

FGDC ENDORSED STANDARDS USE SURVEY 2011 – RESULTS

Responses by Department

Department	Response Percent	Response Count
Office of Management and Budget	0.0%	0
Federal Communications Commission	0.0%	0
General Services Administration	6.7%	1
Library of Congress	6.7%	1
National Academy of Sciences	0.0%	0
National Aeronautics and Space Administration	0.0%	0
National Archives and Records Administration	0.0%	0
National Capital Planning Commission	0.0%	0
National Science Foundation	0.0%	0
Office of Personnel Management	0.0%	0
Small Business Administration	0.0%	0
Smithsonian Institution	0.0%	0
Social Security Administration	6.7%	1
Tennessee Valley Authority	6.7%	1
U.S. Agency for International Development	0.0%	0
U.S. Army Corp of Engineers	0.0%	0
Department of Agriculture	13.3%	2
Department of Commerce	13.3%	2

Department of Defense	6.7%	1
Department of Education	6.7%	1
Department of Energy	0.0%	0
Department of Health and Human Services	0.0%	0
Department of Homeland Security	0.0%	0
Department of Housing and Urban Development	6.7%	1
Department of the Interior	20.0%	3
Department of Justice	0.0%	0
Department of Labor	0.0%	0
Department of State	0.0%	0
Department of the Treasury	0.0%	0
Department of Transportation	0.0%	0
Department of Veterans Affairs	0.0%	0
Environmental Protection Agency	6.7%	1
Nuclear Regulatory Commission	0.0%	0
	Total Responses	15

3. Has your agency identified standards applicable for its use, for example, developed a list of applicable standards by subject area?

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		Response Percent	Response Count
Yes		73.3%	11
No		20.0%	3
Don't know		6.7%	1
		answered question	15
		skipped question	0

4. Does your agency measure compliance with standards?

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		Response Percent	Response Count
Yes		46.7%	7
No		46.7%	7
Don't know		6.7%	1
		answered question	15
		skipped question	0

5. For each [FGDC-endorsed standard](#) in the table below, please indicate the use of the standard by your agency/business area by selecting one value in the drop-down for "Use of standard"; AND, 2) provide a recommendation on changes to the standard by selecting one value in the drop-down box for "Recommendation for changes to the standard."

Standard	Use	Plan to use	Not applicable	Applicable but don't use	Don't know
Content Standard for Digital Geospatial Metadata (version 2.0)	80.0% (12)	13.3% (2)	0.0% (0)	6.7% (1)	0.0% (0)
Content Standard for Digital Geospatial Metadata: Part 1, Biological Data Profile	20.0% (3)	6.7% (1)	40.0% (6)	20.0% (3)	13.3% (2)
Content Standard for Digital Geospatial Metadata: Part 2, Metadata Profile for Shoreline Data	26.7% (4)	6.7% (1)	33.3% (5)	6.7% (1)	26.7% (4)
Spatial Data Transfer Standard (SDTS), Parts 1-4	33.3% (5)	6.7% (1)	20.0% (3)	26.7% (4)	13.3% (2)
SDTS Part 5: Raster Profile with Basic Image Interchange Format (BIIF) Extension	26.7% (4)	6.7% (1)	26.7% (4)	26.7% (4)	13.3% (2)
SDTS Part 6: Point Profile	40.0% (6)	6.7% (1)	26.7% (4)	13.3% (2)	13.3% (2)
SDTS Part 7: Computer-Aided Design and Drafting (CADD) Profile	13.3% (2)	6.7% (1)	46.7% (7)	13.3% (2)	20.0% (3)
Cadastral Data Content Standard	26.7% (4)	33.3% (5)	33.3% (5)	0.0% (0)	6.7% (1)
Classification of Wetlands and Deepwater Habitats in the United States	53.3% (8)	6.7% (1)	33.3% (5)	6.7% (1)	0.0% (0)
National Vegetation Classification Standard (Version 2)	46.7% (7)	6.7% (1)	46.7% (7)	0.0% (0)	0.0% (0)
Soil Geographic Data Standard	40.0% (6)	0.0% (0)	46.7% (7)	6.7% (1)	6.7% (1)
Geospatial Positioning Accuracy Standards, Part 1: Reporting Methodology	53.3% (8)	13.3% (2)	13.3% (2)	6.7% (1)	13.3% (2)

