NGDA Dataset Report

Official NGDA Title: New England City and Town Area

Metadata Record Title: TIGER/Line Shapefile, 2014, Series Information File For The Current New England City And Town Area (NECTA) National Shapefile

A–16 NGDA Theme: Governmental Units, and Administrative and Statistical Boundaries

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Metadata:

Registration Status: Complete
Registered on: 6/1/2014

GeoPlatform Link*: https://www.geoplatform.gov/node/243/801f4ab1-7e13-4529-9b61-161d36a55ca9


*If the metadata has been updated and reharvested after publication of this report, the link may no longer be valid. The dataset may be searched for manually in Data.gov or GeoPlatform.gov.
NGDA Lifecycle Maturity Assessment (LMA) Report

Time Frame:
Baseline assessment responses include dataset activities from 1998 to 2015.

LMA Submission:
- **Status:** Complete
- **Date:** 9/23/2015
- **Extension Requested:** Yes

LMA Reviewer(s):
- **Supervisor:** Did not review
- **Theme Lead:** Lynda A Liptrap
- **Executive Champion:** Did not review
- **SAOGI**: Did not review
- **Other:** Did not review

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Attachments:
To get access to any attachments referenced in the report, email the LMA Help Desk at NGDA_LMA_help@fgdc.gov. Please use the subject "Dataset Report Attachment(s)" and indicate the associated official NGDA title.
## Lifecycle Maturity Assessment (LMA) Summary

### Overall Maturity:

<table>
<thead>
<tr>
<th>Maturity</th>
<th>Maturity Characteristics for All Lifecycle Stages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optimized; Established</td>
<td>Dataset meets virtually all business needs of all users. The dataset is considered authoritative by owners and secondary users. It is curated across all stages of the approved lifecycle. Future needs are defined on a regular basis and resources for addressing both current and future business requirements are available.</td>
</tr>
<tr>
<td>Mature; Consistent</td>
<td>Dataset meets all the business needs of the primary owner and most of the secondary users. The dataset is curated and used as authoritative by the primary owner. Dataset is used widely by secondary users actively engaged in sustaining the dataset. Future needs are identified and steps are planned to address these. All stages are supported and reviewed on a recurring basis. The dataset is well managed in relation to the approved lifecycle.</td>
</tr>
<tr>
<td>Managed; Predictable</td>
<td>Dataset meets a significant number of the business needs of the primary owner and is widely used as an authoritative resource by secondary users. Benchmark activities are occurring in at least four of the approved lifecycle stages. Management practices in relation to the approved lifecycle is moderate but consistent. Dataset is integrating changing business requirements in lifecycle stages impacting overall maturity.</td>
</tr>
<tr>
<td>Transition; Transformation</td>
<td>Dataset meets business needs of the primary owner and has moderate use by secondary users. Benchmark activities are occurring in at least three stages. Efforts to integrate funding, include partners, and obtain data are not supported in a sustained manner. Management practices in relation to the stages of the approved lifecycle is limited.</td>
</tr>
<tr>
<td>Planned; Initial Development</td>
<td>Dataset limited in meeting business needs of the primary owner. Benchmark activities in the approved lifecycle are just starting to consider secondary uses, partnerships are forming to support additional dataset uses. Dataset development is in a very early stage. Minimal or limited management against the benchmarks in the approved lifecycle.</td>
</tr>
<tr>
<td>No Activity</td>
<td>Dataset meets project or local business needs of the primary owner, secondary or additional uses or users were not considered, not recognized as an authoritative data or is part of a similar dataset. Not managed to any of the benchmarks in the approved lifecycle.</td>
</tr>
</tbody>
</table>

### General Questions: 100%

- Stage 1 - Define/Plan: 100%
  - Optimized; Established

- Stage 2 - Inventory/Evaluate: 100%
  - Optimized; Established

- Stage 3 - Obtain: 100%
  - Optimized; Established

- Stage 4 - Access: 100%
  - Optimized; Established

- Stage 5 - Maintain: 100%
  - Optimized; Established

- Stage 6 - Use/Evaluate 100%
  - Optimized; Established

- Stage 7 - Archive: 100%
  - Optimized; Established

### NGDA Dataset Maturity Definitions:

- **Optimized; Established**
- **Mature; Consistent**
- **Managed; Predictable**
- **Transition; Transformation**
- **Planned; Initial Development**
- **No Activity**

### How To Calculate Maturity:


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Created: 2015/12/31

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General Questions for All Stages

1) Is there a recurring process to obtain funding for all lifecycle stages of this dataset?
Answer: Funding support is part of agency budget on a recurring basis, funding is consistent and tied to business processes, and supports all lifecycle stages.

