The 2020 Census Local Update of Census Addresses Operation (LUCA)

What is LUCA?

LUCA is the only opportunity offered to tribal, state, and local governments to review and comment on the U.S. Census Bureau's residential address list for their jurisdiction prior to the 2020 Census. The Census Bureau relies on a complete and accurate address list to reach every living quarters and associated population for inclusion in the census.



Why participate in LUCA?

- To help ensure an accurate decennial census count in your community.
- To help the federal government distribute more than \$400 billion in funds annually for infrastructure, programs, and services.
- · To help your community plan for future needs.

Who can participate in LUCA?

Active, functioning, legal governments can participate in LUCA. These include:

- Federally recognized tribes with a reservation and/or off-reservation trust lands.
- States.
- · Counties.
- Cities (incorporated places).
- Townships (minor civil divisions).

If you are unable to participate in LUCA, you may designate an alternate reviewer for your government, such as your county, state data center, or regional planning agency.



U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU CENSUS.gov



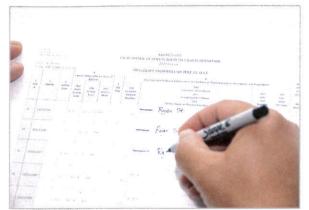
Schedule

- January 2017: Advance notification of LUCA mailed to the highest elected official (HEO) or Tribal Chairperson (TC) of all eligible governments and other LUCA contacts.
- March 2017: LUCA promotional workshops begin.
- July 2017: Invitation letter and registration forms mailed to the HEO or TC of all eligible governments.
- October 2017: Training workshops begin. Self-training aids and Webinars will be available online at the LUCA Web site.
- February 2018: Participation materials mailed to registered participants. Participants have 120 calendar days from the receipt of materials to complete their review.
- August 2019: Feedback materials offered to participants with the results of Address Canvassing.
- April 1, 2020: Census Day.

For more information about LUCA, call 1-844-344-0169, e-mail us at <GEO.2020.LUCA@census.gov>, or visit our Web site at <www.census.gov/geo/partnerships/luca.html>.

LUCA Materials

The Geographic Update Partnership Software (GUPS) is new for LUCA. The GUPS is a self-contained Geographic Information System (GIS) update and processing package. In addition to the software, you will receive the Census Bureau's address list, address count list by



census block, and Topologically Integrated Geographic Encoding and Referencing (TIGER) partnership shapefiles.

The Census Bureau offers its address list in digital or paper formats. The digital format requires the use of spread-

sheet or database software. The paper format is available only to governments with 6,000 or fewer addresses.

Maps are offered in digital (TIGER partnership shapefiles that require GIS software) or paper (large format maps are 42 X 36 inches and include a DVD of small format [8.5 X 14 inches] block maps in Adobe PDF) formats.

The Census Bureau offers in-person training using LUCA materials. Self-training aids and Webinars are available online at the LUCA Web site.

What's new for LUCA?

- Pre-LUCA activities provide more opportunities to submit address information and receive feedback through the continuous Geographic Support System (GSS) Program.
- Streamlined participation through the Full Address List Review provides the opportunity to review and update the Census Bureau's address list.
- The Census Bureau's digital address list is available in new, convenient standard software formats.
- Comprehensive data that includes ungeocoded address and residential structure coordinates.



Preparing for LUCA

You will receive only the addresses within your jurisdiction's boundaries that are currently on file with the Census Bureau. By participating in the 2017 Boundary and Annexation Survey (BAS), you have the opportunity to verify or update your jurisdiction's boundaries. Doing this will ensure that you receive the complete list of addresses for your jurisdiction in LUCA.

To prepare your address list before you receive your LUCA materials:

- Ensure that your address list contains multiunit structure identifiers (such as apartment numbers for individual units) and that you can distinguish between residential addresses and nonresidential addresses.
- Identify local address sources, such as building permits, E-911 address files, local utility records, annexation records, and assessment or taxation files.
- Visit the LUCA Web site or plan to attend a LUCA promotional workshop to get more information about participating in the program.

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2020 Census Local Update of Census Addresses Operation (LUCA) Information Guide

Issued December 2016 D-2101

What Is LUCA?