Geospatial Positioning Accuracy Standards, Part 2: Standards for Geodetic Networks	26.7% (4)	13.3% (2)	26.7% (4)	0.0% (0)	33.3% (5)
Geospatial Positioning Accuracy Standards, Part 3: National Standard for Spatial Data Accuracy	60.0% (9)	13.3% (2)	13.3% (2)	0.0% (0)	13.3% (2)
Geospatial Positioning Accuracy Standards, Part 4: Architecture, Engineering, Construction, and Facilities Management	20.0% (3)	26.7% (4)	33.3% (5)	0.0% (0)	20.0% (3)
Geospatial Positioning Accuracy Standards, Part 5: Standards for Nautical Charting Hydrographic Surveys	13.3% (2)	0.0% (0)	66.7% (10)	6.7% (1)	13.3% (2)
Content Standard for Digital Orthoimagery	40.0% (6)	6.7% (1)	26.7% (4)	13.3% (2)	13.3% (2)
Content Standard for Remote Sensing Swath Data	26.7% (4)	13.3% (2)	33.3% (5)	6.7% (1)	20.0% (3)
Utilities Data Content Standard	13.3% (2)	13.3% (2)	40.0% (6)	6.7% (1)	26.7% (4)
Standard for a U.S. National Grid	33.3% (5)	13.3% (2)	20.0% (3)	20.0% (3)	13.3% (2)
Content Standard for Digital Geospatial Metadata: Extensions for Remote Sensing Metadata	20.0% (3)	6.7% (1)	26.7% (4)	20.0% (3)	26.7% (4)
Digital Cartographic Standard for Geologic Map Symbolization	33.3% (5)	13.3% (2)	26.7% (4)	0.0% (0)	26.7% (4)
Geographic information Framework Data Standard	26.7% (4)	13.3% (2)	13.3% (2)	13.3% (2)	33.3% (5)
Part 0, Base document, FGDC-STD-014.0-2008	26.7% (4)	13.3% (2)	13.3% (2)	6.7% (1)	40.0% (6)
Part 1, Cadastral, FGDC-STD-014.1-2008	20.0% (3)	13.3% (2)	33.3% (5)	0.0% (0)	33.3% (5)
Part 2, Digital Orthoimagery, FGDC-STD-014.2-2008	26.7% (4)	6.7% (1)	20.0% (3)	13.3% (2)	33.3% (5)
Part 3, Elevation, FGDC-STD-014.3-2008	20.0% (3)	13.3% (2)	26.7% (4)	6.7% (1)	33.3% (5)

STD-014.4-2008					
Part 5, Governmental Unit and Other Geographic Area boundaries, FGDC-STD-014.5-2008	20.0% (3)	13.3% (2)	20.0% (3)	13.3% (2)	33.3% (5)
Part 6, Hydrography, FGDC-STD-014.6-2008	46.7% (7)	6.7% (1)	33.3% (5)	6.7% (1)	6.7% (1)
Part 7, Transportation Base, FGDC-STD-014.7-2008	33.3% (5)	13.3% (2)	26.7% (4)	0.0% (0)	26.7% (4)
Part 7a, Transportation - Air NOT endorsed	0.0% (0)	6.7% (1)	60.0% (9)	0.0% (0)	33.3% (5)
Part 7b, Transportation - Rail, FGDC-STD-014.7b-2008	6.7% (1)	13.3% (2)	33.3% (5)	6.7% (1)	40.0% (6)
Part 7c, Transportation - Road, FGDC-STD-014.7c-2008	33.3% (5)	13.3% (2)	33.3% (5)	0.0% (0)	20.0% (3)
Part 7d, Transportation - Transit, FGDC-STD-014.7d-2008	13.3% (2)	6.7% (1)	53.3% (8)	0.0% (0)	26.7% (4)
Part 7e, Transportation - Inland Waterways, FGDC-STD-014.7e-2008	13.3% (2)	6.7% (1)	40.0% (6)	6.7% (1)	33.3% (5)
Wetlands Mapping Standard	40.0% (6)	13.3% (2)	33.3% (5)	6.7% (1)	6.7% (1)
United States Thoroughfare, Landmark, and Postal Address Data Standard	26.7% (4)	46.7% (7)	20.0% (3)	0.0% (0)	6.7% (1)
GeoTIFF Revision 1.0	46.7% (7)	13.3% (2)	13.3% (2)	6.7% (1)	20.0% (3)
HDF 5, Hierarchical Data Format V 5.0	0.0% (0)	13.3% (2)	20.0% (3)	0.0% (0)	66.7% (10)
INCITS 145 - 1986 [R2007], Codes for Identification of Hydrologic Units in the U.S. and the Caribbean (Outlying) Areas	33.3% (5)	6.7% (1)	33.3% (5)	0.0% (0)	26.7% (4)
INCITS 31-2009, Information technology - Codes for the Identification of Counties and Equivalent Areas of the United States, Puerto Rico, and the Insular Areas	40.0% (6)	13.3% (2)	13.3% (2)	6.7% (1)	26.7% (4)

