



Agenda

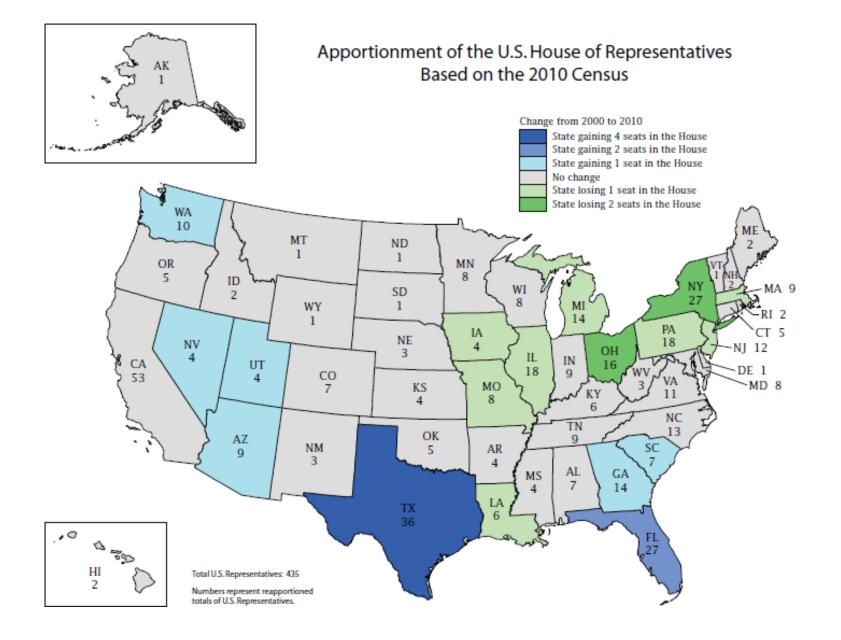
- The Decennial Census.
- Census Bureau terminology.
- Preparation for 2020 LUCA participation.

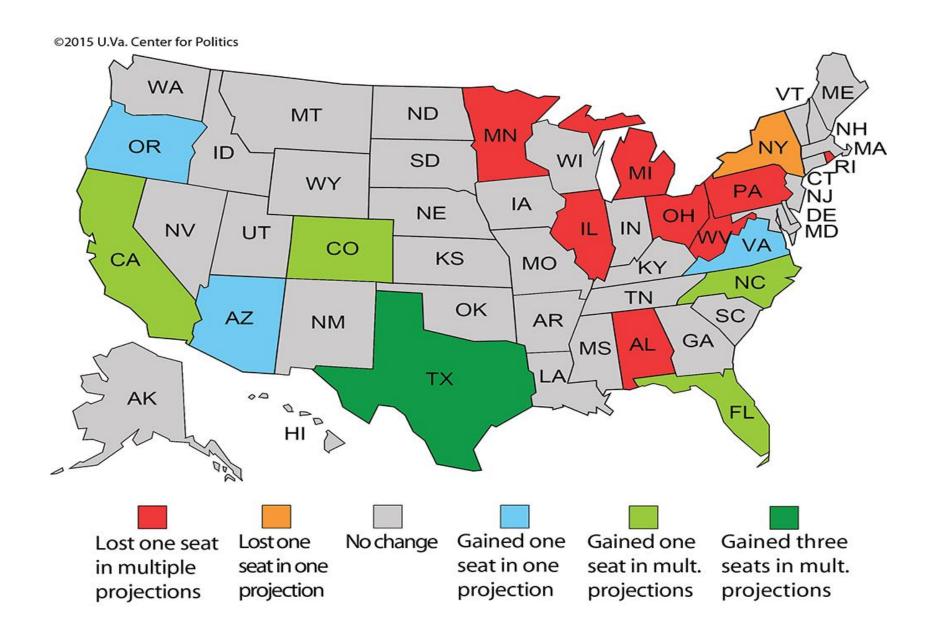
The 2020 LUCA materials and operational instructions are subject to change between the LUCA Training timeframe and the time you receive your materials for review in the spring of 2018; therefore, the examples shown in the various training modules may differ from the official materials.

The Decennial Census

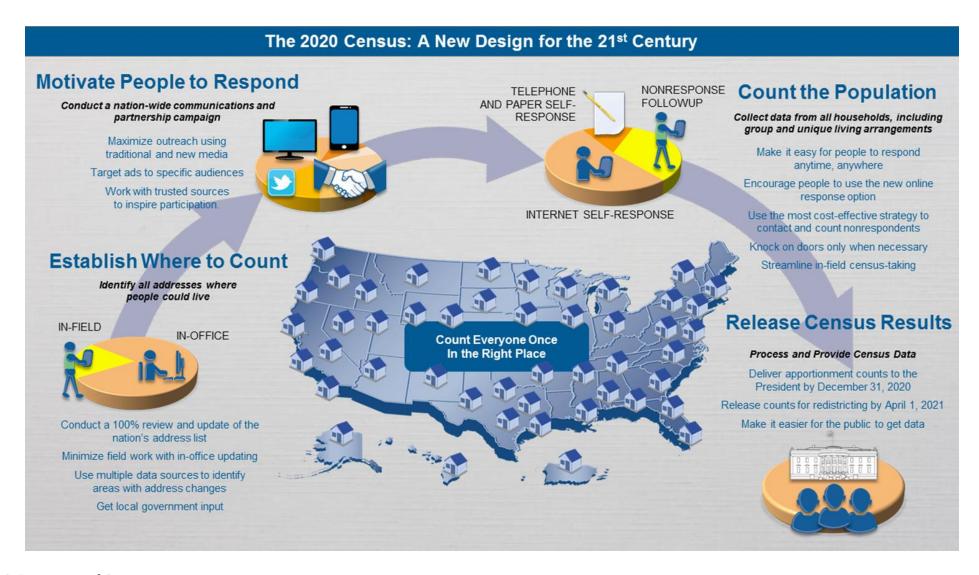
The purpose is to **conduct** a census of population and housing and **disseminate** results to the President, the States, and the American People.

- 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.
 - Informing planning decisions of tribal, federal, state and local government and organizational decisions (e.g., where to locate, size of market, etc.) of businesses and non-profits.





2020 Census Design





Who Can Participate

- Federally recognized tribes with a reservation and/or off-reservation trust land.
- States and Counties.
- Incorporated places.
 - Cities, towns, boroughs, villages.

Title 13 U.S.C. – 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 the Census Bureau maintain the confidentiality of all information it collects.
- LUCA operation requires all liaisons, reviewers, and anyone with access to Title 13 materials abide by *Confidentiality and Security Guidelines* and requires all LUCA participants sign the *Confidentiality Agreement Form (D-2005)*.

2020 LUCA Schedule

Timeframe	Activity					
January 2017 ✓	Advance Notice mailing mailed to Highest Elected Officials (HEOs), Tribal Chairs (TCs), Governors and other potential 2020 LUCA contacts.					
March 2017 ✓	2020 LUCA Promotional presentations began.					
July 2017 ✓	2020 LUCA invitation and registration materials mailed to HEOs, TCs and Governors.					
October 2017	2020 LUCA Training workshops began.					
December 15, 2017	2020 LUCA registration deadline.					
February - April 2018	Participants receive their 2020 LUCA materials.					
March - September 2018	Census Bureau processes 2020 LUCA submissions.					
April 2018 - May 2019	Census Bureau validates 2020 LUCA addresses.					
Summer 2019	Census Bureau delivers 2020 LUCA feedback.					
April 1, 2020	CENSUS DAY.					



Census Bureau Terminology

- Census Bureau terminology.
 - Geocode.
 - Housing Unit.
 - Group Quarters.
 - City Style Address.
 - Non-city Style Address.

Geocode

- Geocoding is the process of taking an address and returning an actual or calculated latitude/longitude coordinate on the earth's surface.
- In terms of the Census Bureau, this includes assigning the proper state, county, census tract and census block codes that correspond to the physical location of the address.
- The Census Bureau requires every address is assigned a Census geocode before it can be processed and added to its inventory and included in the Census.

Housing Unit (HU)

 A single-family house, townhouse, mobile home, trailer, apartment, group of rooms, or a single room occupied as a separate living quarter or, if vacant, intended for occupancy as a separate living quarter.

Acceptable Housing Units for LUCA

- Houses, including townhouses, condominiums, and apartments.
- Living quarters within an otherwise nonresidential structure such as an apartment within a church, school, or business.
- Mobile homes or trailers occupied as separate permanent living quarters, or if vacant, intended for occupancy as separate permanent living quarters.
- Any housing units <u>under construction</u> that will be habitable (closed to the elements with final roof, windows, and doors) on Census Day, April 1, 2020.



Group Quarters (GQs)

 A place where people live or stay, in a group living arrangement, that is owned or managed by an entity or organization providing housing and/or services for the residents.

Acceptable Group Quarters for LUCA

- Correctional facilities.
 - Federal and state prisons.
 - Local jails and other municipal confinement facilities.
 - Correctional residential facilities.
- Group homes.
 - Halfway houses and homes for people with special needs.
- Juvenile facilities.
 - Group homes for juveniles (non-correctional).
 - Residential treatment centers for juveniles (non-correctional).
 - Correctional facilities intended for juveniles.
- Nursing homes.
 - Nursing facilities/skilled-nursing facilities.



Acceptable Group Quarters for LUCA (cont'd)

- Hospitals.
 - Mental (psychiatric) hospitals and psychiatric units in other hospitals.
 - Hospitals with patients who have no usual home elsewhere.
 - In-patient hospice facilities.
- College or university dormitories, fraternity houses, and sorority houses.
- Workers group living quarters or dormitories.
- Religious group quarters.
- Any group quarters <u>under construction</u> that will be habitable (closed to the elements with final roof, windows, and doors) on Census Day, April 1, 2020.



Unacceptable HUs and GQs for LUCA

- Condemned or scheduled for demolition.
- Under construction or remodeling for conversion to a nonresidential purpose.
- Used solely for nonresidential storage.
- Used solely as offices or businesses in which no one is living.
- Used solely for ceremonial purposes.
- Under construction and will **not** be habitable (closed to the elements with final roof, windows, and doors) on Census Day, April 1, 2020.

City Style Address

- Include a house number and street name (e.g., 212 Elm St or 137 Clark Ct Apt 3 or 35A Fourth Ave W).
 - o For 2020 LUCA, participants adding multiunit addresses must provide unit identifiers (e.g., Apt 1, Apt 2, Unit A, Unit B).

Non-City Style Address

- Do not include a house number and/or a street name.
- May include incomplete house number and street name.
- Frequently used non-city style mailing addresses include:
 - Location Description with map spot.
 - Rural route and box number.
 - Highway contract route and box number.

Preparation for 2020 LUCA participation

- Early tools.
 - Address Block Counts.
 - Census Geocoder.
 - o TIGERweb.
- Product Preference combinations.

Early tools

- Provide 2020 Census LUCA Address Block Count files.
- Provide Census Geocoder to geocode jurisdiction's address list:

https://geocoding.geo.census.gov/geocoder/

TIGERweb:

https://tigerweb.geo.census.gov/tigerweb/>

1	Α	В	С	D	E	F	G
1	State	County	Tract	BLOCK	BLOCK_GEOID	Total Residential	Total Group Quarters
158	48	209	0102.00	3007	482090102003007	96	1
159	48	209	0102.00	3008	482090102003008	1	1
160	48	209	0102.00	3009	482090102003009	1	1
161	48	209	0102.00	3010	482090102003010	122	0
162	48	209	0103.02	1000	482090103021000	0	0
163	48	209	0103.02	1001	482090103021001	0	0
164	48	209	0103.02	1002	482090103021002	0	0
165	48	209	0103.02	1003	482090103021003	43	0
166	48	209	0103.02	1004	482090103021004	20	0
167	48	209	0103.02	1005	482090103021005	22	0
168	48	209	0103.02	1006	482090103021006	114	0
169	48	209	0103.02	1007	482090103021007	21	0
170	48	209	0103.02	1008	482090103021008	13	0
171	48	209	0103.02	1009	482090103021009	25	0
172	48	209	0103.02	1010	482090103021010	0	0
173	48	209	0103.02	1011	482090103021011	3	0
174	48	209	0103.02	1012	482090103021012	0	0
175	48	209	0103.02	1013	482090103021013	0	0
176	48	209	0103.02	1014	482090103021014	2	0
177	48	209	0103.02	1015	482090103021015	0	0
178	48	209	0103.02	1016	482090103021016	0	0
179	48	209	0103.02	1017	482090103021017	0	0
180	48	209	0103.02	1018	482090103021018	4	0
181	48	209	0103.02	1019	482090103021019	0	0
182	48	209	0103.02	1020	482090103021020	3	0
183	48	209	0103.02	1021	482090103021021	0	0
184	48	209	0103.02	1022	482090103021022	28	0
185	48	209	0103.02	1023	482090103021023	33	0
186	48	209	0103.02	1024	482090103021024	18	0

Early Tools For LUCA Partners

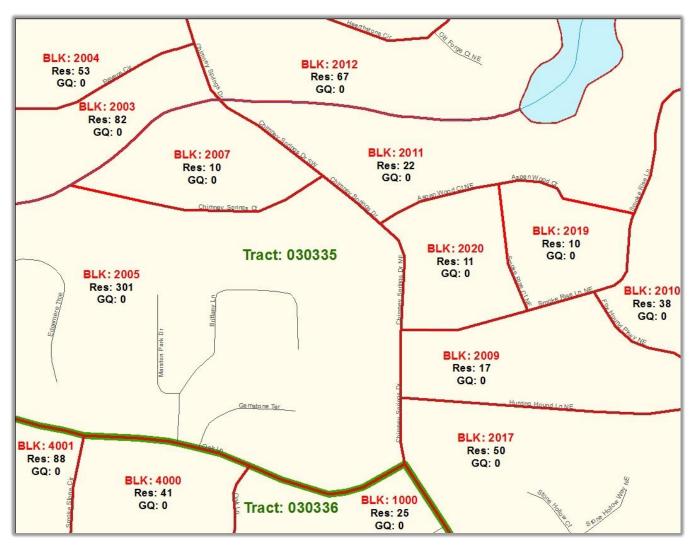
Early Address Block Count List

- Providing an early address block count list for partners in January 2017 (includes count of residential addresses and group quarters by block).
- Address Block Count lists can be linked/joined to 2016
 TIGER/Line shape files.

d	A	В	С	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



Linking Address Block Count Data



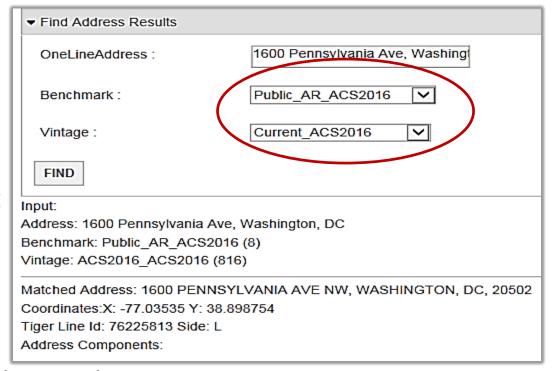
Early Address Block Count Lists can be linked/joined to 2016 TIGER/Line Shapefiles for overlay and analysis.



