



**2023 Covered Agency Annual Report  
and Self-Assessment**  
*for*  
***Department of Health and Human Services***  
**Geospatial Data Act of 2018**  
**Section USC 43 Sec 2808(a) Requirements**

January 19, 2024



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## Introduction

The Geospatial Data Act of 2018 (GDA) was signed into law on October 5, 2018. The GDA was included as a component of the FAA Reauthorization Act (H.R. 302, P.L. 115-254). The GDA is now in [U.S. Code, Title 43 – Public Lands, Chapter 46: GEOSPATIAL DATA](#).

USC 43 Sec 2808(b) of the Geospatial Data Act (GDA) requires each covered agency<sup>1</sup> to submit to the Federal Geographic Data Committee (FGDC) “an annual report regarding the achievements of the covered agency in preparing and implementing the strategy described in subsection (a)(1) and complying with the other requirements under subsection (a).” [<https://fgdc.gov/gda/online>]

This document serves as the Department of Health and Human Services’ annual report to the FGDC covering Fiscal Year 2023, October 1, 2022 through September 30, 2023. The report was developed through a self-assessment template developed by the FGDC agencies. Annual reports span one fiscal year. The report includes a rating for each covered agency responsibility of "meets expectations," "made progress toward expectations," or "fails to meet expectations," as required by the GDA. A summary and evaluation of all the covered agency reports will be generated by FGDC and provided to the National Geospatial Advisory Committee (NGAC) for review and comment. The summary reports, along with the NGAC comments, will also become part of the biennial FGDC GDA Report to Congress and will be published online via the [FGDC GDA pages \[https://fgdc.gov/gda\]](#).

This report is based on a standardized questionnaire and self-assessment score for each covered agency responsibility. The Department of Health and Human Services has maintained documentation supporting the responses provided for this assessment. This information may be reviewed as part of the biennial Inspector General (IG) audits of covered agencies.

A recommended self-assessment key has been provided for each responsibility. In some cases, optional text is provided for additional insights or to justify a self-assessment selection. Any optional responses provided are not a factor in the self-assessment.

Where data or datasets are referenced,<sup>2</sup> information relates to all geospatial datasets owned or managed by the Department of Health and Human Services that are, or should be, available to the public.

To support a more comprehensive picture of agency compliance and related activities, each agency had the option to submit up to a 2-page document as part of the agency’s submission. If provided, the document may include highlights and examples that can supplement the FGDC annual summary report, the FGDC biennial Report to Congress, support the feedback process with the NGAC, or provide context to Office of the Inspector General (OIG) findings.

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<sup>1</sup> GDA definition of *agency*: <https://www.fgdc.gov/gda/online#the-term-“covered-agency”–means–an-executive-department-as-def>

<sup>2</sup> GDA definition of *geospatial data*: <https://www.fgdc.gov/gda/online#the-term-%E2%80%98geospatial-data%E2%80%99%E2%80%99%E2%80%94means-information-that-is-tied-to-a>

# Self-Assessment for Department of Health and Human Services

## USC 43 Sec 2808(a)(1) Covered Agency Geospatial Strategies

<b>GDA Requirement</b>	Prepare, maintain, publish, and implement a strategy for advancing geographic information and related geospatial data and activities appropriate to the mission of the covered agency, in support of the strategic plan for the National Spatial Data Infrastructure
<b>Agency Self-Assessment</b>	<b>Meets Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 1.1 and 1.2</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 1.1 and No to Question 1.2</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 1.1 and 1.2</li> </ul> </li> </ul>

**Table 1. GDA USC 43 Sec 2808(a)(1) Covered Agency Geospatial Strategies Requirement and Self-Assessment Criteria.**

**Clarifying Text:** FGDC developed and released a national strategic plan for the development of the National Spatial Data Infrastructure (NSDI) [the GDA, USC 43 Sec 2804(c)], which was approved by the FGDC Steering Committee in November 2020. Covered Agency Geospatial Strategies [the GDA, USC 43 Sec 2808(a)(1)], which will support the goals in the NSDI strategic plan, were due to be completed and submitted for agency approval by February 26, 2021, per FGDC guidance. For more information, please visit <http://fgdc.gov/nsdi-plan>.

### 1.1 Is your agency’s strategy complete, approved, and being implemented?

- Yes

### 1.2 Is your agency’s strategy published? If yes, please provide the URL or briefly describe how public access is being provided.

- Yes
- <https://cdo.hhs.gov/s/geospatial-data-strategy>

USC 43 Sec 2808(a)(2) Support Data Sharing

<b>GDA Requirement</b>	Collect, maintain, disseminate, and preserve geospatial data such that the resulting data, information, or products can be readily shared with other federal agencies and non-federal users.
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ <i>Data is currently shared</i> selections for <b>all</b> agency appropriate parties for Question 2.1 and Yes to Questions 2.2 and 2.3</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ <i>Data is currently shared</i> selections for <b>some</b> appropriate parties for Question 2.1, <b>or</b> Question 2.2 and 2.3 have a mix of answers</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Questions 2.1, 2.2, and 2.3</li> </ul> </li> </ul>

**Table 2. GDA USC 43 Sec 2808(a)(2) Support Data Sharing Requirement and Self-Assessment Criteria.**

**Clarifying text:**

- ✓ This section does not include efforts related to partners, which are covered under Question 7, USC 43 Sec 2808(a)(7).
- ✓ Review the [GDA definition of geospatial data](#) to consider the questions in this section.
- ✓ Remember, your agency’s answers should include information about all geospatial datasets owned or managed by your agency that are, or should be, available to the public in accordance with agency statutory authorities and missions; not just National Geospatial Data Asset (NGDA) Datasets.
- ✓ Sharing data on the Internet using open standards, protocols and formats makes it part of the NSDI.
- ✓ Additional detail on the definition of geospatial data may be provided by OMB Circular A-16 when finalized.
- ✓ Geospatial data that will not or cannot be distributed to the public does not need to be considered for GDA-related responses as per the GDA.