The Local Update of Census Addresses Operation (LUCA) is a voluntary decennial census operation. LUCA is the only opportunity prior to the 2020 Census for tribal, state, and local governments (including the District of Columbia and Puerto Rico) to review and update the U.S. Census Bureau's residential address list for their jurisdiction. The Census Bureau relies on a complete and accurate address list to reach every living quarters and associated population for inclusion in the census. The Census Address List Improvement Act of 1994 (Public Law 103-430) authorizes LUCA.

Active, functioning, legal governments are eligible to participate in LUCA, including:

- Federally recognized tribes with a reservation and/or off reservation trust lands.
- States.
- Counties.
- Cities (incorporated places).
- Townships (minor civil divisions).

If your government lacks the resources to participate in LUCA, you can arrange for a higher level of government, such as a county; or an organization, such as a regional planning agency or council of governments, to conduct your address review.

Why Participate in LUCA?

The accuracy and completeness of the address list is critical to the accuracy and completeness of the decennial census. Participating in LUCA can help ensure an accurate census for your community.

Although the primary purpose of the decennial census is to apportion seats in the U.S. House of Representatives, census data are used to:

- Distribute federal funds for over 1,000 programs administered by 26 federal agencies to tribal, state, and local governments.
- Provide statistical support for grant applications that fund community and regional development, education, agriculture, energy, and environmental programs, as well as other needed community improvements and enhancements.
- Help your community plan for future needs.

What Is New for LUCA?

- Pre-LUCA activities, such as the on-going Geographic Support System (GSS) Partnership Program, provide more opportunities to submit address information and receive non-Title 13 feedback.
- New streamlined participation through the full address list review.
- Online viewing availability for the Census Bureau housing unit counts by census block for your jurisdiction starting in January 2017.
- Ease of use with standard data formats for viewing the Census Bureau's digital address list (Excel [.xlsx] and Comma Delimited Text [.csv]).
- Availability of the Census Bureau Geographic Update Partnership Software, a self-contained Geographic Information System (GIS) tool.
- Access to comprehensive data that include residential structure latitude/longitude coordinates and ungeocoded census residential addresses.
- Digital participants may submit residential structure coordinates as part of their address updates.



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.

LUCA Preparation Checklist

- ✓ Participate in the GSS.
- Review your boundaries and respond to the 2017 Boundary and Annexation Survey (BAS).
- ✓ Complete and return the Contact Information Update Form.
- ✓ Attend a LUCA promotional workshop or access information at the LUCA Web site.
- ✓ Access the Census Address Count List for your jurisdiction online.
- ✓ Determine and assemble local address sources.
- ✓ Update your address list with information needed for LUCA:
 - Unit designations for multiunit housing (e.g., Apt 1, Apt 2, Unit A, Unit B, etc.) (required).
 - Residential address status (required, the LUCA Operation only accepts residential addresses).
 - ZIP Codes for mailing addresses desired.
- ✓ Geocode your local address list using the online Census Geocoder (digital address list required).
- ✓ Determine your LUCA materials format.
- ✓ Develop your address review strategy.
- ✓ Highest Elected Official (HEO), Tribal Chair (TC), or Governor registers for LUCA.
- ✓ Attend a training workshop or Webinar.
- ✓ Review and update LUCA materials.
- ✓ Receive address feedback.

Participate in the GSS.

Pre-LUCA activities provide more opportunities to submit address information and receive non-Title 13 feedback through the continuous GSS Partnership Program.

Review your boundaries and respond to the 2017 BAS.

The 2017 BAS is the last opportunity to ensure that your boundaries are correct before LUCA begins. Because LUCA participants receive only addresses inside their jurisdictional boundaries for review and update, you may not be able to view your entire address list if your boundaries are incorrect. The 2017 BAS starts in December 2016. For more information, visit the BAS Web site at <www.census.gov/geo/partnerships/bas.html>.

Complete and return the Contact Information Update Form.

In January 2017, the HEO, TC, Governor, and other contacts that the Census Bureau has associated with each government will receive a LUCA notification package. The package includes information about LUCA and a *Contact Information*

Update Form. Complete the form and return it using the postage-paid envelope. If you prefer, you may scan it and return it via e-mail to <GEO.2020.LUCA@census.gov>.

Attend a LUCA promotional workshop or access information on the LUCA Web site.

Plan to attend a LUCA promotional workshop or Webinar to obtain additional information about participating in LUCA. You may also obtain additional information by accessing the LUCA Web site at <www.census.gov/geo/partnerships/luca.html>.