More Early Tools For LUCA Partners

Updated Census Geocoder Tool

- Takes individual addresses or a file of addresses and obtains approximate coordinates and census Geography.
- Increase the maximum number of records from 1,000 to 10,000.
- Provides an alternate path for larger governments to submit addresses to be geocoded when you have an address list that is not geocoded (not linked to points or parcels or any particular location.)



24 hour turnaround on the results.



Using The Census Geocoder

.TXT File Address List Format

- Format addresses in a single line with comma delimiters.
- Each record should consist of the following five fields:

Unique ID ◆ House Number and Street Name ◆ City ◆ State ◆ ZIP Code

- All fields (even blank fields) must be separated by a comma:
 - Unique ID, House Number and Street Name, City, State, ZIP Code
 - Valid entries :
 - 1, 1600 Pennsylvania Ave NW, Washington, DC, 20502
 - 2, 1600 Pennsylvania Ave NW, Washington, DC,
 - 3, 1600 Pennsylvania Ave NW(, ,) 20502
 - Invalid entries :
 - 4, 1600 Pennsylvania Ave NW, Washington, DC
 - 5, 1600 Pennsylvania Ave NW, 20502

.CSV, .XLSX & .XLS File Address List Format

Five fields:

- Unique Field Identifier or Line Number (required)
- House Number and Street Name (required)
- City
- State
- Zip Code
- Headers Not Required (but recommended).
- The more detail provided (directional, city, state, zip code), the better the results.

4	Α	В	С	D	E	
1	ID	Address	City	State	Zip	
2	1	101 Decennial Way	Washington	DC	12345	
3	2	102 Decennial Way		DC		
4	3	103 Decennial Way	Washington		12345	
5	4	104 Decennial Way	Washington	DC		
6	5	105 Decennial Way			12345	
7	6	106 Decennial Way				



Batch Census Geocoder Output File

1	A B	C	D	E	F	G	H I	J K	L	M	A
745	647 1206 TIGER FOREST DR, DECENNIAL, GA,	Match	Non_Exact	1206 TIGER FOREST DR SW, DECENNIAL, GA, 72961	-64.59167,77.66096	17206769	R 13	67 3340	5 2003		
746	648 1207 TIGER FOREST DR, DECENNIAL, GA,	Match	Non_Exact	1207 TIGER FOREST DR SW, DECENNIAL, GA, 72961	-64.59167,77.66097	17206769	L 13	67 3340	5 2003		
747	649 1208 TIGER FOREST DR, DECENNIAL, GA,	Match	Non_Exact	1208 TIGER FOREST DR SW, DECENNIAL, GA, 72961	-64.59167,77.660965	17206769	R 13	67 3340	5 2003		
48	195 3229 GATER DR, DECENNIAL, GA,	Match	Non_Exact	3229 GATER DR SW, DECENNIAL, GA, 72961	-64.60767,77.667705	17177790	L 13	67 3340	5 3004		
49	642 2431 TIGER LN, DECENNIAL, GA,	Match	Non_Exact	2431 TIGER LN SW, DECENNIAL, GA, 72961	-64.60477,77.697456	17216574	R 13	67 3090	5 4002		
750	194 3226 GATER DR, DECENNIAL, GA,	Match	Non_Exact	3226 GATER DR SW, DECENNIAL, GA, 72961	-64.60776,77.667614	17177790	R 13	67 3340	5 3000		
751	643 2432 TIGER LN, DECENNIAL, GA,	Match	Non_Exact	2432 TIGER LN SW, DECENNIAL, GA, 72961	-64.604774,77.697476	17216574	L 13	67 3090	5 4002		
52	197 3231 GATER DR, DECENNIAL, GA,	Match	Non_Exact	3231 GATER DR SW, DECENNIAL, GA, 72961	-64.60794,77.667604	17177790	L 13	67 3340	5 3004		
53	644 2486 TIGER LN SW, DECENNIAL, GA, 72961	Match	Exact	2486 TIGER LN SW, DECENNIAL, GA, 72961	-64.604645,77.692902	17216574	L 13	67 3090	5 4002		
54	196 3230 GATER DR, DECENNIAL, GA,	Match	Non_Exact	3230 GATER DR SW, DECENNIAL, GA, 72961	-64.607925,77.667604	17177790	R 13	67 3340	5 3000		
55	645 2534 TIGER LN, DECENNIAL, GA,	Match	Non_Exact	2534 TIGER LN SW, DECENNIAL, GA, 72961	-64.604546,77.69166	17177776	R 13	67 3090	5 4002		
56	191 3218 GATER DR, DECENNIAL, GA,	Match	Non_Exact	3218 GATER DR SW, DECENNIAL, GA, 72961	-64.607414,77.667276	17177790	D 13	67 3340	5 3000		
57	16Batch File Address 72961	Match	Exact	3215 GATER MOTORIOGE Addross	-64.607776,77.667045	17177790	HG	ER/	5 3004		
58	193 3225 GATER DR SW, DECENNIAL, GA, 72961	L Match	Exact	3215 GATER Matching Address 3225 GATER DR SW, DECENNO, GA, 72961	-64.6077,77.667577	17177790	Lin	e ID*	3004		
59	640 2946 TIGER CT, DECENNIAL, GA,	No_Match						\leftarrow			
99 3	3237 GATER DR, DECENNIAL, GA,	Vatch	Non_Exact	3237 GATER DR SW, DECENNIAL, GA, 729	-64.606066,7	7.664407	1717	7624 L	13 67	3340	5
61	198 3233 GATER DR, DECENNIAL, GA,	Match	Non Exact	3233 GATER DR SW, DECENNIAL, GA, 72961	-64.607994.77.66791	17177790	13	67 3340	5 3004		J
63	199 3237 GATER DR, DECENNIAL, GA,	Match	Non_Exact	3237 GATER DR SW, DECENNIAL, GA, 72961	-64.606066,77.664407	17177624	L 13	67 3340	5 3004		1
j4	639 2967 TIGER CT, DECENNIAL, GA,	Match	Match						(0.0	. =	
765	637 2957 TIGER CT, DECENNIAL, GA,	Tie	Type		Lat/	Lon*			42	3	
66	638 2966 TIGER CT, DECENNIAL, GA,	Tie	Type						. 0	Tract	
67	635 2947 TIGER CT, DECENNIAL, GA,	No_Match									
68	636 2956 TIGER CT, DECENNIAL, GA,	No_Match									
69	631 2916 TIGER CT, DECENNIAL, GA.	No Match									١,

^{*}Our latitude and longitude coordinate system is NAD83.



^{**}TIGER/Line ID is dependent upon which benchmark you choose.

(We recommend using Public_AR_ACS2016 Benchmark with Current_ACS2016 vintage.)

Product Preference Combinations

- Geographic Update Partnership Software (GUPS).
- Paper Address List & Large Format Paper Maps (Paper/Paper).
- Paper Address List & Large Format Paper Maps with PDF small format block maps (Paper/PaperPDF).
- Paper Address List & Digital Map (Paper/Digital).
- Digital Address List & Large Format Paper Maps (Digital/Paper).
- Digital Address List & Large Format Paper Maps with PDF small format block maps (Digital/PaperPDF).
- Digital Address List & Digital Map (Digital/Digital).





Agenda

- Strategies for LUCA review and update.
 - Things to consider.
 - o Potential address sources.
 - Identify priorities.
 - Beginning your review.

Things To Consider

- How much time can we devote to LUCA review?
 - Only 120 calendar days to conduct review upon receipt of materials.
- Does your jurisdiction have an address list or access to an address list?
- Does the address list include multiunit structure identifiers (e.g., Apt 1, Unit A2, #4, etc.)?
- Does the address list include both residential and commercial addresses or include records that are not structures? If yes, are the residential records distinguishable?

Potential Address Sources

- E-911 address files.
- New housing construction or building permits.
 - Include only if final roof, doors, and windows will be in place on Census Day, April 1, 2020.
- Housing inspection records or occupancy permits.

- Planning and zoning records.
- Local utility records.
- School enrollment records.
- Driver's license files.
- Annexation records.
- Assessment or tax files (residential units).
- Voter registration files.

Identify Priorities

- Apartment buildings and/or areas of concentrated multi-unit housing.
- Areas along governmental boundaries and/or newly annexed land.
- Areas of new residential construction.
- Blocks with the greatest differences between the Census Bureau's address block count and your address block count.

- E-911 address conversion areas.
- Group Quarters (e.g., housing such as college dorms and nursing homes).
- Mobile home parks or new, scattered mobile homes.
- Single-family homes converted to multifamily homes, and vice versa.
- Warehouses converted to residential lofts.

Beginning Your Review

- Assemble local sources.
- Read the 2020 LUCA Respondent Guide.
- Review the Census Bureau's online training presentations.
- Familiarize yourself with LUCA materials.
 - Address List.
 - Address Count List.
 - Paper Maps/Digital Shapefiles.
 - Block to Map Sheet Relationship List (use with Large Format paper maps).
- Organize LUCA materials based on priority areas.
- Organized approach for review yields a successful LUCA submission.





Digital Address List and Digital Map *Product Preference*

Agenda

- Digital Product DVD Overview & Product Preferences.
- DVD Layout and Content by Product Preference
- Digital Address materials.
 - Address List Title 13.
 - Address Count List not Title 13.
- Digital Map Materials
 - TIGER Partnership shapefiles
 - Edits to the TIGER Partnership shapefiles

Digital Product DVD Overview Product Preferences

- Paper Address List and Paper/PDF (1 DVD).
- Paper Address List and Digital Map (1 DVD).
- Digital Address List and Paper Large Format maps (1 DVD).
- Digital Address List and Paper/PDF (1 DVD).
- Digital Address List and Digital Map (3 DVDs).
- Geographic Updates Partnership Software (GUPS) (3 DVDs).

DVD Layout and Content:

Digital Address List and Large Format Paper maps (Digital/Paper)

One DVD with one folder:

- root directory of DVD.
 - 2020LUCA_<EntityID>_address_countlist.csv
 - 2020LUCA_digital_respondent_guide.pdf
 - 2020LUCA_header_file.txt
 - LUCA20_inventory.pdf
 - Readmefirst4.txt
- "shape" folder.
 - 2020LUCA_<EntityID>_DISK1of2.exe (**Title 13 material**).
 - Includes the Digital Address List



DVD Layout and Content: Digital Address List and Paper/PDF (Digital/PaperPDF)

One DVD with two folders:

- root directory of DVD.
 - 2020LUCA_<EntityID>_address_countlist.csv
 - 2020LUCA_digital_respondent_guide.pdf
 - 2020LUCA_header_file.txt
 - LUCA20_inventory.pdf
 - Readmefirst5.txt

- "maps" folder.
 - About_the_maps.pdf
 - LUCA20<EntType><EntCode>.pdf
 - LUCA20<EntType<>EntCode>_BLK2MS.txt
 - Readme.txt
 - Title13_BlockMaps.exe (**Title 13 material**).
- "shape" folder.
 - 2020LUCA_<EntityID>_DISK1of2.exe
 (**Title 13 material**).
 - Includes the Digital Address List



DVD Layout and Content:

Digital Address List and Digital Map (Digital/Digital)

&

GUPS

Three DVDs:

- DVD with GUPS installation software. DVD with non-Title 13 data.
- DVD with Title 13 data.
 - "shape" folder.
 - Includes the Digital Address List
 - 2020LUCA_<EntityID>_DISK1of2.exe (**Title 13 material**).
 - Includes the Digital Address List

- Root directory of DVD.
 - 2020LUCA_digital_respondent_guide.pdf
 - 2020LUCA_GUPS_respondent_guide.pdf
 - 2020LUCA_header_file.txt
 - LUCA20_inventory.pdf
 - Readmefirst6.txt
- "shape" folder.
 - 2020LUCA_<EntityID>_DISK2of2.exe
 - Includes the Digital Address County List



Digital Address Materials Address List – Title 13

- Census residential addresses.
 - City style and non-city style.
- Contain census geographic codes.
 - State, county, census tract, and census block.
- Comma Delimited Text (.csv) format.
 - MUST import not simply open or "double-click".
- 24 fields: Maximum 649 characters per record.
- First row = Header row.
 - Remove spaces from field names, if using Esri's ArcGIS.

Digital Address Materials Address List Record Layout

	Max Character			
	Length	Field Name	Description	Editable
1	7	LINE_NUMBER	Sequential number for each address record in the file.	N
2	9	MAFID	Unique control number assigned to each MAF address.	N
				N-existing
3	12	ENTITY	Unique number assigned by the Census Bureau to each entity.	Y-adds
4	1	ACTION	Entered by the participant to indicate an action taken on the address.	Υ
5	2	STATEFP	Two-digit State FIPS Code.	Υ
6	3	COUNTYFP	Three-digit County FIPS Code.	Υ
			The Census Tract Number consist of six digits with a decimal between the	
			fourth and fifth digit corresponding to the basic census tract number and	
			with leading zeroes for tracts that are not four digit and trailing zeroes for	
7	7	TRACT	census tracts without a suffix.	Υ
			Four-digit 2010 Tabulation Census Block Number. Census blocks are	
			numbered uniquely from 0000 to 9999 within census tract, which nest	
			within state and county. The first digit of the census block number	
8	4	BLOCK	identifies the block group.	Υ
			Concatenation of state, county, tract, and block fields for use in joining	
9	15	GEOID	the block level data to the blocks in the TIGER partnership shapefiles.	N
10	1	GQ_FLAG	Displays a 'Y' if the address is a group quarters.	N

➤ Refer to Table 3 located in your Respondent Guide for complete record layout.

