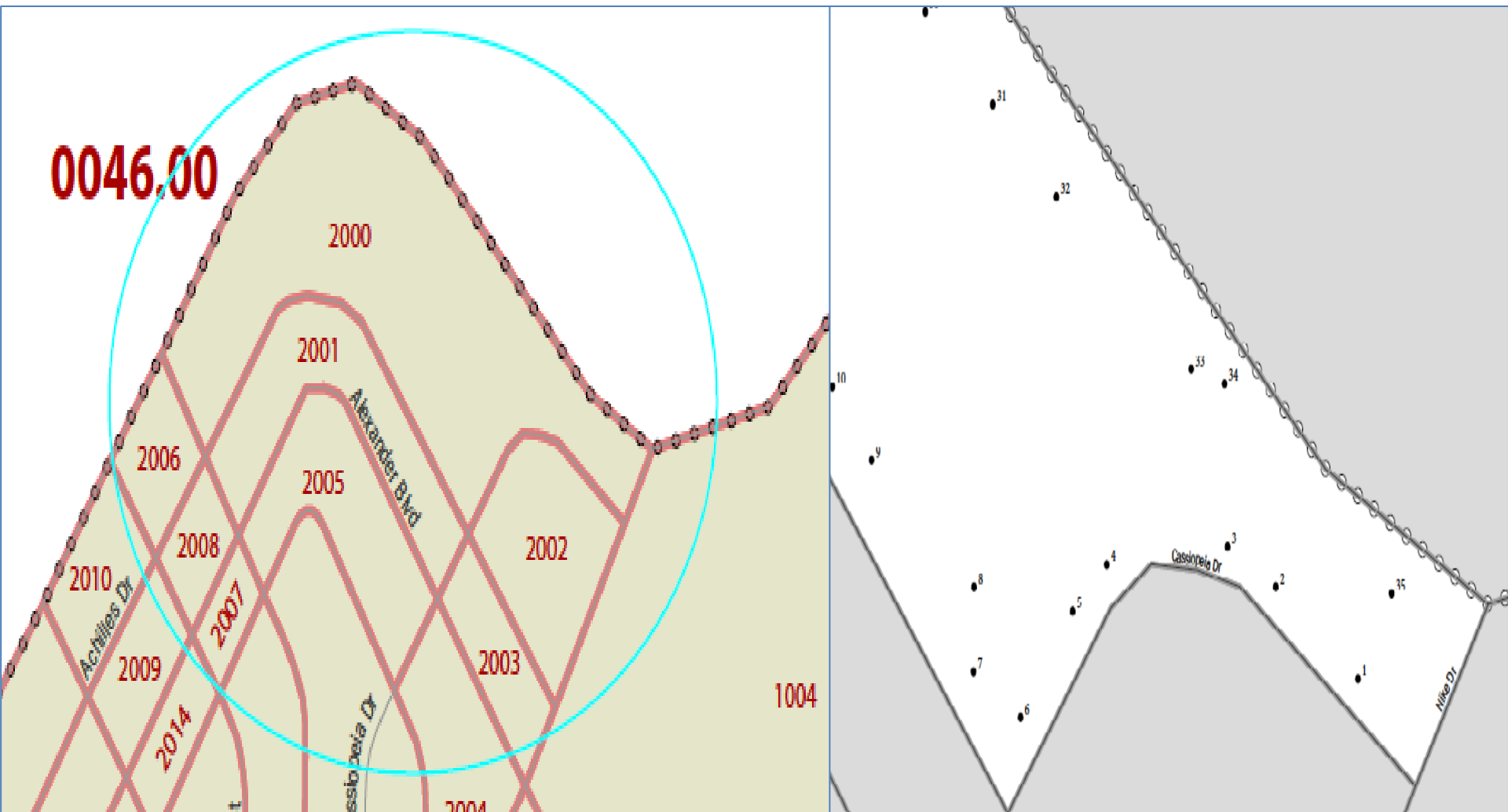U.S. CENSUS BUREAU
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Preparation – Map Formats

- Paper
  - Available to all governments
  - Two types of paper map materials:
    - Large format (42" x 36") maps
    - DVD of Adobe small format (8.5" x 14") census block maps

- Digital
  - Available to all governments
  - TIGER partnership shapefiles (LUCA specific)
  - Utilize GIS software

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Paper – Large & Small Format Maps

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Preparation – Next Steps (Participant)

- **Prepare** (now!)

- **Register** to participate (July 2017)

- **Attend** a training workshop (Fall/Winter 2017)

  - In-person workshops

  - Self-training aids and Webinars available online

- **Conduct** your LUCA review (Feb-April 2018)

  - **120** calendar days upon receipt of materials to complete review

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Preparation - 2020 LUCA 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 presentations begin
July 2017	LUCA invitation and registration materials mailed to HEOs, TCs, and Governors
October 2017	LUCA training workshops begin
December 15, 2017	**Deadline for LUCA Registration**
February-April 2018	LUCA materials ship. Participants begin review and update the Census Bureau's address list
February-September 2018	Census Bureau processing of LUCA submissions begins
August-September 2019	Census Bureau delivers LUCA feedback
April 1, 2020	CENSUS DAY

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Questions about 2020 LUCA?

Visit our 2020 LUCA website:

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

Contact us:

Via telephone: 1-844-344-0169

Via Email: GEO.2020.LUCA@census.gov

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More information on the 2020 Census Memorandum Series: http://www.census.gov/programs-surveys/decennial-census/2020-census/planning-management/memo-series.html

More information on the 2020 Census: http://www.census.gov/2020Census

More information on the American Community Survey: http://www.census.gov/programs-surveys/acs/

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