**2.1 Does your agency ensure that all eligible geospatial data is managed so it can be readily shared and is it provided in open formats, as appropriate? (This will include agency open government and transparency guidelines.) (Select all that apply)**

- Data is currently openly shared to the public.
- Data is currently shared on a limited basis with federal partners.
- Data is currently shared on a limited basis with non-federal users.

**2.2 Does your agency disseminate eligible geospatial data in a way that can be readily shared in open formats (for example, using machine readable formats or searchable metadata)?**

- Some geospatial data, and its metadata, is shared in open formats.

**2.3 Are maintenance processes in place to ensure other federal agencies and non-federal users have access to the most recent data in addition to data and metadata updates and corrections?**

- Some programs/datasets have maintenance processes in place.

**2.4 Optional Question: Would the agency like to provide up to 5 key examples of ongoing or planned activities that ensure eligible geospatial data and associated metadata can be easily shared, understood, and re-used by others, now and in the future?**

- Yes

Planned or Ongoing Activities	Description
NIH - Linking geospatial measures to patient records.	All of Us & the National Covid Cohort (large-scale programs) and Sister's Study (targeted study) collect derived (e.g., air pollution measures derived from home addresses and public air quality data) and new geospatial measures (e.g., air particulate levels from body & home-based measurement devices) at the individual patient level. Geospatial data that is restricted access due to privacy and re-identification concerns are made available using secure enclaves or appropriate DUAs.
NIH - Cataloging of health relevant geospatial data sets	A catalog of health-related geospatial data is being developed under an effort being led by NIEHS. This catalog will aid people in finding geospatial data located in other repositories based on characteristics such as the measurement type, spatial and temporal dimensions. The repository will also serve as a resource for storing and accessing select public access geospatial data, such as the output of air pollution and heat estimation models.
IHS - Develop the FIND HEALTH CARE & RESOURCES FOR NATIVE VETERANS MAP APP	In FY 2023, the OPHS launched a new interagency map app with the Veterans Health Administration (VHA). Housed on the IHS website, Find Health Care & Resources for Native Veterans map app integrates location-based data from over 80 Urban Indian Organizations (UIOs) and 1,500 VHA sites, creating a one-stop platform for Native Veterans to search and explore health care and other support services.
CDC- The Tracking Program and GRASP jointly lead the NCEH-ATSDR Data Science Task Force, a task force tasked to employ data, analysis, and visualization to address environmental public health emergencies of all types.	The Tracking Program and GRASP actively engage other programs and task forces to assess data needs for incident response. GIS issues are a major part of the interviews. Standard mapping and views are generated to provide situational awareness to the proper audience. These efforts look to ensure geospatial data is available to the public as well as other federal partners during a response.
NIH - Capturing patients residential history.	NIH Team linked residential address information to 3 million cancer patients and are currently working with central cancer registries of linking environmental data to help analyze cancer outcomes.

**Table 2.a. Optional Information Regarding Ongoing or Planned Geospatial Data Sharing Activities.**

**2.5 Brief Summary (Limit 3000 characters, or approximately 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(2), "collect, maintain, disseminate, and preserve geospatial data such that the resulting data, information, or products can be readily shared with other Federal agencies and non-Federal users." If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

HHS has an open data strategy that encourages sharing data with the public.

In December 2023, the HHS Data Governance Board and Office of the HHS Chief Data Officer published the refreshed HHS Data Strategy.

Almost all of the HHS Operating Divisions currently openly share data with the public, and/or share data with federal partners, and/or share data on a limited basis with non-Federal users.

The vast majority of HHS Operating Divisions that share geospatial data currently share geospatial data and metadata in open formats.

USC 43 Sec 2808(a)(3) Promote Data Integration

<b>GDA Requirement</b>	Promote the integration of geospatial data from all sources
<b>Agency Self-Assessment</b>	<b>Meets Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 3.1</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Partial to Question 3.1</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 3.1</li> </ul> </li> </ul>

*Table 3. GDA USC 43 Sec 2808(a)(3) Promote Data Integration Requirement and Self-Assessment Criteria.*

**3.1 Has your agency taken action to promote integration of data from multiple sources?**

- Yes. The agency has taken appropriate action to promote data integration.

**3.1.a If yes or partial to Question 3.1, in what ways does your agency promote data integration from multiple sources? (Select all that apply)**

- Hosts a data sharing infrastructure where partners and/or data users can share and discover data.
- Develops a data integration toolkit or APIs to promote integration of agency data in external applications.
- Develops data integration processes to promote integration of non-agency data into applications.
- Provides data in openly standardized readable formats or as downloadable file packages.
- Develops data sharing agreements or Memoranda Of Agreement (MOA) with public and private partners for ingest or sharing of data.

