



**2021 Lead Covered Agency  
NGDA Theme Annual Performance Report  
and Self-Assessment**  
*for*  
**Cadastre Theme**

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

February 4, 2022



## Table of Contents

Table of Contents .....	i
Introduction.....	1
Executive Summary.....	2
Official Theme Related Information .....	3
NGDA Theme Points of Contact .....	3
NGDA Theme Portfolio Datasets .....	3
Meeting General Responsibilities – USC 43 Sec 2805(b)(2).....	5
Managing Theme-Related Content on GeoPlatform.....	5
A. Geospatial Data Standards.....	6
Meeting Requirements for Geospatial Data Standards.....	6
FY2020 Report Follow up.....	7
Highlighting FGDC Agency Efforts to Support NGDA Data Standards .....	8
B. Nationwide Population of the Data Theme.....	12
Meeting Requirements for Nationwide Population of NGDA Datasets.....	12
FY2020 Report Follow up.....	13
Highlighting Key Examples of FGDC Agency Efforts to Support Plans for Nationwide Population of NGDA Datasets .....	13
C. Establish Goals That Support the NSDI Strategic Plan.....	21
Establishing Common Goals and Priorities Supporting the NSDI and Its Strategic Plan .....	21
Highlighting FGDC Agency Strategies that Support the NSDI and Geospatial Data .....	22
D. Addressing User Needs .....	24
Highlighting FGDC and FGDC Agency Efforts to Meet User Needs .....	24
FY2020 Report Follow up.....	25
Highlighting FGDC and FGDC Agency Efforts to Meet User Needs .....	25
Appendix A: Survey Picklists .....	27
Endnotes.....	29

## 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](#).

The GDA Section 2805(b)(3)(E)(I) requires performance reports to be submitted to the Federal Geographic Data Committee (FGDC) that document “the activities relating to and implementation of the National Geospatial Data Asset [NGDA] data theme, including progress in achieving the requirements under subparagraphs (A), (B), (C), and (D)” of Section 2805(b)(3).

This 2021 Lead Covered Agency NGDA Theme Annual Performance Report (LCA NGDA Theme Report) covers the period of October 1, 2020 through Fiscal Year (FY) 2021, September 30, 2021 and uses agency self-assessments for this report to the FGDC. Reports will be developed annually and will span one fiscal year period. Lead covered agencies will ensure that one consolidated report per NGDA theme is submitted to FGDC. This report will include a rating for each responsibility of "meets expectations," "made progress toward expectations," or "fails to meet expectations," as required by the GDA. A report template and survey were developed to facilitate consistent self-assessments and consolidated reports. As per the GDA, a summary and evaluation of the progress to achieve the requirements will be generated by FGDC and will be provided to the National Geospatial Advisory Committee (NGAC) for comment. Summary reports with NGAC comments and other required reports and information will be available online via the [FGDC GDA pages](#).<sup>1</sup>

The revised Circular A-16 is currently in development for release by the Office of Management and Budget (OMB) and is intended to provide guidance and direction for the FGDC on management of the GDA requirements. Following the release of the updated OMB Circular A-16, the FGDC anticipates conducting a review of its governance structure, including its working groups and subcommittees, to ensure that they support the needs of FGDC agencies and have the proper resources and structure to meet the requirements for facilitating agencies’ work to meet requirements of the GDA.

This 2021 NGDA Theme LCA annual performance report template uses the GDA definition for NGDA data theme as the foundation for reporting compliance *for the data within the theme*. From the GDA definitions, NGDA data theme “means the NGDA core geospatial datasets (including electronic records and coordinates) relating to a topic or subject designated under Section 2805.” FGDC anticipates that future enhancements to the reporting process will include a mechanism to gather information at the dataset level which can then be reported at the theme and agency level to provide a greater level of granularity for annual reporting and better management of the NGDA Portfolio.

The focus of this report will be to document both the ongoing processes, procedures, and actions within agencies that manage the NGDA datasets, and the FGDC activities underway for identifying common definitions and approaches for meeting the requirements for plans and actions identified in the GDA.

## Executive Summary

This report is the result of continued efforts across the FGDC and the NGDA theme community to evaluate the requirements of the GDA in the context of the goals and objectives of the [National Spatial Data Infrastructure \(NSDI\) Strategic Plan 2021-2024](#).<sup>2</sup> The report is meant to highlight an emerging understanding of these requirements, communicate the steps that FGDC is undertaking to ensure governance processes are in place that build on the accomplishments to date, and lay out an approach for collaboratively moving forward. Communication of the necessary actions and next steps across the FGDC is the cornerstone of this report.

This annual performance report documents progress made in meeting GDA requirements since the initial, baseline, report was submitted in 2020. This second annual report for the Cadastre Theme provides insights into both ongoing, cross-cutting FGDC portfolio management, and agency and theme-specific activities that align with GDA requirements.

FGDC agencies, in coordination with the FGDC Office of the Secretariat (OS), provided leadership and input for GDA requirements analysis as part of ongoing theme strategic planning and implementation activities. Progress made by all NGDA themes for this reporting cycle centers on two key GDA requirements – geospatial data standards and establishing a plan for nationwide population of the NGDA data themes (or core datasets). The collaborative efforts included development of two briefing papers outlining the issues, benefits, challenges, and recommended actions for advancing each requirement. The anticipated outcomes, with FGDC Steering Committee approval, will include formation of two task teams to further evaluate the respective GDA requirements, establish a collaborative approach with government and nongovernment leaders, partners, and stakeholders, and develop recommendations for FGDC on required governance, technical guidance, and actions.

Theme-related information gathered during the 2020 LCA reporting process will also be used to support GDA requirements for geospatial data standards and nationwide population of the data theme. The reported information included participation in FGDC Subcommittees and Working Groups, National and International voluntary consensus standards bodies, International geospatial Working Groups supporting standards, other activities undertaken by agencies to support standards, and theme partners and partnership programs. FGDC will analyze the information collected and the existing GeoPlatform [Theme Community](#)<sup>3</sup> content to determine how best to redesign the theme pages to host the relevant information.

Prior to the enactment of the GDA, the FGDC conducted Lifecycle Maturity Assessments (LMA) based on the A-16 Supplemental Guidance [Stages of the Geospatial Lifecycle](#).<sup>4</sup> As described in the FY2020 LCA NGDA Theme Reports, these assessments were conducted in 2015 and 2017 and resultant [Theme LMA Summary Reports](#)<sup>5</sup> and Dashboards were made available online through GeoPlatform.gov. While the LMA process was put on hold following the enactment of the GDA, it is seen as a key component moving forward. Following the release of the updated OMB Circular A-16, the FGDC will analyze that guidance and evaluate the LMA process for adoption and use to capture the lifecycle information from agencies and dataset managers. The LMA process could be used to dynamically augment these GDA annual reports and will also be analyzed as part of developing and implementing the plan for nationwide population of the NGDA data themes (core datasets).

This report has been developed using an NGDA Theme Lead consensus-driven report template that provides consistent reporting across all NGDA Themes.

### Official Theme Related Information

As per the OMB Circular A-16 Supplemental Guidance, official theme related information includes designated points of contact for NGDA Portfolio management, including Theme Leads and Executive Champions, and the official list of NGDA datasets. As further described in the sections below, this information is maintained on the GeoPlatform [NGDA Portfolio Community](#)<sup>6</sup> site.

### NGDA Theme Points of Contact

**Reference:** [USC 43 Sec 2805\(b\)\(3\)\(E\)\(i\)](#)

Section 2805(b)(3)(E)(i) requires lead covered agencies to “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” as part of administering the NGDA theme.

In accordance with the current OMB Circular A-16 Supplemental Guidance, NGDA theme personnel play an ongoing, vital role in the operation and maintenance of a theme. They are individuals who provide interdepartmental leadership and coordination at the NGDA theme level and work with NGDA dataset managers to facilitate, among other things, portfolio development including activities associated with standards and guidance.

Traditionally, these roles have been coordinated through lead covered agencies with the FGDC Office of the Secretariat and the NGDA theme lead assuming a majority of NGDA theme responsibilities. Transitioning to meet specific GDA responsibilities provides opportunities for lead covered agencies to designate specific points of contact to coordinate an expanding portfolio of datasets across the NGDA theme and for greater dissemination of data through the GeoPlatform.

