



**2022 Covered Agency Annual Report
and Self-Assessment**

for

Department of Homeland Security

**Geospatial Data Act of 2018
Section USC 43 Sec 2808(a) Requirements**

February 4, 2023



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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 agency¹ 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 Homeland Security’s annual report to the FGDC covering Fiscal Year 2022, October 1, 2021 through September 30, 2022. 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 Homeland Security 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,² information relates to all geospatial datasets owned or managed by the Department of Homeland Security 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, using the survey, as part of the agency’s submission. If provided, the document may include highlights and examples that can supplement the FGDC report to Congress, support the feedback process with the NGAC, or provide context to Office of the Inspector General (OIG) findings.

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

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

Self-Assessment for Department of Homeland Security

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

GDA Requirement	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
Agency Self-Assessment	Meets Expectations
KEY to Self-Assessment	<ul style="list-style-type: none"> • Meets expectations = <ul style="list-style-type: none"> ○ Yes to Question 1.1 and 1.2 • Made progress toward expectations = <ul style="list-style-type: none"> ○ Yes to Question 1.1 and No to Question 1.2 • Fails to meet expectations = <ul style="list-style-type: none"> ○ No to Question 1.1 and 1.2

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://www.dhs.gov/sites/default/files/2022-01/DHS%20Geospatial%20Strategy%20Addendum%20to%20EDS.pdf>

1.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(1), "Prepare and implement a strategy for advancing geospatial data activities appropriate to the agency's mission." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

A geospatial strategy was developed and circulated among Department of Homeland Security (DHS) Components for feedback and edits. It was then approved by DHS leadership and published for public

viewing on DHS.gov. Additionally, some Components are completing additional data assessment work. For example, Federal Law Enforcement Training Center's (FLETC) Geographic Information Systems (GIS) assessment was completed in FY2023 to address the needs and identify the gaps.

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

GDA Requirement	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.
Agency Self-Assessment	Made Progress Toward Expectations
KEY to Self-Assessment	<ul style="list-style-type: none"> • Meets expectations = <ul style="list-style-type: none"> ○ <i>Data is currently shared</i> selections for all agency appropriate parties for Question 2.1 and Yes to Questions 2.2 and 2.3 • Made progress toward expectations = <ul style="list-style-type: none"> ○ <i>Data is currently shared</i> selections for some appropriate parties for Question 2.1, or Question 2.2 and 2.3 have a mix of answers • Fails to meet expectations = <ul style="list-style-type: none"> ○ No to Questions 2.1, 2.2, and 2.3

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)? (Select all that apply)

- Yes, eligible geospatial data and metadata are 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? (Select all that apply)

- 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
Transportation Security Administration (TSA) Geospatial Data Catalog	To date, DHS has released 6 of TSA's geospatial datasets to data.gov for public sharing. To date, TSA has submitted 18 geospatial datasets to Mobius for sharing with other DHS Components. TSA has an enterprise governance structure and high-level policy in place to support maintenance processes. TSA is planning to establish an enterprise data catalog. More detailed policy/procedures and governance structure are needed to enforce across all programs; pending due to lack of resources/funding.
FLETC's Asset Location and Environmental Information	FLETC is adjusting or creating shapefiles for existing and new Real Property assets. FLETC is reviewing maps for wetlands and forest areas.
Federal Emergency Management Agency (FEMA) Geospatial Resource Center	This secure, cloud-based environment allows emergency management stakeholders to easily locate, access, and share current and historic disaster-related maps and geospatial data produced by FEMA and other governmental, private sector and volunteer agencies including Health and Human Services (HHS), Census Bureau, National Aeronautics and Space Administration (NASA), etc. within one easy-to-use landing page that links to hazard-specific pages and topically-aligned product and data galleries.
FEMA Imagery Data Management System	FEMA has matured its secure, cloud-based repository for hosting or re-hosting unclassified, disaster-specific imagery, including aerial and satellite images, image services, and imagery-derived products, thereby making remotely-sensed data more readily discoverable by and accessible to collaborative groups, trusted disaster response and recovery managers, and organizations involved in emergency management.

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

2.5 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 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 the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

DHS leverages federal and open standards, where possible, in the creation, maintenance, sharing, and archiving of geospatial content. In 2016, DHS issued Instruction 034-01-001 which "...provides for the efficient use of geospatial information and the prevention of unnecessary duplication by leveraging existing geospatial information assets as appropriate and feasible." This instruction also includes requirements for all DHS Components to "...coordinate the publication of approved unclassified information into the federal geospatial platform for accessible search and discovery in support of Data.Gov." DHS is working on priority activities such as coordinating data for all Real Property assets in the quarterly Real Property Data Warehouse (RPDW) submission and hosting daily coordination calls with federal, state, local, tribal, and territorial analysts to establish ad-hoc collaborative groups with engaged partners to ensure relevant geospatial data and information is widely shared, yet appropriately managed.