Access the Census Address Count List for your jurisdiction online.

Your government's Address Count List, which contains the Census Bureau's count of residential addresses for each census block within your jurisdiction, is available on the LUCA Web site. Compare the census counts to your counts to help focus your participation efforts. Each census block record is at least 12 characters in length and contains seven fields of information www.census.gov/geo/maps-data/data/geocoder.html.

	Digital Add	ress Count List
Maximum character length	Field name	Description
12	Entity ID	Unique code assigned by the Census Bureau to each entity.
2	State code	2-digit current state code.
3	County code	3-digit current county code.
6	Census tract number	6-digit current census tract number, with an implied decimal point between the fourth and fifth digit.
4	Census block number	4-digit current census block number.
7	Count of housing unit addresses	Census Bureau's most recent count of housing unit addresses.
7	Count of group quarters addresses	Census Bureau's most recent count of group quarters addresses.

Determine and assemble local address sources.

Potential local address sources for compiling your residential address list include:

- E-911 address files.
- New housing construction or building permits.
- Housing inspection records.
- Planning and zoning records.
- Local utility records.
- School enrollment records.
- Driver license files.
- Annexation records.
- Assessment or tax files (residential units).
- Voter registration files.

Update your Address List with information needed for LUCA.

Unit Designation: LUCA **requires** that each record include unit identifiers (e.g., Apt 1, Apt 2, Unit A, Unit B). Basic street address and the individual unit designation should be provided for multiunit buildings.

Residential Status: LUCA accepts only **residential** address updates.

ZIP Code: A ZIP Code in a mailing address is useful to the Census Bureau.

Geocode your local address list using the online Census Geocoder (digital address list required).

The Census Bureau defines geocoding as assigning a state, county, census tract, and census block number to an address. Used in conjunction with the Address Count List, the Census Geocoder allows you to compare your digital address list to the Census Bureau's count of addresses by census block. You can focus your address review on the census blocks with the greatest address count differences between your address list and the Census Bureau's. For more information, see <www.census.gov/geo/maps-data/data/geocoder.html>.

Determine your LUCA materials format.

The LUCA address lists and maps are available in digital or paper formats. The digital format requires the use of spreadsheet or database software, such as Excel (.xlsx) or Comma Delimited Text (.csv). The paper format is available only to governments with 6,000 or fewer addresses.

Example: Available LUCA materials formats
Copy provided for reference only; do NOT return this form.

PRODUCT PREFERENCE FORM 2020 CENSUS LOCAL UPDATE OF CENSUS ADDRESSES	S OPERATION (LUCA) Government Name
Please mark (X) to select a product preference form	at (Choose #1 OR #2 below)
Information System (GIS) tool. It includes the Census partnership shapefiles. GUPS allows you to add extern	Partnership Software (GUPS) is a self-contained Geographic Bureau's address list, address count list by census block, and nal geospatial data (shapefiles, geodatabases, and imagery) for Windows XP, Vista, and Windows 7, 8, and 10, and Apple Mac OS
2. Select one address list format in Section A and o	OR one map format in Section B.
A. Address List – Select Digital or Paper	B. Maps – Select Digital or Paper
Digital – Requires the use of a spreadsheet or database software. We will provide the files in Excel (.xlsx) and Comma Delimited Text (.csv) format.	Digital —Partnership shapefiles that require the use of GIS software. Address structure points are <i>not</i> included in the partnership shapefiles but can be created from the lat/long coordinates included on the digital address list.
OR	OR
Paper – Available only to governments with 6,000 or fewer addresses. Each 8 1/2" X 14" page contains six (6) addresses (1,000 pages maximum). Choose one address sort preference below:	Paper – Large format paper map(s) (42" X 36") with one or more sheets. This includes a DVD of small format (8 1/2" X 14") block maps in Adobe PDF format that contain address structure coordinates showing the location of residential addresses.
Census Tract#/Block#/Street Name/House#/Unit# Street Name/House#/Unit#/Census Tract#/Census Block# (alphanumeric sort) Current number of residential housing units on file for your jurisdiction as of date X.	Note: The shapefiles do NOT contain address points. If you choose a paper address list and digital maps, you will not see map spots in the digital environment. You will have to use the block PDF maps.
jurisdiction as of date x.	

Develop your address review strategy.