**3.2 Brief Summary (Limit 3000 characters or 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(3), "promote the integration of geospatial data from all sources." If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

All reporting HHS Operating Divisions that manage geospatial data indicated that they are engaged in activities to promote data integration.

Most HHS Operating Divisions have taken appropriate or partial steps to promote data integration across data sources.

Most HHS Operating Divisions host data sharing infrastructures where partners and data users can discover data, and/or provide data integration toolkits or APIs to promote integration of data into external applications, and/or provide data in openly standardized readable formats or as downloadable file packages.



Some HHS Operating divisions develop data sharing agreements or Memoranda Of Agreement (MOA) with public and private partners for ingest or sharing of data, and/or develop data integration processes to promote integration of non-agency data into applications.

USC 43 Sec 2808(a)(4) Ensure Records Retention Schedule for Geospatial Data

<b>GDA Requirement</b>	Ensure that data information products and other records created in geospatial data and activities are included on agency record schedules that have been approved by the National Archives and Records Administration
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Questions 4.1 and 4.2</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Yes or Partial to Questions 4.1 and 4.2 or</li> <li>○ No to either 4.1 or 4.2</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Questions 4.1 and 4.2</li> </ul> </li> </ul>

*Table 4. GDA USC 43 Sec 2808(a)(4) Ensure Records Retention Schedule for Geospatial Data Requirement and Self-Assessment Criteria.*

**4.1 To ensure approved National Archives and Records Administration (NARA) schedules are in place, does the appraisal process for your agency to determine which data is archived include geospatial data?**

- Partial. Some agency programs are included in the archiving appraisal process for data information products and other records created in geospatial data and activities.

**4.2 Are geospatial data assets included on agency record schedules?**

- Partial. Some agency record schedules are inclusive of data information products and other records created in geospatial data and activities.

**4.3 Brief Summary (Limit 3000 characters, or approximately 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(4), "ensure that data information products and other records created in geospatial data and activities are included on agency record schedules that have been approved by the National Archives and Records Administration." If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

Some HHS reporting Operating Divisions indicated that they have implemented processes to comply with NARA requirements, and/or have processes for archiving and preserving data, and/or have initiatives to improve NARA compliance.

USC 43 Sec 2808(a)(5) Allocate Resources for Geospatial Data Management Responsibilities

<b>GDA Requirement</b>	Allocate resources to fulfill the responsibilities of effective geospatial data collection, production, and stewardship with regard to related activities of the covered agency, and as necessary to support the activities of the Committee
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 5.1</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Partial to Question 5.1</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 5.1</li> </ul> </li> </ul>

*Table 5. GDA USC 43 Sec 2808(a)(5) Allocate Resources for Geospatial Data Management Responsibilities Requirement and Self-Assessment Criteria.*

**5.1 Are geospatial program resources (including full- or part-time federal employees or contractors) allocated to fulfill the responsibilities of effective geospatial data collection, production, and stewardship with regard to related activities of the covered agency, and as necessary to support the activities of the Committee?** (Select the most appropriate answer and provide context for your agency’s response in Question 5.2.)

- Partial

**Clarifying text:** Analyses of the requirements for the GDA are ongoing and it is anticipated that agencies will answer based on currently understood or anticipated requirements. Additional details can be provided in the 5.2 Brief Summary and in your agency’s optional 1- to 2-page Appendix B summary document (if provided).

**5.2 Brief Summary (Limit 3000 characters, or approximately 450 words):** Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(5), "allocate resources to fulfill the responsibilities of effective geospatial data collection, production, and stewardship with regard to related activities of the covered agency, and as necessary to support the activities of the Committee." If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.

Most HHS Operating Divisions indicated that funding to fulfill the responsibilities of effective geospatial data collection, production, and stewardship are part of overall funding for programs that collect and manage data sets that include geospatial data.

USC 43 Sec 2808(a)(6) Use Data Standards

<b>GDA Requirement</b>	Use the geospatial data standards, including the standards for metadata for geospatial data, and other appropriate standards, including documenting geospatial data with the relevant metadata and making metadata available through the GeoPlatform
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Questions 6.1, 6.2 and 6.3</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Any other combination of Yes, No, and Partial to Questions 6.1, 6.2, and 6.3</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Questions 6.1, 6.2, and 6.3</li> </ul> </li> </ul>

*Table 6. GDA USC 43 Sec 2808(a)(6) Use Data Standards Requirement and Self-Assessment Criteria.*

**Clarifying Text:**

- ✓ The FGDC Executive Committee has established a Standards Task Team to evaluate the requirements, options, processes, resources, and decision structure required to establish an operational and sustainable FGDC standards process.
- ✓ The FGDC has not yet established any standards under the GDA, USC 43 Sec 2806.
- ✓ Refer to the FGDC Standards webpage (<https://www.fgdc.gov/standards>) for additional information.
- ✓ Answers should include information about all geospatial datasets owned or managed by your agency that are, or should be, available to the public in accordance with agency statutory authorities and missions; not just National Geospatial Data Asset (NGDA) Datasets.

**6.1. Are defined data standards used in collecting, processing, and/or disseminating the data being addressed? (Select all that apply)**

- Yes. Eligible geospatial datasets use FGDC endorsed data standards under OMB A-16, 2002, or more current versions of those endorsed standards.
- Yes. Eligible geospatial datasets use data standards that comply with OMB Circular A-119.
- Partial. Some eligible geospatial datasets use FGDC-endorsed data standards.
- Partial. Some eligible geospatial datasets use data standards that comply with OMB Circular A-119.
- No. Eligible agency geospatial datasets do not use FGDC-endorsed data standards or standards that comply with OMB Circular A-119.