Digital Address Materials Address List – Microsoft Excel Example

No Title 13 Data Displayed

/	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	P	Q	R	S	T	U	V	W	X
															GQ	FA	LO	NO	NO					
	LINE_									GQ_			APARTMENT		NA	CIL	CA	NC	NC					CITY_
1	NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEOID	FLAG	HOUSENUMBER	STREETNAME	UNIT	ZIP	ME	ITY	TI	ITY	ITY	MAPSPOT	USE	LAT	LONG	STYLE
2	124	000000505	PL5127200		51	610	5001.00	1030	516105001001030		1935	Eggman Rd	A	31407						0001		36.88574596	-67.17556610	Υ
3	125	000000506	PL5127200		51	610	5001.00	1030	516105001001030		1935	Eggman Rd	В	31407						0001		36.88574596	-67.17556610	Υ
4	126	000000507	PL5127200		51	610	5001.00	1030	516105001001030		1935	Eggman Rd	С	31407						0001		36.88574596	-67.17556610	Υ
5	127	000000508	PL5127200		51	610	5001.00	1030	516105001001030		1935	Eggman Rd	D	31407						0001		36.88574596	-67.17556610	Υ
6	224	000000599	PL5127200		51	610	5001.00	1034	516105001001034		3501	Leon Rd		31407						0010		36.43412557	-67.75415682	Υ
7	454	99995555	PL5127200		51	610	5001.00	2001	516105001002001		3526	Pueblo Trl		31402										Υ
8	688	989866571	PL5127200		51	610	5002.00	2000	516105002002000		202	Cassiopeia Dr		31402										Υ
9	844	024510332	PL5127200		51	610	5002.00	3012	516105002003012		500	Donahue St		31408										Υ
10	845	025468521	PL5127200		51	610	5002.00	3012	516105002003012		502	Donahue St		31408										Υ
11	846	026347810	PL5127200		51	610	5002.00	3012	516105002003012		504	Donahue St		31408										Υ
12	847	024598100	PL5127200		51	610	5002.00	3012	516105002003012		506	Donahue St		31408										Υ
13	848	025531499	PL5127200		51	610	5002.00	3012	516105002003012		508	Donahue St		31408										Υ
14	941	002200146	PL5127200		51	610	5003.00	1010	516105003001010		1201	Mount Rd		31405						0001		36.87726074	-67.16554319	Υ
15	942	000040147	PL5127200		51	610	5003.00	1010	516105003001010		1203	Mount Rd		31405						0002		36.88249405	-67.18038156	Υ
16	943	030900148	PL5127200		51	610	5003.00	1010	516105003001010		1207	Mount Rd		31405						0003		36.88848317	-67.18320951	Y
17	987	214554811	PL5127200		51	610	5003.00	2024	516115003002024		101	Court St		31402						0004		36.50212532	-67.24165884	Υ

Digital Address Materials Address Count List - Non-Title 13

- Residential address census block tallies.
 - Housing units and Group Quarters.
- Reference only.
 - Identify inconsistencies between census block counts and your jurisdiction's block counts.
- Comma Delimited Text (.csv) format.
 - MUST import not simply open or "double-click".
- 13 fields: Maximum 140 characters per record.
- First row = Header row.
- "Unable to Geocode" tally for state and county participants.



Digital Address Materials Address Count List Record Layout

	Max Character Length	Field Name	Description
1	2	STATE	Two-digit FIPS State code.
2	3	COUNTY	Three-digit FIPS County code.
3	7	TRACT	The Census Tract Number consist of six digits with a decimal between the fourth and fifth digit corresponding to the basic census tract number and with leading zeroes for tracts that are not four digit and trailing zeroes for census tracts without a suffix.
4	4	BLOCK	Four-digit 2010 Tabulation Census Block Number. Census blocks are numbered uniquely from 0000 to 9999 within census tract, which nest within state and county. The first digit of the census block number identifies the block group.
5	15	GEOID	Concatenation of state, county, tract, and block fields for use in joining the block level data to the 2010 tabulation blocks in the TIGER partnership shapefiles.
6	7	ORIGINAL_COUNT_OF_HUs	Total number of addresses in the entity count list identified as residential housing units by data in the MAF.
7	7	CURRENT_COUNT_OF_HUs	Total number of addresses in the entity count list identified as residential housing units by data in the MAF. This number will be the same as Original Count of Census HUs in product creation. (For use with GUPS.)

➤ Refer to Table 4 located in your Respondent Guide for complete record layout.

Digital Address Materials Address Count List – Microsoft Excel Example

1	Α	В	С	D	Е	F G		Н	H I		K	L	М
						ORIGINAL_COUNT_	CURRENT_COUNT_	LOCAL_COUNT_	DIFFERENCE_IN_	ORIGINAL_COUNT_	CURRENT_COUNT_	LOCAL_COUNT_	DIFFERENCE_IN_
1	STATE	COUNTY	TRACT	BLOCK	GEOID	OF_HUs	OF_HUs	OF_HUs	HUs	OF_GQs	OF_GQs	OF_GQs	GQs
125	51	610	5002.00	2001	516105002002001	3	3	0	3	0	0	0	0
126	51	610	5001.00	2010	516105001002010	6	6	0	6	0	0	0	0
127	51	610	5002.00	4008	516105002004008	3	3	0	3	0	0	0	0
128	51	610	5003.00	2008	516105003002008	3	3	0	3	0	0	0	0
129	51	610	5001.00	1014	516105001001014	3	3	0	3	0	0	0	0
130	51	610	5003.00	1016	516105003001016	7	7	0	7	0	0	0	0
131	51	610	5001.00	1002	516105001001002	3	3	0	3	0	0	0	0
132	51	610	5002.00	1012	516105002001012	3	3	0	3	0	0	0	0
133	51	610	5002.00	3006	516105002003006	3	3	0	3	0	0	0	0
134	51	610	5002.00	2008	516105002002008	5	5	0	5	0	0	0	0
135	51	610	5002.00	1013	516105002001013	3	3	0	3	0	0	0	0
136	51	610	5002.00	4004	516105002004004	3	3	0	3	0	0	0	0
137	51	610	5003.00	2027	516105003002027	3	3	0	3	0	0	0	0
138	51	610	5003.00	1037	516105003001037	2	2	0	2	0	0	0	0
139	51	610	5003.00	1021	516105003001021	2	2	0	2	0	0	0	0
140	51	610	5001.00	2014	516105001002014	3	3	0	3	0	0	0	0
141					Unable to Geocode	33	33	0	33	2	2	0	2
142					TOTAL	1644	1644	0	1644	20	20	0	20

Digital Map Materials TIGER Partnership Shapefiles

- Created from Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System.
- Require use of a Geographic Information Software (GIS).
- County based shapefiles, regardless of entity.
- Do not contain structure points, so not Title 13 material.
 - Generate structure points using Census Bureau's digital address list (Title 13 material); refer to Respondent Guide Chapter 6.
- Retain vintage for use in feedback products.



Digital Map Materials Edits to TIGER Partnership Shapefiles

- Address focused operation, but updates to address list may require updates to digital maps.
- Allow submission of linear feature updates electronically.
 - Importing shapefiles, editing features, and exporting shapefiles.
- Edges shapefile contains all linear features (road, rail, hydro).
 - Used to Add Lines, Delete Lines, or Change Attribution for roads.
- Tabblock2010 shapefile contains tabulation blocks used for 2020 LUCA.
 - Used to geocode addresses.
- More details in Respondent Guide Chapter 5.





Agenda

- Digital Materials Initial Setup Summary
- Digital Product DVD Overview
- Getting Started
 - DVD(s) of digital LUCA materials.
 - Suggested setup of local system.
 - Extracting files.
 - File naming convention and examples.
- Using Your LUCA Digital Materials
 - Opening .csv files in Microsoft Excel
 - Opening .shp files in Esri ArcGIS



Digital Materials Initial Setup Summary

- Ensure *Confidentiality and Security Guidelines* followed and Title 13 security in place prior to installation of DVD material to local drive.
- Review the "readmefirst#" txt file on DVD.
- Review presentation again upon receipt of materials.
- Use presentation in conjunction with Respondent Guide and the 2020 LUCA Quick Start Guide.

Digital Product DVD Overview

- Paper Address List and Paper/PDF (1 DVD).
- Paper Address List and Digital Map (1 DVD).
- Digital Address List and Paper Large Format maps (1 DVD).
- Digital Address List and Paper/PDF (1 DVD).
- Digital Address List and Digital Map (3 DVDs).
- Geographic Updates Partnership Software (GUPS) (3 DVDs).

Getting Started DVD(s) of LUCA Digital Materials

- Digital/Paper-PDF & Paper/Digital-PDF participants.
 - One DVD (contains both Title 13 and non-Title 13 materials).
 - root directory.
 - "maps" folder.
 - "shape" folder.
- Digital/Digital & GUPS participants.
 - Three DVDs.
 - One with Title 13 data in "shape" folder.
 - One with non-Title 13 data in "shape" folder.
 - One with GUPS installation software.



Getting Started

Suggested Setup of Local System

- Read the installation instructions included in your materials.
- Inspect your DVD(s) immediately upon receiving:
 - If DVDs damaged, incomplete, or files corrupted contact Geographic Programs Support Desk at: 1-844-344-0169.
 - If DVDs ok, create folder named "2020LUCA" on your hard drive.
- Copy contents of DVD into your new "2020LUCA" folder.
- Execute the various .exe files (if present).
- Review the other files on DVD for additional instructions.
- Review the 2020 LUCA Respondent Guides for instructions on use.



Getting StartedExtracting 2020LUCA_<EntityID>_DISK1of2.exe

- Navigate to the "2020LUCA" folder you created.
- If present, double click on the file named "2020LUCA_<EntityID>_DISK1of2.exe".
- Command prompt opens, requests password & closes upon completion.

```
N:\RO_GEOGRAPHY\DNRO_Geography\2020LUCA\2020LUCA_PL2646000_DISK1of2.exe

7-Zip SFX 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21

Extracting archive: N:\RO_GEOGRAPHY\DNRO_Geography\2020LUCA\2020LUCA\2020LUCA_PL2646000_DISK1of2.exe

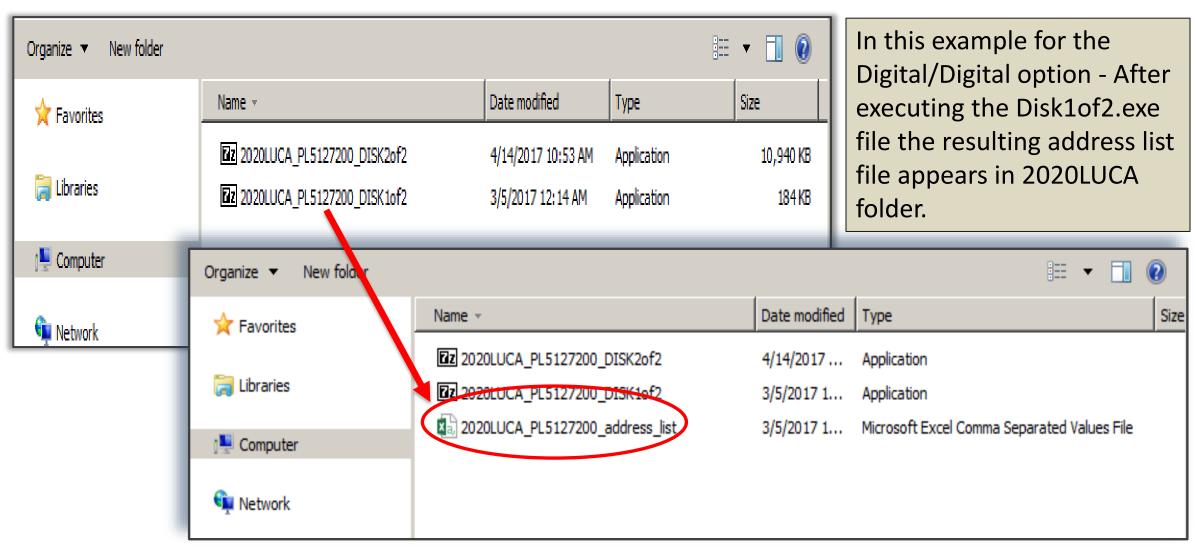
ISK1of2.exe

Path = N:\RO_GEOGRAPHY\DNRO_Geography\2020LUCA\2020LUCA_PL2646000_DISK1of2.exe
Type = 7z

Enter password (will not be echoed):
```



2020LUCA_<EntityID>_DISK1of2.exe - Visual



Getting Started

Extracting Title13_BlockMaps.exe

- Navigate to the "2020LUCA" folder you created.
- If present, double click on the file named "Title13_BlockMaps.exe".
- Command prompt opens, requests password & closes upon completion.

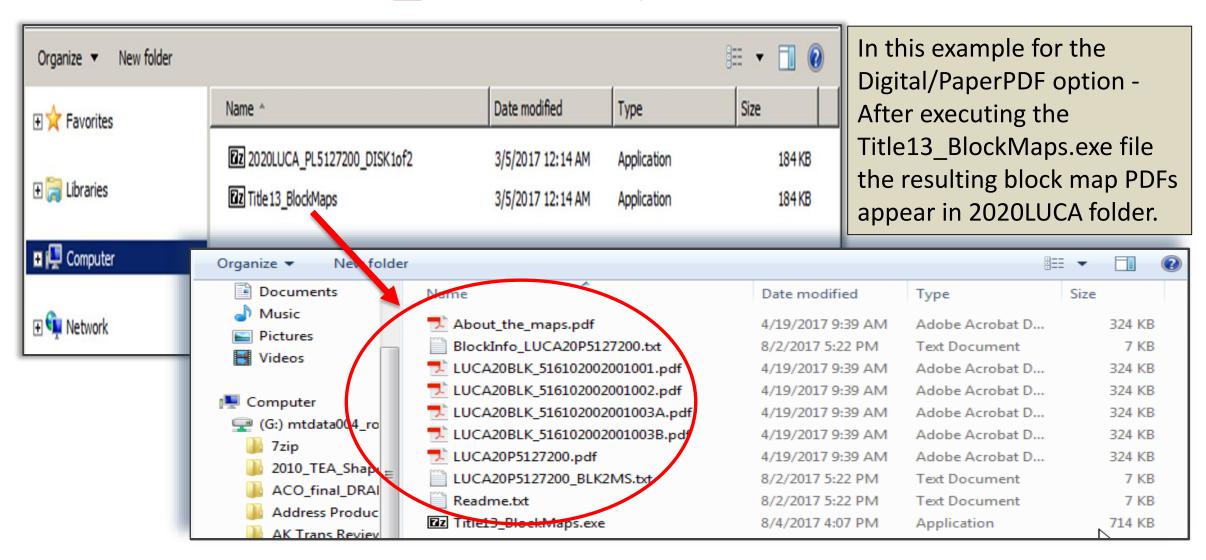
```
7-Zip SFX 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21

Extracting archive: N:\RO_GEOGRAPHY\DNRO_Geography\2020LUCA\2020LUCA\2020LUCA\2020LUCA\2020LUCA\PL2646000_DISK1of2.exe

--
Path = N:\RO_GEOGRAPHY\DNRO_Geography\2020LUCA\2020LUCA\PL2646000_DISK1of2.exe
Type = 7z

Enter password (will not be echoed):
```

Title13_BlockMaps.exe - Visual





File Naming Convention – Digital Materials

- Address List.
 - 2020LUCA_XXyyyyyyyyyyyyaddress_list.csv
 - 2020LUCA_TRxxxxTAyyyy_address_list.csv
- Address Count List.
 - 2020LUCA_XXyyyyyyyyyyy_address_countlist.csv
 - 2020LUCA_TRxxxxTAyyyy_address_countlist.csv
- TIGER Partnership shapefiles.
 - PVS_17_v2_layername>_SSCCC.shp
 - PVS_17_v2_layername>_SS.shp

File Naming Convention – Address List

- 2020LUCA_XXyyyyyyyyyyyaddress_list.csv
 - 2020LUCA_ST01_address_list.csv (State of Alabama).
 - 2020LUCA_CO12001_address_list.csv (Alachua County, FL).
 - 2020LUCA_PL1378800_address_list.csv (Valdosta city, GA).
 - 2020LUCA_TR0016TA1555_address_list.csv (Immokalee Reservation).
 - TR0016 = Seminole Tribe of Florida.
 - TA2980 = Immokalee Reservation.