To conduct your address review, consider your time, staff, and available local address information. If a complete review is not possible, focus your review on these areas:

- Group quarters (e.g., college dorms, nursing homes, correctional facilities, etc.).
- Areas of new construction.
- E-911 address conversion areas.
- Single-family homes converted to multifamily homes, and vice versa.

- Warehouses converted to residential units.
- New mobile homes.
- Apartment buildings with irregular or missing numbering schemes for the individual units.
- Annexed land.
- Areas along governmental boundaries.
- Blocks with the greatest count differences between the Census Bureau's address block count and your address block count.

Highest Elected Official (HEO), Tribal Chair (TC), or Governor registers for LUCA.

In July 2017, the Census Bureau will mail the invitation letter and registration form to your HEO, TC, or Governor. This invitation package will include information about LUCA and a registration form for the HEO, TC, Governor, and the LUCA liaison (designated by the HEO, TC, or Governor) to complete and return to the Census Bureau for participation in LUCA.

Attend a LUCA training workshop or Webinar.

Training workshops will offer "hands-on" experience using the LUCA materials. Self-training aids and Webinars will be available online at the LUCA Web site. In addition, the 2020 Census Local Update of Census Addresses Operation (LUCA) Respondent Guide contains detailed instructions and examples for conducting your address and map review.

Review and update LUCA materials.

You have 120 calendar days from the receipt of your materials to conduct your address review and return your updates to the Census Bureau. We estimate that it will take between 16 to 672 hours to complete your address review and submit your updates, depending on your jurisdiction's size and number of changes.

Receive address feedback.

After validating LUCA submissions, the Census Bureau will provide address feedback on your LUCA updates.

Questions

For more information about LUCA, call 844-344-0169, e-mail us at <GEO.2020.LUCA@census.gov>, or visit our Web site at <www.census.gov/geo/partnerships/luca.html>.

Digital Address List Record Layout

The information contained on each census address record includes census state and county codes, census tract and block numbers, and group quarters flag. The character length for each record may vary.

Maximum	d group quarters flag. The character length to	r each record may vary.
character length	Field name	Description
7	Line number	Sequential number for each address record in the file.
9	MAFID	Unique control number assigned to each MAF address.
12	Entity ID code	Unique number assigned by the Census Bureau to each entity.
1	Action code	Entered by the participant to indicate an action to be taken on the address.
2	State code	2-digit Current State Code.
3	County code	3-digit Current County Code.
6	Census tract number	6-digit current census tract number, with an implied decimal point between the fourth and fifth digit (e.g., 123401 and 000300).
4	Census block number	4-digit Census Block Number.
15	Geo ID	15-digit combination of State Code, County Code, census
		tract, and census block numbers.
1	Group quarters flag	Displays a 'Y' if the address is a group quarters.
35	Complete address number	Housing unit or group quarter's assigned address number, alone or with an address number prefix and/or address number suffix, that identifies a location along a thoroughfare or within a community.
100	Complete street name	Full street or road name. The official name of a thoroughfare as assigned by a governing authority, or an alternate (alias) name that is used and recognized.
65	Apartment/unit number	Within structure descriptor or identifier, such as APT 5 or 1st FL FRN.
5	City-style mailing ZIP Code	5-digit ZIP Code for city-style mailing address.
100	Group quarters name	Name of group quarter (e.g., Dobbs Hall).
100	Facility name	Name of group quarter facility (e.g., University of Illinois).
100	Location description	Description of the location and physical characteristics of a living quarters (e.g., red ranch w/white shutters).
50	Noncity-style mail delivery address (RR#, HCR#, or PO Box #)	Rural Route and Box number, Highway Contract Route number, or Post Office Box number.
5	Noncity-style mailing ZIP Code	5-digit ZIP Code for noncity-style mailing address.
4	Map spot ID	Unique number assigned by the Census Bureau for each map spot within a block. Numbering starts over in each block.
ī	Address use	A value entered by the participant indicating if the address is used for M) mailing purposes, L) location purposes, including emergency services, B) both mailing and location purposes.
11	Structure latitude	Address structure latitude, populated only if the Census Bureau has captured an address structure point for the address, otherwise blank. If blank, participants can populate this field.
12	Structure longitude	Address structure longitude, populated only if the Census Bureau has captured an address structure point for the address, otherwise blank. If blank, participants can populate this field.
1	City-style address flag	Displays "Y" if city-style address, an "N" if noncity-style address.

