

# How GIS is Used to Meet OMB Circular A-16 Requirements

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SWUG Conference

Oct 21, 2004

# The Purpose of A-16

- Many governmental agencies are funded by the OMB for mapping efforts...



# OMB Circular A-16

[http://www.whitehouse.gov/omb/circulars/a016/print/a016\\_rev.html](http://www.whitehouse.gov/omb/circulars/a016/print/a016_rev.html)

- The purpose of the Circular was **"to ensure that surveying and mapping activities may be directed toward meeting the needs of federal and state agencies and the general public, and will be performed expeditiously, without duplication of effort."**

# A-16 History

- Originally issued by the President's Office of Management & Budget (OMB) in **1953** to coordinate topographic mapping activities, National Atlas, Geodetic Control Surveys and International Boundaries.
- A 1967 revision placed responsibility for coordination of mapmaking and surveying to the Dept. of Interior, Dept. of Commerce, and Dept. of State.
- A 1990 revision included “geographically referenced **digital** data”.
- August 19, 2002 revision incorporated Executive Order 12906 to recognize the implementation of the National Spatial Data Infrastructure (**NSDI**) and the authority of the Federal Geographic Data Committee (**FGDC**) for NSDI coordination.

# A-16 Outlines the Provisions of the National Spatial Data Infrastructure



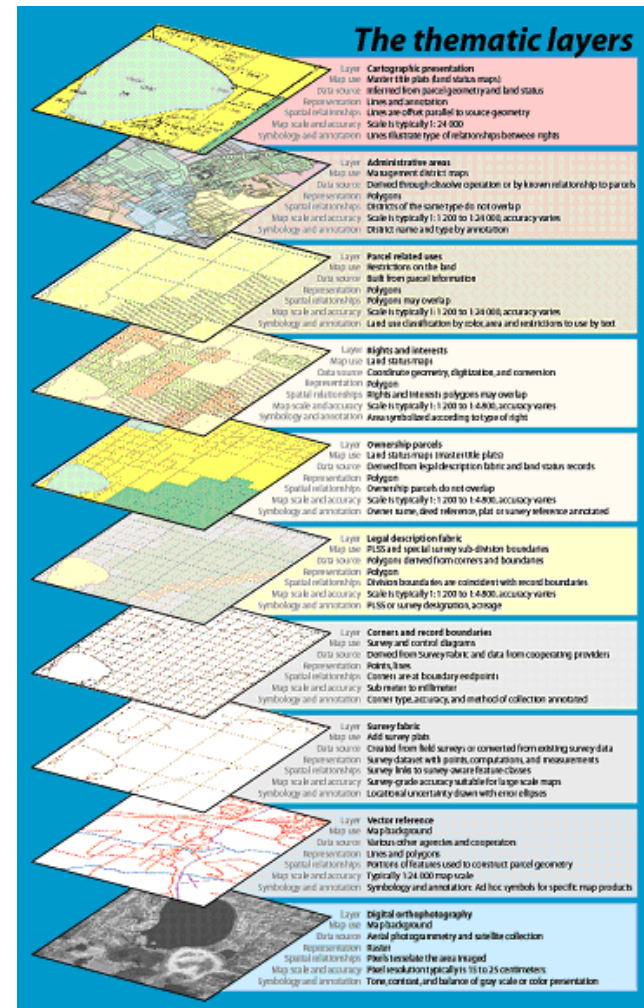
- Data Themes
- Metadata
- National Spatial Data Clearinghouse
- Standards
- Partnerships

# Questions People Have Regarding Federally Produced Spatial Data

- Who is the data steward for a particular spatial data theme.
- What data layers are available from the government to the public?
- Where does one go to find Spatial Data?
- When (and how) was the data collected?
- How can I view and use the data?

# A-16 Describes Specific Framework Data Layers and Assigns Agency Responsibility

- Geodetic Control
- Cadastral
- Governmental Units
- Transportation
- Elevation and Bathymetry
- Hydrography
- Orthoimagery
- Plus 27 others...



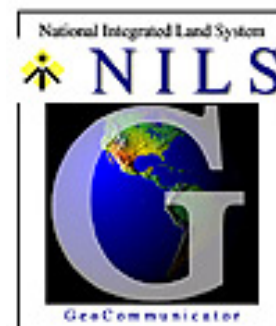
# Meeting A-16 Requirements

- Take **responsibility** for your assigned data layer.
- Work with your **partners** to move toward **standardization & interoperability**.
- Document with **METADATA!**
- Make your data **accessible** through a spatial data clearinghouse.



# Demonstration

- The National Integrated Land System (NILS) is serving the Bureau of Land Management's assigned spatial data layers in compliance with OMB A-16 Requirements.