technology - Codes for the Identification of the States and Equivalent Areas within the United States, Puerto Rico, and the Insular Areas					
INCITS 446-2008, Information technology - Identifying Attributes for Named Physical and Cultural Geographic Features (Except Roads and Highways) of the United States, Its Territories, Outlying Areas, and Freely Associated Areas, and the Waters of the Same to the Limit of the Twelve-Mile Statutory Zone	26.7% (4)	13.3% (2)	33.3% (5)	0.0% (0)	26.7% (4)
INCITS 453 - 2009, Information technology - North American Profile of ISO 19115:2003 - Geographic information - Metadata (NAP - Metadata)	33.3% (5)	33.3% (5)	6.7% (1)	6.7% (1)	20.0% (3)
INCITS 454 - 2009, Information technology - Codes for the Identification of Metropolitan and Micropolitan Statistical Areas and Related Statistical Areas of the United States and Puerto Rico	40.0% (6)	6.7% (1)	20.0% (3)	0.0% (0)	33.3% (5)
INCITS 455 - 2009, Information technology - Codes for the Identification of Congressional Districts and Equivalent Areas of the United States, Puerto Rico, and the Insular Areas	46.7% (7)	6.7% (1)	26.7% (4)	0.0% (0)	20.0% (3)
INCITS/ISO 19107:2003[R2008], Geographic Information - Spatial schema	20.0% (3)	26.7% (4)	13.3% (2)	6.7% (1)	33.3% (5)
INCITS/ISO 19108:2002[R2008] ISO 19108:2002 w/ Cor 1:2006, Geographic information - Temporal schema w/Corrigendum 1	6.7% (1)	20.0% (3)	13.3% (2)	6.7% (1)	53.3% (8)
INCITS/ISO 19110:2005 [R2010], Geographic information - Methodology for Feature Cataloguing	6.7% (1)	26.7% (4)	20.0% (3)	6.7% (1)	40.0% (6)
INCITS/ISO 19111:2007 [2007], Geographic information - Spatial referencing by coordinates	33.3% (5)	26.7% (4)	6.7% (1)	6.7% (1)	26.7% (4)

INCITS/ISO 19111-2:2007, Geographic information - Spatial referencing by coordinates - extension for parametric values	13.3% (2)	20.0% (3)	26.7% (4)	6.7% (1)	33.3% (5)
INCITS/ISO 19112:2003 [2004], Geographic information - Spatial referencing by geographic identifiers	20.0% (3)	26.7% (4)	13.3% (2)	0.0% (0)	40.0% (6)
INCITS/ISO 19115:2003 [R2008] ISO 19115:2003 w/ ISO 19115 Cor. 1:2006, Geographic information - Metadata + Corrigendum 1	0.0% (0)	40.0% (6)	13.3% (2)	6.7% (1)	40.0% (6)
INCITS/ISO 19115-2:2009 [2009], Geographic information - Metadata - Part 2: Extensions for imagery and gridded data	6.7% (1)	26.7% (4)	13.3% (2)	13.3% (2)	40.0% (6)
INCITS/ISO 19118:2005 [2006], Geographic information - Encoding	13.3% (2)	13.3% (2)	6.7% (1)	6.7% (1)	60.0% (9)
INCITS/ISO 19119:2005 [R2010], Geographic information - Services	13.3% (2)	13.3% (2)	6.7% (1)	13.3% (2)	53.3% (8)
INCITS/ISO 19119:2005/AM 1:2008 [2008], Geographic information - Services - Amendment 1: Extensions of the service metadata model	6.7% (1)	13.3% (2)	13.3% (2)	0.0% (0)	66.7% (10)
INCITS/ISO 19123:2005 [2006], Geographic information - Schema for coverage geometry and functions	6.7% (1)	6.7% (1)	13.3% (2)	6.7% (1)	66.7% (10)
INCITS/ISO 19132:2007 [2008], Geographic information - Location Based Services - Reference model	13.3% (2)	13.3% (2)	13.3% (2)	6.7% (1)	53.3% (8)
INCITS/ISO 19133:2005 [2006], Geographic information - Location Based Services - Tracking and navigation	6.7% (1)	6.7% (1)	26.7% (4)	13.3% (2)	46.7% (7)
INCITS/ISO 19134:2007 [2007], Geographic information - Location Based Services - Multimodal routing and navigation	6.7% (1)	0.0% (0)	26.7% (4)	13.3% (2)	53.3% (8)
INCITS/ISO 19135:2005 [2006], Geographic information -	13.3% (2)	13.3% (2)	0.0% (0)	20.0% (3)	53.3% (8)

geographical information items					
INCITS/ISO 19141:2008 [2008], Geographic information - Schema for moving features	0.0% (0)	0.0% (0)	26.7% (4)	6.7% (1)	66.7% (10)
ISO 19109:2005, Geographic information - Rules for application schema	6.7% (1)	26.7% (4)	13.3% (2)	0.0% (0)	53.3% (8)
ISO 19127:2005, Geographic information - Geodetic codes and parameters	13.3% (2)	20.0% (3)	20.0% (3)	6.7% (1)	40.0% (6)
ISO 19131:2007, Geographic information - Data product specifications + Amendment 1	13.3% (2)	13.3% (2)	0.0% (0)	0.0% (0)	73.3% (11)
ISO 19136:2007, Geographic information - Geographic Markup Language	20.0% (3)	13.3% (2)	6.7% (1)	20.0% (3)	40.0% (6)
ISO 19144-1:2009, Geographic information -- Classification Systems -- Part 1: Classification system structure	13.3% (2)	13.3% (2)	13.3% (2)	0.0% (0)	60.0% (9)
ISO 3166, Codes for the Representation of Names Of Countries and their Subdivisions	20.0% (3)	20.0% (3)	20.0% (3)	0.0% (0)	40.0% (6)
ISO 6709:2008/Corrigendum 1:2009, Standards representation of geographic point locations by coordinates w/Corrigendum 1	13.3% (2)	26.7% (4)	6.7% (1)	0.0% (0)	53.3% (8)
ISO/IEC 13818-2:2000, MPEG 2 - video	13.3% (2)	0.0% (0)	33.3% (5)	6.7% (1)	46.7% (7)
ISO/IEC 13818-3:1998, MPEG 2 - audio	13.3% (2)	0.0% (0)	33.3% (5)	13.3% (2)	40.0% (6)
ISO/IEC 15444-1:2004 ITU-T Rec. T.800, JPEG 2000	20.0% (3)	6.7% (1)	26.7% (4)	13.3% (2)	33.3% (5)
ISO/IEC IS 10918-1 ITU-T Recommendation T.81, JPEG	6.7% (1)	6.7% (1)	26.7% (4)	6.7% (1)	53.3% (8)
ISO/TS 19103:2004, Geographic information -- Conceptual schema language	6.7% (1)	6.7% (1)	20.0% (3)	0.0% (0)	66.7% (10)