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

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

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?

- Partial. The agency has taken appropriate action to promote data integration from some sources.

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 API) 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 2000 characters or 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(3), "promote the integration of geospatial data from all sources." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

Where applicable, DHS ensures geospatial content and/or solutions are interoperable, discoverable, and leverages federal or open standards. DHS also leverages internal information technology acquisition review procedures to ensure geospatial solutions, content, and systems comply with agency controlled and approved data and technical reference models. For example, TSA holds quarterly Geospatial Community of Practice meetings with representatives from multiple TSA Offices. This forum promotes the integration of data from multiple sources, raises awareness about the availability of datasets, and facilitates information sharing. Geospatial Management Office (GMO) and TSA document Information Sharing and Access Agreements (ISAAs) for sharing data with external partners.

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

GDA Requirement	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
Agency Self-Assessment	Made Progress Toward Expectations
KEY to Self-Assessment	<ul style="list-style-type: none"> • Meets expectations = <ul style="list-style-type: none"> ○ Yes to Questions 4.1 and 4.2 • Made progress toward expectations = <ul style="list-style-type: none"> ○ Yes or Partial to Questions 4.1 and 4.2 or ○ No to either 4.1 or 4.2 • Fails to meet expectations = <ul style="list-style-type: none"> ○ No to Questions 4.1 and 4.2

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 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 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 the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

DHS follows federal records retention requirements and schedules, where available, for geospatial information that is created, acquired, and/or assimilated under its purview.

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

GDA Requirement	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
Agency Self-Assessment	Made Progress Toward Expectations
KEY to Self-Assessment	<ul style="list-style-type: none"> • Meets expectations = <ul style="list-style-type: none"> ○ Yes to Question 5.1 • Made progress toward expectations = <ul style="list-style-type: none"> ○ Partial to Question 5.1 • Fails to meet expectations = <ul style="list-style-type: none"> ○ No to Question 5.1

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.)

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 2-page PDF in Appendix B (if provided).

- Partial

5.2 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 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 the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.

Existing investments in geospatial solutions or content are allocated towards fulfilling DHS mission space requirements only. Additional DHS resources that might be required for the fulfillment of the Geospatial Data Act will be submitted for consideration as part of the normal budgetary request process. In response to the 2022 GDA Office of the Inspector General (OIG) Audit, DHS Office of the Chief Information Officer (OCIO) has committed to conducting a geospatial workforce assessment. Resourcing continues to be a problem across the Agency. For example, the DHS GMO Geospatial budget was cut by \$2.2 million for FY2023.

Many Components, such as TSA, do not have dedicated resources or funding for the geospatial program, but identify part time resources to respond to specific tasks and data calls, when needed. For example,

FLETC has indicated that the GIS assessment identified gaps in the program for sharing information. There is one full time equivalent (FTE) working on the data for Real Property Assets and a part-time FTE working on the environmental layers. Additional resourcing to meet the USC 43 is necessary. Additionally, FEMA reports that staffing and resource shortfalls contribute to the Agency's inability to fully meet expectations regarding effective geospatial data collection, production, and stewardship, but FEMA continues to request and receive incremental programmatic funding and resources to enhance its data management and analytical capabilities.

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

GDA Requirement	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
Agency Self-Assessment	Made Progress Toward Expectations
KEY to Self-Assessment	<ul style="list-style-type: none"> • Meets expectations = <ul style="list-style-type: none"> ○ Yes to Questions 6.1, 6.2 and 6.3 • Made progress toward expectations = <ul style="list-style-type: none"> ○ Any other combination of Yes, No, and Partial to Questions 6.1, 6.2, and 6.3 • Fails to meet expectations = <ul style="list-style-type: none"> ○ No to Questions 6.1, 6.2, and 6.3

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

Clarifying Text:

- ✓ Reestablishment of an active, resourced, and sustainable standards process with supporting governance is currently under consideration by the FGDC (Committee).
- ✓ The FGDC has not yet established any standards under the GDA, USC 43 Sec 2806.
- ✓ 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)

- 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.

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/>.

- Partial. Some eligible datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.

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.”

- Yes. Metadata for all public datasets are available via GeoPlatform.gov.

6.4 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 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 the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.

DHS follows federal and open standards for many of its geospatial investments, solutions, assets, data, and metadata. DHS leverages internal information technology acquisition reviews, enterprise contract vehicles, as well as management directives and instructions to enforce this agency priority. Unclassified data, if authorized for public release, is made available on the GeoPlatform or agency hosting solutions, as appropriate.