Theme and agency points of contact provided in Table 1 below are maintained to meet requirements from the [A-16 Supplemental Guidance Roles and Responsibilities](#).<sup>7</sup> This information is kept up-to-date in the NGDA Portfolio Community on [NGDA Theme Leads](#)<sup>8</sup> and [NGDA Executive Theme Champions](#)<sup>9</sup> pages.

Cadastre Theme Contacts	
<b>Theme Lead(s):</b>	Dominica VanKoten, U.S. Department of the Interior, Bureau of Land Management
<b>Executive Theme Champion(s):</b>	David Carter, U.S. Department of the Interior

**Table 1. Theme and Lead Covered Agency Points of Contact Involved in Theme Management.**

### NGDA Theme Portfolio Datasets

The NGDA datasets and the agencies listed in Table 2 are provided as the official list of NGDA that currently populate the Cadastre Theme. If the theme includes NGDA datasets managed by non-covered agencies, they are shown in bold. Support for GDA requirements by these non-covered agencies is very important to the success of the themes. The official list of [NGDA Portfolio Datasets](#)<sup>10</sup> is maintained on the GeoPlatform and is provided here [filtered by the Cadastre Theme](#). Each NGDA dataset also has a unique value assigned, called an NGDAID, that allows the dataset to be tracked throughout its lifecycle.

<b>NGDAID</b>	<b>Cadastre Theme NGDA Datasets</b>	<b>Agency</b>
8	Army Military Land Tracts (AMLT)	U.S. Department of Defense, U.S. Army Corp of Engineers
10	BLM National Public Land Survey System Polygons - National Geospatial Data Asset (NGDA)	U.S. Department of the Interior, Bureau of Land Management
11	Department of Defense Land Parcels and Sites	U.S. Department of Defense, Acquisition & Sustainment
13	FS National Forest Dataset (US Forest Service Proclaimed Forests)	U.S. Department of Agriculture, U.S. Forest Service
14	FWS Interest - August 2021	U.S. Department of the Interior, U.S. Fish and Wildlife Service
16	Administrative Boundaries of National Park System Units 6/30/2021 - National Geospatial Data Asset (NGDA) NPS National Parks Dataset	U.S. Department of the Interior, National Park Service
17	Outer Continental Shelf Active Renewable Energy Leases	U.S. Department of the Interior, Bureau of Ocean Energy Management
18	Outer Continental Shelf Block Aliquots - Atlantic Region NAD83	U.S. Department of the Interior, Bureau of Ocean Energy Management
19	Outer Continental Shelf Lease Blocks - Alaska Region NAD83	U.S. Department of the Interior, Bureau of Ocean Energy Management
20	Outer Continental Shelf Lease Blocks - Atlantic Region NAD83	U.S. Department of the Interior, Bureau of Ocean Energy Management
21	Outer Continental Shelf Lease Blocks - Gulf of Mexico Region NAD27	U.S. Department of the Interior, Bureau of Ocean Energy Management
22	Outer Continental Shelf Lease Blocks - Pacific Region - West Coast NAD83	U.S. Department of the Interior, Bureau of Ocean Energy Management
23	Outer Continental Shelf Official Protraction Diagrams - Alaska Region NAD 83	U.S. Department of the Interior, Bureau of Ocean Energy Management
24	Outer Continental Shelf Official Protraction Diagrams - Atlantic Region NAD 83	U.S. Department of the Interior, Bureau of Ocean Energy Management
25	Outer Continental Shelf Official Protraction Diagrams And Lease Maps - Gulf Of Mexico Region NAD27	U.S. Department of the Interior, Bureau of Ocean Energy Management
26	Outer Continental Shelf Official Protraction Diagrams - Pacific Region - West Coast NAD 83	U.S. Department of the Interior, Bureau of Ocean Energy Management
27	Protected Areas Database of the United States (PAD-US)	U.S. Department of the Interior, U.S. Geological Survey
188	BLM National Surface Management Agency Area Polygons - National Geospatial Data Asset (NGDA)	U.S. Department of the Interior, Bureau of Land Management
195	BAmerican Indian Reservations (AIR) Exterior Extent Boundaries	U.S. Department of the Interior, Bureau of Indian Affairs

**Table 2. Theme NGDA Datasets.**

## Meeting General Responsibilities – USC 43 Sec 2805(b)(2)

Reference: [USC 43 Sec 2805\(b\)\(2\)](#)

**Q1. How is the Lead Covered Agency(ies) participating in ensuring the coordinated management of the Theme?** (Select all that apply - *see Appendix A for complete list of optional responses*)

- Lead Agency, or Co-Lead Agencies, have published a geospatial strategy as required by the GDA
- Theme Lead(s) attend NGDA Theme Community Meetings
- Theme Lead(s) participate in GDA Working Group meetings
- Theme Lead(s) review the outcomes from GDA Working Group meetings and provide feedback on approaches for GDA compliance
- Theme Lead(s) coordinate GDA compliance activities with Theme personnel
- Theme Lead(s) communicate new and ongoing Portfolio Management activities and priorities with Dataset Managers in the Theme
- Steering Committee members coordinate with the Theme

## Managing Theme-Related Content on GeoPlatform

The baseline 2020 LCA NGDA Theme Report gathered theme specific information in a series of tables to reflect compliance with the GDA requirements. This content was captured to describe agency efforts that can be used moving forward to support development of the plans required by the GDA. As continued progress towards meeting requirements of the GDA, the NGDA theme community will evaluate redesign of theme community sites to allow agencies to provide current information to the public and stakeholders related to theme management.

## A. Geospatial Data Standards

GDA Requirement	<p>USC 43 Sec 2805(b)(3)(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—</p> <ul style="list-style-type: none"> <li>i. assessing existing standards;</li> <li>ii. identifying anticipated or needed data standards; and</li> <li>iii. developing a plan to originate and implement needed standards with relevant community and international practices — <ul style="list-style-type: none"> <li>I. in accordance with Office of Management and Budget Circular A– 119, or any successor thereto; and</li> <li>II. consistent with or as a part of the plan described in subparagraph (B);</li> </ul> </li> </ul>
Lead Covered Agency Self-Assessment	<b>Made Progress Toward Expectations</b>
Key to Self-Assessment	<p>FGDC agencies continue work to evaluate options for establishing a common understanding and approach to meeting GDA requirements. The FGDC Steering Committee has the <i>Briefing Paper – Reestablishing the FGDC Standards Process 8-4-21</i> under consideration. The paper outlines a path forward for reestablishing a resourced and sustainable standards process that will be compliant with the GDA and responsibilities for managing standards. This work provides a foundation for designating “Made progress toward expectations” for all themes the FY2021 reporting year. Response options included:</p> <ul style="list-style-type: none"> <li>• Fails to Meet Expectations</li> <li>• Made Progress Toward Expectations</li> <li>• Meets Expectations</li> </ul>

**Reference:** [USC 43 Sec 2805\(b\)\(3\)\(A\)](#)

### Meeting Requirements for Geospatial Data Standards

This section of the GDA calls on the FGDC agencies to provide leadership and facilitate the development and implementation of geospatial data standards and outlines activities that include development of a plan to originate and implement needed standards with relevant community and international practices in accordance with OMB Circular A-119 and consistent with, or as part of the plan that will be established to meet subparagraph (B) requirements.

On August 11, 2021, the FGDC Steering Committee was presented for their consideration and approval the *Briefing Paper – Reestablishing the FGDC Standards Process 8-4-21* which outlined the need for reestablishing an FGDC standards process and included a Draft Position Statement (provided below). The paper states that an updated standards process will guide the FGDC agencies in their assessment, development, vetting, and approval of draft standards through the FGDC governance and endorsement steps (for both FGDC developed internal and FGDC endorsed external standards), and follow-on



maintenance and update steps. The standards process should also address FGDC representation and participation in other standards bodies and the administrative support required to manage and maintain the FGDC's standards inventory, web pages, and process documentation.

The briefing paper provided a set of short-term actions that include approval of the position statement and for FGDC to establish a task team to evaluate and recommend a path forward for reestablishing a resourced and sustainable standards process.