ISO/TS 19104:2008, Geographic information - Terminology	26.7% (4)	20.0% (3)	0.0% (0)	6.7% (1)	46.7% (7)
ISO/TS 19138:2006, Geographic information -- Data quality measures	26.7% (4)	26.7% (4)	0.0% (0)	0.0% (0)	46.7% (7)
ISO/TS 19139:2007, Geographic information -- Metadata -- XML schema implementation	40.0% (6)	13.3% (2)	6.7% (1)	6.7% (1)	33.3% (5)
NetCDF - (Network Common Data Form)	20.0% (3)	0.0% (0)	13.3% (2)	6.7% (1)	60.0% (9)
OpenGIS® Web Feature Service Implementation Specification, version 1.1.0 with Corrigendum 1	33.3% (5)	20.0% (3)	6.7% (1)	13.3% (2)	26.7% (4)
OpenGIS® Filter Encoding Implementation Specification, version 1.1	13.3% (2)	20.0% (3)	13.3% (2)	0.0% (0)	53.3% (8)
OpenGIS® Web Map Context (WMC) Documents Implementation Specification, Version 1.1.0 w/Corrigendum 1	20.0% (3)	13.3% (2)	6.7% (1)	6.7% (1)	53.3% (8)
OpenGIS® Web Processing Service, Version: 1.0.0 w/ Corrigendum	6.7% (1)	26.7% (4)	6.7% (1)	6.7% (1)	53.3% (8)
OpenGIS® Symbology Encoding Implementation Specification, version 1.1.0	6.7% (1)	20.0% (3)	6.7% (1)	20.0% (3)	46.7% (7)
Styled Layer Descriptor profile of the Web Map Service Implementation Specification, version 1.1.0	33.3% (5)	20.0% (3)	6.7% (1)	0.0% (0)	40.0% (6)
OpenGIS® Sensor Observation Service Interface Standard, version 1.0.0	0.0% (0)	13.3% (2)	20.0% (3)	0.0% (0)	66.7% (10)
OpenGIS® Location Services: Tracking Service Interface Standard	0.0% (0)	6.7% (1)	26.7% (4)	6.7% (1)	60.0% (9)
OpenGIS® Web Map Service Implementation Specification, Version 1.3.0	33.3% (5)	33.3% (5)	6.7% (1)	0.0% (0)	26.7% (4)
OpenGIS® SensorML Encoding	0.0% (0)	13.3% (2)	13.3% (2)	6.7% (1)	66.7% (10)

Corregendum 1 (1.01)					
OpenGIS® Catalogue Service (CAT) Implementation Specification (2.0.2) + Corrigendum for OpenGIS Implementation Specification 07-006: Catalogue Services, Version 2.0.2	6.7% (1)	0.0% (0)	6.7% (1)	20.0% (3)	66.7% (10)
OpenGIS® Catalogue Services Specification 2.0.2 - ISO Metadata Application Profile	6.7% (1)	13.3% (2)	13.3% (2)	6.7% (1)	60.0% (9)
OpenGIS® Web Map Tile Service Implementation Standard, version 1.0.0	20.0% (3)	6.7% (1)	20.0% (3)	6.7% (1)	46.7% (7)
OpenGIS® Web Coverage Service (WCS) Implementation Standard, version 1.1.2 w/Corregindum 2	20.0% (3)	0.0% (0)	13.3% (2)	6.7% (1)	60.0% (9)
OpenGIS® Location Services (OpenLS): Core Services, version 1.2	6.7% (1)	13.3% (2)	20.0% (3)	6.7% (1)	53.3% (8)
OGC KML 2.2 – Abstract Test Suite (1.0.0)	13.3% (2)	6.7% (1)	20.0% (3)	6.7% (1)	53.3% (8)
OpenGIS® KML, version 2.2.0	46.7% (7)	20.0% (3)	13.3% (2)	6.7% (1)	13.3% (2)
OpenGIS® Location Services (OpenLS): Part 6-Navigation Service	0.0% (0)	6.7% (1)	26.7% (4)	20.0% (3)	46.7% (7)
OpenGIS® Location Services: Tracking Service Interface Standard	0.0% (0)	6.7% (1)	20.0% (3)	13.3% (2)	60.0% (9)
OpenGIS® Sensor Planning Service Implementation Specification, version 1.0.0	0.0% (0)	13.3% (2)	20.0% (3)	13.3% (2)	53.3% (8)
TIFF Revision 6.0, Tagged Image File Format (TIFF)	46.7% (7)	6.7% (1)	20.0% (3)	6.7% (1)	20.0% (3)
Unified Model Language (UML) 2.2	26.7% (4)	6.7% (1)	20.0% (3)	13.3% (2)	33.3% (5)