Justification Comment: Selected statistical area entity boundaries are updated as part of the funding appropriated each year to the Census Bureau. As work both supports the decennial census and is dependent upon its resultant data, boundary updates fluctuate throughout the decade.

2) Is there a process in place to ensure that open government and transparency guidelines are followed in all lifecycle stages for this dataset?
Answer: Process is published as appropriate with respect to sensitivity requirements, process is transparent, published appropriately.

Justification Comment: Federal Register notices are published in advance advising the public of upcoming rulemaking and/or changes in programs and soliciting their input. For more information see: http://www.census.gov/geo/reference/frn.html
Metadata for this dataset is published to federal portals to enable discovery.
There are also a number of external and internal standards pertaining to data accessibility, data security, and data confidentiality that apply to this dataset such as:
Section 508 of the Workforce Investment Act of 1998 mandates that when developing, procuring, maintaining, or using electronic and information technology, each Federal department or agency, including the United States Postal Service, shall ensure, unless an undue burden would be imposed on the department or agency, that the electronic and information technology allows, regardless of the type of medium of the technology:
-individuals with disabilities who are Federal employees to have access to and use of information and data that is comparable to the access to and use of the information and data by Federal employees who are not individuals with disabilities; and
-individuals with disabilities who are members of the public seeking information or services from a Federal department or agency to have access to and use of the information and data that is comparable to the access to and use of the information and data by such members of the public who are not individuals with disabilities.
The following links provide information on the data security and confidentiality protocols that apply to the dataset:
The TIGER/Line metadata file documents that the data are free from Title 13 restrictions.

3) Are there processes and tools in place so that staff are sufficiently knowledgeable to ensure a continuity of the dataset for all stages of the lifecycle, especially during staffing transitions?
Answer: Processes and tools to ensure dataset continuity are in place and implemented for all lifecycle stages.

Justification Comment: OMB publishes guidance on the uses of New England County and Town Areas (NECTAs) in a publicly-available bulletin.
Staff are well-versed in the statistical area concepts and use them in their work.

Staff roles and responsibilities are defined and there is ongoing, informal training such as seminars on Census geography, data, and products. In general, the maintenance of the boundary and feature data contained in the TIGER/Line Shapefiles are delegated to the subject matter experts (SMEs) for each geographic boundary or feature. These SMEs follow their own respective data maintenance procedures, which include identifying key personnel and assigning tasks for data maintenance, projects and training.

The Software Requirements Specifications (SRS) document for the TIGER/Line Shapefiles is maintained and updated with each iteration of the public release of the shapefiles. The TIGER/Line technical documentation exists and is maintained. It can be viewed at: http://www2.census.gov/geo/pdfs/maps-data/data/tiger/tgrshp2014/TGRSHP2014_TechDoc.pdf

STAGE 1 - Define/Plan

4) Are user and business requirements defined and formalized?
Answer: A recurring process is in place, including defining new partner and stakeholder business needs as they arise, and is fully implemented.

Justification Comment: The Office of Management and Budget is responsible for delineating NECTAs.

A recurring process is in place, including defining new partner and stakeholder business needs as they arise, and is fully implemented.

OMB published the Review Committee’s recommendations for revisions to the 2000 standards in a 2009 Federal Register notice, asking for public comment. OMB reviewed the public comments received, giving them careful consideration, and published a summary of the public comments in the 2010 Federal Register notice announcing the final standards. The Geography Division subject matter experts comprise the internal partners, stakeholders, and stewards of the geospatial products. All subject matter experts regularly contribute to the dataset and resource requirements and maintenance of the dataset. Roles and responsibilities, including which office is responsible for submitting requirements for the data, are clearly defined through the program-
specific workflow charts and the Geography Division Management Information System (GEO MIS).

6) Is there a quality assurance process for the dataset?
   **Answer:** Quality assurance published as appropriate with respect sensitivity requirements.
   **Justification Comment:**
   All public products are reviewed with manual and automated quality assessment procedures prior to release. In addition, data must pass accuracy tests before being integrated with TIGER. All QA processes are documented including instructions to the QA analysts, notes and progress reports. The QA requirements are reviewed during each iteration of production and are updated as needed.