File Naming Convention – Address Count List

- 2020LUCA_XXyyyyyyyyyy_address_countlist.csv
 - 2020LUCA_ST22_address_countlist.csv (State of Louisiana).
 - 2020LUCA_CO28001_address_countlist.csv (Adams County, MS).
 - 2020LUCA_PL3770540_address_countlist.csv (Wake Forest town, NC).
 - 2020LUCA_TR0035TA0525_address_countlist.csv (Catawba Reservation).
 - TR0035 = Catawba Indian Nation.
 - TA0525 = Catawba Reservation.

File Naming Convention – TIGER Partnership Shapefiles

- PVS_17_v2_<layername>_SSCCC.shp
 - PVS_17_v2_edges_20001.shp (edges for Allen County, KS).
 - PVS_17_v2_tabblock2010_20001.shp (2010 Census tabulation blocks for Allen County, KS).
 - PVS_17_v2_place_20001.shp (place boundaries for Allen County, KS).
 - And numerous others.
- PVS_17_v2_/layername>_SS.shp (for reference and query only).
 - PVS_17_v2_state_20.shp (Kansas state boundary).
 - PVS_17_v2_county_20.shp (county boundaries within Kansas).
 - PVS_17_v2_place_20.shp (place boundaries within Kansas).
 - And numerous others.

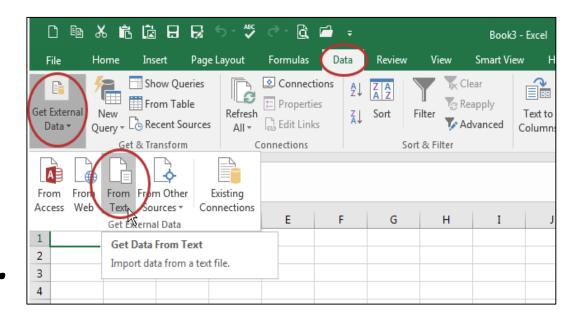


Using Your LUCA Digital Materials

- Opening .csv files in Microsoft Excel.
- Opening .shp files in Esri ArcGIS.

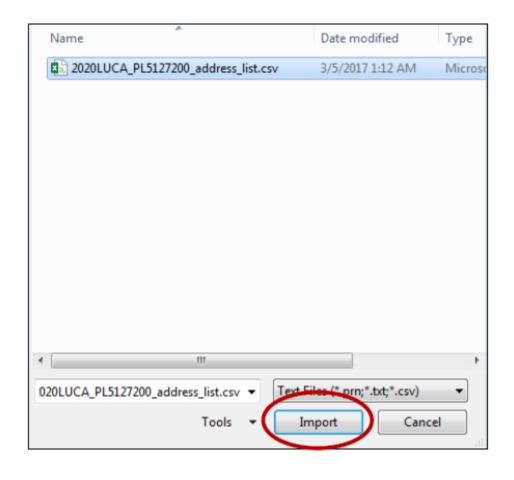
Opening .csv Files in Microsoft Excel: Data – Get External Data – From Text

- Launch Microsoft Excel and open a blank workbook.
- Choose Data Get
 External Data From Text.

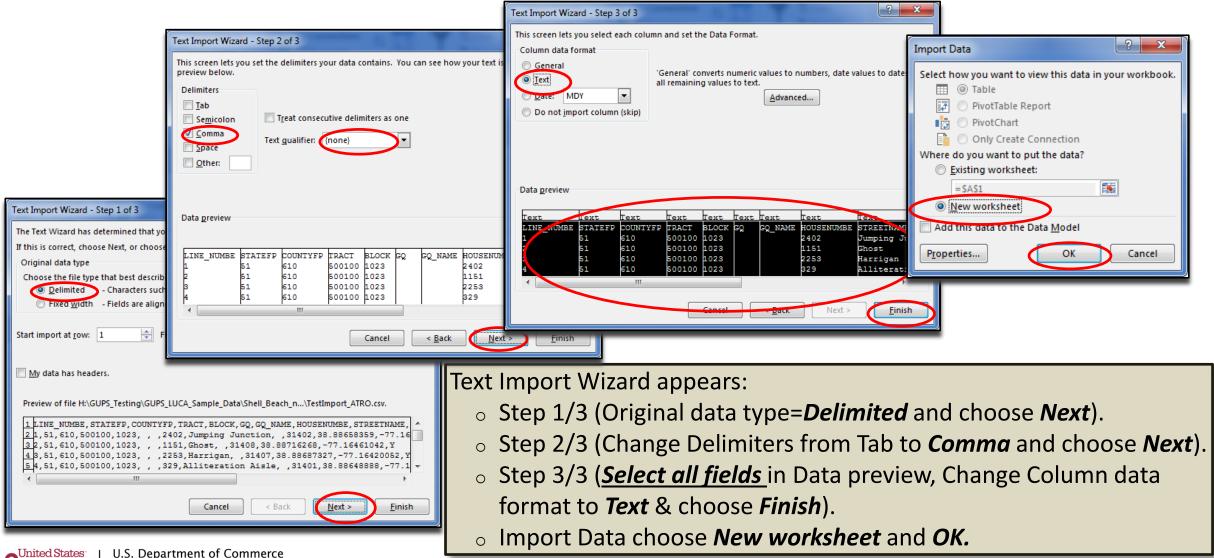


Opening .csv Files in Microsoft Excel: Navigate – Import

 Navigate to the "2020LUCA" folder, choose the .csv and then choose *Import*.

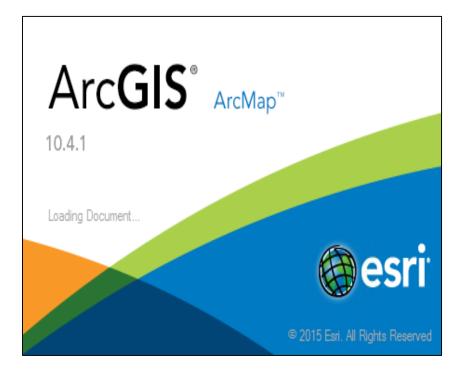


Opening .csv Files in Microsoft Excel: Text Import Wizard



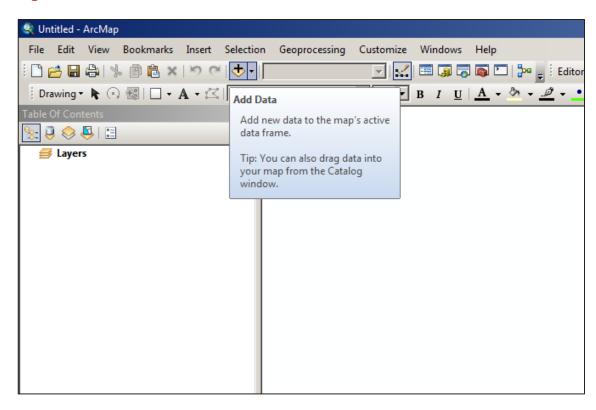
Opening .shp Files In Esri ArcGIS: Launch ArcGIS – ArcMap

- From the Start Menu or a shortcut icon on desktop, launch ArcMap.
- A "Loading Document" window appears.



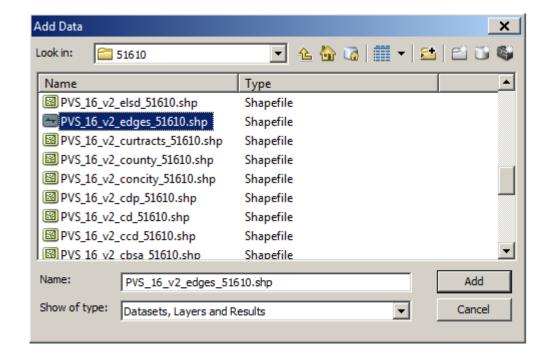
Opening .shp Files In Esri ArcGIS Setting up .mxd

- A blank Map Document (.mxd) will open.
- Click the Add button to add your data to the blank .mxd.



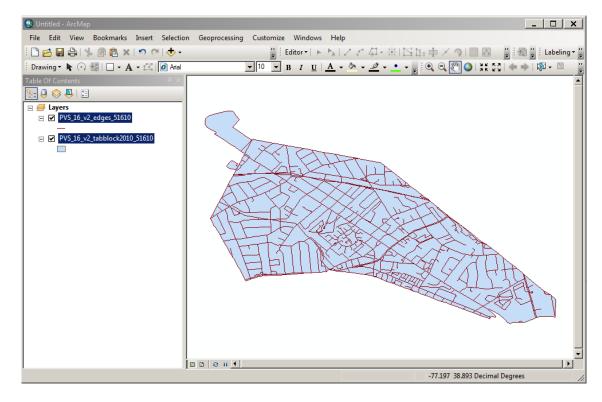
Opening .shp files in Esri ArcGIS Browse and add data

- Browse for your data.
- Select the edges shapefile and the tabblock2010 shapefile and click Add.



Opening .shp files in Esri ArcGIS Add Data resulting visual

 Something similar to this image appears after successfully adding the edges and tabblock2010 shapefiles.





Agenda

Digital Address List and Digital Map Updates

- Digital Address List Action Code Updates
- Address List Add Updates
- Digital Map Updates
- Ungeocoded Addresses
- Non-City Style Addresses

Acceptable Updates and Examples

Address List action codes (ACTION):

- A Add this address.
- C Correct this address.
- D Delete this address.
- J Address is not in this jurisdiction.
- N Address is nonresidential.

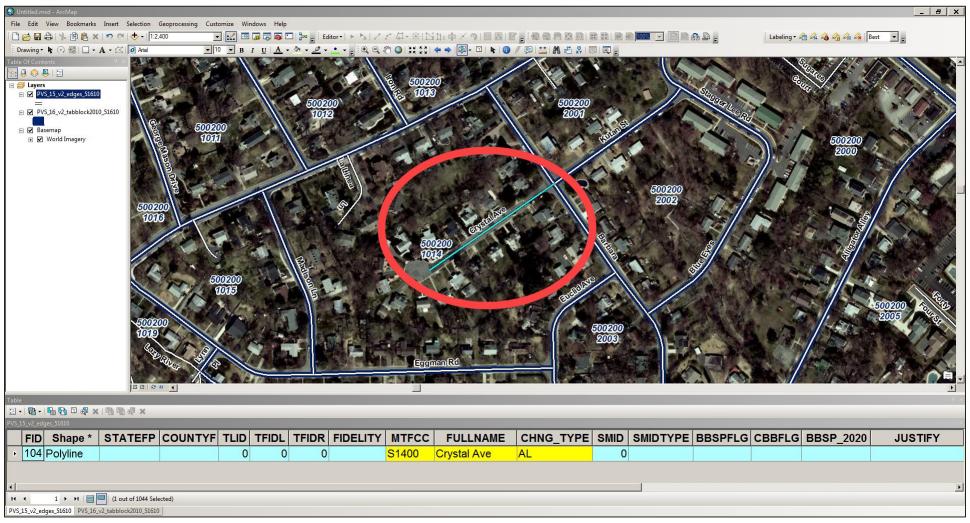
Edges shapefile change type codes (CHNG_TYPE):

- AL Add Line.
- DL Delete Line.
- CA Change Attribute.