**6.2 Does your agency maintain its metadata in an FGDC-endorsed, or ISO-compliant geospatial metadata standard format? (Select all that apply)**

**Clarifying text:** Question does not include legacy datasets that are static and no longer modified or otherwise managed. Also, see the list of endorsed FGDC-endorsed standards <https://www.fgdc.gov/standards/>.

- Yes. Eligible non-legacy datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.
- Partial. Some eligible datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.
- Partial. Some eligible datasets have FGDC-endorsed or current ISO-compliant geospatial metadata, that needs to be reviewed or refreshed.
- No. Agency datasets do not use FGDC-endorsed or current ISO-compliant geospatial metadata standards.

**6.3 Is your agency geospatial metadata available through GeoPlatform.gov?**

**Clarifying Text:** For the scope of the requirement, USC 43 Sec 2808(b)(1)(A)(iv) provides for “includ[ing] download access to all open geospatial data directly or indirectly collected by covered agencies” and Sec 2808(a)(6) requires that “metadata [be] available through the GeoPlatform.”

- Partial. Some metadata for some public datasets are available via GeoPlatform.gov.

**6.4 Brief Summary (Limit 3000 characters, or approximately 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(6), “use the geospatial data standards, including the standards for metadata for geospatial data, and other appropriate standards, including documenting geospatial data with the relevant metadata and making metadata available through the GeoPlatform.” If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

Most HHS Operating Divisions indicated that their eligible geospatial datasets use FGDC endorsed data standards under OMB A-119, or more current versions of those standards.

Most HHS Operating Divisions indicated that some of their eligible datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.

USC 43 Sec 2808(a)(7) Support Coordination and Partnerships

<b>GDA Requirement</b>	Coordinate and work in partnership with other Federal agencies, agencies of State, tribal, and local governments, institutions of higher education, and the private sector to efficiently and cost-effectively collect, integrate, maintain, disseminate, and preserve geospatial data, building upon existing non-federal geospatial data to the extent possible
<b>Agency Self-Assessment</b>	<b>Meets expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Questions 7.1 and Yes or Not applicable to Question 7.2</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Any combination of Yes, Not applicable, Partial, or No to Questions 7.1 and 7.2</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Questions 7.1 and 7.2</li> </ul> </li> </ul>

*Table 7. GDA USC 43 Sec 2808(a)(7) Support Coordination and Partnerships Requirement and Self-Assessment Criteria.*

**7.1 Are processes in place to ensure that, when appropriate, partners and stakeholders have visibility into agency geospatial data management activities (e.g., collection, integration, maintenance, dissemination, and preservation)?**

- Yes. There are processes in place for all agency mission areas.

**7.1.a If yes or partial to Question 7.1, which external partners and stakeholders are involved in data management activities? (Select all that apply)**

**Clarifying text:** The selection list provided was taken from the GDA, USC 43 Sec 2803(b)(C).

- Other federal agencies
- States
- Local governments
- Regional governments
- Tribal governments
- Private sector entities
- Geospatial information user industries
- Professional associations
- Scholarly associations
- Nonprofit associations
- Academia
- Licensed geospatial data acquisition professionals

**7.1.b If yes or partial to Question 7.1, what processes are in place to ensure partners and stakeholders are involved? (Select all that apply)**

**Clarifying text:** When answering this question think about activities such as using surveys, listening sessions, Request for Information, booths at stakeholder conferences.

- Market research
- Partnership outreach activities
- Expert consultations
- Advisory committee(s)
- Working group(s) and sub-committee(s)
- Steering committees
- Councils
- Engage with trade groups
- Feedback opportunities (e.g., contact email/phone, call center)
- Federal Register Notices
- Memoranda of Understanding

**7.2 Does your agency build upon existing non-federal geospatial data?**

- Yes. Agency builds upon existing non-federal geospatial data to the extent possible.

**7.2.a If yes or partial to Question 7.2, what ways do you build upon existing non-federal geospatial data? (Select all that apply)**

- Procurement/acquisition/grant
- Research partnership
- Cooperative data collection or crowd sourcing
- Mission assignments or Interagency Agreements
- MOAs/data sharing agreements

**7.3 Brief Summary (Limit 3000 characters, or approximately 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(7), “coordinate and work in partnership with other Federal agencies, agencies of State, tribal, and local governments, institutions of higher education, and the private sector to efficiently and cost-effectively collect, integrate, maintain, disseminate, and preserve geospatial data, building upon existing non-Federal geospatial data to the extent possible.” If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

Most HHS Operating Divisions have processes in place, but some mission areas do not have requirements for geospatial data management partnerships. HHS Operating Divisions build upon existing non-federal geospatial data to the extent possible.