7) Is there a process to evaluate the sensitivity, privacy, and confidentiality of this dataset?
   **Answer:** Sensitivity, privacy, and confidentiality evaluations fully implemented, reviewed and updated on a recurring basis.
   **Justification Comment:**
   All of the geospatial data products are Title 13 compliant, including shapefiles and relationship files that contained address ranges. The address range subject matter experts employ data suppression techniques in those data records with unique and/or single-range addresses. All files are reviewed through quality assurance checks prior to every public release to ensure that the data are Title 13 compliant.

8) Are defined data standards used in collecting, processing, and/or rendering the data?
   **Answer:** Standards fully implemented documented and published as appropriate.
   **Justification Comment:**
   OMB delineates NECTAs for publishing federal statistics. Federal statistical agencies, therefore, are its customers. Each decade OMB establishes a committee consisting of federal statistical agencies to review the standards and, if warranted, revise them preceding their application to new decennial census data. Prior to 2010, OMB charged the Metropolitan and Micropolitan Statistical Area Standards Review Committee, consisting of several federal statistical agencies, with examining the previous 2000 standards for delineating NECTAs, and providing to OMB recommendations for revising the standards. The geographic concepts, record layouts, metadata attributes, values and definitions for rendering TIGER/Line shapefiles are synthesized in the TIGER/Line Shapefile technical documentation and shapefile metadata.

**STAGE 2 - Inventory/Evaluate**

9) Is there a process for determining if data necessary to meet requirements already exist from other sources (either within or outside the agency) before collecting or acquiring new data?
   **Answer:** Process for determining appropriate data is being reused fully implemented, reviewed, and updated on a regular basis.
   **Justification Comment:**
   This question is not applicable for this dataset since OMB delineates the NECTAs based on OMB standards (which received public comment in the proposal phase).

   OMB asks federal statistical agencies to use these delineations in their products.

   For example, the Census Bureau uses these delineations to produce shapefiles.

**STAGE 3 - Obtain**

10) Is there a process for obtaining data in relation to this dataset?
Process is fully implemented, reviewed and updated on a regular basis.

OMB publishes the delineations of NECTAs in an OMB bulletin based on the application of OMB standards to Census Bureau data.

The Census Bureau uses these data to produce the shapefiles for these areas. OMB also publishes the proposed standards and the final standards upon which the delineations are based.

The boundary, feature and address data used to modify, update and transform legacy data are primarily obtained from our tribal, state, county, and local partners through our partnership programs and the Geographic Support System Initiative (GSS-I).

The GSS Initiative is an integrated program of improved address coverage, continual spatial feature updates, and enhanced quality assessment and measurement. For more information on the GSS-Initiative visit, http://www.census.gov/geo/www/gss/

Information on the data acquisition plan and content specifications can be found on the program websites:
http://www.census.gov/geo/partnerships/
http://www.census.gov/geo/www/gss/

The data acquired through the Partnership Programs or through GSS-I is reviewed, updated and implemented on a regular basis.

11) Is the metadata in a FGDC endorsed geospatial metadata standard?
Answer: Metadata is available in a format endorsed by the FGDC, it fully describes the dataset and provides all the information required to make the dataset discoverable, accessible, and usable.

Justification Comment:
Metadata is published and available to the public for the TIGER/Line shapefile product. The metadata is in the ISO 19115 format and is discoverable through federal data portals and packaged with the downloadable files. The metadata template is specified in internal Census requirements documents for the public TIGER/Line Shapefiles.

12) How complete is the geographic coverage as defined in the requirements for the dataset?
Part 1 Answer: Business requirements for cyclic updates identified and a process is in place.
Part 2 Answer: Dataset has presently attained the greatest geographic coverage as defined by the current requirements or roughly 100%.

Justification Comment:
The TIGER/Line Shapefiles cover the entire United States, the District of Columbia, Puerto Rico, and the Island areas, which is the defined coverage area.

This extensive coverage is required in order to support the data collected in the decennial Census, Economic Census, Population Estimates and the American Community Survey.

This dataset covers New England.

STAGE 4 - Access

13) Do you have a process for providing users access to the data in an open digital machine readable format?
Answer: User access process is fully implemented, data is available, process is reviewed and updated on a recurring basis.