"A" Action Code – Address List: City Style Addresses – HUs

\square	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	P	Q	R	S	Т	U	V	W	X
													ΑР				LO							
													AR		NA	CIL	CA	NC	NC					CITY_
1	LINE	MAI	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEC	GQ	HOUSENUMBER	STREETNAME	TM	ZIP	ME	ITY	TIO	ITY	ITY	MA	USE	LAT	LONG	STYLE
2			PL5127200	А	51	610	5002.00	1014			100	Crystal Ave		31402							В	36.22021258	-67.65562012	<u>.</u>
3			PL5127200	А	51	610	5002.00	1014			101	Crystal Ave		31402							В	36.22022164	-67.69854001	
4			PL5127200	А	51	610	5002.00	1014			102	Crystal Ave		31402							В	36.21991998	-67.69953965	<u> </u>
5			PL5127200	А	51	610	5002.00	1014			103	Crystal Ave		31402							В	36.21893997	-67.70441114	,
6			PL5127200	А	51	610	5002.00	1014			104	Crystal Ave		31402							В	36.21882126	-67.70402863	
7			PL5127200	А	51	610	5002.00	1014			105	Crystal Ave		31402							В	36.21879569	-67.70384974	
8			PL5127200	А	51	610	5002.00	1014			106	Crystal Ave		31402							В	36.21877321	-67.70361611	
9			PL5127200	Α	51	610	5002.00	1014			107	Crystal Ave		31402							В	36.21869369	-67.70358951	
10			PL5127200	А	51	610	5002.00	1014			108	Crystal Ave		31402							В	36.21855741	-67.70349999	,
11			PL5127200	Α	51	610	5002.00	1014			109	Crystal Ave		31402							В	36.21851642	-67.70347657	1
12			PL5127200	А	51	610	5002.00	1014			110	Crystal Ave		31402							В	36.21848999	-67.70274334	
13			PL5127200	А	51	610	5002.00	1014			111	Crystal Ave		31402							В	36.21800263	-67.69919058	
14			PL5127200	Α	51	610	5002.00	1014			112	Crystal Ave		31402							В	36.21794225	-67.69914443	
15			PL5127200	А	51	610	5002.00	1014			113	Crystal Ave		31402							В	36.21794088	-67.69898816	

"AL" Change Type – Edges Shapefile: Adding A Street





"A" Action Code – Address List: Non-City Style Addresses – HUs

	1 A	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0		Q	R	S	Т	U	V	W	X
1	LIN	IEMA	IENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEC	GΩ	ноι	STREETNAME	AP AR TM		1	CIL	LOCATION DESCRIPTION	NONCITYSTYLE ADDRESS	NONCITY STYLE ZIP	MAI	USE	LAT		CITY_ STYLE
2			PL5127200			610	5002.00					Aca St		- "			N on Aca St 2 story w/blk door .25 mile from intersection of James St		31402				-67.69891673	
3 4 5			PL5127200 PL5127200 PL5127200	А	51 51	610 610 610	5002.00 5002.00 5002.00	1001 1001				Aca St					Red brick ranch w/carport down long driveway	RR 3 Box 71 RR 3 Box 89	31402 31402 31402		L M	36.18722842	-67.69884699 -67.68851552 -67.68853849	

"A" Action Code – Address List: City Style Addresses – GQs

	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	V	W	X
													AR					NCI	1					CITY_
1	LINE	MA	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEC	GQ_FLAG	HOUSENUMBER	STREETNAME	TM	ZIP	GQ NAME	FACILITY NAME	TIO	TYS	TYS	MAI	USE	LAT	LONG	STYLE
															Pandora Hall	Aristotle								
2			PL5127200	Α	51	610	5001.00	2001		Υ	225	Achilles Dr		31402	Bldg 1	University					В	36.20156156	-67.70114884	<u>, </u>
															Pandora Hall	Aristotle								
3			PL5127200	A	51	610	5001.00	2001		Υ	225	Achilles Dr		31402	Bldg 2	University					В	36.20156201	-67.70115436	į.
															Pandora Hall	Aristotle								
4			PL5127200	А	51	610	5001.00	2001		Υ	225	Achilles Dr		31402	Bldg 3	University					В	36.20157984	-67.70115996	<u>.</u>

"C" - Action Code

Use a "C" action code for the following situations:

- Incorrect state code.
- Incorrect county code.
- Incorrect census tract number.
- Incorrect census block number.
- Incorrect street name (including street directional and street type information).
- Incorrect ZIP code.
- Incorrect latitude and/or longitude values.
- Include tract and block numbers for ungeocoded address records*.

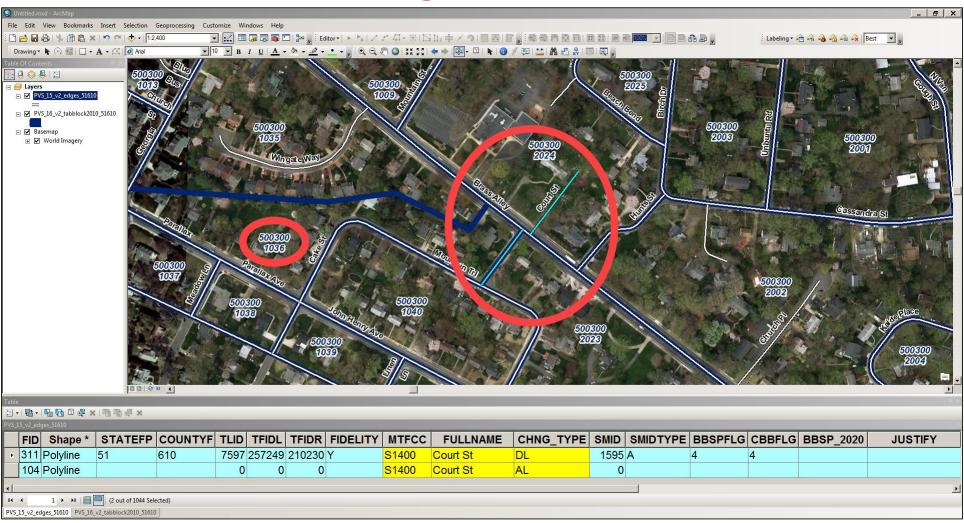
^{*}Ungeocoded address records are missing the tract and block geocode information. These records exist for state and county participants.



"C" Action Code – Address List: City Style Address – Correcting Block Number

4	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	V	W	X
													AP		GQ	FA	LO	NO	NO					
	LINE_												AR		NA	CIL	CA	NC	NC					CITY_
1	NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEOID	GQ	HOUSENUMBER	STREETNAME	TM	ZIP	ME	ITY	TI	ITY	ΙΤΥ	MAPSPOT	USE	LAT	LONG	STYLE
2	987	214554811	PL5127200		51	610	5003.00	2024	516115003002024		101	Court St		31402						0004		36.5023512	-67.24148856	Υ
3																								
4																								
5																								
													AP		GQ	FA	LO	NO	NO					
	LINE_												AR		NA	CIL	CA	NC	NC					CITY_
6	NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEOID	GQ	HOUSENUMBER	STREETNAME	TM	ZIP	ME	ITY	TI	ITY	ITY	MAPSPOT	USE	LAT	LONG	STYLE
7	987	214554811	PL5127200	С	51	610	5003.00	1036	516115003002024		101	Court St		31402						0004		36.50212532	-67.24165884	Υ

"DL" and "AL" Change Type - Edges Shapefile: Correcting Block Number



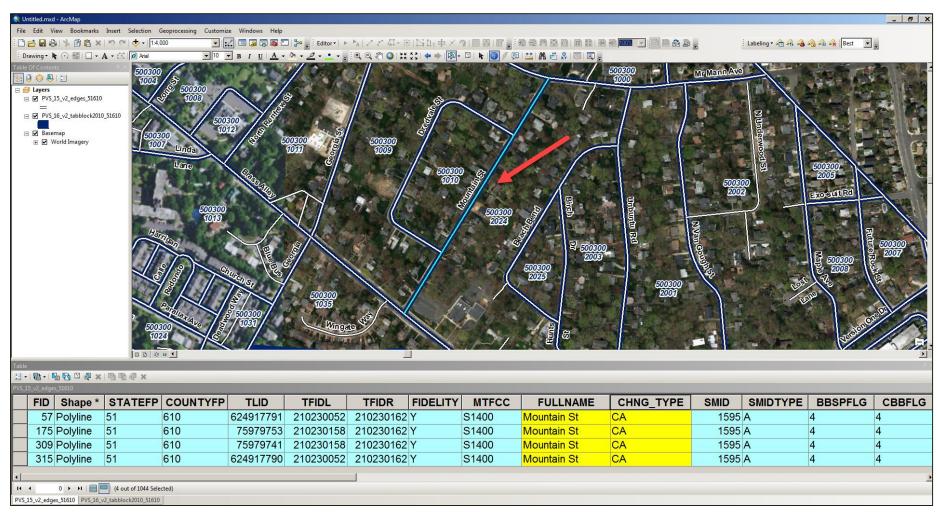


"C" Action Code – Address List: City Style Addresses – Correcting Street Name

- 1	A	В	С	D	E	F	G	Н	Ī	1	K		M	N	0	Р	Q	R S	т	U	V	W	X
-4					_			- ''		ŕ	K	-	AR	_							V		
	LINE NUMBER	MACID	ENTITY	ACTION	CTATEED	COUNTYER	TDACT	BLOCK	CEOID		HOUSENIUMBED	CTDEETNAME	1				- 1	NC NC	MAADCDOT	HEE	LAT		CITY_
1	UNE_NUMBER 941		ENTITY	_		COUNTYFP		BLOCK	_	 	HOUSENUMBER		HVI		_	HY	Ш	IIY IIY	MAPSPOT	USE			STYLE
2		002200146					5003.00		516105003001010 516105003001010			Mount Rd		31405	-			_	0001		36.87726074	-67.16554319 -67.18038156	_
3	942	000040147					5003.00				 	Mount Rd		31405	_				0002				_
4	943	030900148			_		5003.00	_	516105003001010		 	Mount Rd		31405	_				0003			-67.18320951	_
5	944	000045149			_		5003.00		516105003001010		 	Mount Rd		31405	_		\dashv		0004			-67.16884567	_
6	945	100000150					5003.00		516105003001010			Mount Rd		31405	-		\dashv	_	0005			-67.16110508	_
7		360000151					5003.00		516105003001010		 	Mount Rd		31405	-				0006			-67.18160201	_
8	947	360000152			_		5003.00		516105003001010		 	Mount Rd		31405	_		\dashv		0007			-67.18049403	_
9		375441153					5003.00		516105003001010			Mount Rd		31405	_				0008			-67.16937895	_
10	949	215541154			_		5003.00		516105003001010	-	†	Mount Rd		31405	-		_		0009			-67.16444391	_
11	950	241785155	PL5127200		51	610	5003.00	1010	516105003001010		1225	Mount Rd		31405			_		0010		36.88877500	-67.16657160	Υ
12																							
13																							
14																							
													AR		NA	CIL	CA	NC NC					CITY_
15	LINE_NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEOID	GQ	HOUSENUMBER	STREETNAME	TM	ZIP	ME	ITY	TI	ITY ITY	MAPSPOT	USE	LAT	LONG	STYLE
16	941	002200146	PL5127200	С	51	610	5003.00	1010	516105003001010		1201	Mountain St		31405					0001		36.87726074	-67.16554319	Υ
17	942	000040147	PL5127200	С	51	610	5003.00	1010	516105003001010		1203	Mountain St		31405					0002		36.88249405	-67.18038156	Y
18	943	030900148	PL5127200	С	51	610	5003.00	1010	516105003001010		1207	Mountain St		31405					0003		36.88848317	-67.18320951	Υ
19	944	000045149	PL5127200	С	51	610	5003.00	1010	516105003001010		1209	Mountain St		31405					0004		36.88387679	-67.16884567	Υ
20	945	100000150	PL5127200	С	51	610	5003.00	1010	516105003001010		1211	Mountain St		31405					0005		36.87874786	-67.16110508	Υ
21	946	360000151	PL5127200	С	51	610	5003.00	1010	516105003001010		1215	Mountain St		31405					0006		36.88903151	-67.18160201	Υ
22	947	360000152	PL5127200	С	51	610	5003.00	1010	516105003001010)	1217	Mountain St		31405					0007		36.89118869	-67.18049403	Υ
23	948	375441153	PL5127200	С	51	610	5003.00	1010	516105003001010		1219	Mountain St		31405					0008		36.87860859	-67.16937895	Υ
24	949	215541154	PL5127200	С	51	610	5003.00	1010	516105003001010)	1221	Mountain St		31405					0009		36.87580391	-67.16444391	Υ
25	950	241785155	PL5127200	С	51	610	5003.00	1010	516105003001010		1225	Mountain St		31405					0010		36.88877500	-67.16657160	Υ



"CA" Change Type – Edges Shapefile: Correcting Street Name





"C" Action Code – Address List: City Style Addresses – Correcting Ungeocoded Records

1	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X
	LINE_												ΑP		GQ	FA	LO	NO	NO					CITY_
1	NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEC	GQ	HOUSENUMBER	STREETNAME	AR	ZIP	NA	CIL	CA	NC	NC	MAI	USE	LAT	LONG	STYLE
2	2090	100200301	CO51610	С	51	610	5003.00	1000			2501	Oliver Ave		31402								36.54239968	-67.98615562	Υ
3	2091	100200302	CO51610	С	51	610	5003.00	1000			2505	Oliver Ave		31402								36.54235541	-67.98598865	Υ
4	2092	100200303	CO51610	С	51	610	5003.00	1000			2507	Oliver Ave		31402								36.54226674	-67.98589156	Υ
5	2093	100200304	CO51610	С	51	610	5003.00	1000			2509	Oliver Ave		31402								36.54213112	-67.98581426	Υ
6	2094	100200305	CO51610	С	51	610	5003.00	1000			2515	Oliver Ave		31402								36.54200085	-67.98575532	Υ
7	2095	100200306	CO51610	С	51	610	5003.00	1000			2517	Oliver Ave		31402								36.54198882	-67.98568756	Υ
8	2096	100200307	CO51610	С	51	610	5003.00	1000			2523	Oliver Ave		31402								36.54185562	-67.98558104	Υ
9	2097	100200308	CO51610	С	51	610	5003.00	1000			2525	Oliver Ave		31402								36.54149999	-67.98550019	Υ
10	2098	100200309	CO51610	С	51	610	5003.00	1000			2531	Oliver Ave		31402								36.54123364	-67.98547774	Υ
11	2099	100200310	CO51610	С	51	610	5003.00	1000			2537	Oliver Ave		31402								36.54119945	-67.98541971	Υ

"D" - Action Code

Use a "D" action code for the following situations:

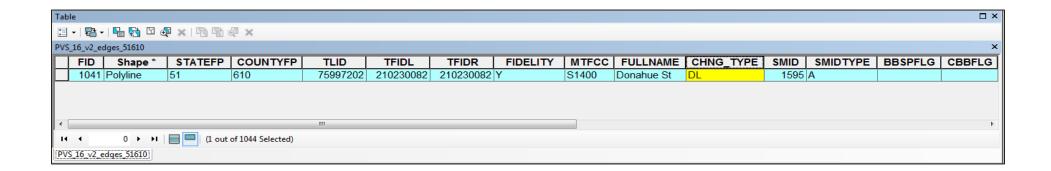
- Residential address no longer exists, is uninhabitable, or is a duplicate.
- Street, or section of street, no longer exists (and addresses along street no longer exist).
- Incorrect house number or incorrect apartment/unit number.
- Housing Unit, Multiunit, or Group Quarters Conversions:
 - Housing unit converted to a multiunit structure or group quarters.
 - Multiunit structure converted to a housing unit or group quarters.
 - Group quarters converted to a housing unit or multiunit structure.

Do not modify any other columns.