5. For each [FGDC-endorsed standard](#) in the table below, please provide a recommendation on changes to the standard by selecting one value in the drop-down box for "Recommendation for changes to the standard."

Standard	No changes recommended	Revise	Retire	Don't know
Content Standard for Digital Geospatial Metadata (version 2.0)	73.3% (11)	6.7% (1)	13.3% (2)	6.7% (1)
Content Standard for Digital Geospatial Metadata: Part 1, Biological Data Profile	60.0% (9)	6.7% (1)	0.0% (0)	33.3% (5)
Content Standard for Digital Geospatial Metadata: Part 2, Metadata Profile for Shoreline Data	53.3% (8)	6.7% (1)	0.0% (0)	40.0% (6)
Spatial Data Transfer Standard (SDTS), Parts 1-4	33.3% (5)	0.0% (0)	40.0% (6)	26.7% (4)
SDTS Part 5: Raster Profile with Basic Image Interchange Format (BIIF) Extension	33.3% (5)	0.0% (0)	33.3% (5)	33.3% (5)
SDTS Part 6: Point Profile	33.3% (5)	0.0% (0)	40.0% (6)	26.7% (4)
SDTS Part 7: Computer-Aided Design and Drafting (CADD) Profile	33.3% (5)	0.0% (0)	33.3% (5)	33.3% (5)
Cadastral Data Content Standard	66.7% (10)	0.0% (0)	0.0% (0)	33.3% (5)
Classification of Wetlands and Deepwater Habitats in the United States	73.3% (11)	0.0% (0)	0.0% (0)	26.7% (4)
National Vegetation Classification Standard (Version 2)	73.3% (11)	0.0% (0)	0.0% (0)	26.7% (4)
Soil Geographic Data Standard	53.3% (8)	6.7% (1)	0.0% (0)	40.0% (6)
Geospatial Positioning Accuracy Standards, Part 1: Reporting Methodology	66.7% (10)	13.3% (2)	0.0% (0)	20.0% (3)
Geospatial Positioning Accuracy Standards, Part 2: Standards for Geodetic Networks	40.0% (6)	13.3% (2)	0.0% (0)	46.7% (7)
Geospatial Positioning Accuracy Standards, Part 3: National Standard for Spatial Data Accuracy	60.0% (9)	6.7% (1)	0.0% (0)	33.3% (5)

Geospatial Positioning Accuracy Standards, Part 4: Architecture, Engineering, Construction, and Facilities Management	53.3% (8)	6.7% (1)	0.0% (0)	40.0% (6)
Geospatial Positioning Accuracy Standards, Part 5: Standards for Nautical Charting Hydrographic Surveys	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
Content Standard for Digital Orthoimagery	33.3% (5)	20.0% (3)	6.7% (1)	40.0% (6)
Content Standard for Remote Sensing Swath Data	40.0% (6)	13.3% (2)	6.7% (1)	40.0% (6)
Utilities Data Content Standard	46.7% (7)	6.7% (1)	6.7% (1)	40.0% (6)
Standard for a U.S. National Grid	66.7% (10)	0.0% (0)	6.7% (1)	26.7% (4)
Content Standard for Digital Geospatial Metadata: Extensions for Remote Sensing Metadata	53.3% (8)	6.7% (1)	0.0% (0)	40.0% (6)
Digital Cartographic Standard for Geologic Map Symbolization	60.0% (9)	0.0% (0)	0.0% (0)	40.0% (6)
Geographic information Framework Data Standard	46.7% (7)	13.3% (2)	0.0% (0)	40.0% (6)
Part 0, Base document, FGDC-STD-014.0-2008	53.3% (8)	6.7% (1)	0.0% (0)	40.0% (6)
Part 1, Cadastral, FGDC-STD-014.1-2008	53.3% (8)	0.0% (0)	0.0% (0)	46.7% (7)
Part 2, Digital Orthoimagery, FGDC-STD-014.2-2008	40.0% (6)	13.3% (2)	0.0% (0)	46.7% (7)
Part 3, Elevation, FGDC-STD-014.3-2008	40.0% (6)	13.3% (2)	0.0% (0)	46.7% (7)
Part 4, Geodetic Control, FGDC-STD-014.4-2008	46.7% (7)	6.7% (1)	0.0% (0)	46.7% (7)
Part 5, Governmental Unit and Other Geographic Area boundaries, FGDC-STD-014.5-2008	46.7% (7)	13.3% (2)	0.0% (0)	40.0% (6)
Part 6, Hydrography, FGDC-STD-014.6-2008	66.7% (10)	6.7% (1)	0.0% (0)	26.7% (4)
Part 7, Transportation Base, FGDC-STD-014.7-2008	53.3% (8)	6.7% (1)	0.0% (0)	40.0% (6)
Part 7a, Transportation - Air NOT endorsed	46.7% (7)	0.0% (0)	0.0% (0)	53.3% (8)

