

Soils Theme Strategic Plan 2024 - 2026

Geospatial Data Act of 2018 Section USC 43 Sec 2805(b)(3) Requirements

September 30, 2024



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Introduction

This Soils Theme Strategic Plan (henceforth Plan), developed in fiscal year (FY) 2024, spans three years, FY 2025 - FY 2027. The Plan outlines a strategy to achieve progress toward meeting Section 2805 of the Geospatial Data Act of 2018¹ (GDA). The Plan derives its origin from Sec. 2805 (b)(3)(B) to "provide leadership and facilitate the development and implementation of a plan for nationwide population of the National Geospatial Data Asset data theme." The Plan is organized by goals, addressing major subsections of Sec. 2805, objectives supporting the goals, and actions to be taken over the lifecycle of the Plan to achieve progress.² In addition to meeting GDA requirements, these goals and objectives align with the National Spatial Data Infrastructure (NSDI) Strategic Plan³ as required by Section 2805(b)(3)(C). A crosswalk of the GDA and the NSDI Strategic Plan can be found in Appendix A of this document. For each FY covered by the Plan, the Theme will generate an annual performance report, as required by the GDA, to inform on progress in achieving the Plan.

Background

The Federal Geographic Data Committee (FGDC), henceforth Committee, is composed of both covered and non-covered agencies as defined by the GDA. For each National Geospatial Data Asset (NGDA) data theme (henceforth theme), the Committee designates one or more covered agencies as lead covered agencies (LCA) for the theme. As called for in the OMB Circular A-16 Supplemental Guidance, the lead covered agencies designate theme leads to oversee the management of the theme. The lead covered agencies have taken a coordinated approach to addressing GDA section 2805.

Starting in late FY 2022 and continuing into FY 2023, lead covered agencies collaborated on a common approach to improving annual performance reporting. The result is a Theme Strategic Plan template for use by all themes based on a common set of goals and objectives to meet the GDA requirements. This approach ensures the application of a common set of metrics and allows the FGDC Office of the Secretariat (FGDC OS) to provide a consistent summary of individual and collective progress made by all

Sec 2805 (b)(3)(E)(ii)(I): (ii) submit to the Committee—

(I) a performance report, at least annually, that documents the activities relating to and implementation of the National Geospatial Data Asset data theme, including progress in achieving the requirements under subparagraphs (A), (B), (C), and (D).

¹ https://www.fgdc.gov/gda/43-usc-ch-46-geospatial-data-geospatial-data-act.pdf#page=8

² Sec 2802(c)(A)(i) an evaluation of the progress of each lead covered agency in achieving the requirements under subparagraphs (A), (B), (C), and (D) of section2805(b)(3) of this title; and (ii) a determination of whether, for each of subparagraphs (A), (B), (C), and (D) of section 2805(b)(3) of this title,

each lead covered agency meets expectations, has made progress toward expectations, or fails to meet expectations.

³ https://www.fgdc.gov/nsdi-plan

⁴ https://www.whitehouse.gov/wp-content/uploads/legacy_drupal_files/omb/memoranda/2011/m11-03.pdf. It should be noted that the revised Circular A-16 is currently in development for release by the Office of Management and Budget for use by the FGDC Community. Associated Technical Guidance may be developed by FGDC once the revised Circular is released.

⁵ NSDI Strategic Plan Goal 1.3. Identify common approaches and tools to meet GDA and related planning and reporting requirements.

themes in meeting GDA requirements. Depending on their complexity, themes may expand beyond the common set of goals, objectives, and actions within the template. In subsequent years, within the lifecycle of the Plan, the Natural Resource Conservation Service Soil and Plant Science Division (NRCS SPSD) for the Soils Theme will provide an annual report that includes status on identified actions and demonstrates progress made in achieving the Plan goals and objectives aligned to the GDA requirements.

I. Goal: 2805(b)(3)(E) – Administration of the Theme

The Federal Geographic Data Committee designates National Geospatial Data Asset data themes. ⁶ The FGDC also designates one or more covered agencies as the lead covered agencies for the National Geospatial Data Asset data themes (henceforth the Theme). ⁷ The NRCS SPSD is designated the LCA for the Soils Theme. The NRCS SPSD maintains and publishes the Soils Theme's current NGDAs.

In addition to leading the Soils Theme, the NRCS SPSD provides leadership for the National Cooperative Soil Survey (NCSS) and has designated authority to conduct soil surveys by legislative acts, memorandums, and code of federal regulations (see the NRCS General Manual (GM) Part 430 Section 402.3 for more information). The NCSS is a nationwide partnership of federal, regional, state, and local agencies; private entities; and institutions that cooperatively inventory, investigate, classify, interpret, disseminate, and maintain information about the soils of the United States and its trust territories and commonwealths. The NCSS partners meet annually at state conferences hosted by the NRCS state soil scientists and biannually between national and regional conferences.