*The FGDC Draft Position Statement:*

*The Geospatial Data Act of 2018 (GDA) establishes the Federal Geographic Data Committee (FGDC) as the lead entity in the executive branch of government for the development, implementation, and review of policies, practices, and standards relating to geospatial data. The GDA describes responsibilities related to geospatial standards for the FGDC and the agencies covered by the law (covered agencies). These responsibilities are reinforced by Office of Management and Budget Circular A-16. The covered agencies are responsible for geospatial related standards development, coordination, approval, implementation, and use. The FGDC is determining how to reestablish and resource a sustainable standards process, implement supporting governance requirements, update and improve legacy processes, and begin establishing standards as required under the GDA. Agencies should continue, to the extent possible in lieu of an active standards process, to develop, review, update, and implement existing and pending standards, and become members of the appropriate FGDC standards body when it becomes active.*

A document providing the longer-term tasks and outcomes expected of the team is now under development as requested by the Steering Committee and includes:

- Evaluate FGDC and agency geospatial standards requirements in associated laws and policies
- Review legacy FGDC standards policies and procedures and recommend establishing, updating, or retiring them
- Evaluate and recommend a process for FGDC to establish standards as per the GDA and for evaluation of the NGDA baseline standards inventory, which includes currently endorsed FGDC standards, that will result in the list of standards in use across FGDC
- Evaluate opportunities to leverage work or recommendations from other existing standards bodies
- Evaluate governance requirements for managing standards and recommend necessary changes to the FGDC governance structure
- Develop recommendations for resourcing a sustainable FGDC standards governance process

### [FY2020 Report Follow up](#)

The FY2020 reports provided information on the FGDC subcommittees and working groups, national and international voluntary consensus standards bodies, the international geospatial organizations supporting standards and other activities that support standards for the data within the theme. This information will be evaluated for inclusion in the redesign of the FGDC theme community sites.

## Highlighting FGDC Agency Efforts to Support NGDA Data Standards

The FGDC agencies with responsibilities for managing NGDA themes and datasets have developed the following questions to highlight on-going agency efforts to support standards for the NGDA portfolio datasets.

### **QA.1. Are there activities ongoing that you would like to highlight regarding development, modification, or establishment of standards for any of the data within the Theme?**

**Clarifying Text:** This question provides agencies and dataset managers an opportunity to highlight significant efforts which are ongoing and may facilitate the work of any standards task team established as described above. Please consider agency work to evaluate or develop standards or work that has been completed and has resulted in standards that are ready to be endorsed, or established, under Section 2806. (Ongoing agency work would include a review or assessment of existing national and international standards, assessment for meeting user needs, and other work that meets the requirements of the GDA.)

- Yes

**Please identify all the NGDA datasets for which you would like to provide information on work to support standards.**

- BLM National Public Land Survey System Polygons
- FS National Forest Dataset (US Forest Service Proclaimed Forests)
- Outer Continental Shelf Active Renewable Energy Leases
- Outer Continental Shelf Block Aliquots - Atlantic Region NAD83
- Outer Continental Shelf Lease Blocks - Alaska Region NAD83  
— Outer Continental Shelf Lease Blocks - Atlantic Region NAD83
- Outer Continental Shelf Lease Blocks - Gulf of Mexico Region NAD27
- Outer Continental Shelf Lease Blocks - Pacific Region - West Coast NAD83
- Outer Continental Shelf Official Protraction Diagrams - Alaska Region NAD 83
- Outer Continental Shelf Official Protraction Diagrams - Atlantic Region NAD 83
- Outer Continental Shelf Official Protraction Diagrams And Lease Maps - Gulf Of Mexico Region NAD27
- Outer Continental Shelf Official Protraction Diagrams - Pacific Region - West Coast NAD 83
- Protected Areas Database of the United States (PAD-US)
- BLM National Surface Management Agency Area Polygons - National Geospatial Data Asset (NGDA)

**Next, please provide a brief description of work you would like to highlight that supports standards, including citations and resource links as necessary.**

Protected Areas Database of the United States (PAD-US): NGDA has implemented and adheres to all applicable agency policies, directives, or guidelines. Survey Manual 502.2 Fundamental Science Practices: Planning and Conducting Data Collection and Research, (<https://www.usgs.gov/about/organization/science-support/survey-manual/5022-fundamental-science-practices-planning-and>), USGS. Survey Manual 502.7 Fundamental Science Practices: Metadata for

USGS Scientific Information Products Including Data, (<https://www.usgs.gov/about/organization/science-support/survey-manual/5027-fundamental-science-practices-metadata-usgs>), USGS.

BLM National Public Land Survey System Polygons (PLSSDS): Data and standards are coordinated through the FGDC Cadastral Subcommittee. In FY 2021 the BLM hosted two subcommittee meetings and participated in coordination with other working groups. Existing data standards include the following: Metadata Standards (<https://www.fgdc.gov/metadata/geospatial-metadata-standards>). Cadastral Data Content Standard, FGDC-STD-003, Geographic Information Framework Data Content Standard Part 1, Cadastral, FGDC-STD-014.1-2008, Geographic Information Framework Data Content Standard, Part 5: Governmental unit and other geographic area boundaries, FGDC-STD-014.5-2008, (<http://nationalcad.org/download/cadastral-data-content-standard-ver-1-4.pdf>), PAD-US Data Manual

BLM National Surface Management Agency Area Polygons (SMA): Internal data standards are developed in collaboration with the BLM National Operations Center (NOC). A BLM wide assessment of SMA data structures was completed in 2018. Current efforts are underway to use the data collected to develop a formal data standard based on the data collected. Additional coordination is occurring between the BLM Headquarters, states and field offices and the NOC to increase their understanding of the issues and needs.

This applies to all BOEM datasets: BOEM continues to participate in the Federal Lands Working Group and NGDA Theme Community meetings. BOEM and BLM participated in two presentations during FY21. BLM gave a presentation to BOEM on April 22, 2021, regarding BLM's PLSS and SMA datasets. BOEM gave a presentation to BLM August 11, 2021, regarding BOEM's Offshore Marine Cadastre and withdrawal datasets. These presentations helped setup the foundation to continue discussing standards between the onshore and offshore Cadastre data.

FS National Forest Dataset: The USFS Proclaimed National Forest Boundaries dataset describes the exterior extent of federally designated National Forests. Those boundaries do not change without official action and thus there is little need to assess or plan. When boundaries do change, we are prepared to address and implement those changes.

**QA.2. Please check all the activities that have been taken to establish, develop, or modify standards for data within the theme** (select all that apply and use the “other” textbox to briefly describe additional activities):

- Maintain active licenses for all standards (where applicable)
- Agency established processes for standards management
- Agency examined comparable FGDC endorsed standards for suitability with NGDA data set
- Agency examined comparable open-source standards for applicability to NGDA data set
- Agency developed comparable agency-specific standards to apply to NGDA data set
- Theme analyzed related international/FGDC/open-source/agency-specific standards to identify components to modify or adapt into specific NGDA data set standard

**QA.3. Brief Summary (Limit 5,000 characters, or approximately 1.5 pages): Please provide a brief description of FY2021 actions and accomplishments in addressing Section 2805(b)(3)(A).**

**Clarifying Text:** Please ensure that the Brief Summary comments you submit this year highlight efforts that agencies are engaged in at the dataset or agency level that relate to GDA requirements, including involvement in and accomplishments of groups in support of NGDA data, such as:

- ✓ FGDC subcommittees and working groups
- ✓ Agency working groups and partner efforts
- ✓ National and international voluntary consensus standards bodies
- ✓ International geospatial organizations supporting standards
- ✓ Other activities that support standards