Part 7b, Transportation - Rail, FGDC-STD-014.7b-2008	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
Part 7c, Transportation - Road, FGDC-STD-014.7c-2008	53.3% (8)	6.7% (1)	0.0% (0)	40.0% (6)
Part 7d, Transportation - Transit, FGDC-STD-014.7d-2008	46.7% (7)	0.0% (0)	0.0% (0)	53.3% (8)
Part 7e, Transportation - Inland Waterways, FGDC-STD-014.7e-2008	46.7% (7)	0.0% (0)	0.0% (0)	53.3% (8)
Wetlands Mapping Standard	66.7% (10)	6.7% (1)	0.0% (0)	26.7% (4)
United States Thoroughfare, Landmark, and Postal Address Data Standard	73.3% (11)	0.0% (0)	0.0% (0)	26.7% (4)
GeoTIFF Revision 1.0	60.0% (9)	6.7% (1)	0.0% (0)	33.3% (5)
HDF 5, Hierarchical Data Format V 5.0	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
INCITS 145 - 1986 [R2007], Codes for Identification of Hydrologic Units in the U.S. and the Caribbean (Outlying) Areas	60.0% (9)	0.0% (0)	0.0% (0)	40.0% (6)
INCITS 31-2009, Information technology - Codes for the Identification of Counties and Equivalent Areas of the United States, Puerto Rico, and the Insular Areas	60.0% (9)	0.0% (0)	0.0% (0)	40.0% (6)
INCITS 38-2009, Information technology - Codes for the Identification of the States and Equivalent Areas within the United States, Puerto Rico, and the Insular Areas	53.3% (8)	6.7% (1)	0.0% (0)	40.0% (6)
INCITS 446-2008, Information technology - Identifying Attributes for Named Physical and Cultural Geographic Features (Except Roads and Highways) of the United States, Its Territories, Outlying Areas, and Freely Associated Areas, and the Waters of the Same to the Limit of the Twelve-Mile Statutory Zone	46.7% (7)	0.0% (0)	0.0% (0)	53.3% (8)
INCITS 453 - 2009, Information technology - North American Profile of ISO 19115:2003 - Geographic information - Metadata (NAP - Metadata)	60.0% (9)	6.7% (1)	0.0% (0)	33.3% (5)
INCITS 454 - 2009, Information technology - Codes for the Identification of Metropolitan and Micropolitan Statistical Areas and Related Statistical Areas of the United States and Puerto Rico	53.3% (8)	0.0% (0)	0.0% (0)	46.7% (7)

INCITS 455 - 2009, Information technology - Codes for the Identification of Congressional Districts and Equivalent Areas of the United States, Puerto Rico, and the Insular Areas	60.0% (9)	6.7% (1)	0.0% (0)	33.3% (5)
INCITS/ISO 19107:2003[R2008], Geographic Information - Spatial schema	46.7% (7)	0.0% (0)	0.0% (0)	53.3% (8)
INCITS/ISO 19108:2002[R2008] ISO 19108:2002 w/ Cor 1:2006, Geographic information - Temporal schema w/Corrigendum 1	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
INCITS/ISO 19110:2005 [R2010], Geographic information - Methodology for Feature Cataloguing	46.7% (7)	0.0% (0)	0.0% (0)	53.3% (8)
INCITS/ISO 19111:2007 [2007], Geographic information - Spatial referencing by coordinates	53.3% (8)	0.0% (0)	0.0% (0)	46.7% (7)
INCITS/ISO 19111-2:2007, Geographic information - Spatial referencing by coordinates - extension for parametric values	46.7% (7)	0.0% (0)	0.0% (0)	53.3% (8)
INCITS/ISO 19112:2003 [2004], Geographic information - Spatial referencing by geographic identifiers	53.3% (8)	0.0% (0)	0.0% (0)	46.7% (7)
INCITS/ISO 19115:2003 [R2008] ISO 19115:2003 w/ ISO 19115 Cor. 1:2006, Geographic information - Metadata + Corrigendum 1	40.0% (6)	13.3% (2)	0.0% (0)	46.7% (7)
INCITS/ISO 19115-2:2009 [2009], Geographic information - Metadata - Part 2: Extensions for imagery and gridded data	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
INCITS/ISO 19118:2005 [2006], Geographic information - Encoding	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
INCITS/ISO 19119:2005 [R2010], Geographic information - Services	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
INCITS/ISO 19119:2005/AM 1:2008 [2008], Geographic information - Services - Amendment 1: Extensions of the service metadata model	33.3% (5)	0.0% (0)	0.0% (0)	66.7% (10)
INCITS/ISO 19123:2005 [2006], Geographic information - Schema for coverage geometry and functions	26.7% (4)	0.0% (0)	0.0% (0)	73.3% (11)
INCITS/ISO 19132:2007 [2008], Geographic	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)