A. Objective: 2805(b)(3)(E)(i) – Point of Contact

Lead Covered Agencies shall designate a point of contact within the lead covered agency who shall be responsible for developing, maintaining, coordination relating to, and disseminating data using the GeoPlatform.

GDA Reference

(b) Lead covered agencies

(3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

(E) as part of administering the National Geospatial Data Asset data theme—

(i) designate a point of contact within the lead covered agency who shall be responsible for developing, maintaining, coordination relating to, and disseminating data using the GeoPlatform;

Actions

 Designate a Soil Theme point of contact (POC) within the LCA who is responsible for developing, maintaining, coordinating, and disseminating data using the GeoPlatform.

B. Objective: 2805(b)(3)(E)(ii)(I) – Annual Reporting

The GDA requires "Lead Covered Agencies shall submit a performance report, at least annually, that documents the activities relating to and implementation of the National Geospatial Data Asset data theme, including progress in achieving the requirements under subparagraphs (A), (B), (C), and (D)." To meet this requirement, the Soils Theme will submit an annual performance report based on a template

⁶ Sec 2805(a) the term "National Geospatial Data Asset data theme" means the National Geospatial Data Asset core geospatial datasets (including electronic records and coordinates) relating to a topic or subject designated under section 2805 of this title.

⁷ Sec 2805(b)(1) For each National Geospatial Data Asset data theme, the Committee shall designate one or more covered agencies as the lead covered agencies for the National Geospatial Data Asset data theme.

developed by the Theme Leads which will provide a uniform approach to reporting progress related to the Plan.

GDA Reference

- (b) Lead covered agencies
- (3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

- (E) as part of administering the National Geospatial Data Asset data theme—
- (ii) submit to the Committee—

(I) a performance report, at least annually, that documents the activities relating to and implementation of the National Geospatial Data Asset data theme, including progress in achieving the requirements under subparagraphs (A), (B), (C), and (D); and

Actions

- Submit an annual performance report that documents the progress or obstacles on all the action items outlined in this plan.
- C. Objective: 2805(b)(3)(E)(ii)(II) Annual Report Comments

Lead Covered Agencies shall submit comments, as appropriate, regarding the summary and evaluation of the performance report provided by the Committee under section 2802(c)(12).

GDA Reference

- (b) Lead covered agencies
- (3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

- (E) as part of administering the National Geospatial Data Asset data theme—
- (ii) submit to the Committee—
- (II) comments, as appropriate, regarding the summary and evaluation of the performance report provided by the Committee under section 2802(c)(12) of this title;

Actions

• Submit comments, as appropriate, to the Committee on the annual performance report prepared by the FGDC OS.

II. Goal: 2805(b)(3)(B) – Provide leadership and facilitate the development and implementation of a plan for nationwide population of the National Geospatial Data Asset data theme

The Theme has led the development of this Plan in coordination with the NGDA agencies within the Theme. Over the next three years, the Theme will facilitate the implementation of this Plan through annual performance reporting. Each of the following goals and objectives within this Plan support the nationwide population of the National Geospatial Data Asset data theme.

Soils have been recognized as a critical resource by various groups, including the National Science and Technology Council (NSTC), Food and Agricultural Organization (FAO) of the United Nations, and National Academy of Science Engineering and Medicine. For example, in 2016 the NSTC published a Strategic Plan for Soil Science that identified several challenges, opportunities and priorities. One objective recognized the need to enhance U.S. soil data assets and analytic capabilities as soil information and data concerning soils continues to grow.

Field collection of soil survey information began in 1899 after federal authority was congressionally granted by the Agricultural Appropriations Act of 1896. The value of information about the soil resources of the nation has become increasingly important as land management has intensified over time. The U.S. Department of Agriculture (USDA) acts as the Covered Agency for the Soils Theme while the geospatial data assets within the Soils Theme are managed by the USDA NRCS SPSD.

The NRCS SPSD maintains a large suite of applications, databases, and web services designed to collect, validate, warehouse, and curate official soil survey program information for all areas of the United States and trust territories. Annually, tabular and spatial soil survey information related to the Soils Theme and geospatial data assets are refreshed and updated in a process called the Annual Soils Refresh (ASR). The NRCS SPSD works with partner agencies through the NCSS to coordinate standards related to the development of data distributed within the theme.