Protected Areas Database of the United States (PAD-US): NGDA has implemented and adheres to all applicable agency policies, directives, or guidelines. Survey Manual 502.2 Fundamental Science Practices: Planning and Conducting Data Collection and Research, (<https://www.usgs.gov/about/organization/science-support/survey-manual/5022-fundamental-science-practices-planning-and>), USGS. Survey Manual 502.7 Fundamental Science Practices: Metadata for USGS Scientific Information Products Including Data, (<https://www.usgs.gov/about/organization/science-support/survey-manual/5027-fundamental-science-practices-metadata-usgs>), USGS. Cadastral Data Content Standard, FGDC-STD-003, Geographic Information Framework Data Content Standard Part 1, Cadastral, FGDC-STD-014.1-2008, Geographic Information Framework Data Content Standard, Part 5: Governmental unit and other geographic area boundaries, FGDC-STD-014.5-2008, INCITS 446:2008 - Geographic Names Information System (GNIS), Real Property Asset Data Standard (RPADS), FGDC-STD-019-2014. Cadastral Data Content Standard, FGDC-STD-003, (<http://nationalcad.org/download/cadastral-data-content-standard-ver-1-4.pdf>), PAD-US Data Manual, (<https://www.usgs.gov/programs/gap-analysis-project/pad-us-data-manual>). PAD-US homepage URL (<https://www.usgs.gov/programs/gap-analysis-project/science/protected-areas>)

BLM National Public Land Survey System Polygons (PLSSDS): Data and standards are coordinated through the FGDC Cadastral Subcommittee. In FY2021 the BLM hosted two subcommittee meetings and participated in coordination with other working groups. Existing data standards include the following: Metadata Standards (<https://www.fgdc.gov/metadata/geospatial-metadata-standards>). Cadastral Data Content Standard, FGDC-STD-003, Geographic Information Framework Data Content Standard Part 1, Cadastral, FGDC-STD-014.1-2008, Geographic Information Framework Data Content Standard, Part 5: Governmental unit and other geographic area boundaries, FGDC-STD-014.5-2008, (<http://nationalcad.org/download/cadastral-data-content-standard-ver-1-4.pdf>), PAD-US Data Manual

BLM National Surface Management Agency Area Polygons (SMA): In FY2021, the BLM SMA staff participated in FGDC subcommittees and working groups, as well as internal meetings with BLM State Offices, Field Offices and the BLM National Operations Center (NOC) to increase awareness and build a consistent SMA dataset. These activities were necessary to clarify the individual BLM State Office data submission requirements and build efficiencies in the data compilation into a national dataset. These efforts included multiple presentations in collaboration with the NOC to BLM state offices and other agencies, including BOEM.

This applies to all BOEM datasets: BOEM continues to participate in the Federal Lands Working Group and NGDA Theme Community meetings. BOEM and BLM participated in two presentations during FY21. BLM gave a presentation to BOEM in April 22, 2021 regarding BLM's PLSS and SMA datasets. BOEM

gave a presentation to BLM August 11, 2021 regarding BOEM's Offshore Marine Cadastre and withdrawal datasets. These presentations helped setup the foundation to continue discussing standards between the onshore and offshore Cadastre data.

FS National Forest Dataset: Published standards are in the metadata. If those standards change, we will implement them. One thing to note here may be the adherence to the ISO metadata standard, and some of the implementation issues associated with that.

Administrative Boundaries of National Park System Units: Data standards include 1) NPS Current Administrative Boundaries GIS Data Standard 2) NPS Ownership Tracts GIS Data Standard 3) National Park Service Land Acquisition Procedures (Chapter 5 – Cartographic Procedures) 4) National Map Accuracy Standards 5) Cadastral Data Content Standard FGDC-STD-003. Please email [PPFL\\_LandsNet@nps.gov](mailto:PPFL_LandsNet@nps.gov) for a copy of the Standards documents.

## B. Nationwide Population of the Data Theme

GDA Requirement	<p>USC 43 Sec 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, which shall—</p> <p>(i) include developing partnership programs with States, Indian tribes, institutions of higher education, private sector entities, other Federal agencies, and local governments;</p> <p>(ii) meet the needs of users of geospatial data;</p> <p>(iii) address human and financial resource needs;</p> <p>(iv) identify needs relating to standards, metadata for geospatial data within the National Geospatial Data Asset data theme, and the GeoPlatform; and</p> <p>(v) expedite the development of necessary National Geospatial Data Asset data themes;</p>
Lead Covered Agency Self-Assessment	<b>Made Progress Toward Expectations</b>
Key to Self-Assessment	<p>FGDC agencies continue work to evaluate options for establishing a common understanding and approach to meeting GDA requirements. A briefing paper, described in this section, is being developed for FGDC Steering Committee consideration. It outlines a path forward for engaging partners and stakeholders regarding nationwide population of data and establishing common practices that can be used to advance the NSDI, the goals and objectives of the NSDI Strategic Plan, and meet requirements of the GDA and other legislation. This work provides a foundation for designating “Made progress toward expectations” for all themes the FY2021 reporting year. Response options included:</p> <ul style="list-style-type: none"> <li>• Fails to Meet Expectations</li> <li>• Made Progress Toward Expectations</li> <li>• Meets Expectations</li> </ul>

**Reference:** [USC 43 Sec 2805\(b\)\(3\)\(B\)](#)

### Meeting Requirements for Nationwide Population of NGDA Datasets

This section of the GDA calls on the FGDC agencies to, “provide leadership and facilitate the development and implementation of a plan for nationwide population of the National Geospatial Data Asset data theme.” Using the GDA definition of NGDA data theme, the required plans would focus on nationwide population of the core datasets within the theme and include the work to expedite development of necessary core datasets.

FGDC agencies manage NGDA core datasets and other geospatial data to meet mission requirements and to address priority needs of the agency and the nation. There are multiple examples of ongoing agency efforts to establish partnerships, conduct requirements and user needs analysis, identify options

for appropriate human and financial resourcing, and identify needs relating to standards for NGDA datasets in support of nationwide population of priority geospatial datasets.

To support development of a common approach for meeting GDA and other legislative requirements and address the goals and objectives of the [NSDI Strategic Plan 2021-2024](#), a briefing paper has been developed for consideration by the FGDC Steering Committee. The briefing paper proposes that FGDC engage the NGAC to provide advice and recommendations for federal and non-federal partners and stakeholders regarding nationwide population of data and establishing common practices that can be used to advance the NSDI.

The briefing paper documents the need for establishing common approaches and a common understanding of what constitutes “nationwide population of datasets;” a methodology for identifying datasets that should be considered for nationwide population and a means to prioritize those efforts; and a process for identifying data that requires integration with government and nongovernment data or those that only require national coverage of federal data.

As FGDC agencies continue to develop common approaches for meeting requirements for geospatial data management, they will be incorporated into the reporting process. This FY2021 report highlights ongoing efforts that support these requirements. The information gathered here will be available for further evaluation of processes and activities across FGDC agencies that can be used as best practices and established in guidance and governance documents.

#### [FY2020 Report Follow up](#)

The information on theme partners and partnership programs supporting data within the theme reported as part of the FY2020 Reports will be evaluated for inclusion in the redesign of the FGDC theme community sites.

#### [Highlighting Key Examples of FGDC Agency Efforts to Support Plans for Nationwide Population of NGDA Datasets](#)

The following suite of questions was established to highlight ongoing agency efforts to support nationwide population of the NGDA portfolio datasets. FGDC anticipates using this information moving forward as work continues to identify and establish best practices to develop common approaches.

**QB.1. Are there activities ongoing that you would like to highlight that support nationwide population of NGDA datasets within the Theme, or efforts that support any of the elements included in this requirement?**

- Yes

**QB.1a. Are there existing or planned partnership programs with a wide range of stakeholders supporting NGDA datasets within the Theme that you would like to highlight?**

- Yes

**Please identify all the NGDA datasets for which you would like to provide information related to partnership activities.**

- BLM National Public Land Survey System Polygons
- FS National Forest Dataset (US Forest Service Proclaimed Forests)
- Outer Continental Shelf Active Renewable Energy Leases
- Outer Continental Shelf Block Aliquots - Atlantic Region NAD83
- Outer Continental Shelf Lease Blocks - Alaska Region NAD83
- Outer Continental Shelf Lease Blocks - Atlantic Region NAD83
- Outer Continental Shelf Lease Blocks - Gulf of Mexico Region NAD27
- Outer Continental Shelf Lease Blocks - Pacific Region - West Coast NAD83
- Outer Continental Shelf Official Protraction Diagrams - Alaska Region NAD 83
- Outer Continental Shelf Official Protraction Diagrams - Atlantic Region NAD 83
- Outer Continental Shelf Official Protraction Diagrams And Lease Maps - Gulf Of Mexico Region NAD27
- Outer Continental Shelf Official Protraction Diagrams - Pacific Region - West Coast NAD 83
- Protected Areas Database of the United States (PAD-US)
- BLM National Surface Management Agency Area Polygons - National Geospatial Data Asset (NGDA)

**Next, please provide a brief description of partnership with citations and resource links as necessary.**

Protected Areas Database of the United States (PAD US): Federal Lands Workgroup (FLWG ), (<https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup>) State Lands Workgroup (SLWG), PAD-US Data-Stewards, (<https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-data-stewards>).