Paper Address List

addresses information, and group quarters flag. The paper address list is available only to governments with 6,000 or fewer addresses. Each 8 1/2" x 14" page contains six addresses (1,000 pages maximum). You may choose one of two sort preferences: Census Tract#/Block#/Street Name/House#/Unit# or Street Name/House #/Unit#/Census Tract#/ Census Block#. The information contained in the paper address list includes state and county codes, census tract and block numbers,

Example sort: Street Name/House#/Unit#/Census Tract#/Census Block# Example sort: Census Tract/Block

MB Control	OMB Control No. XXXX-XXXX					2020 L	OCAL UPI	2020 LOCAL UPDATE OF CENSUS ADDRESSES OPERATION (LUCA)			D		U.S. CENSUS BUREAU
Sort: Tra Entity: Wi	Sort: Tract/Block Entity: Winter County CO88009	600880					DISCI	DISCLOSURE PROHIBITED BY TITLE 13, U.S.C.			Pa Dz	Page: 17 Date: 01/	17 of 20 01/04/2018
			Census Ge	4 Census Geographic Location of Address	cation of			6 City Style Mail Delivery Address or E-911 Address or Physical Location Description and Road Name	ne	7 Noncity-Style Mail Delivery			10
1 Line Number	2 MAFID	3 Action Code	(4a) State	(4b)	[4c]	5 GQ Flag	(6a) Complete	(6b) Complete Street Name (6e)	(ed)	Address (RR Number, HCR Number, PO Box Number)	8 Map Spot	9 City-Style Address	Map Spot ID Coordinates
			County	Census	Block		Address	Group Quarters Name Group Quarters Name Number Facility Name or Physical Location Description	1	(7a) Noncity-Style Mailing ZIP Code	Number	E E	(10a) Latitude (10b) Longitude
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N - Address is Nonresidential J - Address is not in this Jurisdiction D - Delete this address C - Correction to this address FICTITIOUS INFORMATION -FOR EXAMPLE ONLY

(XX-XX-XXX) OMB Contro	(XX-XX-XXXX) OMB Control No. XXXX-XXXX					2020 L	OCAL UPE	ADDRESS LIST 2020 LOCAL UPDATE OF CENSUS ADDRESSES OPERATION (LUCA)			CONOMICS AND	CONOMICS AND STATISTICS ADMINISTRATION U.S. CENSUS BUREAU
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			Census Ge	4 Census Geographic Location of Address	cation of			6 City Style Mail Delivery Address or E-911 Address or Physical Location Description and Road Name	7 Noncity-Style Mail Delivery			01
1 Line Number	2 MAFID	3 Action Code	(4a) State	(4b)	(4c)	5 GQ Flag	(6a) Complete	(6b) Complete Street Name (66) (6f) (6f)	Z	8 Map Spot	9 City-Style Address	Map Spot ID Coordinates
			County	Tract			Address	1	iode (7a) Noncity-Style Mailing ZIP Code	Munde	198 198	(10a) Latitude (10b) Longitude
25	866666666		88009	0042.00	1055		4007	AMPHORA ST 99997	26	m	>	40.361373
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97	99999994		60088	0045.00	1055		4009	/6666		4	>	-73,543799
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27	999999995		60088	0045.00	1058		5001	46666		.	>	-73.543799
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28	966666666		88009	0045.00	1058	100	5003	26666	26	2	>	-73.543799
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								W CAMERON AVE				40.3613796
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N - Address is Nonresidential Action Codes

J – Address is not in this Jurisdiction D – Delete this address C – Correction to this address FICTITIOUS INFORMATION –FOR EXAMPLE ONLY

Paper Address List Add Page

Participants selecting the paper address list can add residential city-style addresses that do not appear on the Census Bureau's address list using the Address List Add Page.