USC 43 Sec 2808(a)(8) Promote Application of Geospatial Data Assets

<b>GDA Requirement</b>	Use geospatial information to— (A) make Federal geospatial information and services more useful to the public; (B) enhance operations; (C) support decision making; and (D) enhance reporting to the public and to Congress;
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to 8.1, 8.2 and 8.3</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Any combination of Yes, Partial and No to Questions 8.1, 8.2 and 8.3</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to 8.1, 8.2 and 8.3</li> </ul> </li> </ul>

*Table 8. GDA USC 43 Sec 2808(a)(8) Promote Application of Geospatial Data Assets Requirement and Self-Assessment Criteria.*

**USC 43 Sec 2808(a)(8)(A) make Federal geospatial information and services more useful to the public;**

**8.1 Does your agency leverage geospatial information to make federal geospatial information and services more useful to the public?**

- Yes

**Clarifying Text:** A number of examples of leveraging geospatial information for public use include, but are not limited to:

- ✓ Making the data accessible
- ✓ Providing data in ingestible services
- ✓ Providing maps or visualizations of geospatial data - like a map of an agency’s jurisdictional regions so the public can identify their region on a website
- ✓ Provided data in an online application
- ✓ Outreach/communications for user feedback
- ✓ Making data open, standardized, or machine readable

**USC 43 Sec 2808(a)(8)(B) enhance operations; USC 43 Sec 2808(a)(8)(C) support decision making**

**8.2 Does your agency leverage geospatial information to improve operations and decision-making?**

- Yes. Agency broadly leverages geospatial information in operations improvements or decision-making.



**USC 43 Sec 2808(a)(8)(D) enhance reporting to the public and to Congress**

**8.3 Does your agency leverage geospatial information to enhance reporting to the public or to Congress?**

- Partial. Agency leverages some geospatial information to enhance either public or Congressional reporting.

**8.3.a If yes or partial, for which of these audiences does your agency leverage geospatial information to enhance reporting?** (Select all that apply)

- Public reports (e.g., fact sheets, data briefs, Annual reports, other published agency reports).
- Congressional reports.
- Internal agency and leadership plans, reports and communications.

**8.4 Optional Question: Would the agency like to provide up to 5 key examples and links that demonstrate how geospatial data assets are used, internally and externally, to make federal geospatial information and services more useful to the public; enhance operations; support decision making; and/or enhance reporting to the public and to Congress?**

- Yes

Example	Link
NIH-Census level geospatial information is used to understand geographical disparities in cancer.	<a href="https://gis.cancer.gov">https://gis.cancer.gov</a>
NIH - State Cancer Profiles, this site provides dynamic views of cancer statistics for prioritizing cancer control efforts across the nation.	<a href="https://statecancerprofiles.cancer.gov">https://statecancerprofiles.cancer.gov</a>
IHS - OEHE DSFC is using GIS to enhance program services and workflows. <ul style="list-style-type: none"> <li>• Developed nationwide GIS service for water/sewer utilities (internal)</li> <li>• Developed nationwide GIS solution to identify/asses tribal open dumps (internal)</li> <li>• Developed the ability to identify tribal homes with sanitation deficiencies (internal)</li> <li>• Publicly available status of sanitation facilities construction projects as part of the Bipartisan Infrastructure Law (BIL)</li> </ul>	<a href="https://dsfc-ihs-gis.hub.arcgis.com/">https://dsfc-ihs-gis.hub.arcgis.com/</a>
IHS - The Office of Public Health Support (OPHS) collects, creates, and maintains IHS thematic and administrative geospatial data (e.g., IHS, Tribal and Urban Indian Health Facilities, IHS Areas and IHS service units map layers). The IHS updates the health facility layer (e.g., descriptions and location of the health facility) on a quarterly basis and makes this data available to the public in multiple web map applications.	<a href="https://services2.arcgis.com/VFLAJVozK0rtzQmT/arcgis/rest/services/IHS_Health_Facilities/FeatureServer">https://services2.arcgis.com/VFLAJVozK0rtzQmT/arcgis/rest/services/IHS_Health_Facilities/FeatureServer</a>
NIH - Participant Counts by State. These aggregated, public-facing data snapshots provide an overview of All of Us Research Program participant characteristics and the types of data that we collect from participants.	<a href="https://www.researchallofus.org/data-tools/data-snapshots/">https://www.researchallofus.org/data-tools/data-snapshots/</a>

**Table 8.a. Example Benefits of Federal Geospatial Data Assets.**

**8.5 Brief Summary (Limit 3000 characters, or approximately 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(8), "use geospatial information to—**

- (A) make federal geospatial information and services more useful to the public;**
- (B) enhance operations;**
- (C) support decision making; and**
- (D) enhance reporting to the public and to Congress;"**

**If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

HHS Operating Divisions leverage geospatial information to make federal geospatial information and services more useful to the public, improve operations and decision-making, and to enhance reporting to the public or to Congress.

USC 43 Sec 2808(a)(9) Protection of Privacy and Confidentiality

<b>GDA Requirement</b>	Protect personal privacy and maintain confidentiality in accordance with Federal policy and law
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Questions 9.1 and 9.2</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Yes or Partial to Questions 9.1 or 9.2</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Questions 9.1 or 9.2</li> </ul> </li> </ul>

**Table 9. GDA USC 43 Sec 2808(a)(9) Protection of Privacy and Confidentiality Requirement and Self-Assessment Criteria.**

**9.1 Are the agency’s Privacy Threshold Assessment or Privacy Impact Assessment (PTA/PIA) processes inclusive of your agency’s geospatial data?**

**Clarifying Text:** The Privacy Threshold Assessment/Analysis is the mechanism that agencies use to determine if PII is, or is not, collected and whether a Privacy Impact Assessment needs to be done for an information system.

- Partial. The agency’s PTA/PIA processes are inclusive of some agency data.