"D" Action Code – Address List: City Style Addresses – Delete Addresses

4	Ι Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	w	Х
													ΑP		GQ	FA	LO	NO	NO					CITY_
1	LINE_NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEOID	GQ	HOUSENUMBER	STREETNAME	AR	ZIP	NA	CIL	CA	NC	NC	MAI	USE	LAT	LON	STYLE
2	844	024510332	PL5127200	D	51	610	5002.00	3012	516105002003012		500	Donahue St		31408										Y
3	845	025468521	PL5127200	D	51	610	5002.00	3012	516105002003012		502	Donahue St		31408										Y
4	846	026347810	PL5127200	D	51	610	5002.00	3012	516105002003012		504	Donahue St		31408										Υ
5	847	024598100	PL5127200	D	51	610	5002.00	3012	516105002003012		506	Donahue St		31408										Y
6	848	025531499	PL5127200	D	51	610	5002.00	3012	516105002003012		508	Donahue St		31408										Y

"DL" Change Type – Edges Shapefile: Delete A Street



"D" and "A" Action Codes – Address List: City Style Addresses – Incorrect Apartment Unit

	Α	В	C	D	E	F	G	Н	I	J	K	L	M	N		Р				T	U	V	W	X
1	LINE_ NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEOID	GQ	HOUSENUMBER	STREETNAME	APARTMENT UNIT		NA	CIL	CA	NC ITY	NC	MAPSPOT	USE	LAT	LONG	CITY_ STYLE
2	124	000000505	PL5127200	D	51	610	5001.00	1030	516105001001030		1935	Eggman Rd	A	31407				П		0001		36.88574596	-67.17556610	Υ
3	125	000000506	PL5127200	D	51	610	5001.00	1030	516105001001030		1935	Eggman Rd	В	31407						0001		36.88574596	-67.17556610	Υ
4	126	000000507	PL5127200	D	51	610	5001.00	1030	516105001001030		1935	Eggman Rd	С	31407						0001		36.88574596	-67.17556610	Y
5	127	000000508	PL5127200	D	51	610	5001.00	1030	516105001001030		1935	Eggman Rd	D	31407						0001		36.88574596	-67.17556610	Y
6			PL5127200	А	51	610	5001.00	1030			1935	Eggman Rd	101	31407						0001	М	36.88574596	-67.17556610	
7			PL5127200	А	51	610	5001.00	1030			1935	Eggman Rd	102	31407						0001	М	36.88574596	-67.17556610	
8			PL5127200	A	51	610	5001.00	1030			1935	Eggman Rd	103	31407						0001	М	36.88574596	-67.17556610	
9			PL5127200	А	51	610	5001.00	1030			1935	Eggman Rd	104	31407						0001	М	36.88574596	-67.17556610	

"D" and "A" Action Codes — Address List: City Style Addresses — HU Converted to Multiunit

4	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N				R !		U	V	W	X
	LINE_												APARTMENT		1			NC N					CITY_
1	NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEOID	GQ	HOUSENUMBER	STREETNAME	UNIT	ZIP	ME	ITY	TI I	TY II	Y MAPSPOT	USE	LAT	LONG	STYLE
2	224	000000599	PL5127200	D	51	610	5001.00	1034	516105001001034		3501	Leon Rd		31407					0010		36.43412557	-67.75415682	Υ
3			PL5127200	Α	51	610	5001.00	1034			3501	Leon Rd	Apt 101	31407						М	36.43412557	-67.75415682	<u> </u>
4			PL5127200	Α	51	610	5001.00	1034			3501	Leon Rd	Apt 102	31407						М	36.43412557	-67.75415682	,
5			PL5127200	Α	51	610	5001.00	1034			3501	Leon Rd	Apt 103	31407						М	36.43412557	-67.75415682	<u> </u>
6			PL5127200	А	51	610	5001.00	1034			3501	Leon Rd	Apt 104	31407						М	36.43412557	-67.75415682	<u> </u>

"J" - Action Code

- Use a "J" action code to flag residential addresses that are not in your jurisdiction.
- Use for city style, non-city style, and ungeocoded address records.
- Do not make modifications to any other columns.

1	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	P	Q	R	S	T	U	٧	W	X
	LINE_									GQ	HOUSE		APA		GQ	FAC	LOC	NO	NO	MA			LO	CITY-
1	NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEO ID	_FL	NUMBER	STREETNAME	RT	ZIP	NA	ILIT	ATI	NCI	NCI	PSP	USE	LAT	NG	STYLE
2	454	99995555	PL5127200	J	51	610	5001.00	2001	516105001002001		3526	Pueblo Trl		31402										Υ
3	455	99995556	PL5127200	J	51	610	5001.00	2001	516105001002001		3528	Pueblo Trl		31402										Υ



"N" - Action Code

- Use an "N" action code to flag addresses used for purposes other than residential such as:
 - Businesses.
 - Schools.
 - Churches.
 - Government offices.
- Use for city style, non-city style, and ungeocoded address records.
- Do not make modifications to any other columns.

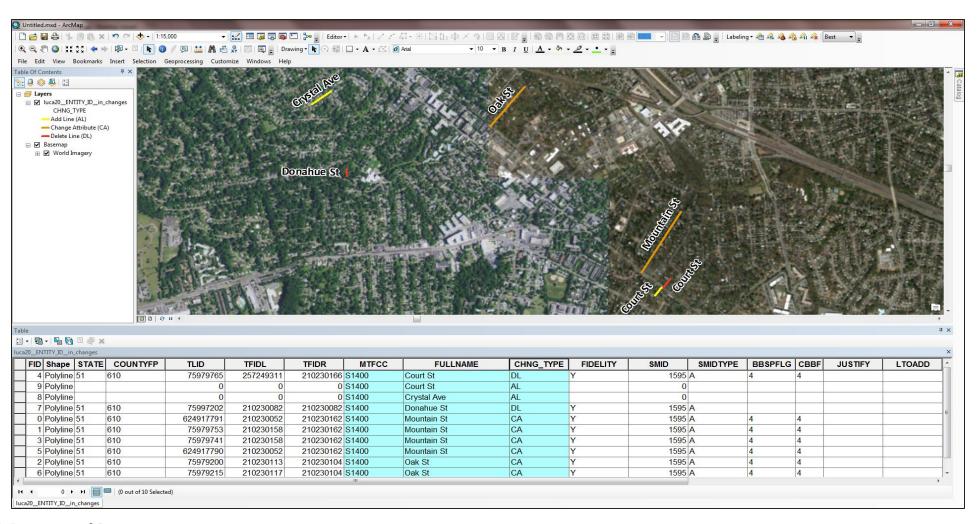
4	A	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X
										GQ			RT		GQ	ILIT	ATI	NCI	NCI	MA				
	LINE_									_FL	HOUSE		ME		NA	Υ	ON	TYS	TYS	PSP			LO	CITY-
1	NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEO ID	AG	NUMBER	STREETNAME	NT	ZIP	ME	NA	DES	TYL	TYL	OT	USE	LAT	NG	STYLE
2	688	989866571	PL5127200	N	51	610	5002.00	2000	516105002002000		202	Cassiopeia Dr		31402										Υ



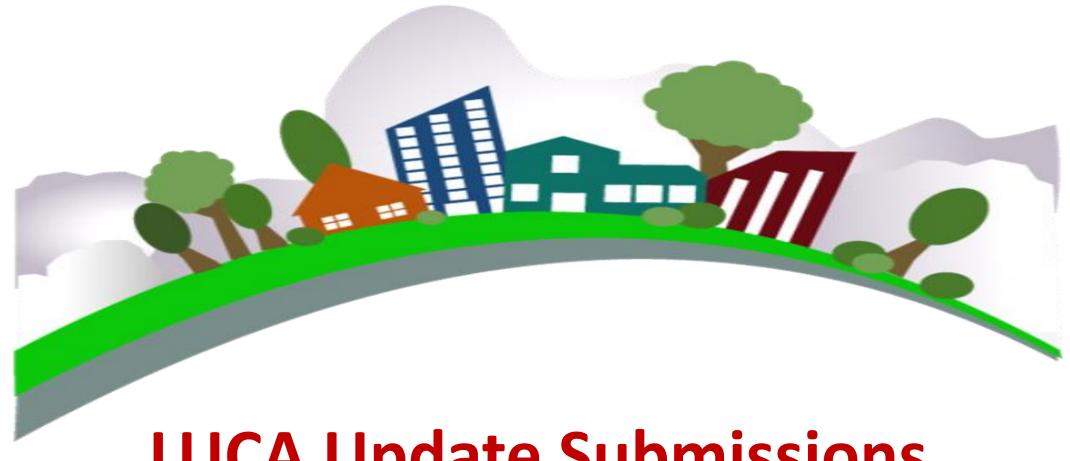
Summary of Address List Updates

LINE NUMBER	MAFID	ENTITY	ACTION	STATEFP	COUNTYFP	TRACT	BLOCK	GEOID	GQ FLAG	HOUSENUMBER	STREETNAME	APARTMENT UNIT	ZIP	GQ NAME	FACILITY NAME	LOCATION DESCRIPTION	NCITYSTYLE ADDR	NONCITYSTYLE ZIP	MAPSPOT	USE	LAT	LONG	CITY STYLE
ENVE_IVOIMBER	WALID	PL5127200		51	610	5002.00		GEOID	dalina	100	Crystal Ave	Oitii	31402	GQIVAINE	IVAIVIL	DESCRIPTION	NCITISTILE ADDI	NONCHISTIELZII	IIIAI SI OI	B	36.22021258	-67.65562012	CITI_STILE
		PL5127200		_	610					101	Crystal Ave		31402							В	36.22022164	-67.69854001	
		PL5127200			610					112	Crystal Ave		31402							В	36.21794225	-67.69914443	
		PL5127200		51	610	5002.00				113	Crystal Ave		31402							В	36.21794088	-67.69898816	
														Pandora Hal	Aristotle								
		PL5127200	Α	51	610	5001.00	2001		Υ	225	Achilles Dr		31402	Bldg 1	University					В	36.20156156	-67.70114884	
														Pandora Hal	l Aristotle								
		PL5127200	Α	51	610	5001.00	2001		Υ	225	Achilles Dr		31402	Bldg 2	University					В	36.20156201	-67.70115436	
														Pandora Hal									
		DI 5127200		E-1	610	5001.00	2001		V	225	Achilles Dr		31402	Bldg 3						В	36.20157984	-67.70115996	
		PL5127200 PL5127200		_	610	5001.00			Y	3501	Leon Rd	Apt 103	31402	Blug 3	University					M	36.43412557	-67.75415682	
		PL5127200 PL5127200		_	610	5001.00				3501		Apt 103	31407							M	36.43412557	-67.75415682	
		PL3127200	А	51	610	3001.00	1034			3301	Leon Ku	Apt 104	31407			N on Aca St 2 story				IVI	50.43412557	-07.73413082	
																w/blk door .25 mile							
																from intersection o							
		PL5127200	Α	51	610	5002.00	1001				Aca St					James St		31402			36.19988566	-67.69891673	
		PL3127200	А	31	010	3002.00	1001				ACa St					Red brick ranch		51402			30.15500300	-07.03631073	
																w/carport down							
		PL5127200	Α	51	610	5002.00	1001				Aca St					long driveway		31402			36.19996002	-67.69884699	
		PL5127200			610						Acast					long unveway	RR 3 Box 71	31402		M	36.18722842	-67.68851552	
		PL5127200		_	610	5002.00	_										RR 3 Box 89	31402		M	36.18723969	-67.68853849	
941				51	610		_	516105003001010		1201	Mountain St		31405				MK 5 BOX 65	51402	0001	141	36.87726074	-67.16554319	v
942	000040147	-			610	5003.00		516105003001010		1203	Mountain St		31405						0002		36.88249405	-67.18038156	v
943		PL5127200		_	610	_	_	516105003001010		1207	Mountain St		31405						0003		36.88848317	-67.18320951	Y
2096	100200307				610	5003.00	_	51010500501010		2523	Oliver Ave		31402						0000		36.54185562	-67.98558104	Y
2097				51	610	5003.00				2525	Oliver Ave		31402								36.54149999	-67.98550019	Y
2098	100200309				610	5003.00	_			2531	Oliver Ave		31402								36.54123364	-67.98547774	Y
2099				_	610	5003.00	_			2537	Oliver Ave		31402								36.54119945	-67.98541971	Y
124	000000505	-				5001.00		516105001001030		1935	Eggman Rd	А	31407						0001		36.88574596	-67.17556610	Υ
125		PL5127200		51	610		_	516105001001030		1935	Eggman Rd	В	31407						0001		36.88574596	-67.17556610	Y
126	000000507	-		_	610	5001.00	1030	516105001001030		1935	Eggman Rd	С	31407						0001		36.88574596	-67.17556610	Y
127				_	610	5001.00	1030	516105001001030		1935	Eggman Rd	D	31407						0001		36.88574596	-67.17556610	Υ
224		PL5127200	D			5001.00	1034	516105001001034		3501	Leon Rd		31407						0010		36.43412557	-67.75415682	Υ
844	024510332	PL5127200	D	51	610	5002.00	3012	516105002003012		500	Donahue St		31408										Υ
845		PL5127200	D	51	610	5002.00	3012	516105002003012		502	Donahue St		31408										Υ
846	026347810	PL5127200	D	51	610	5002.00	3012	516105002003012		504	Donahue St		31408										Y
847	024598100	PL5127200	D	51	610	5002.00	3012	516105002003012		506	Donahue St		31408										Υ
848	025531499	PL5127200	D	51	610	5002.00	3012	516105002003012		508	Donahue St		31408										Υ
454	99995555	PL5127200	J	51	610	5001.00	2001	516105001002001		3526	Pueblo Trl		31402										Υ
455	99995556	PL5127200	J	51	610	5001.00	2001	516105001002001		3528	Pueblo Trl		31402										Υ
688	989866571	PL5127200	N	51	610	5002.00	2000	516105002002000		202	Cassiopeia Dr		31402										Υ

Summary of Edges Shapefile Updates







LUCA Update Submissions Digital Materials



Agenda

Preparing Updated Materials for Submission.

- Address Materials
- Map Materials
- Accompanying paperwork.

Submitting updated materials.

- Shipping Instructions
- Secure Web Incoming Module (SWIM).

Address Materials

- Digital
 - Keeping secure.
 - Assembling and organizing.

Digital Address Materials – Sorting and Saving

- Ensure complete with all updates.
- Re-sort address list by ACTION field.
- Save only records with entry in ACTION field to new file.
- Name the new file "luca20_<EntityID>_changes_addresses.xxx" (where EntityID is entity identification code from LUCA materials and xxx is the file extension .csv, .txt, .xls, or .xlsx).
- Save to location for easy retrieval for submission and next steps.