A. Objective: 2805(b)(3)(B)(i) – Partnerships

Lead Covered Agencies shall provide leadership and facilitate a plan to develop partnership programs with States, Indian tribes, institutions of higher education, private sector entities, other Federal agencies, and local governments.

GDA Reference

- (b) Lead covered agencies
- (3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

- **(B)** provide leadership and facilitate the development and implementation of a plan for nationwide population of the National Geospatial Data Asset data theme, which shall—
- (i) include developing partnership programs with States, Indian tribes, institutions of higher education, private sector entities, other Federal agencies, and local governments;

Nationally, the Soil Theme partners with several organizations, including the NCSS. The NCSS, as discussed above, includes a diverse range of federal, state, university, and scientific groups. The Federal

Lands Advisory Group (FLAG) operates as a subset of the NCSS and includes the Bureau of Land Management, National Park Service, U. S. Forest Service, U.S. Bureau of Reclamation, Bureau of Indian Affairs, Department of Defense, and U.S. Fish and Wildlife Service. The purpose of FLAG is to coordinate soil and ecological inventory of federal land. Typically, FLAG partners provide funds or other resources to support and prioritize soil survey projects on federal lands, while the NRCS SPSD engages in field mapping and product development. The U.S. Forest Service has staff dedicated to soil resource inventory only in the southwest. Both the NCSS and FLAG meet virtually each quarter and in person annually to discuss issues concerning soil and ecological inventory.

Internationally, the NRCS SPSD also participates in the Global Soil Partnership (GSP), which is an organization hosted by the FAO. The GSP has several technical networks, such as the International Network of Soil Information Institutions (INSII) and Global Soil Laboratory Network (GLOSOLAN). Both the INSII and GLOSOLAN directly contribute to the development of the Global Soil Information System (GLOSIS).

Actions

- Host a biannual national conference, called the NCSS Conference, that will include a discussion
 of the nationwide population of the Soils Theme NGDAs, other significant soil datasets, and the
 development of data standards. See NRCS National Soil Survey Handbook (NSSH) Part 602 for
 details.
- Host four biannual NCSS regional conferences (Western Regional Cooperative Soil Survey Conference, Northeast Regional Cooperative Soil Survey Conference, North Central Regional Cooperative Soil Survey Conference, and Southern Regional Cooperative Soil Survey Conference) that will include discussions of the nationwide population of the Soils Theme, other significant soil datasets, and the development of data standards. See NRCS NSSH Part 602 for details.
- Work with the NRCS state soil scientist within each state who annually hosts an NCSS state
 conference with NCSS partners to solicit feedback on the development of the Soils Theme, other
 significant soil survey datasets, and the development of data standards. See NRCS NSSH Part 602
 for details.
- Ensure a representative of the NRCS SPSD meets annually with FLAG to discuss the nationwide
 population of the Soils Theme, including other significant soil datasets, and the development of
 data standards and to reevaluate any existing, Interagency Handbooks, memorandum of
 understanding (MOU), and assess the need for revised or new MOUs. In addition, FLAG will
 coordinate the development of federal soil training courses and data sharing agreements.
- Ensure a representative of the NRCS SPSD will meet annually with the INSII to discuss the population of the Soils Theme NGDAs.

B. Objective: 2805(b)(3)(B)(ii) and 2805(b)(3)(D) – User Needs

Lead Covered Agencies shall provide leadership and facilitate a plan to meet the needs of users of geospatial data including a process to collect and analyze information from users of NGDA within the Theme and incorporate the needs of those users into strategies related to the NGDA data theme.

GDA Reference

- (b) Lead covered agencies
- (3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

(B) provide leadership and facilitate the development and implementation of a plan for nationwide population of the National Geospatial Data Asset data theme, which shall—

(ii) meet the needs of users of geospatial data;

AND

D) as necessary, collect and analyze information from users of geospatial data within the National Geospatial Data Asset data theme regarding the needs of the users for geospatial data and incorporate the needs of users in strategies relating to the National Geospatial Data Asset data theme;

Actions

- Collect data on web traffic downloads and user requests.
- Aggregate and analyze usage data for trends and insights.
- Publish the trends online.
- Use the trends to help prioritize future NGDA projects.
- Summarize user requests and questions by frequently asked questions, use cases (e.g., real estate, prime farmland, highly erodible land, wetlands), user group (e.g., academia, government, private industry), and geographic information system (GIS) applications (e.g., open source) that are completed by the NRCS SPSD Soils Hotline staff.
- Offer soil data users a subscription to receive news updates and to comment on proposed changes of standards and datasets.
- Capture notable research examples of the NGDA usage in the Soils Theme annual performance report.
- Publish the recommendation from the NCSS Standing Committees. See NSSH Part 602 Subpart B for details.
- Publish requests from FLAG cooperators on the Soils Theme annual performance report.