BLM National Public Land Survey System Polygons (PLSSDS): Partnerships are in place with the following organizations: USFS, DOI-BIA, State of Arkansas, State of Alaska, State of Nebraska, MT State Library, State of Utah Automated Geographic Reference Center (AGRC), State of Utah School and Institutional Trust Lands Administration (SITLA), State of Oregon’s Department of Revenue. In FY2021 the BLM began coordination with the BOEM to discuss the creation a national offshore cadastre dataset combining the BOEM regions into one dataset instead of one dataset for each region. There is also a plan to develop a naming convention to link the onshore and offshore cadastre datasets. Other significant internal and external coordination occurred this year, including multiple presentations in collaboration with the BLM National Operations Center (NOC) to BLM State and Field Offices and to other agencies. Coordination with the USDA Forest Service occurred to kick off a pilot project to integrate direct sharing of PLSS data between agencies. Similar coordination occurred with the BIA to develop work flows for sharing PLSS data information between agencies.

BLM National Surface Management Agency Area Polygons (SMA): In FY2021, the BLM SMA staff met with the stakeholders and data owners to discuss ways to access, gather, and represent the data for SMA more efficiently. Coordination occurred with the BIA, BLM Indian Land Surveyors (BILS), BOEM, USGS, BLM state and field offices and BLM PLSSDS dataset managers. PowerPoints were used to inform participants about SMA data standard and accuracy needs, and to allow the participants to assess how



best to have their data represented in SMA.

This applies to all BOEM datasets: BOEM is working on creating a national offshore cadastre dataset combining the BOEM regions into one dataset instead of one dataset for each region. This is an ongoing effort that will continue in the next fiscal year. BOEM plans to work with BLM to on a layer naming convention to link the offshore and onshore cadastre datasets.

FS National Forest Dataset: Population is based on designated boundaries. The plan for populating this dataset nationwide is implemented, and the data are being maintained, updated, and published weekly. Partnerships for populating this dataset are not necessarily relevant. However, USGS is using PAD-US Proclaimed in USTOPO, and the data we submit to PAD-US is formatted based on specific requirements issued by USGS, and this represents a form of partnership in data development.

**QB.1b. Are processes, or plans for processes, in place to meet the needs of users? Note that Section 2805(b)(3)(D) of this report covers efforts to collect and analyze user needs and incorporation of those needs into agency strategies. However, you may include the information on those efforts in your response for this question.**

**Clarifying Text:** If no formal process exists, but information on summits, training events, or other activities that supported the collection or understanding of user needs may be included.

- Yes

**Please identify all the NGDA datasets for which you would like to provide information on efforts to meet user needs.**

- BLM National Public Land Survey System Polygons
- FS National Forest Dataset (US Forest Service Proclaimed Forests)
- Administrative Boundaries of National Park System Units 12/31/2020 - National Geospatial Data Asset (NGDA) NPS National Parks Data
- Outer Continental Shelf Active Renewable Energy Leases
- Outer Continental Shelf Block Aliquots - Atlantic Region NAD83
- Outer Continental Shelf Lease Blocks - Alaska Region NAD83
- Outer Continental Shelf Lease Blocks - Atlantic Region NAD83
- Outer Continental Shelf Lease Blocks - Gulf of Mexico Region NAD27
- Outer Continental Shelf Lease Blocks - Pacific Region - West Coast NAD83
- Outer Continental Shelf Official Protraction Diagrams - Alaska Region NAD 83
- Outer Continental Shelf Official Protraction Diagrams - Atlantic Region NAD 83
- Outer Continental Shelf Official Protraction Diagrams And Lease Maps - Gulf Of Mexico Region NAD27
- Outer Continental Shelf Official Protraction Diagrams - Pacific Region - West Coast NAD 83
- Protected Areas Database of the United States (PAD-US)
- BLM National Surface Management Agency Area Polygons - National Geospatial Data Asset (NGDA)

**Next, please provide a brief description of efforts to meet user needs, including citations and resource links as necessary.**

Protected Areas Database of the United States (PAD US): Federal Lands Workgroup (FLWG), (<https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup>), State Lands Workgroup (SLWG), PAD-US Data-Stewards, (<https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-data-stewards>), Achieved PAD-US Vision defined in Completing America's Inventory of Public Parks and Protected Areas, Completing America's Inventory of Public Parks and Protected Areas, (<https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-vision>) expanding PAD-US to better serve recreation and public health communities. PAD-US homepage URL (<https://www.usgs.gov/programs/gap-analysis-project/science/protected-areas>).

BLM National Public Land Survey System Polygons (PLSSDS): In FY2021 the BLM continued internal efforts to increase data availability and integrity. The BLM published updates to the PLSSDS quarterly and is holding regularly scheduled meetings with BLM State Offices and the NOC to better meet goals and identify potential problems and implement corrective actions. One of our largest internal users is the BLM Mineral and Land Records System (MLRS). Once it is completed, the MLRS will become the BLM's official land information system, replacing several legacy land records systems. The MLRS uses the PLSSDS framework as its foundation for the geospatial mapping capabilities. Several efforts are underway to meet the needs of the MLRS including the creation of a National PLSSDS Compilation in NAD 83 and data improvement projects. Eventually, the MLRS will be the source of the SMA dataset.

BLM National Surface Management Agency Area Polygons (SMA): In FY2021, BLM SMA staff met regularly with the data managers of the PAD-US dataset and attended FGDC meetings to assess data publishing needs, timelines, and areas needing improvement. There were additional coordination meetings with the BIA, BILS, BOEM, BLM state offices and the BLM PLSS dataset manager to discuss ways to access data more efficiently and listen to their needs and gather suggestions to improve the accessibility and accuracy of SMA data.

This applies to all BOEM datasets: BOEM's national offshore cadastre dataset will allow for easy download to meet user needs.

FS National Forest Dataset: Producing an authoritative representation of Proclaimed Forest Boundaries is our highest priority. To address user needs we focus in publishing the most accurate data possible and stay current with the evolution of data management and distribution based on current standards and digital architecture. We also participate in regular meetings with the NGDA team of dataset managers and theme leads. Furthermore, NGDA and PAD-US both uses Proclaimed Forest Boundary, and we work with USGS and cadastre theme lead to ensure we provide data in the appropriate formats. For example, we specifically format our data for distribution to PAD-US, but NGDA is based purely on the designated exterior boundary.

Administrative Boundaries of National Park System Units: The NPS made progress towards expectations by continuing to provide and refine data/metadata downloads, and web map services for users which are updated quarterly.

**QB.1c. Are there existing or planned program and data management plans in place that address human and financial resource needs?**

- Yes

**Please identify all the NGDA datasets for which you would like to provide information on efforts to address human and financial resource needs.**

- BLM National Public Land Survey System Polygons
- Protected Areas Database of the United States (PAD-US)
- BLM National Surface Management Agency Area Polygons - National Geospatial Data Asset (NGDA)

**Next, please provide a brief description of efforts to meet financial and human resource needs, including citations and resource links as necessary (Limit 5,000 characters, approximately 800 words).**

Protected Areas Database of the United States (PAD-US) Internal data management plan and budget elements required by USGS Science Analytics and Synthesis.

BLM National Public Land Survey System Polygons (PLSSDS) and BLM National Surface Management Agency Area Polygons (SMA): The 2019 Cadastre Theme Implementation Plan includes the most recent information collected about human and financial resource needs. This plan will be updated in the future.

