



Count Question Resolution Resources

2021 Texas Demographic Conference

June 10, 2021

 @TexasDemography



Count Question Resolution Program

The CQR operation accepts requests for review of the 2020 census housing & population counts based on two types of cases: boundary and/or living quarters count.

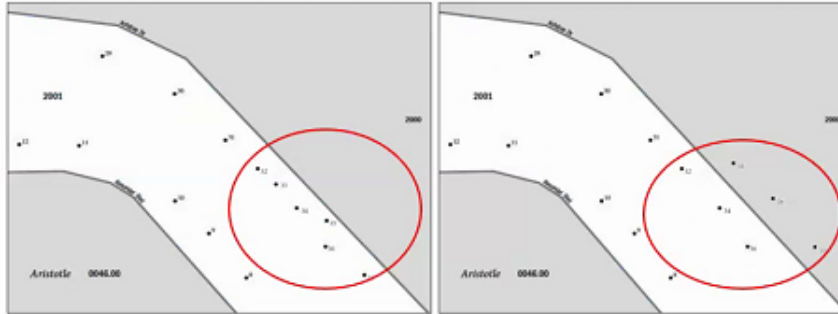
- **Boundary** — Correct inaccurate reporting or recording of boundaries legally in effect on January 1, 2020.
- **Living Quarters**
 - **Geocoding** — Correct the placement of living quarters and associated population within the correct governmental unit boundaries and 2020 census tabulation blocks.
 - **Coverage** — Add or delete specific living quarters and people associated with them, identified during the census process, but erroneously included as duplicates or excluded due to processing errors.



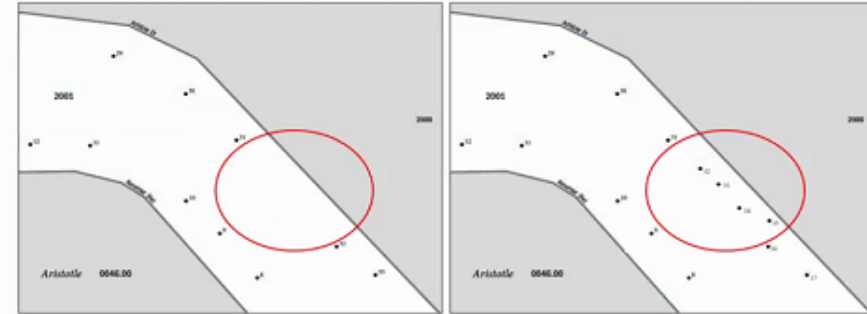
CQR Case Outcomes

Before and After – Examples of Corrections (examples show fictitious information)

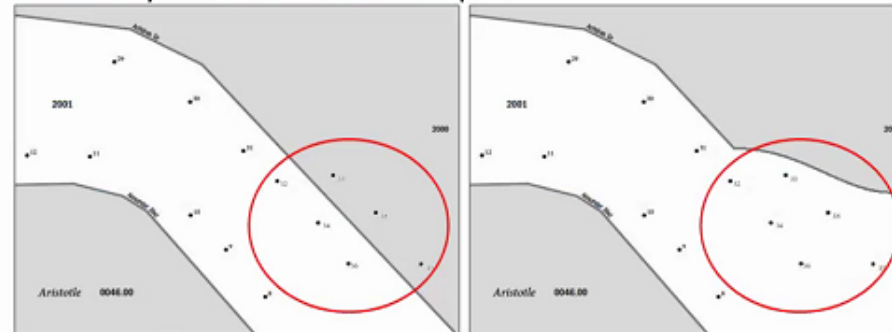
Living Quarter Count case, Geocoding correction example:



Living Quarter Count case, Coverage correction example:



Boundary case correction example:





CQR 2010 & 2020

2010

- Types of cases – boundary, geocoding, and/or coverage (based on living quarter count)
- Requirements – Required inquiries to include an address list, maps, and supporting documents for all case types.



- Total cases received from governmental units – 443*
- Cases that resulted in a count change - 119



* - *In scope cases only*

2020

- Types of cases – boundary and/or living quarter count
- Requirements – Will differ by case type.
 - Requiring addresses affected by potential boundary change, maps, and supporting documentation for boundary cases.
 - Requiring count of Housing Units and Group Quarters by block, as well as supporting documentation for living quarter count cases.
 - Changes in case requirements meant to governmental unit participation in CQR more user friendly.
- Total inquiries 1,500 (anticipated)*

* - *Number includes in-scope cases and unique communications with the CQR operation that may or may not lead to an official case; e.g. concerns about overall counts due to disclosure avoidance practices.*



CQR Key Dates

- **September 2021:** The Census Bureau completes delivery of data from the 2020 Census to the states for redistricting purposes
- **Fall 2021:** Federal Register Notice posted for the public 30-day comment period
- **December 2021:** Proposed timing for the Census Bureau to send a message to the tribal chairpersons and highest elected officials at tribal, state, and local governments who are eligible to file a CQR case
- **January 2022:** Census Bureau to begin processing CQR cases from eligible tribal, state, and local governments, researching the census enumeration records from each GU
- **June 30, 2023:** The Census Bureau stops accepting CQR cases
- **September 30, 2023:** Deadline for the Census Bureau to provide results to impacted GUs



Census Bureau Data

Census Block Housing Units

- Used to compare to non-Census data counts (i.e., local CAD data, etc.)