**9.2 Are the IT systems and applications that maintain and support your agency’s geospatial data covered by a current Authorization to Operate (ATO)?**

- Yes. All agency geospatial data is housed in a system covered by a current ATO and is appropriately protected in accordance with applicable laws and regulations.

**9.3 Brief Summary (Limit 3000 characters, or approximately 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(9), “protect personal privacy and maintain confidentiality in accordance with Federal policy and law.” If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

Most HHS Operating Divisions PTA/PIA processes are inclusive of some agency data. Systems housing geospatial data are covered by a current ATO and appropriately protected in accordance with applicable laws and regulations.

USC 43 Sec 2808(a)(10) Declassified Data

<b>GDA Requirement</b>	Participate in determining, when applicable, whether declassified data can contribute to and become a part of the National Spatial Data Infrastructure
<b>Agency Self-Assessment</b>	<b>Meets Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes or Not applicable to Question 10.1</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 10.1</li> </ul> </li> </ul>

*Table 10. GDA USC 43 Sec 2808(a)(10) Declassified Data Requirement and Self-Assessment Criteria.*

**10.1 If your agency handles declassified geospatial datasets, does it have a process to review these declassified datasets for inclusion in the NSDI?**

**Clarifying text:** Sharing standards-based data on the Internet using standard protocols and formats makes it part of the NSDI.

- Yes. The agency has a process to review declassified datasets for inclusion in the NSDI.

**10.2 Brief Summary (Limit 3000 characters, or approximately 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(10), “participate in determining, when applicable, whether declassified data can contribute to and become a part of the National Spatial Data Infrastructure.” If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

The HHS Operating Divisions which handle classified data have processes to review declassified datasets for inclusion in the NSDI.

USC 43 Sec 2808(a)(11) Non-Duplication of Data

<b>GDA Requirement</b>	Search all sources, including the GeoPlatform, to determine if existing Federal, State, local, or private geospatial data meets the needs of the covered agency before expending funds for geospatial data collection
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 11.1 <b>or</b></li> <li>○ Yes to Questions 11.1 and 11.1.a and all agency appropriate responses to Question 11.1.b</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 11.1 and Partial or No to Question 11.1.a and agency appropriate responses to Question 11.1.b</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 11.1 and No to Question 11.1.a and <i>No additional assessments are done</i> selected for Question 11.1.b</li> </ul> </li> </ul>

**Table 11. GDA USC 43 Sec 2808(a)(11) Non-Duplication of Data Requirement and Self-Assessment Criteria.**

**11.1 Has your agency expended funds for geospatial data collection for the reporting period?**

**Clarifying text:** “Expended funds” may include grant distribution, agency collection, or data procurement.

- Yes

**11.1.a If yes to Question 11.1, and as per [OMB Circular A-11 Guidance](#) (Section 25, Page 3), has your agency searched the [GeoPlatform](#) prior to making planned geospatial data investments to determine if an existing source for that data is available and meets mission requirements?**

- Partial. Agency has searched GeoPlatform prior to some geospatial data investments.

**11.1.b If yes to Question 11.1, has your agency searched other sources to determine if data necessary to meet requirements already exists (either within or outside the agency) before collecting or acquiring new data? (Select all that apply)**

- Market research
- Cross-agency or partner coordination
- Expert consultation
- Database search
- Agency follows a documented process or official policy

**11.1.c Optional Question: If yes to Question 11.1, would the agency like to provide up to 5 examples of cases where the agency did find existing data that met its needs or partnered on a joint data acquisition?**

- Yes

Title	Description
IHS - VA Homelessness program	The IHS collaborated with the VA to integrate Urban Indian Healthcare facilities and Veterans Health Administration (VHA) medical facilities into one map application for Indian veterans that experience homelessness to locate resource facilities. Link <a href="https://www.ihs.gov/vaihsmou/findhealthcaremap/">https://www.ihs.gov/vaihsmou/findhealthcaremap/</a>

*Table 11.a. Examples of Successful Data Acquisition Searches and/or Coordination.*

**11.2 Brief Summary (Limit 3000 characters, or approximately 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(11), "Search all sources, including the GeoPlatform, to determine if existing Federal, State, local, or private geospatial data meets the needs of the covered agency before expending funds for geospatial data collection." If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

Most HHS Operating Divisions have expended funds for geospatial data collection for the reporting period. Prior to making planned geospatial data investments, HHS Operating Divisions search GeoPlatform per OMB Circular A-11 Guidance (Section 25, Page 3) to determine if the data necessary to meet requirements already exists.

USC 43 Sec 2808(a)(12) Ensuring High-Quality Data

<b>GDA Requirement</b>	To the maximum extent practicable, ensure that a person receiving Federal funds for geospatial data collection provides high-quality data
<b>Agency Self-Assessment</b>	<b>Meets Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 12.1 <b>or</b></li> <li>○ Yes to Question 12.1 and <b>all</b> appropriate selections for Question 12.2</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 12.1 and <b>some</b> agency appropriate selections for Question 12.2</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 12.1 and <i>No official documented Quality Assurance/Quality Control (QA/QC) process is in place for acquisition of geospatial data selected for Question 12.2</i></li> </ul> </li> </ul>

**Table 12. GDA USC 43 Sec 2808(a)(12) Ensuring High-Quality Data Requirement and Self-Assessment Criteria.**

**12.1 Has your agency expended funds for geospatial data collection from non-federal sources during the reporting period?**

**Clarifying text:** The requirement for “a person receiving Federal funds” has been interpreted to mean non-federal organizations or corporations who are, for example, contract or grant recipients.