Justification Comment:
There is an established process by which data is made available on the Census website for download.
in a machine-readable format. This includes the shapefiles, metadata, and technical documentation. Partners and the public may also view the data through maps and online geography viewers. Access may be obtained at: http://www.census.gov/geography.html

STAGE 5 - Maintain

14) Is there a maintenance process for updating and storing the dataset?
Answer: Dataset maintenance process is fully implemented and processes are reviewed and periodically updated.

Justification Comment:
TIGER, to include the NECTA data, is stored in the MAF-TIGER Database (MTDB). Business rules, geographic area edits and core Application Program Interface (API) rules are in place to maintain the geography. The business rules and core API reduce the chance that geography is altered in error. The business rules are well-documented and updated when new geography or geographic relationships are added. The versioning of the data is well organized by the benchmarking process and creation of benchmark specific shapefiles. There is documentation for the business rules, geographic area edits, core API, benchmarking, and database/products vintages, which is Census Bureau versioning. The data are typically updated continuously through various programs and operations.

15) Is there an error correction process as part of dataset maintenance?
Answer: Error correction process includes user notification, process reviewed on a recurring basis.

Justification Comment:
Any feedback from external users which result in change to the TIGER/Line Shapefiles are documented through the production processes of the next shapefile release. If a large-scale error or errors are found after undergoing quality assurance, the files are removed from the website, a note is posted about the error, the error is logged into a tracking database, and new files may be created and released. The timing of the correction and release of new data varies based on the situation.

STAGE 6 - Use/Evaluate

16) Is there a process to determine if the dataset meets user needs?
Answer: Process is fully implemented and repeated on a recurring basis.

Justification Comment:
For Census internal customers who are the primary users, requirements are reviewed annually and updated as needed.

Externally, there is no formal established feedback process with requirements for the data. However, users of the TIGER/Line Shapefiles are encouraged to contact the Geography Division to provide feedback. Most feedback generally focuses on the availability of different formats in which the data is offered, as opposed to feedback on the content of the data.

Feedback is submitted via phone call, email or in-person at conference workshops. Any comments received from the public which could possibly improve upon the product is communicated back to the Geography Division for consideration, and where applicable, implementation.

17) Is there a process to provide users information on how to access and properly use the dataset?
Answer: Process is fully implemented supporting access and proper use, process is reviewed on a recurring basis.

Justification Comment:
We do have a release plan annually for the TIGER/Line shapefiles and this dataset. The plan has been in use since 2007 and it covers how the files are named, zipped, organized on the ftp site, and how the web interface works. The plan covers how the files will look and will be organized once they are released.

The TIGER/Line Shapefiles Technical documentation and metadata provides documentation for the
access to and the use of the data.
The TIGER Geodatabase Record Layouts are available at:
http://www2.census.gov/geo/pdfs/maps-data/data/tiger/tgrshp2014/2014_TIGER_GDB_Record_Layouts.pdf
The TIGER/Line Shapefile Technical Documentation is available at:
There are no access constraints to the public users of the data; however, the Geography Division posts the following caveat in the metadata files, technical documentation and on the product website:
The TIGER/Line Shapefile products are not copyrighted however, TIGER/Line and Census TIGER are registered trademarks of the U.S. Census Bureau. These products are free to use in a product or publication, however acknowledgement must be given to the U.S. Census Bureau as the source.

18) Are the business processes and management practices assessed to meet changing technology?
Answer: Assessment process is fully implemented for taking advantage of changing technology, process is reviewed on a recurring basis.

Justification Comment: Attachment(s): 0
Program requirements are reviewed in advance of the maintenance cycles to ensure that any advances in technology processes, or data can be applied if appropriate.

STAGE 7 - Archive

19) Is there an archiving process for the dataset?
Answer: Archival and disposition processes are fully implemented.

Justification Comment: Attachment(s): 0
We do archive copies of the files including the old disk copies of the files. Creating a disk copy is part of our requirements for the product and part of the plan for removing the files from the internal GEO servers when they remove the files from the place on the server where they are created. Our archive copies contain all the data that are on the ftp site, but it is not stored in the same directory structure on our archived disks due to the way the software creates the files on our server.

Census maintains CD/DVD copies of all vintages of TIGER created to date. We create our own copies (currently on DVD). We have at least one copy of each disk.

In addition, 2010 TIGER/Line data were archived by NARA.