**QB.1d. Are processes, or plans for processes, in place to identify needs related to standards?**

- Yes

**Please identify all the NGDA datasets for which you would like to provide information on needs related to standards.**

- BLM National Public Land Survey System Polygons
- FS National Forest Dataset (US Forest Service Proclaimed Forests)
- Outer Continental Shelf Active Renewable Energy Leases
- Outer Continental Shelf Block Aliquots - Atlantic Region NAD83
- Outer Continental Shelf Lease Blocks - Alaska Region NAD83
- Outer Continental Shelf Lease Blocks - Atlantic Region NAD83
- Outer Continental Shelf Lease Blocks - Gulf of Mexico Region NAD27
- Outer Continental Shelf Lease Blocks - Pacific Region - West Coast NAD83
- Outer Continental Shelf Official Protraction Diagrams - Alaska Region NAD 83
- Outer Continental Shelf Official Protraction Diagrams - Atlantic Region NAD 83
- Outer Continental Shelf Official Protraction Diagrams And Lease Maps - Gulf Of Mexico Region NAD27
- Outer Continental Shelf Official Protraction Diagrams - Pacific Region - West Coast NAD 83
- Protected Areas Database of the United States (PAD-US)
- BLM National Surface Management Agency Area Polygons - National Geospatial Data Asset (NGDA)

**Next, please provide a brief description of efforts to identify needs related to standards, including citations and resource links as necessary.**

Protected Areas Database of the United States (PAD US) Federal Lands Workgroup (FLWG), (<https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup>), State Lands Workgroup (SLWG), PAD-US Data-Stewards, (<https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-data-stewards>), Achieved PAD-US Vision defined in Completing America's Inventory of Public Parks and Protected Areas, Completing America's Inventory of Public Parks and Protected Areas, (<https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-vision>) expanding PAD-US to better serve recreation and public health communities. New efforts underway to develop PAD-US strategic 5 year plan. The PAD-US homepage URL (<https://www.usgs.gov/programs/gap-analysis-project/science/protected-areas>)

BLM National Public Land Survey System Polygons (PLSSDS): BLM is initiating a Change Management Board to address concerns with the PLSSDS internally. This group will be used to collect data standard needs internally. The FGDC Subcommittee collects data standard needs externally. Once the change management board is established, further coordination between the groups will occur to streamline all data standard needs.

BLM National Surface Management Agency Area Polygons (SMA): Plans are in place to continue SMA coordination with PAD-US, NOC, FGDC and other providers/users of SMA data. The NOC will compile data from the data owners four times during the year. The data will then be analyzed for issues. When issues are identified, coordination with the data steward will occur to develop and implement the proper remedy.

This applies to all BOEM datasets: BOEM plans to continue to work with BLM to expand on the Offshore section of the Cadastre standards.

FS National Forest Dataset: This could relate to PAD-US, and USTOPO wants to use data from PAD-US rather than getting it directly from the Proclaimed National Forest Boundaries dataset.

**QB.1e. Are there any other processes in place that support nationwide population of datasets (e.g., data quality control processes that cover data collected by external stakeholders)?**

- Yes

**Please identify all the NGDA datasets for which you would like to provide additional information related to nationwide population of data.**

- FS National Forest Dataset (US Forest Service Proclaimed Forests)
- Outer Continental Shelf Active Renewable Energy Leases
- Outer Continental Shelf Block Aliquots - Atlantic Region NAD83
- Outer Continental Shelf Lease Blocks - Alaska Region NAD83
- Outer Continental Shelf Lease Blocks - Atlantic Region NAD83
- Outer Continental Shelf Lease Blocks - Gulf of Mexico Region NAD27
- Outer Continental Shelf Lease Blocks - Pacific Region - West Coast NAD83

- Outer Continental Shelf Official Protraction Diagrams - Alaska Region NAD 83
- Outer Continental Shelf Official Protraction Diagrams - Atlantic Region NAD 83
- Outer Continental Shelf Official Protraction Diagrams And Lease Maps - Gulf Of Mexico Region NAD27
- Outer Continental Shelf Official Protraction Diagrams - Pacific Region - West Coast NAD 83
- Protected Areas Database of the United States (PAD-US)
- BLM National Surface Management Agency Area Polygons - National Geospatial Data Asset (NGDA)

**Next, please provide a brief description of other efforts that support nationwide population of data, including citations and resource links as necessary.**

Protected Areas Database of the United States (PAD US): Federal Lands Workgroup (FLWG), (<https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup>), State Lands Workgroup (SLWG), PAD-US Data-Stewards, (<https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-data-stewards>).

BLM National Surface Management Agency Area Polygons (SMA): Plans are in place to continue SMA coordination with PAD-US, NOC, FGDC and other users of SMA data. The NOC will compile data from the data owners four times during the year. The data will then be analyzed for issues. When issues are identified, coordination with the data steward will occur to develop and implement the proper remedy.

This applies to all BOEM datasets: BOEM is working with the BLM to see if the Protected Areas database will fit with the BLM SMA dataset. BOEM is working with PAD US through the Federal Working Lands Group to ensure that the offshore cadastre data is corrected represented in the database.

FS National Forest Dataset: Supporting the nationwide population of this dataset and ensuring quality control are elements that we are currently implementing. That dataset is national in scope, and we have data stewards in every region of the nation that maintain, refresh, aggregate, and publish the dataset weekly. We have a process in place to update boundary changes, and we have quality control measures coded into our data management application to ensure data integrity. In the future we may be transitioning to a Parcel Fabric environment to support this work.

**QB.2. Brief Summary (Limit 5,000 characters, approximately 800 words): Please provide a brief description of FY2021 actions and accomplishments in addressing Section 2805(b)(3)(B).**

**Clarifying Text:** Summary comments provide an opportunity to further highlight and expand on significant efforts agencies are engaged in at the dataset or agency level that relate to GDA requirements.

Protected Areas Database of the United States (PAD US): Federal Lands Workgroup (FLWG), (<https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup>), State Lands Workgroup (SLWG), PAD-US Data-Stewards, (<https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-data-stewards>), Achieved PAD-US Vision defined in Completing America's Inventory of Public Parks and Protected Areas, Completing America's Inventory of Public Parks and Protected Areas, (<https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-vision>)

expanding PAD-US to better serve recreation and public health communities. New efforts underway to develop PAD-US strategic 5 year plan.

**BLM National Surface Management Agency Area Polygons (SMA):** In FY2021 the BLM headquarters office coordinated with the BIA and BLM state offices to acquire and improve data for the SMA, including close coordination with the BILS to gather more accurate BIA data, and with the BLM New Mexico State Office to update and assess how to accurately represent BIA data in several states, including Oklahoma. In addition, we met multiple times with BOEM to assess their multiple datasets and how best to represent them. The BLM continued to improve our response to user needs, including providing updated SMA data to the PAD-US dataset. The SMA was published in a fully updated format for the first time since 2017 and is anticipated to be updated and published several times during FY 2022. Needs relating to standards and data were identified by working with the NOC and BLM state offices to assess the data provided by the data stewards for anomalies, including missing, inaccurate, or overlapping data. Processes were put in place to identify dataset issues quickly and resolve issues through coordination with data stewards which expedited the publication of the SMA update. In FY2021 the BLM increased our engagement with data stewards, such as other federal agencies and BLM offices, to educate them about the requirements and procedures of the SMA, which resulted in the publication of a more accurate SMA dataset.

**FS National Forest Dataset:** Maintenance and distribution work is ongoing. We also worked with ESRI to get Proclaimed Forests to have additional ISO metadata distribution that was used by Xentity to pull the dataset into GeoPlatform.

**Administrative Boundaries of National Park System Units:** The NPS made progress towards expectations in this requirement both internally and by working with the Federal Geographic Data Committee (FGDC) National Boundaries Group (NBG) and Federal Lands Working Group (FLWG).