Example: Address List Add Page

Form D-2006 (XX-XX-XXX OM/B Contr	X) of No. XXXX-XXX		NSUS LOC			ADD PAGE SUS ADDRESS	U.S. DEPARTMENT OF DAMMERGE EDITION OF THE PROPERTY OF THE PRO	PAGE	(Print Nan	ne)	PAGES
Add Page	e For:		(Entity Name	»}				Entity ID Code: _	(Copy from A	ddress List E	Page)
a de la	Census	2 Geographic t		1750 7.6	3		4 Residential Address		(00,000)		6
1 Line#	(2a) State Code #	(2b) County Code #	(2c) Census Tract#	(2d) Census Block #	Enter "Y" if this is a Group Quarters	(4a) Complete Address Number	(4b) Complete Street Name (4c) Group Quarters Name (4d) Facility Name	(4e) Apt/ Unit #	(4f) City-Style Mailing ZIP Code	5 Unique Map Spot#	Address Use, if known M=Mailing L=Location ' B=Both
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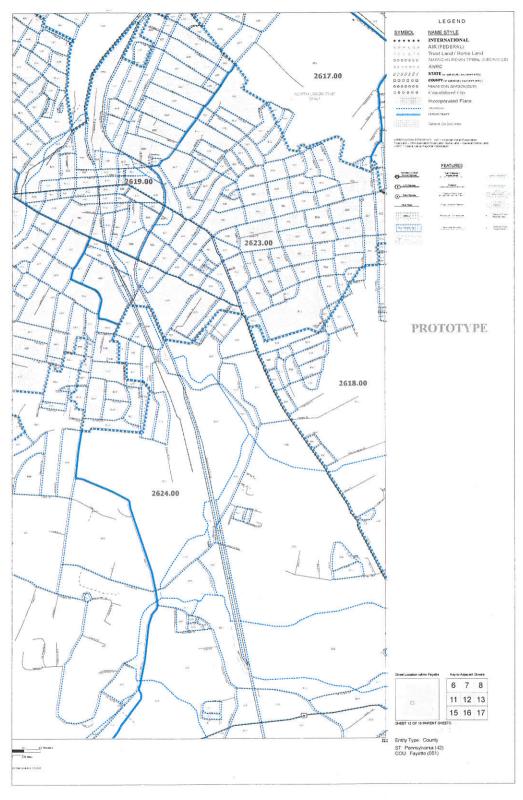
Paper Address Count List

The LUCA address count list contains the count of housing unit and group quarters addresses for each census block within your jurisdiction. The list contains 90 census blocks per page. This list is for reference only.

Example: Address Count List

Form D-2009 (XX-XX-XXXXX) QMB Control No.	XXXX-XXXX		020 CENSUS		ADDRESS CO	UNT LIST US ADDRESSI	ES OPERATIO	ON (LUCA)		ECCMONNES AND	ENT OF COMMERCE MARGINI AMMERICAN S. CENSUS BUREAU
ST/CO: 52 /	003									Page: 1 of 1	
Entity: ANY	TOWN PL521	12345								Date: 12/02	/2017
Census Tract Number	Census Block Number	Count of Housing Unit Addresses	Count of Group Quarters Addresses	Census Tract Number	Census Block Number	Count of Housing Unit Addresses	Count of Group Quarters Addresses	Census Tract Number	Census Block Number	Count of Housing Unit Addresses	Count of Group Quarters Addresses
9708.01	2345	9	1	9708.03	1100	9					
9708.01	2346	11		9708.03	1101	4					
9708.01	2347	3		9708.03	1102	4					
9708.01	2348	9		9708.03	1103	6					
9708.01	2349	12		9708.03	1104	6					
9708.01	2350	12		9708.03	1105	5					
9708.01	2351	14		TOTAL	36	217	2				
9708.01	2352	6									
9708.01	2353	15	1								
9708.01	2354	12									
9708.01	3301	6									
9708.01	3302	8									
9708.01	3303	5									
9708.01	3304	12									
9708.02	3305	13									
9708.02	3306	5									
9708.02	3307	7									
9708.02	3309	6									
9708.02	3310	6									

Example: Paper Map



Census Bureau Paper Maps and Digital Shapefiles

Paper—Large format paper map(s) (42" x 36") with one or more sheets. This includes a DVD of small format (8 1/2" x 14") block maps in Adobe PDF format that contain address structure coordinates showing the location of residential addresses. For a full-color paper map example, visit our Web site at <www.census.gov/geo/partnerships/luca.html>.

Digital—Topologically Integrated Geographic Encoding and Referencing (TIGER) Partnership shapefiles that require the use of GIS software. Address structure points are not included in the partnership shapefiles but can be created from the latitude/longitude coordinates included on the digital address list.