C. Objective: 2805(b)(3)(B)(iii) – Human and Financial Resources

Lead Covered Agencies shall provide leadership and facilitate a plan to address human and financial resource needs for nationwide population of the NGDA data theme.

GDA Reference

- **(b)** Lead covered agencies
- (3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

(B) provide leadership and facilitate the development and implementation of a plan for nationwide population of the National Geospatial Data Asset data theme, which shall—

(iii) address human and financial resource needs;

Actions

- Review and identify resources needs, including staffing levels and trends, to maintain the soil data and meet users' needs.
- Monitor the volume of requests from the Soils Hotline and identify if more resources are needed to complete every request.

 Document insufficient staffing, funding, or training resources relative to current and projected workloads, particularly as it relates to key positions (e.g., data integrity, new hires) or resources (e.g., cloud computing).

D. Objective: 2805(b)(3)(E)(iii) – Publish Maps or Comparable Graphics Online

Lead Covered Agencies shall publish maps or comparable graphics online showing the extent and status of NGDA data within the Theme.

GDA Reference

- (b) Lead covered agencies
- (3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

(E) as part of administering the National Geospatial Data Asset data theme—

(iii) publish maps or comparable graphics online (in accordance with the mapping conventions specified by the Committee) showing the extent and status of the National Geospatial Data Asset data themes for which the covered agency is a lead covered agency;

Actions

 Prepare maps that show the extent and current status of each NGDA and include them on the Soil Theme Hub website.

E. Objective: 2805(b)(3)(E)(iv) – Provide Access to NGDA Through the GeoPlatform

Lead Covered Agencies shall encourage geospatial data and metadata sources related to the NGDA data theme to provide access through the GeoPlatform.

GDA Reference

- (b) Lead covered agencies
- (3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

(E) as part of administering the National Geospatial Data Asset data theme—

(iv) encourage individuals and entities that are a source of geospatial data or metadata for geospatial data for the National Geospatial Data Asset data theme to provide access to such data through the GeoPlatform;

Actions

- Encourage NGDA dataset managers to include current hyperlinks to the data within the metadata distribution section, so that the data can be easily accessed from the GeoPlatform.
- Document in the LCA annual report any NGDAs that do not have current hyperlinks.

F. Objective: 2805(b)(3)(E)(v) – Coordinate with the GeoPlatform

Lead Covered Agencies shall coordinate with the GeoPlatform as part of administering the NGDA data theme.

GDA Reference

(b) Lead covered agencies

(3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

(E) as part of administering the National Geospatial Data Asset data theme—

(v) coordinate with the GeoPlatform;

Actions

- Ensure the Theme POC updates the GeoPlatform contact list, including changes to NGDA dataset managers and Soil Theme Hub website managers.
- Ensure the Theme POC, NGDA dataset managers, and Soil Theme Hub website managers respond to GeoPlatform requests.
- Document GeoPlatform coordination activities in the FGDC annual report.

G. Objective: 2805(b)(3)(E)(vi) – Publish Proven Geospatial Practices

Lead Covered Agencies shall identify and publish proven practices for the use and application of geospatial data of the LCA as part of administering the NGDA data theme.

GDA Reference

(b) Lead covered agencies

(3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

(E) as part of administering the National Geospatial Data Asset data theme—

(vi) identify and publish proven practices for the use and application of geospatial data of the lead covered agency.

Actions

- Ensure that user guides demonstrate how to operate and properly use the NGDAs on the various GIS software applications on which they are distributed.
- Ensure that the use and access constraints documented in the metadata for each NGDA are appropriate.

III. Goal: 2805(b)(3)(A), (b)(3)(B)(iv) – Metadata and Data Standards

A. Objective: 2805(b)(3)(B)(iv) – Metadata Standards

Lead Covered Agencies shall identify needs related to metadata standards for geospatial data within the NGDA data theme and the GeoPlatform.

GDA Reference

- **(b)** Lead covered agencies
- (3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

(B) provide leadership and facilitate the development and implementation of a plan for nationwide population of the National Geospatial Data Asset data theme, which shall—

(iv) identify needs relating to standards, metadata for geospatial data within the National Geospatial Data Asset data theme, and the GeoPlatform;

Actions

- Review the Soil Theme metadata on GeoPlatform annually to ensure it passes validations and is consistent with the FGDC content standards.
- Review the FGDC Technical Guidance annually and suggest changes, if they are applicable, to the other NGDA Data Themes.
- Develop theme specific metadata guidance where necessary.
- Ensure the metadata posted on the GeoPlatform aligns with the metadata that is included in the NGDA data downloads or web services.