- Yes

**12.1.a If yes to Question 12.1, what methods does your agency employ to ensure quality in geospatial data collected from non-federal sources?** (Check all that apply and use the “other” textbox to briefly describe additional methods used to ensure quality for geospatial data acquired by procurement or grant process)

- Evaluate data for quality prior to any acquisition.
- Geospatial data quality standards are specified in contract documents.
- Independent verification and validation (IV&V).
- Staff data experts review and approve geospatial data deliverables.
- Data standards are enforced through automated processes such as database controls or script tools.
- The agency acquires data from another federal agency that is responsible for QA/QC.

**12.2 Brief Summary (Limit 3000 characters, or approximately 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(12), "to the maximum extent practicable, ensure that a person receiving Federal funds for geospatial data collection provides high-quality data." If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

The majority of HHS Operating Divisions have expended funds for geospatial data collection from non-federal sources during the reporting period.



USC 43 Sec 2808(a)(13) Point of Contact

<b>GDA Requirement</b>	Appoint a contact to coordinate with the lead covered agencies for collection, acquisition, maintenance, and dissemination of the National Geospatial Data Asset data themes used by the covered agency
<b>Agency Self-Assessment</b>	<b>Meets Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 13.1</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 13.1</li> </ul> </li> </ul>

*Table 13. GDA USC 43 Sec 2808(a)(13) Point of Contact Requirement and Self-Assessment Criteria.*

**13.1 Has your agency appointed a POC to coordinate with the lead covered agencies for collection, acquisition, maintenance, and dissemination of the NGDA data themes used by the covered agency?**

**Clarifying text:** According to the GDA Definitions, USC 43 Sec 2801(12), NGDA data theme means “the NGDA core geospatial datasets including electronic records and coordinates relating to a topic or subject designated under USC 43 Sec 2805.” Also, OMB Circular A-16 may include additional guidance on covered agency responsibilities for theme coordination.

- Yes. An agency POC has been appointed.

**13.2 Brief Summary (Limit 3000 characters, or approximately 450 words): Please provide a brief description of agency actions and accomplishments in FY2023 in addressing USC 43 Sec 2808(a)(13), "appoint a contact to coordinate with the lead covered agencies for collection, acquisition, maintenance, and dissemination of the National Geospatial Data Asset data themes used by the covered agency." If your FY2023 rating has changed since FY2022, please include details on how and why the rating changed.**

Both Dr. Karl Mathias, the HHS Chief Information Officer, and Nikolas Ipiotis, the Acting HHS Chief Data Officer departed HHS in December 2023. Jennifer Wendell, Acting HHS Chief Information Officer, has been appointed as the HHS Chief Geographic Information Officer (GIO). Ms. Wendell delegated her GIO responsibilities to the Acting HHS Chief Data Officer, Dr. Mahnaz Dean. In addition, the Data Governance Board (DGB) is leading the collection, acquisition, maintenance, and dissemination of the National Geospatial Data Asset data themes used by HHS. Additionally, the Office of the Chief Data Officer published a department-wide Geospatial Data Strategy in December 2023. We also are in process of implementing a portal that will serve as the inventory of all HHS Geospatial datasets.

## Appendix A: Survey Picklists

This appendix provides the full set of choices presented in the self-assessment survey for questions that have multiple response options, including those that are “select all that apply.”

### **2.1 Does your agency ensure that all eligible geospatial data is managed so it can be readily shared and is it provided in open formats, as appropriate? (This will include agency open government and transparency guidelines.) (Select all that apply)**

- Data is currently openly shared to the public.
- Data is currently shared on a limited basis with federal partners.
- Data is currently shared on a limited basis with non-federal users.
- No data is currently shared to other federal agencies or non-federal users. (Note: For some agencies, this may be an appropriate response).

### **2.2 Does your agency disseminate eligible geospatial data in a way that can be readily shared in open formats (for example, using machine readable formats or searchable metadata)?**

- Yes, eligible geospatial data and metadata are shared in open formats.
- Eligible geospatial data are shared in open formats, but not all metadata is open format.
- Eligible geospatial metadata are shared in open formats, but not all data are open format.
- Some geospatial data, and its metadata, is shared in open formats.
- No geospatial data is shared, or geospatial data is only shared in proprietary formats. (Note: For some agencies, this may be an appropriate response.)

### **2.3 Are maintenance processes in place to ensure other federal agencies and non-federal users have access to the most recent data in addition to data and metadata updates and corrections?**

- Yes, agency policies exist to ensure all programs implement data maintenance processes.
- Some programs/datasets have maintenance processes in place.
- Maintenance processes are in development or are partially implemented.
- No maintenance processes are currently in place or in development.

### **3.1.a If yes or partial to Question 3.1, in what ways does your agency promote data integration from multiple sources? (Select all that apply and use the “other” textbox to briefly describe additional methods)**

- Hosts a data sharing infrastructure where partners and/or data users can share and discover data.
- Develops a data integration toolkit or APIs to promote integration of agency data in external applications.
- Develops data integration processes to promote integration of non-agency data into applications.
- Provides data in openly standardized readable formats or as downloadable file packages.