Metadata for shareable data assets are registered with GeoPlatform.gov or Data.gov. Components have identified some barriers to reaching the required data standards. For example, TSA maintains enterprise data standards that include FGDC-endorsed data standards; however, TSA does not have resources or funding to operationalize the governance structure that would enforce the use/compliance with the standards. Additionally, FLETC has struggled to make metadata openly available due to licensing and staffing restrictions.

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

GDA Requirement	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
Agency Self-Assessment	Made Progress Toward Expectations
KEY to Self-Assessment	<ul style="list-style-type: none"> • Meets expectations = <ul style="list-style-type: none"> ○ Yes to Questions 7.1 and Yes or Not applicable to Question 7.2 • Made progress toward expectations = <ul style="list-style-type: none"> ○ Any combination of Yes, Not applicable, Partial, or No to Questions 7.1 and 7.2 • Fails to meet expectations = <ul style="list-style-type: none"> ○ No to Questions 7.1 and 7.2

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

7.1 Are there 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)? (Select all that apply)

- Partial. There are processes in place for some agency mission areas, but not others.

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
- Nonprofit associations
- Territorial governments

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
- Use other public comment process

7.2 Does your agency build upon existing non-federal geospatial data? (Select all that apply)

- Partial. Agency builds upon some 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)

- 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 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 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 the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.

DHS is a co-sponsor and leader in the Homeland Infrastructure Foundation Level Data (HIFLD) Subcommittee under FGDC. Through this formal governance body, DHS partners with other Federal agencies, state, local, tribal, territorial, non-profit, and some private sector partners to develop and share Homeland Security Infrastructure Program (HSIP) data. HSIP is a compilation of over 600 geospatial data sets that represents several themes across the NSDI. It is widely used and shared to support homeland security and homeland defense enterprise operations. Portions of HSIP – named HIFLD Open – is publicly available via the geospatial platform.

In addition to leveraging HSIP geospatial datasets via the DHS-led HIFLD Subcommittee, in 2022, FEMA continued to acquire significant quantities of remotely-sensed data (aerial imagery) via Mission Assignment of federal partners, including the U.S. Air Force Auxiliary (Civil Air Patrol), National Oceanic and Atmospheric Administration (NOAA), and Environmental Protection Agency (EPA) and also leveraged the discounted buying power of National Geospatial-Intelligence Agency and National Reconnaissance Office study and standing contracts for satellite imagery.

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

GDA Requirement	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;
Agency Self-Assessment	Made Progress Toward Expectations
KEY to Self-Assessment	<ul style="list-style-type: none"> • Meets expectations = <ul style="list-style-type: none"> ○ Yes to 8.1, 8.2 and 8.3 • Made progress toward expectations = <ul style="list-style-type: none"> ○ Any combination of Yes, Partial and No to Questions 8.1, 8.2 and 8.3 • Fails to meet expectations = <ul style="list-style-type: none"> ○ No to 8.1, 8.2 and 8.3

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?

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 – like the COVID-19 case tracker
- ✓ Outreach/communications for user feedback
- ✓ Making data open, standardized, or machine readable
- Partial

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?

- Partial. Agency leverages geospatial information in operations improvements or decision-making in some programs.

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? (Select all that apply)

- 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
Post Hurricane Ian landfall, FEMA used geospatial data, data modeling, and imagery-derived damage analyses to innovate and expedite the delivery of millions of dollars in survivor assistance via the Individuals and Households Program (IHP), and faster than had even been done in Florida before, thereby reinforcing the need for the Agency to employ geospatial data regularly as it seeks to more rapidly and equitably deliver financial assistance to disaster survivors.	https://www.ornl.gov/news/deep-learning-underlies-geographic-dataset-used-hurricane-response
FEMA geospatial analysts frequently leverage geospatial data and information and provide GIS-derived decision support to FEMA and national leaders. 2022 was not different.	https://www.flickr.com/photos/whitehouse/51643801772/

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

8.5 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 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 the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.

The collection and use of geospatial data are especially critical for the Department of Homeland Security to support its diverse range of missions encompassing law enforcement, border protection, emergency management, critical infrastructure protection, and national operations.

FEMA Example: Post-hurricane, the Federal Emergency Management Agency (FEMA) used geospatial data to assist in response and recovery efforts.

CBP Example: With more than 60,000 employees, U.S. Customs and Border Protection (CBP) is one of the world's largest law enforcement organizations and is charged with keeping terrorists and their weapons out of the U.S. while facilitating lawful international travel and trade. As the United States' first unified border entity, CBP takes a comprehensive approach to border management and control, combining customs, immigration, border security, and agricultural protection into one coordinated and supportive activity.