Digital Address List – Keeping Secure

- Make copy of new file for use during the feedback phase.
- All address list materials (original and copy) are Title 13.
- Keep secure according to Confidentiality and Security Guidelines (D-2004), Appendix A in LUCA Respondent Guide.

Digital Address List-Assembling and Organizing

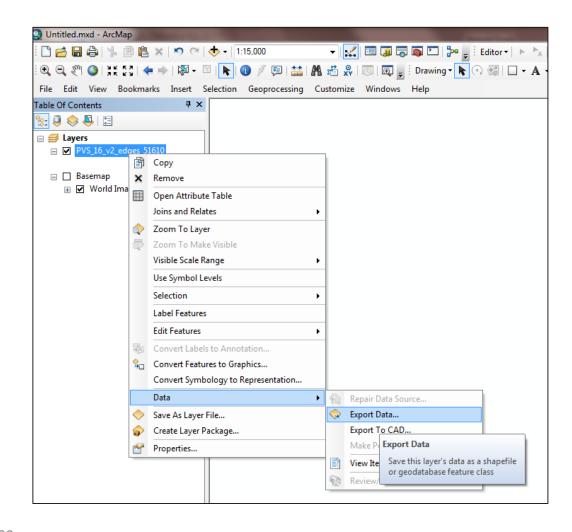
- Navigate to directory where "luca20_<EntityID>_changes_addresses.xxx" resides (where EntityID is entity identification code from LUCA materials and xxx is the file extension .csv, .txt, or .xls).
- Zip the changes address file, name the zip file "luca20_<EntityID>_changes_addresses_return.zip".
 - Password protection required because Title 13 material.
 - Use case sensitive password provided with original materials.
- Copy the zip file to CD/DVD if shipping submission with paper map materials, or stage the zip file for submission via Census Bureau's secure online web application.

Map Materials

- Digital
 - Exporting updates.
 - Saving updates.
 - Example
 - Assembling and organizing.

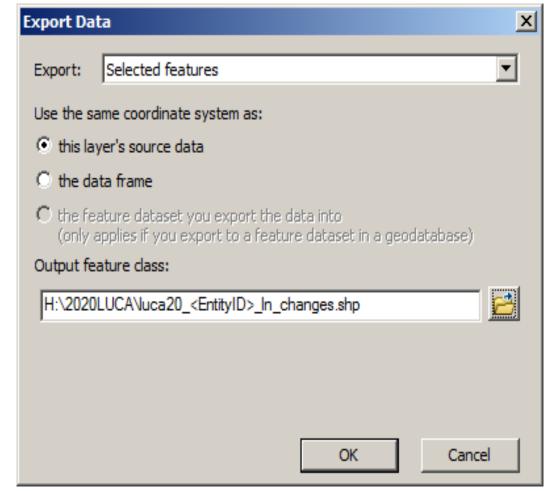
Map Materials – Digital: Exporting Updates

- Ensure complete with all updates.
- Select edges with value in CHNG_TYPE field.
- Export selected edges into new shapefile.

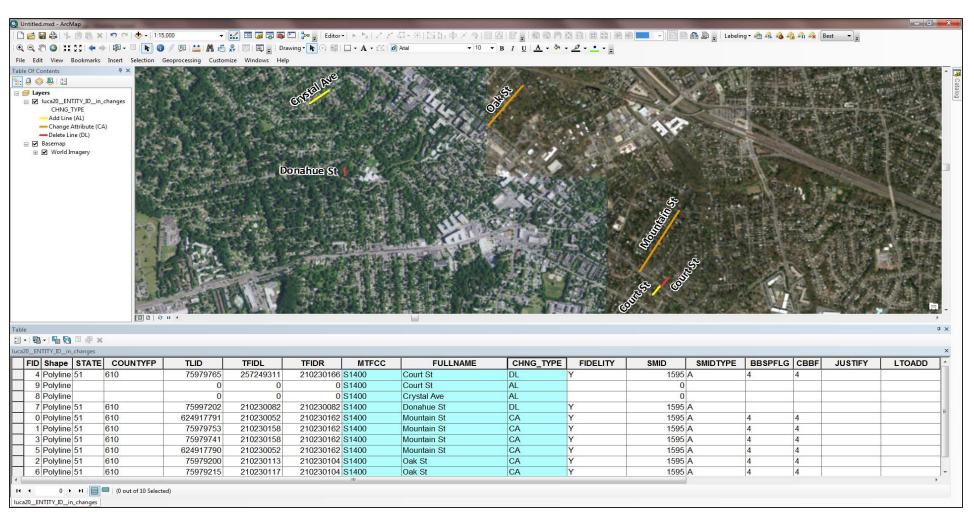


Map Materials – Digital: Saving Updates

- Ensure "Selected features" in "Export Data" window.
- Name new shapefile
 "luca20_<EntityID>_ln_changes.shp",
 where EntityID matches entity
 identification code in LUCA
 materials.
- Save to location for easy retrieval for submission and next steps.



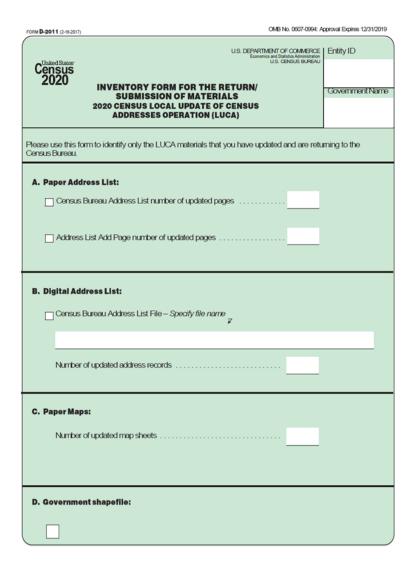
Map Materials — Digital: Example — Updated Edges Shapefile





Accompanying Paperwork

- D-2011 Inventory Form, paper or digital.
- Provide with submission either as hardcopy or zipped on CD/DVD or with SWIM.
- Keep copies for your records.



Submitting Updated Materials

- Shipping instructions.
 - o Title 13 details.
- Secure Web Incoming Module (SWIM).
 - SWIM Introduction.
 - Numerous SWIM procedural screens.

Shipping Instructions: Submissions With Updated Paper Map Materials

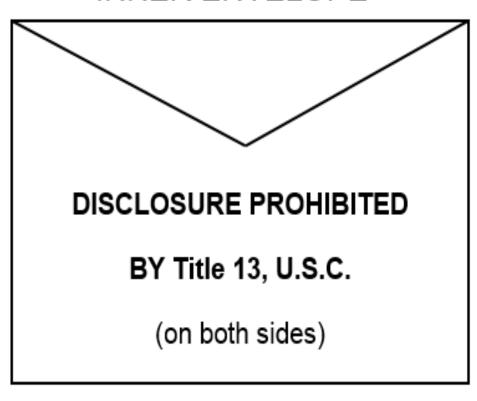
- Follow procedures for shipping Title 13 materials.
- Double wrap Title 13 printed materials (paper maps) using inner/outer envelope (or box/container). Label both sides of inner envelope with "DISCLOSURE PROHIBITED BY Title 13, U.S.C.".
- Place inner envelope into the outer envelope (or box/container).
- Include CD/DVD of zipped address list and completed D-2011, either hardcopy or as its own zipped file on same CD/DVD.
- Use mailing label included with original materials to ship to National Processing Center in Jeffersonville, IN.
- For any shipping uncertainty, consult Respondent Guide or contact Census Bureau.

Shipping Instructions: Submissions With Updated Digital Map Materials

- Include CD/DVD of zipped updated address list and zipped updated edges shapefile.
- Include completed D-2011, either hardcopy or as its own zipped file on same CD/DVD.
- Use mailing label included with original materials to ship to National Processing Center in Jeffersonville, IN.
- For any shipping uncertainty, consult Respondent Guide or contact Census Bureau.

Shipping Instructions:Title 13 Details – Double Wrap Visual

INNER ENVELOPE





OUTER ENVELOPE

ATTN: Geography LUCA BLDG 63E

National Processing Center

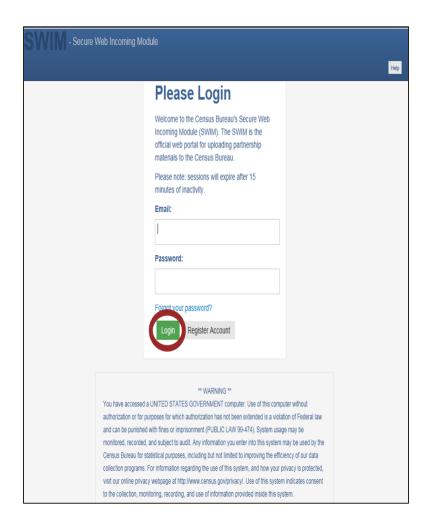
1201 East 10th Street

Jeffersonville, IN 47132

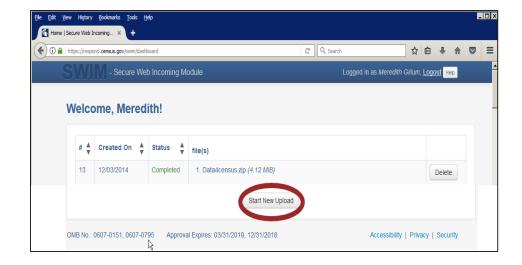
SWIM Introduction

- Official web portal for uploading materials to Census Bureau.
- Used for other programs besides LUCA.
- Accounts are people based, not entity based.
- 12 digit registration token to establish account provided by Census Bureau.
- Only accepts .ZIP files.
- Size limitation of 250 megabytes.

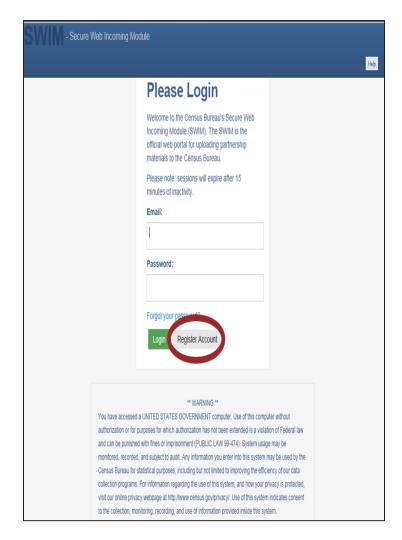
SWIM Account Login and Welcome Screens

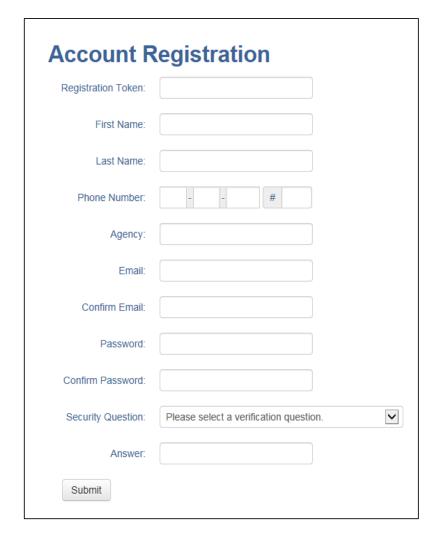


https://respond.census.gov/swim/>



SWIM Account Registration Screens





SWIM Start New Upload Screen

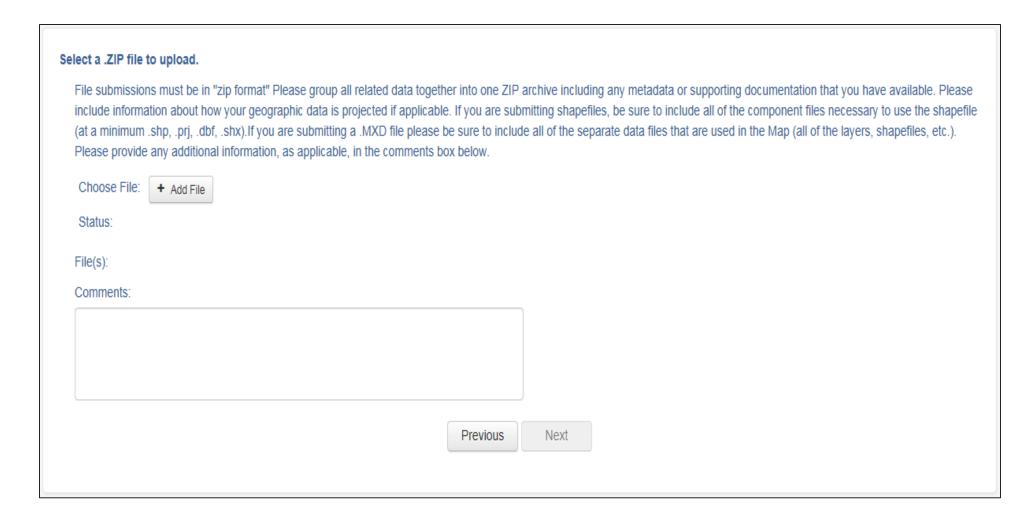
What Census program are you reporting data for?
Select the geographic program that you currently wish to submit data for the Census Bureau to review. This selection affects only your current upload. You may select a different option for future uploads. If you are unsure what program to select send an email to geo.swim@census.gov for more guidance.
○ Geographic Support System Initiative (GSS-I)
O Boundary Annexation Survey (BAS)
○ School District Review Program (SDRP)
O Boundary Quality Assessment and Reconciliation Project (BQARP)
○ Federal Agency Updates (FDU)
O Redistricting Data Program - BBSP-VTD (RDP)
O Redistricting Data Program - CD-SLD (RDP)
Local Update of Census Addresses (LUCA)
O Participant Statistical Areas Program (PSAP)
Next



SWIM Type of LUCA Entity Screen

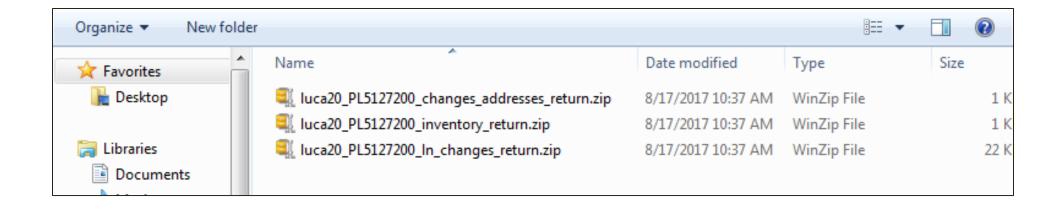


SWIM Select a .ZIP to Upload Screen

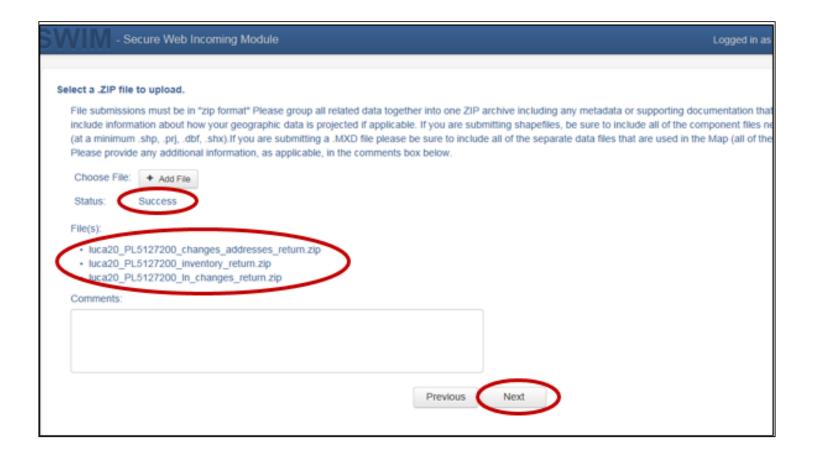




SWIM Choose .ZIP to Upload Screen



SWIM .ZIP File Upload Status Screen



SWIM Thank You Confirmation Screen

Thank You

Your files have uploaded successfully.