- Develops data sharing agreements or Memoranda Of Agreement (MOA) with public and private partners for ingest or sharing of data.
- Other (Textbox provided)

**6.1. Are defined data standards used in collecting, processing, and/or disseminating the data being addressed? (Select all that apply)**

- Yes. Eligible geospatial datasets use FGDC endorsed data standards under OMB A-16, 2002, or more current versions of those endorsed standards.
- Yes. Eligible geospatial datasets use data standards that comply with OMB Circular A-119.
- Partial. Some eligible geospatial datasets use FGDC-endorsed data standards.
- Partial. Some eligible geospatial datasets use data standards that comply with OMB Circular A-119.
- No. Eligible agency geospatial datasets do not use FGDC-endorsed data standards or standards that comply with OMB Circular A-119.

**6.2 Does your agency maintain its metadata in an FGDC-endorsed, or ISO-compliant geospatial metadata standard format? (Select all that apply)**

**Clarifying text:** Question does not include legacy datasets that are static and no longer modified or otherwise managed. Also, see the list of endorsed FGDC-endorsed standards

<https://www.fgdc.gov/standards/>.

- Yes. Eligible non-legacy datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.
- Partial. Some eligible datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.
- Partial. Some eligible datasets have FGDC-endorsed or current ISO-compliant geospatial metadata, that needs to be reviewed or refreshed.
- No. Agency datasets do not use FGDC-endorsed or current ISO-compliant geospatial metadata standards.

**7.1 Are processes in place to ensure that, when appropriate, partners and stakeholders have visibility into agency geospatial data management activities (e.g., collection, integration, maintenance, dissemination and preservation)?**

- Yes. There are processes in place for all agency mission areas.
- Yes. There are processes in place, but some mission areas do not have requirements for geospatial data management partnerships.
- Partial. There are processes in place for some agency mission areas, but not others.
- No. There are no processes in place. (Skip to question 7.3)

**7.1.a If yes or partial to Question 7.1, which external partners and stakeholders are involved in data management activities?** (Select all that apply and use the “other” textbox to add additional partners or stakeholders)

**Clarifying text:** The selection list provided was taken from the GDA, USC 43 Sec 2803(b)(C).

- Other federal agencies
- States
- Local governments
- Regional governments
- Tribal governments
- Private sector entities
- Geospatial information user industries
- Professional associations
- Scholarly associations
- Nonprofit organizations
- Academia
- Licensed geospatial data acquisition professionals
- Other (Textbox provided)

**7.1.b If yes or partial to Question 7.1, what processes are in place to ensure partners and stakeholders are involved?** (Select all that apply and use the “other” textbox to add additional processes)

**Clarifying text:** When answering this question think about activities such as using surveys, listening sessions, Request for Information, booths at stakeholder conferences.

- Market research
- Partnership outreach activities
- Expert consultations
- Advisory committee(s)
- Working group(s) and sub-committee(s)
- Steering committees
- Councils
- Engage with trade groups or communities of interest
- Feedback opportunities (e.g., contact email/phone, call center)
- Federal Register Notices
- Memoranda of Understanding
- Use other public comment processes
- Other (Textbox provided)

**7.2 Does your agency build upon existing non-federal geospatial data?**

- Yes. Agency builds upon existing non-federal geospatial data to the extent possible.
- Not applicable: no existing applicable data exists.
- Partial. Agency builds upon some existing non-federal geospatial data.
- No. Agency does not build upon existing non-federal geospatial data.

**7.2.a If yes or partial to Question 7.2, what ways do you build upon existing non-federal geospatial data?** (Select all that apply and use the “other” textbox to add additional ways)

- Procurement/acquisition/grant
- Research partnership
- Cooperative data collection or crowd sourcing
- Mission assignments or Interagency Agreements
- MOAs/data sharing agreements
- Other (Textbox provided)

**8.3 Does your agency leverage geospatial information to enhance reporting to the public or to Congress?**

- Yes. Agency broadly leverages geospatial information to enhance public and Congressional reporting.
- Not applicable: Agency does not leverage geospatial information in published reports.
- Partial. Agency leverages some geospatial information to enhance either public or Congressional reporting.
- No. Agency does not leverage geospatial information to enhance either public or Congressional reporting.

**8.3.a If yes or partial, for which of these audiences does your agency leverage geospatial information to enhance reporting?** (Select all that apply)

- Public reports (e.g., fact sheets, data briefs, Annual reports, other published agency reports).
- Congressional reports.
- Internal agency and leadership plans, reports and communications.
- Not applicable: agency does not leverage geospatial information in published reports.

**11.3 If yes to Question 11.1, has your agency searched other sources to determine if data necessary to meet requirements already exists (either within or outside the agency) before collecting or acquiring new data?** (Select all that apply and use the “other” textbox to briefly describe additional sources)

- Market research
- Cross-agency or partner coordination
- Expert consultation
- Database search
- Agency follows a documented process or official policy
- No additional assessments are done
- Other (Textbox provided)

**12.2 If yes to Question 12.1, what methods does your agency employ to ensure quality in geospatial data collected from non-federal sources?**

(Check all that apply and use the “other” textbox to briefly describe additional methods used to ensure quality for geospatial data acquired by procurement or grant process)

- Evaluate data for quality prior to any acquisition.
- Geospatial data quality standards are specified in contract documents.
- Independent verification and validation (IV&V).
- Staff data experts review and approve geospatial data deliverables.
- Data standards are enforced through automated processes such as database controls or script tools.
- The agency acquires data from another federal agency that is responsible for QA/QC.
- No official documented QA/QC process is in place for acquisition of geospatial data.
- Other (Textbox provided)