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

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

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 would be 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.

- Yes. The agency’s PTA/PIA processes are inclusive of all 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)?

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

9.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(9), “protect personal privacy and maintain confidentiality in accordance with Federal policy and law.” If the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.

DHS follows internal privacy threshold analysis, impact assessments as well as civil rights/civil liberties procedures to ensure geospatial investments, solutions, systems and data to protect personal privacy and maintain confidentiality in accordance with Federal policy and law.

Science & Technology Privacy Office completed 12 PTAs in FY21 that involved geospatial-related activities and data as part of our effort in addressing U.S.C. 43 Sec. 2808(a)(9), "protect privacy and maintain confidentiality in accordance with Federal policy and law." While most Components are operating in an ATO'd system, FEMA Response Geospatial Office continues coordination with the DHS Privacy Office to complete a requisite Privacy Threshold Assessment for the FEMA ArcGIS Online environment which it uses to share data with trusted emergency management stakeholders, and when publicly-releasable data, with the public.

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

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

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.

- No. The agency does not have a process to review declassified datasets for inclusion in the NSDI.

10.2 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 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 the assessment is “fails to meet expectations,” include the actions your agency is taking to achieve the “meets expectations” level.

DHS has processes to declassify datasets, however federal guidance does not exist for how to evaluate datasets for inclusion in NSDI.

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

GDA Requirement	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
Agency Self-Assessment	Made Progress Toward Expectations
KEY to Self-Assessment	<ul style="list-style-type: none"> • Meets expectations = <ul style="list-style-type: none"> ○ No to Question 11.1 or ○ Yes to Questions 11.1 and 11.2 and all agency appropriate responses to Question 11.3 • Made progress toward expectations = <ul style="list-style-type: none"> ○ Yes to Question 11.1 and Partial or No to Question 11.2 and agency appropriate responses to Question 11.3 • Fails to meet expectations = <ul style="list-style-type: none"> ○ Yes to Question 11.1 and No to Question 11.2 and <i>No additional assessments are done</i> selected for Question 11.3

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 procurement of data.

- Yes

11.2 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.

11.3 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)

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

11.4 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
Building Outlines Partnership	FEMA continued in 2022 to partner with Oak Ridge National Lab (Department of Energy) for the update and revision to the USA Structure national building outline dataset, a multi-year project initially funded via a partnership between FEMA and the DHS Office of Science and Technology.
SAR Partnership	In 2022, FEMA and DHS Office of Science and Technology continued their partnership with In-Q-Tel to assess the viability of commercially available Synthetic Aperture RADAR (SAR) datasets and analytical products to aid emergency management and disaster response and recovery efforts.

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

11.5 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC43 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 the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

DHS management directives, instructions, and other internal acquisition controls are in place to ensure research is conducted on the geospatial platform, or other geospatial information repositories, prior to procurement of any new data.

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

GDA Requirement	To the maximum extent practicable, ensure that a person receiving Federal funds for geospatial data collection provides high-quality data
Agency Self-Assessment	Meets Expectations
KEY to Self-Assessment	<ul style="list-style-type: none"> • Meets expectations = <ul style="list-style-type: none"> ○ No to Question 12.1 or ○ Yes to Question 12.1 and all appropriate selections for Question 12.2 • Made progress toward expectations = <ul style="list-style-type: none"> ○ Yes to Question 12.1 and some agency appropriate selections for Question 12.2 • Fails to meet expectations = <ul style="list-style-type: none"> ○ 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>

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

12.2 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.

12.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 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 the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

DHS management directives, instructions, and other internal acquisition controls are in place to ensure geospatial investments – including data - are of the highest quality. Industry practices such as independent verification and validation are often in place with acquisitions of geospatial systems to meet respective mission requirements.

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

GDA Requirement	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
Agency Self-Assessment	Meets Expectations
KEY to Self-Assessment	<ul style="list-style-type: none"> • Meets expectations = <ul style="list-style-type: none"> ○ Yes to Question 13.1 • Fails to meet expectations = <ul style="list-style-type: none"> ○ No to Question 13.1

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 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 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 the assessment is “fails to meet expectations,” include the actions your agency is taking to achieve the “meets expectations” level.

In 2019, then DHS Secretary Wolfe appointed a departmental Geospatial Information Officer (GIO), under the Office of the Chief Information Officer, as required by Public Law 108-458. The GIO reports to the Chief Information Officer, who under Office of Management and Budget Circular A-16 serves as the Senior Agency Official for Geospatial Information.

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.

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 there 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
- 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)