Census TIGER GIS Data

- Determine if administrative boundaries match boundaries legally in effect on January 1, 2020
- Determine if Housing Units were tabulated in the incorrect Census Block



Local Data

CAD Parcel and GIS Data

- Codes for residential parcels
- Fields indicating Year Built and Improvement Value (essential)
- Focus on parcels and not structures
- Situs Address vs. Physical/Mailing Address has implications for multiple units on one parcel

Certificate of Occupancy Permits

- Provides proof that a Housing Unit was able to be occupied

Utility Connection Data

- May be able to provide proof of occupancy at an address



Texas Natural Resources Information System (TNRIS) Resources

Statewide Layers

Address Points

- <https://tnris.org/stratmap/address-points/>
- Commission on State Emergency Communications (CSEC)
- 911 Addressing Coordinators

Land Parcels

- <https://www.tnris.org/stratmap/land-parcels/>
- Multiple appraisal districts and private vendors

Building Footprints (in progress)

- Improving 3D Buildings into Realistic Objects (2019 Texas GIS Forum)
- <https://speakerdeck.com/texasnaturalresourcesinformationsytem/improving-3-d-buildings-into-realistic-objects>

Aerial Imagery

- NAIP Imagery



Commercial Data*

Data Axle (formerly InfoUSA/Infogroup) Consumer Data

- Data is primarily aimed at direct marketing to reach consumers via mail
- Data obtained through “scraping” multiple public and private data sources including credit applications, utility connection data, USPS deliverable data, etc.
- Address data is mailing address and not necessarily physical address which results in many PO Box addresses in more rural areas.
- Lat/Long coordinates of geocoded addresses

First American Data Tree Address Data

- Data obtained primarily from real estate titles, deeds, mortgage, etc.
- Master address file for all properties including commercial and residential and can even identify individual unit numbers
- Lat/Long coordinates of geocoded addresses

Aerial Imagery

- Google Imagery, Bing Imagery, etc.
- Privately contracted imagery

Geocoding Applications

- Esri StreetMap Premium, Centrus, and others



Hidalgo County (2010 CQR Example)

Response from the Census Bureau:

- We reviewed the documentation that Hidalgo County provided in conjunction with the official 2010 Census records as part of our research to resolve their inquiry.
- Our research found errors in the geographic placement of housing units/group quarters related to the legal boundary of Hidalgo County.
- We also found a coverage error that resulted from a 2010 Census processing error.



Hidalgo County (2010 CQR Example) (cont'd)

Geographic Detail of 2010 Count Question Resolution Update - October 5, 2012

CQR Case ID: 90425

Hidalgo County, TX

Summary Level	FIPS State Code	FIPS County Code	FIPS County Subdivision Code	FIPS Place Code	Census Tract Code	Census Block Code	Area Name	Original tabulation counts		Corrected counts		Differences	
								Total housing units	Total population	Total housing units	Total population	Total housing units	Total population
040	48						Texas	9,977,436	25,145,561	9,977,436	25,145,561	0	0
050	48	215					Hidalgo County	248,287	774,769	248,287	774,769	0	0
060	48	215	91170				Edinburg CCD	45,940	153,171	45,940	153,171	0	0
070	48	215	91170	22660			Edinburg city	25,167	77,100	25,167	74,588	0	-2,512
080	48	215	91170	22660	023512		Tract 235.12 (part)	8	2,539	8	27	0	-2,512
101	48	215	91170	22660	023512	1024	Block 1024	0	2,512	0	0	0	-2,512
070	48	215	91170	45384			McAllen city (part)	6,158	18,780	6,157	18,777	-1	-3
080	48	215	91170	45384	023509		Tract 235.09 (part)	2,964	9,332	2,963	9,329	-1	-3
101	48	215	91170	45384	023509	2003	Block 2003	36	105	35	102	-1	-3
070	48	215	91170	99999			Remainder of Edinburg CCD	9,259	37,400	9,260	39,915	1	2,515
080	48	215	91170	99999	023509		Tract 235.09 (part)	253	822	254	825	1	3
101	48	215	91170	99999	023509	2017	Block 2017	37	132	26	92	-11	-40
101	48	215	91170	99999	023509	2018	Block 2018	0	0	12	43	12	43
080	48	215	91170	99999	023512		Tract 235.12 (part)	131	419	131	2,931	0	2,512
101	48	215	91170	99999	023512	1008	Block 1008	26	49	26	2,561	0	2,512
060	48	215	93785				Sullivan City CCD	10,994	33,306	10,994	33,306	0	0
070	48	215	93785	56696			Penitas city	1,210	4,403	1,208	4,390	-2	-13
080	48	215	93785	56696	024201		Tract 242.01 (part)	335	1,401	333	1,388	-2	-13
101	48	215	93785	56696	024201	2180	Block 2180	105	425	103	412	-2	-13
070	48	215	93785	99999			Remainder of Sullivan City CCD	3,125	10,839	3,127	10,852	2	13
080	48	215	93785	99999	024201		Tract 242.01 (part)	2,012	8,368	2,014	8,381	2	13
101	48	215	93785	99999	024201	2170	Block 2170	433	1,884	432	1,879	-1	-5
101	48	215	93785	99999	024201	2175	Block 2175	4	12	7	30	3	18
080	48	215	93785	99999	024203		Tract 242.03 (part)	656	722	656	722	0	0
101	48	215	93785	99999	024203	2002	Block 2002	157	107	156	105	-1	-2
101	48	215	93785	99999	024203	2008	Block 2008	18	4	19	6	1	2
101	48	215	93785	99999	024203	2081	Block 2081	27	17	28	19	1	2
101	48	215	93785	99999	024203	2084	Block 2084	37	31	36	29	-1	-2
160	48	999		22660			Edinburg city	25,167	77,100	25,167	74,588	0	-2,512
160	48	999		45384			McAllen city	45,862	129,877	45,861	129,874	-1	-3
160	48	999		56696			Penitas city	1,210	4,403	1,208	4,390	-2	-13



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