## C. Establish Goals That Support the NSDI Strategic Plan

GDA Requirement	USC 43 Sec 2805(b)(3)(C) – establish goals that support the strategic plan for the National Spatial Data Infrastructure prepared under section 2804(c);
Lead Covered Agency Self-Assessment	<b>Made Progress Toward Expectations</b>
Key to Self-Assessment	<p>FGDC agencies continue work to evaluate options for establishing a common understanding and approach to meeting GDA requirements and the goals and objectives of the NSDI Strategic Plan. The briefing paper being developed for consideration by the FGDC Steering Committee, and described in Section B, outlines a path forward to establish common practices that can be used to advance the NSDI, and meet requirements of the GDA and other legislation. This work provides a foundation for designating “Made progress toward expectations” for all themes for the FY2021 reporting year. Response options included:</p> <ul style="list-style-type: none"> <li>• Fails to Meet Expectations</li> <li>• Made Progress Toward Expectations</li> <li>• Meets Expectations</li> </ul>

**References:** [USC 43 Sec 2805\(b\)\(3\)\(C\)](#) and [NSDI Strategic Plan 2021-2024](#)

### Establishing Common Goals and Priorities Supporting the NSDI and Its Strategic Plan

The FGDC and the geospatial community have partnered for decades in building the National Spatial Data Infrastructure. Much has been accomplished and exploitation of the internet, combined with advances in technology and availability of mobile devices, have increased public awareness that everything happens somewhere. Having Geospatial data and information available at people’s fingertips has become an expectation for most users. The vision of the NSDI Strategic Plan 2021-2024 of a “geo-enabled Nation and world for place-based decision making” provides a platform for partnerships that help ensure required data is the best possible data. FGDC has adopted as its mission to enable a “national network of geospatial resources that seamlessly integrate location-based information to serve the needs of the Nation and wider global interests.”

FGDC agencies are focused on meeting mission requirements for national geospatial data assets they manage while working collaboratively with partners to implement the NSDI strategic plan and meet its goals and objectives. For the NGDA portfolio, these objectives include efforts to: 1) streamline portfolio management practices and establish standards for NGDA themes and associated datasets, 2) develop common approaches to implement data acquisition and lifecycle management strategies, 3) advance the practice of integrating government and nongovernment data into national datasets, as necessary and 4) ensure that geospatial and other meaningful data can be easily integrated and used.

As described previously in this report, the FGDC intends to continue work across agencies and with the NGAC to understand the priorities of government and nongovernment stakeholders and gather their advice and recommendations for further prioritizing collaborative efforts. Establishing the team of federal and non-federal stakeholders and representatives of the NGDA data theme community will allow

for establishing common understanding of opportunities and constraints and will allow agencies to identify “goals that support the strategic plan for the National Spatial Data Infrastructure.” This work would build on the upcoming release of the OMB Circular A-16, the GDA, and other legal and policy requirements in order to establish practical guidance about how agencies can achieve what is being described in the generic, high level, language used in the NSDI Strategic Plan.

## Highlighting FGDC Agency Strategies that Support the NSDI and Geospatial Data

### QC.1. Do geospatial strategic plan(s) exist for the agencies that manage and support the NGDA datasets within the Theme?

- Yes

#### If yes, please provide a short description and examples of where these strategies are documented.

The 2017-2021 Cadastre Theme Strategic Plan is still applicable. An update is planned in the future. FWS Interest: Yes, for FWS it is the "5-Year Geospatial Services Strategic Plan for the Service - Fiscal Years 2018-2023. ([https://www.fws.gov/gis/policy/FINAL2018\\_FWS\\_GIS\\_StrategicPlan.pdf](https://www.fws.gov/gis/policy/FINAL2018_FWS_GIS_StrategicPlan.pdf)) BLM National Surface Management Agency Area Polygons (SMA): The goal for the SMA for the coming year will be to continue to identify and resolve data anomalies such as overlapping administrative boundaries, missing data, or incorrect data. The plan to accomplish the goal is to compile data from all federal surface management agencies four times during the year, work with NOC to analyze the data and identify anomalies, then the SMA data steward will work with other surface management agencies to assess the proper representation on the SMA. FS National Forest Dataset: USFSA body of work that will need to take place is ensuring the metadata distribution links work in all platforms. This may involve collaboration with ESRI to ensure the ISO metadata standard can be incorporated and function properly in the relevant software. To that end, we are working with USDA and GSA as they solve problems related to Data.gov harvesting job that is currently preventing harvesting of additional FS NGDA assets into Data.gov and GeoPlatform. Administrative Boundaries of National Park System Units: The NPS has developed and implemented a four year strategic plan. This plan addresses the overarching strategies in complying with the NGDA.

### QC.2. Have goals or actions been identified that support the goals and objectives of the National Spatial Data Infrastructure (NSDI) Strategic Plan for the NGDA datasets within the Theme?

**Clarifying text:** Identified actions can be part of the geospatial strategies for the agencies that manage data within the theme, and/or other documents that specifically relate to the data within the theme.

- Yes

#### If yes, please provide a short description and examples of where these goals or actions are documented.

FWS Interest: The FWS Mapping Manual chapter (<https://www.fws.gov/policy/343fw5.html>) and the Mapping and Cadastral Geographic Information Systems (GIS) Handbook (The Mapping Handbook) at ([https://www.fws.gov/policy/Mapping\\_Handbook\\_2018.pdf](https://www.fws.gov/policy/Mapping_Handbook_2018.pdf)).



**QC.3. Brief Summary (Limit 5,000 characters, approximately 800 words): Please provide a brief description of FY2021 actions and accomplishments in addressing Section 2805(b)(3)(C).**

**Clarifying Text:** Summary comments provide an opportunity to highlight significant efforts agencies are engaged in at the dataset or agency level that relate to GDA requirements.

Protected Areas Database of the United States (PAD US): Aggregation, processing, and publication of the next version, PAD-US 3.0.

(<https://www.sciencebase.gov/catalog/item/61794fc2d34ea58c3c6f9f69>). This includes a complete update of Federal estate (where available) and several state, local, and NGO data sets.

FS National Forest Database: There was development of a process working with ESRI on the ArcGIS Hub DCAT configuration to allow additional ISO metadata distribution in the json output provided to USDA to be ingested into Data.gov and GeoPlatform. We updated the FS National Forests Dataset (US Forest Service Proclaimed Forests) and GeoPlatform was then able to harvest the record so that it now shows up in GeoPlatform at the following URL: (<https://www.geoplatform.gov/metadata/bd04f8d8-96cc-5eac-96af-566bea975ba3>) As part of this process we have also submitted an Esri enhancement request (Esri Case #02713777 - ArcGIS Hub DCAT Enhancement Request) for them to update their DCAT config tool to allow us to add custom distributions for ISO XML metadata.

## D. Addressing User Needs

GDA Requirement	USC 43 Sec 2805(b)(3)(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;
Lead Covered Agency Self-Assessment	<b>Made Progress Toward Expectations</b>
Key to Self-Assessment	<p>FGDC agencies continue work to evaluate options for establishing a common understanding and approach to meeting GDA requirements. The briefing paper being developed for consideration by the FGDC Steering Committee, and described in Section B, outlines a path forward to engage partners and stakeholders and work towards establishing common practices that can be used to address the needs of users, advance the NSDI, and meet requirements of the GDA and other legislation. This work provides a foundation for designating “Made progress toward expectations” for all themes the FY2021 reporting year. Response options included:</p> <ul style="list-style-type: none"> <li>• Fails to Meet Expectations</li> <li>• Made Progress Toward Expectations</li> <li>• Meets Expectations</li> </ul>

**Reference:** [USC 43 Sec 2805\(b\)\(3\)\(D\)](#)

### Highlighting FGDC and FGDC Agency Efforts to Meet User Needs

This section of the GDA calls on the FGDC agencies to understand the needs of users through collection and analysis of user needs information from the users of NGDA datasets and to incorporate those needs into strategies relating to the NGDA datasets and themes. In addition to agencies efforts to collect and analyze user needs there are many use cases and needs assessments being developed by stakeholders and users of geospatial data, some of which were highlighted and are available in the FY2020 GDA reports.

The desired outcome of efforts to develop the NSDI and advance nationwide population of geospatial data is to meet the needs of geospatial data users and the nation. The result will be for users and stakeholders to be empowered to accomplish tasks that are important to them, to increase the likelihood they will benefit from the decisions that are made, and to provide them access to use geospatial data that improves their day-to-day lives.

As previously highlighted in this report, the efforts to develop a common understanding of the objectives and goals in the NSDI Strategic Plan 2021-2024 will be key to incorporating relevant strategies and approaches to meeting the needs of users for NGDA data.