File(s):

- 1. luca20_PL5127200_changes_addresses_return.zip
- 2. luca20_PL5127200_inventory_return.zip
- 3. luca20_PL5127200_ln_changes_return.zip

You may Log Out or return to the upload form, to submit more files.



Next Steps

Next Steps – Census Bureau

- Census Bureau processes submission for validation.
- Census Bureau ships feedback materials in Summer 2019.
- Census Bureau begins outreach to close out LUCA operation.
 - Must confirm destruction or return of all Title 13 materials, including originals and copies.
 - Must receive signed Destruction or Return of Title 13 Materials Form (D-2012) that includes signatures from liaison and all reviewers.
 - Appendix H of 2020 LUCA Respondent Guide.
 - Confidentiality and Security Guidelines (D-2004), Appendix A of 2020 LUCA Respondent Guide, outlines approved destruction methods and process for return of materials.

Next Steps – Participant

- Agree with feedback materials, then participation ends.
 - Send D-2012 to confirm destruction, or if choose to return materials, do so quickly.
- Notify OMB LUCA Appeals office of disagreement with feedback materials.
 - Appeals Office works with participant and Census Bureau to resolve disagreement.
 - Once appeals process concludes, participants must destroy or return materials and submit signed *Destruction or Return of Title 13 Materials* Form (D-2012) that includes signatures from liaison and all reviewers.
- Filing an appeal is optional.

Next steps – Destruction or Return of Title 13 Materials Form (D-2012)

FORM D-2012 (3-8-2017)		0607-099		wal Expir	res 12/3	1/2019
	U.S. DEPARTMENT OF CI Economics and Statistics U.S. C.P.J.			ity ID		
Census	Onited States					
2020			Government Name			
	ADDRESSES OPERATION (LUCA)					
Please complete this fo envelope.	rm and return it via email to GEO.2020.LUCA@census.gov or in the enclo	sed post	age pai	d, pread	ldresse	d
date this form at the access to Title 13, U	liaisons, reviewers, and anyone with access to Tille 13, United States Co- conclusion of your government's participation in LUCA. Should any liaison S.S.C. LUCA materials leave before the completion of LUCA, they must signify the costs to Title 13 LUCA materials are unable to sign and date this forhalf.	n, reviewe In and da	er, or an	nyone wi form. If a	ith any liais	son,
	A. LUCA Liaison Destruction or Return of Title 13	Materia	Is			
I certify by my signatur and any copies using	re that I have properly destroyed or returned to the U.S. Census Bureau, the security requirements provided to my government by the Census Bure	the origin au.	al LUC/	A Title 1	3 mate	rials
Mark (X) one.	Destroyed Title 13, LUCA materials (Preferred method)					
	☐ Returned Title 13, LUCA materials					
Printed Name of the	ne LUCA Liaison					
Signature of the L	UCA Liaison		Date			
		N	Month [Day \	Year	
В	. LUCA Reviewers and Anyone With Access to Title 13	Materi	als			
	<u> </u>					
Printed Name						
Signature		Dat	te			
		Mor	nth Day	y Yea	ar	
			ш	ш	ш	
Printed Name						
Signature		Dat	te			
9		Mor	nth Day	y Yea	ar	
			Ш		Ш	
Printed Name						
Signature		Dat	te			
9		Mor	nth Day	y Yea	ar	
					Ш	
Printed Name						
Signature		Dat	to			
Signature			nth Day	y Yea	ar	
_	Section	on B co	ntinu	ed on	the r	everse

B. LUCA Reviewers and Anyo	ne With Access to Title 13 Materials – Continued
Printed Name	
Signature	Date
	Month Day Year
Printed Name	
Signature	 Date Month Day Year
District Manage	The state of the s
Printed Name	
Signature	Date Month Day Year
Printed Name	
Signature	Date Month Day Year
Printed Name	
Signature	Date Month Day Year
Printed Name	
Signature	Date
	Month Day Year
Printed Name	
Signature	Date Month Day Year
Printed Name	
Signature	Date Month Day Year
ORM D-2012 (3-8-2017)	If you require more signatures, you may duplicate this form.



Planned New Construction Program for 2020

- Non-Title 13.
- Decennial program designed to capture new addresses for housing units that will be habitable on Census Day (April 1, 2020).
- Address submissions will require either:
 - State/County/Tract/Block Geocodes or
 - Latitude/Longitude Coordinates
- Available in Self-Response Type of Enumeration areas.
 - New addresses in non-Self-Response areas will be captured during field operations.
- Tentatively scheduled: Summer 2019.





Agenda

- Intended audience.
- Introduction to GUPS and Title 13 U.S.C. refresher.
- GUPS setup and materials introduction.
- GUPS acceptable updates and examples.
- GUPS submission.

What is GUPS

- Customized geographic information system (GIS) provided by U.S. Census Bureau.
- Based on open-source platform known as QGIS.
- Replaces previous software known as MTPS (MAF/TIGER Partnership Software).
- Used for other geography programs (i.e., Boundary and Annexation Survey-BAS).

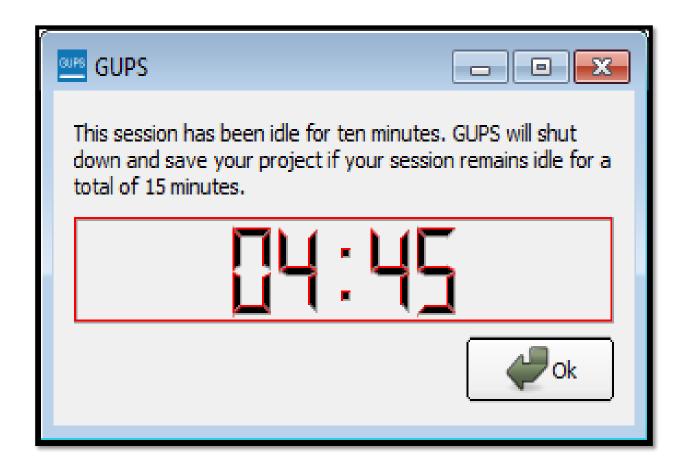
Why Use GUPS for 2020 LUCA

- Tailored to meet needs of those without extensive GIS experience.
- Specifically designed and developed by the Census Bureau for 2020 LUCA use.
- Reduces the complexity of LUCA with specific tools, including review and validation tools.
- Built-in security considerations.
- Standardizes submission process.
- However, NOT recommended for entities with more than 300,000 residential addresses.

Security Considerations

- Title 13 data is automatically encrypted within GUPS.
 - Need the password sent separately by the Census Bureau to the LUCA liaison to access the Title 13 data.
- Updated Census Address List files are automatically encrypted by GUPS when exporting for submission.

Security Considerations (cont'd): Automatic time-out



GUPS Demonstration Video

 https://census.webex.com/census/lsr.php?RCID=805ef5d40bb 6617ce189d6d10a18ab25

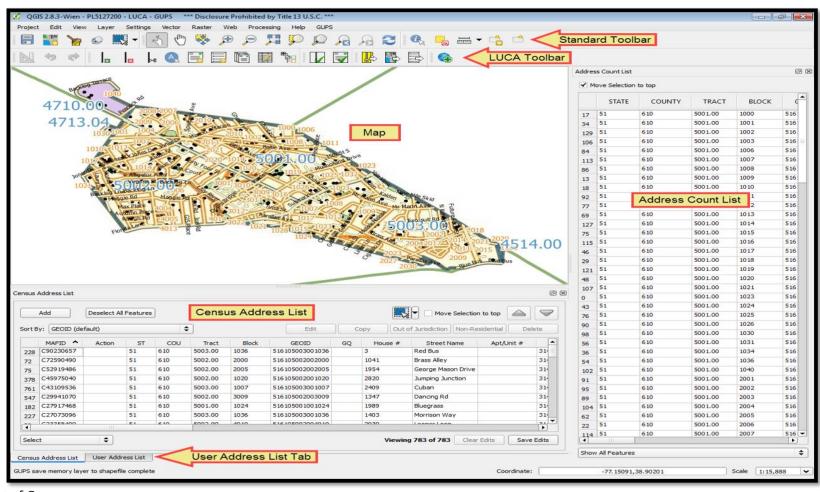
Delivery of Materials

Three DVDs:

- GUPS installation software.
- o Title 13 data.
- Non-Title 13 data.
 - Root directory.
 - Respondent Guide(s) digital and GUPS.
 - Header text file.
 - Inventory form.
 - Readmefirst6.txt file.

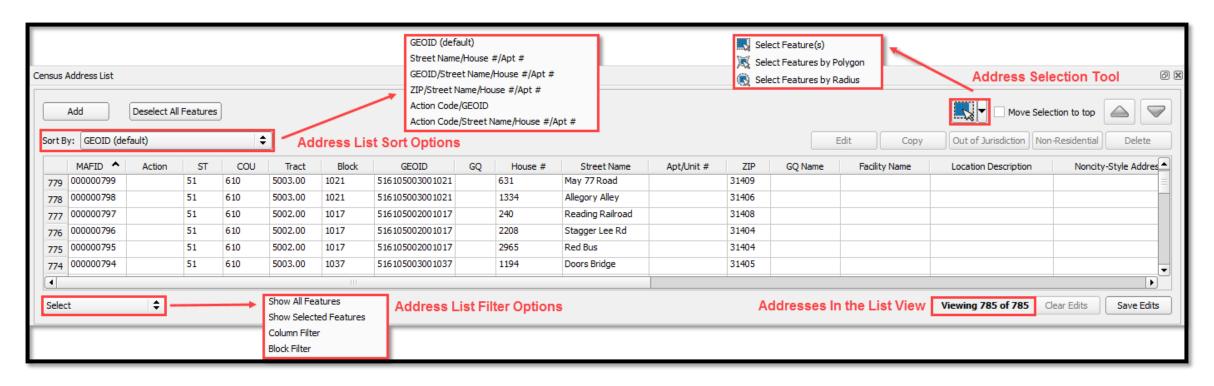
GUPS Installation: Example (Initial Screen With Data)

No Title 13 Data Displayed



Reviewing Records In GUPS: Sort By – Filter By – Selection Tool

No Title 13 Data Displayed



Validating Records in GUPS

- Includes built-in validation tools when editing/adding records.
- Recommend executing throughout review and update.
- Address Review Tool checks records for valid content and ensures no duplicates.
 - If invalid data or duplicates discovered, listed in the Census Address Error List window.



Question 1

 The Census Bureau does not require individual unit identifiers for multi-unit structures.

False – Multi-unit structures such as apartments, mobile homes, condominiums, etc., DO require individual unit identifiers.

Note: Unit identifiers are not required for individual units within a *group quarters*, such as individual dorm rooms in a college dorm or room numbers in a nursing home. HOWEVER, you must provide a group quarters name and a facility name if the group quarters are associated with a facility (e.g. Group Quarters Name – Pandora Hall; Facility Name – Aristotle University). The Census Bureau will not process an identified group quarters address record without a group quarters name.

Question 2

 The Census Bureau requires lat/lon or map spots for all noncity style addresses.

True – New for 2020, Participants can submit non-city style addresses as long as they are accompanied by corresponding map spots on paper maps and address lists, or lat/lon coordinates on digital address lists and GUPS.

Question 3

• In LUCA, participant focus should be on making map updates.

False – Focus should be on updating your entity's address list.

Question 4

 In order to review the digital Address List, you can simply open the file in Excel.

False – It is important to following the proper steps for importing your .csv Address List into Excel. Improper opening of the .csv corrupts the data content of the digital address list.

Question 5

• If the mayor wants to view a map with Census Map Spots or address points, you can show him or her this data.

It depends – Only if he or she has signed the confidentiality agreement.

Question 6

 IT personnel who have access to any Title 13 materials do not need to sign the confidentiality form.

False – Anyone with access to Title 13 materials, their storage or backup must sign the Confidentiality Agreement.

Question 7

• If the house number or apartment unit identifier is wrong on the Address List, it can be changed by using the "C" action code and correcting the house number or apartment number on the address list.

False – In order to correct an incorrect house number and/or apartment unit identifier, a reviewer must use a "Delete/Add" combination. The address must first be deleted from the Address List using a "D" action code, then added to the paper Address Add page or the digital Address List using an "A" action code.

Question 8

 The Census Bureau wants to receive your entire address list as part of your LUCA submission.

False - LUCA is an opportunity for local governments to review and update the Census Bureau's address list. Your LUCA submission should only include the Census address records you edited, and the additional records that you added to the Census address list.

Question 9

The Address List is the foundation of an accurate Census.

True - The accuracy and completeness of the Address List is critical to the success of the Census. An accurate Address List leads to an accurate Population Count.

True or False Question 10

• If an address is ungeocoded, it will still be included in Census 2020 enumeration.

False - Ungeocoded addresses will not be included in the address list used for the 2020 Decennial. We cannot count the residents of a living quarters if we cannot geocode the living quarters.

Support and assistance

Visit the 2020 LUCA Web site:

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

Frequently Asked Questions document.

Contact us:

 Geographic Programs Support Desk toll-free telephone number: 1-844-344-0169.

o E-mail: <GEO.2020.LUCA@census.gov>