information - Location Based Services - Reference model				
INCITS/ISO 19133:2005 [2006], Geographic information - Location Based Services - Tracking and navigation	26.7% (4)	0.0% (0)	0.0% (0)	73.3% (11)
INCITS/ISO 19134:2007 [2007], Geographic information - Location Based Services - Multimodal routing and navigation	26.7% (4)	0.0% (0)	0.0% (0)	73.3% (11)
INCITS/ISO 19135:2005 [2006], Geographic information - Procedures for registration of geographical information items	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
INCITS/ISO 19141:2008 [2008], Geographic information - Schema for moving features	26.7% (4)	0.0% (0)	0.0% (0)	73.3% (11)
ISO 19109:2005, Geographic information - Rules for application schema	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
ISO 19127:2005, Geographic information - Geodetic codes and parameters	26.7% (4)	0.0% (0)	0.0% (0)	73.3% (11)
ISO 19131:2007, Geographic information - Data product specifications + Amendment 1	33.3% (5)	0.0% (0)	0.0% (0)	66.7% (10)
ISO 19136:2007, Geographic information - Geographic Markup Language	46.7% (7)	6.7% (1)	0.0% (0)	46.7% (7)
ISO 19144-1:2009, Geographic information -- Classification Systems -- Part 1: Classification system structure	26.7% (4)	0.0% (0)	0.0% (0)	73.3% (11)
ISO 3166, Codes for the Representation of Names Of Countries and their Subdivisions	46.7% (7)	6.7% (1)	0.0% (0)	46.7% (7)
ISO 6709:2008/Corrigendum 1:2009, Standards representation of geographic point locations by coordinates w/Corrigendum 1	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
ISO/IEC 13818-2:2000, MPEG 2 - video	33.3% (5)	0.0% (0)	0.0% (0)	66.7% (10)
ISO/IEC 13818-3:1998, MPEG 2 - audio	33.3% (5)	0.0% (0)	0.0% (0)	66.7% (10)
ISO/IEC 15444-1:2004 ITU-T Rec. T.800, JPEG 2000	46.7% (7)	0.0% (0)	0.0% (0)	53.3% (8)
ISO/IEC IS 10918-1 ITU-T Recommendation T.81, JPEG	26.7% (4)	0.0% (0)	0.0% (0)	73.3% (11)

ISO/TS 19103:2004, Geographic information -- Conceptual schema language	26.7% (4)	0.0% (0)	0.0% (0)	73.3% (11)
ISO/TS 19104:2008, Geographic information - Terminology	46.7% (7)	0.0% (0)	0.0% (0)	53.3% (8)
ISO/TS 19138:2006, Geographic information -- Data quality measures	46.7% (7)	6.7% (1)	0.0% (0)	46.7% (7)
ISO/TS 19139:2007, Geographic information -- Metadata -- XML schema implementation	46.7% (7)	6.7% (1)	0.0% (0)	46.7% (7)
NetCDF - (Network Common Data Form)	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
OpenGIS® Web Feature Service Implementation Specification, version 1.1.0 with Corrigendum 1	53.3% (8)	0.0% (0)	6.7% (1)	40.0% (6)
OpenGIS® Filter Encoding Implementation Specification, version 1.1	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
OpenGIS® Web Map Context (WMC) Documents Implementation Specification, Version 1.1.0 w/Corrigendum 1	40.0% (6)	6.7% (1)	0.0% (0)	53.3% (8)
OpenGIS® Web Processing Service, Version: 1.0.0 w/ Corrigendum	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
OpenGIS® Symbology Encoding Implementation Specification, version 1.1.0	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
Styled Layer Descriptor profile of the Web Map Service Implementation Specification, version 1.1.0	46.7% (7)	0.0% (0)	0.0% (0)	53.3% (8)
OpenGIS® Sensor Observation Service Interface Standard, version 1.0.0	33.3% (5)	0.0% (0)	0.0% (0)	66.7% (10)
OpenGIS® Location Services: Tracking Service Interface Standard	33.3% (5)	0.0% (0)	0.0% (0)	66.7% (10)
OpenGIS® Web Map Service Implementation Specification, Version 1.3.0	53.3% (8)	13.3% (2)	0.0% (0)	33.3% (5)
OpenGIS® SensorML Encoding Standard v 1.0 w/Schema Corregendum 1 (1.01)	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
OpenGIS® Catalogue Service (CAT) Implementation Specification (2.0.2) + Corrigendum for OpenGIS Implementation Specification 07-006: Catalogue Services, Version 2.0.2	26.7% (4)	0.0% (0)	0.0% (0)	73.3% (11)