B. Objective: 2805(b)(3)(A)(i); (ii); (iii) – Data Standards

Lead Covered Agencies shall develop a plan to originate and implement needed standards with relevant community and international practices in accordance with Office of Management and Budget Circular A–119, or any successor thereto.

GDA Reference

- **(b)** Lead covered agencies
- (3) Specific responsibilities

To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

(A) provide leadership and facilitate the development and implementation of geospatial data standards for the National Geospatial Data Asset data theme, with a particular emphasis on a data content standard for the National Geospatial Data Asset data theme, including by—

- (i) assessing existing standards;
- (ii) identifying anticipated or needed data standards; and
- (iii) developing a plan to originate and implement needed standards with relevant community and international practices—

Actions

- Review existing geospatial data content standards annually to determine if they include the
 requirements outlined in the FGDC content standard (i.e., FGDC-STD-014.0-2008) and if the
 specified requirements are correctly applied.
 - o Include comparisons to alternative standards if they exist. If existing standards (e.g., international) are not adopted, then a justification will be documented in the proposal.
 - Review and approve modifications to existing standards according to the process outlined in NRCS NSSH Section 600.11.
- Identify geospatial data standard needs by soliciting input from the NCSS Standards Committee and GSP Networks and summarize them in the Soils Theme annual performance report.
- Develop and implement needed standards with relevant community and international practice.
 Summarize the input received from the NCSS Standards Committee and GSP Networks into a plan and post it on the Soil Theme Hub website. Summarize progress made on the plan in the LCA Soils Theme annual performance report. Post NRCS national bulletins relevant to geospatial issues on the Soil Theme web page.
 - Review and approve new standards according to the process outlined in NRCS NSSH Section 600.11.

NGDA Baseline Standards Inventory

In 2021, the Lead Covered Agencies participated in an FGDC conducted NGDA standards inventory. This inventory was the initial action of the FGDC to identify the standards currently in use, or that needed to be removed or replaced, in the FGDC's list of previously endorsed standards. The inventory will be used to inform the changes required in the FGDC approved standards list once the FGDC implements a process to "establish and maintain geospatial data standards" in accordance with the GDA. The standards inventory results and background information are available on the GeoPlatform NGDA Portfolio Standards⁸ page.

⁸ https://ngda-portfolio-community-geoplatform.hub.arcgis.com/pages/standards

Appendix A: National Geospatial Data Asset Data Themes (GDA Sec 2805) and National Spatial Data Infrastructure Strategic Plan Crosswalk

The following is a crosswalk of National Geospatial Data Asset Data Themes (GDA Sec 2805) referenced within this Plan as the GDA relates to the NSDI Strategic Plan.

Goal	GDA Section	NSDI	GDA
1.	2805(b)(3)(E)	1.3, 2.1, 4.1	Goal: Administration of the Theme
I.A.	2805(b)(3)(E)(i)		Objective: Point of Contact
I.B.	2805(b)(3)(E)(ii)(I)	2.1, 4.1	Objective: Annual Reporting
I.C.	2805(b)(3)(E)(ii)(II)	2.1, 4.1	Objective: Annual Report Comments
II.	2805(b)(3)(B)	2.1-2.4, 3.1-	Goal: Provide leadership and facilitate the development
		3.4	and implementation of a plan for nationwide population
			of the National Geospatial Data Asset data theme
II.A.	2805(b)(3)(B)(i)	4.1-4.5	Objective: Partnerships
II.B.	2805(b)(3)(B)(ii),	2.4 3.1, 3.3,	Objective: User Needs
	2805(b)(3)(D)	4.1, 4.2	
II.C.	2805(b)(3)(B)(iii)	4.4	Objective: Human and Financial Resources
II.D.	2805(b)(3)(E)(iii)	2.4, 3.1-3.4	Objective: – Publish Maps or Comparable Graphics Online
II.E.	2805(b)(3)(E)(iv)	2.4, 3.1-3.4	Objective: Provide Access to NGDA Through the
			GeoPlatform
II.F.	2805(b)(3)(E)(v)	3.1	Objective: Coordinate with the GeoPlatform
II.G.	2805(b)(3)(E)(vi)	2.4	Objective: Publish Proven Geospatial Practices
III.	2805(b)(3)(A),	3.4, 4.5	Goal: Data and Metadata Standards
	(b)(3)(B)(iv)		
III.A.	2805(b)(3)(B)(iv)	3.4, 4.5	Objective: Metadata Standards
III.B.	2805(b)(3)(A)(i)-(iii)	3.4, 4.5	Objective: Plan for Standards