## FY2020 Report Follow up

The FY2020 reports gathered on theme use cases, user needs User Needs Assessments, Workshops, and Summits that support the data within the theme. Additionally, a suite of use cases developed by partners and stakeholders was provided in Appendix A: NGDA Use Cases including those from the Federal Data Strategy, NGAC, HIFLD, the FGDC GDA Communications Working Group, the Joint HIFLD/GeoPlatform Feedback Sessions, and other types of user feedback and use cases. This information will be evaluated for inclusion in the redesign of the FGDC theme community sites.

## Highlighting FGDC and FGDC Agency Efforts to Meet User Needs

The FGDC agencies with responsibilities for managing NGDA themes and datasets have developed the following questions to highlight on-going agency efforts to support understanding user needs and incorporating those needs into strategies relating to the NGDA portfolio datasets.

**QD.1. Do the agencies, sub-agencies, or bureaus that manage NGDA within the Theme have processes to collect and analyze the needs of users and incorporate those needs of users into strategies relating to the NGDA datasets?**

- Yes

**QD.2. Did you provide information in response to QB.1b. on any of the NGDA datasets for which user needs information is collected, analyzed, or incorporated into strategies?**

- Yes

**QD.3. Brief Summary (Limit 5,000 characters, approximately 800 words): Please provide a brief description of FY2021 actions and accomplishments in addressing Section 2805(b)(3)(D).**

**Clarifying Text:** Summary comments provide an opportunity to highlight significant efforts agencies are engaged in at the dataset or agency level that relate to GDA requirements.

Protected Areas Database of the United States (PAD US): Federal Lands Workgroup (FLWG), (<https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup>), State Lands Workgroup (SLWG), PAD-US Data-Stewards, (<https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-data-stewards>), Achieved PAD-US Vision defined in Completing America's Inventory of Public Parks and Protected Areas, Completing America's Inventory of Public Parks and Protected Areas, (<https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-vision>) expanding PAD-US to better serve recreation and public health communities. Documents that describe the current state of PAD-US data and source data as well guidelines for appropriate use are available on the FLWG web site. (<https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup>). The PAD-US homepage URL (<https://www.usgs.gov/programs/gap-analysis-project/science/protected-areas>)

BLM National Surface Management Agency Area Polygons (SMA): A process was implemented to collect and analyze the needs of users. It includes a method for responding to internal and external questions and requests in collaboration with state offices and other agencies. For example, providing rapid updates to respond to requests during firefighting efforts. The SMA data manager participated in BLM

cadastral and realty meetings to assess and respond to user needs. Conducted meetings with BLM state offices to address data concerns and achieve resolution. Other coordination this year occurred with BOEM, USGS, NPS, NOC and USFS. These efforts resulted in increased accuracy of SMA data and allowed the NOC, BLM headquarters, BLM state offices, and other agencies to increase collaboration for future SMA publications. These efforts resulted in four SMA data consolidations in 2021, as well as the first updated published SMA since 2017.

FS National Forest Dataset: There was development of a process working with ESRI on the ArcGIS Hub DCAT configuration to allow additional ISO metadata distribution in the json output provided to USDA to be ingested into Data.gov and GeoPlatform. We updated the FS National Forests Dataset (US Forest Service Proclaimed Forests) and GeoPlatform was then able to harvest the record so that it now shows up in GeoPlatform at the following URL: (<https://www.geoplatform.gov/metadata/bd04f8d8-96cc-5eac-96af-566bea975ba3>) As part of this process we have also submitted an Esri enhancement request (Esri Case #02713777 - ArcGIS Hub DCAT Enhancement Request) for them to update their DCAT config tool to allow us to add custom distributions for ISO XML metadata.

Administrative Boundaries of National Park System Units: The NPS made progress towards expectations in this requirement both internally and by working with the Federal Geographic Data Committee (FGDC) National Boundaries Group (NBG) and Federal Lands Working Group (FLWG). Also, this dataset adheres to the NPS Geospatial Program Strategic Plan 2022–2026.

## 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.”

### **Q1. How is the Lead Covered Agency(ies) participating in ensuring the coordinated management of the Theme?** (Select all that apply)

- Agency has published a geospatial strategy as required by the GDA
- No participation in ensuring coordinated management of the Theme
- Theme Executive Champion(s) attend NGDA Theme Community Meetings
- Theme Lead(s) attend NGDA Theme Community Meetings
- Theme Lead(s) participate in GDA Working Group meetings
- Theme Leads(s) review the outcomes from GDA Working Group meetings and provide feedback on approaches for GDA compliance
- Theme Lead(s) coordinate GDA compliance activities with Theme personnel
- Theme Lead(s) communicate new and ongoing Portfolio Management activities and priorities with Dataset Managers in the Theme
- Steering Committee members coordinate with the Theme
- Other [Textbox provided]

### **QA.2. Please check all the activities that have been taken to establish, develop, or modify standards for data within the Theme** (select all that apply):

- Agency reviewed ISO metadata collection tools
- Agency reviewed conformance assessment procedures with assistance from existing standards bodies
- Agency maintains active licenses for all standards (where applicable)
- Agency generates Requests for Information (RFI) to develop new standards and tools
- Agency established processes for standards management
- Agency examined comparable international standards for suitability with NGDA dataset
- Agency examined comparable national standards for suitability with NGDA dataset
- Agency examined comparable FGDC endorsed standards for suitability with NGDA dataset
- Agency examined comparable open-source standards for applicability to NGDA dataset
- Agency developed comparable agency-specific standards to apply to NGDA dataset
- Agency analyzed related international, national, FGDC, open-source, or agency-specific standards to identify components to modify or adapt into specific NGDA dataset standard
- Agency analyzed related international, national, FGDC, open-source, or agency-specific standards to identify components to incorporate into a new specific NGDA dataset standard
- Agency established an appropriate subject-matter expert committee to develop a new standard to meet agency-specific, FGDC, national, international, user, or stakeholder needs for the NGDA dataset
- Appropriate committee created a draft agency-specific, FGDC, national, or international standard for the NGDA dataset
- Agency initiated the agency-specific FGDC, national, or international standard creation process for the NGDA dataset

- An agency-specific, FGDC, national, or international standard creation process in progress for the NGDA dataset
- A draft agency-specific, FGDC, national, or international standard for the NGDA dataset is in public review
- A draft agency-specific, FGDC, national, or international standard for the NGDA dataset is waiting for final approval by the appropriate standards governing body
- Other [Textbox provided]

## Endnotes

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<sup>1</sup> FGDC GDA Information:

<https://fgdc.gov/gda>

<sup>2</sup> NSDI Strategic Plan:

<https://www.fgdc.gov/nsdi-plan>

<sup>3</sup> GeoPlatform Theme Communities:

<https://www.geoplatform.gov/communities>

<sup>4</sup> Stages of the Geospatial Lifecycle:

<https://www.fgdc.gov/policyandplanning/a-16/stages-of-geospatial-data-lifecycle-a16.pdf>

<sup>5</sup> Theme LMA Summary Reports:

[https://communities.geoplatform.gov/ngda-portfolio/national-geospatial-data-asset-ngda-reports/?wdt\\_column\\_filter%5bYear%5d=2015&wdt\\_column\\_filter%5bReport%20Type%5d=Theme%20Summary%20Report](https://communities.geoplatform.gov/ngda-portfolio/national-geospatial-data-asset-ngda-reports/?wdt_column_filter%5bYear%5d=2015&wdt_column_filter%5bReport%20Type%5d=Theme%20Summary%20Report)

<sup>6</sup> NGDA Portfolio Community Site:

<https://communities.geoplatform.gov/ngda-portfolio/>

<sup>7</sup> OMB A-16 Supplemental Guidance Roles and Responsibilities:

<https://fgdc.gov/policyandplanning/a-16/key-roles-and-responsibilities-a16-supplemental.pdf>

<sup>8</sup> NGDA Theme Leads:

<https://communities.geoplatform.gov/ngda-portfolio/ngda-theme-leads/>

<sup>9</sup> NGDA Executive Theme Champions:

<https://communities.geoplatform.gov/ngda-portfolio/ngda-theme-executive-champions/>

<sup>10</sup> NGDA Portfolio Datasets:

<https://communities.geoplatform.gov/ngda-portfolio/ngda-portfolio/>