OpenGIS® Catalogue Services Specification 2.0.2 - ISO Metadata Application Profile	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
OpenGIS® Web Map Tile Service Implementation Standard, version 1.0.0	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
OpenGIS® Web Coverage Service (WCS) Implementation Standard, version 1.1.2 w/Corregendum 2	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
OpenGIS® Location Services (OpenLS): Core Services, version 1.2	33.3% (5)	0.0% (0)	0.0% (0)	66.7% (10)
OGC KML 2.2 – Abstract Test Suite (1.0.0)	40.0% (6)	0.0% (0)	0.0% (0)	60.0% (9)
OpenGIS® KML, version 2.2.0	66.7% (10)	0.0% (0)	0.0% (0)	33.3% (5)
OpenGIS® Location Services (OpenLS): Part 6-Navigation Service	26.7% (4)	0.0% (0)	0.0% (0)	73.3% (11)
OpenGIS® Location Services: Tracking Service Interface Standard	33.3% (5)	0.0% (0)	6.7% (1)	60.0% (9)
OpenGIS® Sensor Planning Service Implementation Specification, version 1.0.0	33.3% (5)	0.0% (0)	0.0% (0)	66.7% (10)
TIFF Revision 6.0, Tagged Image File Format (TIFF)	53.3% (8)	6.7% (1)	0.0% (0)	40.0% (6)
Unified Model Language (UML) 2.2	66.7% (10)	0.0% (0)	0.0% (0)	33.3% (5)

**6. What additional geospatial standards does your Organization / Agency / Program use?
Please list the names of the standards.**

- A variety of internal NPS standards to support programs and active data themes.
- Forest Service GIS Data Dictionary Standards
- Spatial Data Standards for Facilities, Infrastructure, and Environment (SDSFIE) Federal Real Property Profile - data model DoD Real Property Information Model DoD Cultural Resources Data Model
- Our Census Bureau Geospatial Product Metadata Standard- essentially 6 metadata profiles for types of products we create, including maps, vector files, tabular data, etc.
- GSA NCR, GSA Nationally (through the Office of Real Property Management) is currently spearheading the effort to create the FGDC Federal Buildings and Facilities Geospatial Data Content Standard. In short, this standard endeavors to provide a consistent schema for location and attribute data for all federal buildings and major properties. Contacts for this initiative are George Deryckere (who has been made aware of this query) and Sandra Downie. In conjunction with the development of this standard several standards are being reviewed including those in the following table (taken from the proposal for the FGDC Federal Buildings and Facilities Geospatial Data Content Standard dated January 2010)
- Naming Standards of the US Board on Geographic Names
- We recommend use of FGDC endorsed standards and consideration of OGC open standards for geospatial. SSA has a very small program at this time and is primarily developing the facilities and emergency management while evaluating potential use cases across SSA.
- NRCS uses FGDC standards as the baseline where appropriate

7. What additional geospatial standards does your Organization / Agency / Program need or have an interest in? Please identify topic areas for standards and describe the need or interest in brief detail. *The purpose of this question is to collect requirements for standards - these standards might not exist and therefore need to be developed.*

- Geodetic Implementation Standards for High Accuracy Bench Marks and Monumentation
- None at this time, additional vegetation classification standards are being revised and refined.
- Address geocoding outputs - standard naming conventions for fields (e.g, census tract by decennial, congressional district)
- There is a need for a federal data content standard for mapping real property, as defined by FRPP.
- The greatest requirement for standards is an implementation guide. Even with each standard summarized, I can tell it may apply, but I'm not a techie, and I probably know more than most filling out this survey. I fear that many of the ISO standards will go by the wayside.
- OpenGIS GML/CityGML - May prove useful to translate data into such a format to represent buildings down to a detailed level of representation to facilitate consistent representation and querying. BISDM - Geospatial database definition for 3D buildings, not a standard, but may prove useful for the same purposes as CityGML
- Standards for development of equidistant boundaries. For example: where two coastal states share a common boundary that could extend laterally offshore, and an agreement for the lateral boundary between the two states does not exist. BOEM desires standards for generating an equidistant boundary based on the adjacent shorelines.
- Data development of conservation planning and practices at the farm and ranch level of detail using NAIP and high resolution imagery and GPS technology. NRCS is currently developing these standards drawing from FGDC standards where appropriate.
- NOAA intends to submit the National Shoreline Data Content Standard this summer (2011).

8. Please indicate the relevance of the geospatial standards subject areas listed below to your agency. You must select one option for each geospatial standards subject area.

Subject Area	Relevant	Not relevant	Don't know if relevant
Still imagery and gridded data	86.7% (13)	13.3% (2)	0.0% (0)
Motion imagery and video	33.3% (5)	53.3% (8)	13.3% (2)
Imaging sensor models	46.7% (7)	46.7% (7)	6.7% (1)
Overhead persistent infrared	26.7% (4)	60.0% (9)	13.3% (2)
Portrayal – visualization	60.0% (9)	26.7% (4)	13.3% (2)
Applications schema for feature encoding	80.0% (12)	20.0% (3)	0.0% (0)
Human geography	73.3% (11)	20.0% (3)	6.7% (1)
Metadata	100.0% (15)	0.0% (0)	0.0% (0)
Information transfer and services architecture	100.0% (15)	0.0% (0)	0.0% (0)