<http://www.geocommunicator.gov>

# NILS Spatial Data Layers

- Land Survey Information
- Federal Land Stewardship
- Land & Mineral Use Records

Serving National Spatial Data Layers for the BLM as directed by OMB Circular A-16

[http://www.whitehouse.gov/omb/circulars/a016/a016\\_rev.html](http://www.whitehouse.gov/omb/circulars/a016/a016_rev.html)

# GeoCommunicator: The Portal to NILS Spatial Data

GeoCommunicator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

**GeoCommunicator**  
www.geocommunicator.gov

Home  
About  
**Land & Mineral Use Records**  
**Federal Land Stewardship**  
**Land Survey Information**  
Reference  
Search Geodata.gov  
Contact Us

GeoCommunicator is a land management and land records community based web site for the distribution of information and data from the National Integrated Land System.

GeoCommunicator provides:

- **Land & Mineral Use Records** providing spatial display of the BLM's land and mineral use authorizations and mining claims.
- **Federal Land Stewardship** for locating, viewing, and contacting federal surface management agencies.
- **Land Survey Information** providing the Public Land Survey System (PLSS) and other survey-based data for downloading or image streaming.
- **Reference** documents and information for the cadastral, land records, and parcel management communities.
- **Link to Geodata.gov** portal for searching, locating, and accessing U.S. maps and data.



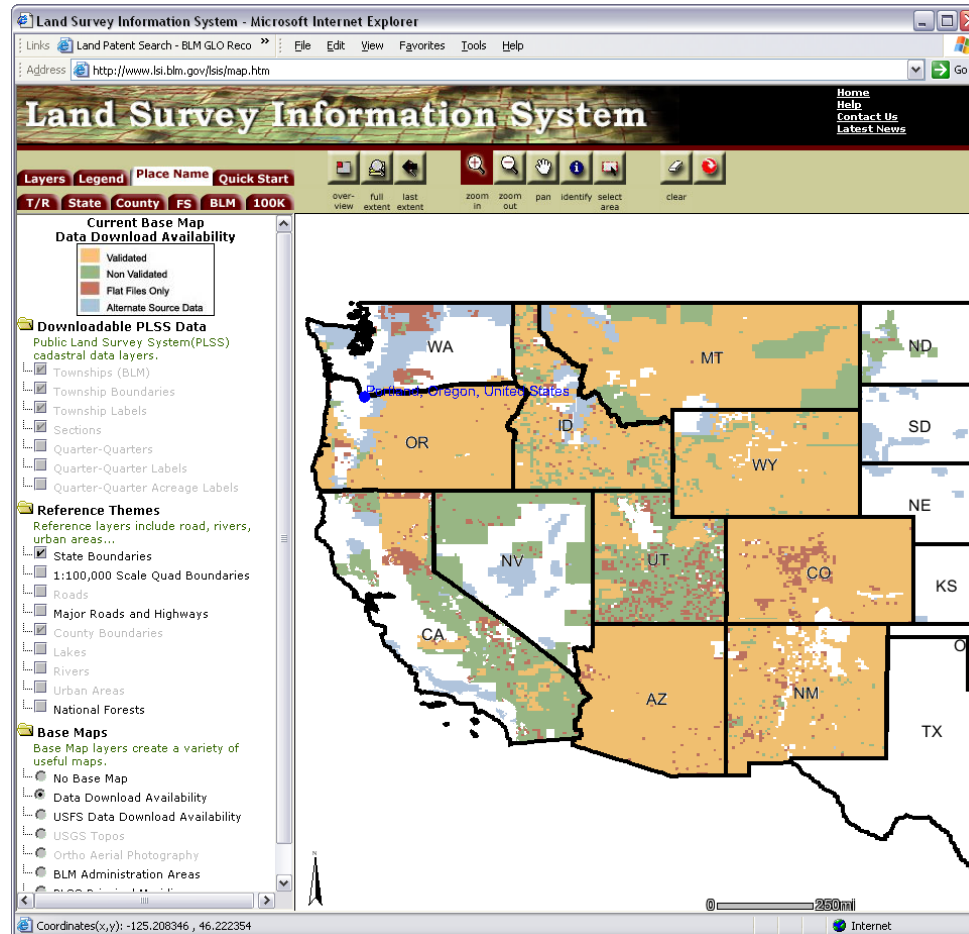
GeoCommunicator is an official United States Government web site. GeoCommunicator is provided by the **Bureau of Land Management** & the **U.S. Forest Service**. This is a U.S. Government Computer System. Before continuing, please read GeoCommunicator's **Privacy/Security Policy**. Please use the **Contact Form** with any questions relating to accessibility of documents.

This site uses **cookies**.

Local intranet

# Land Survey Information

- A Seamless Multi-Purpose Cadastre

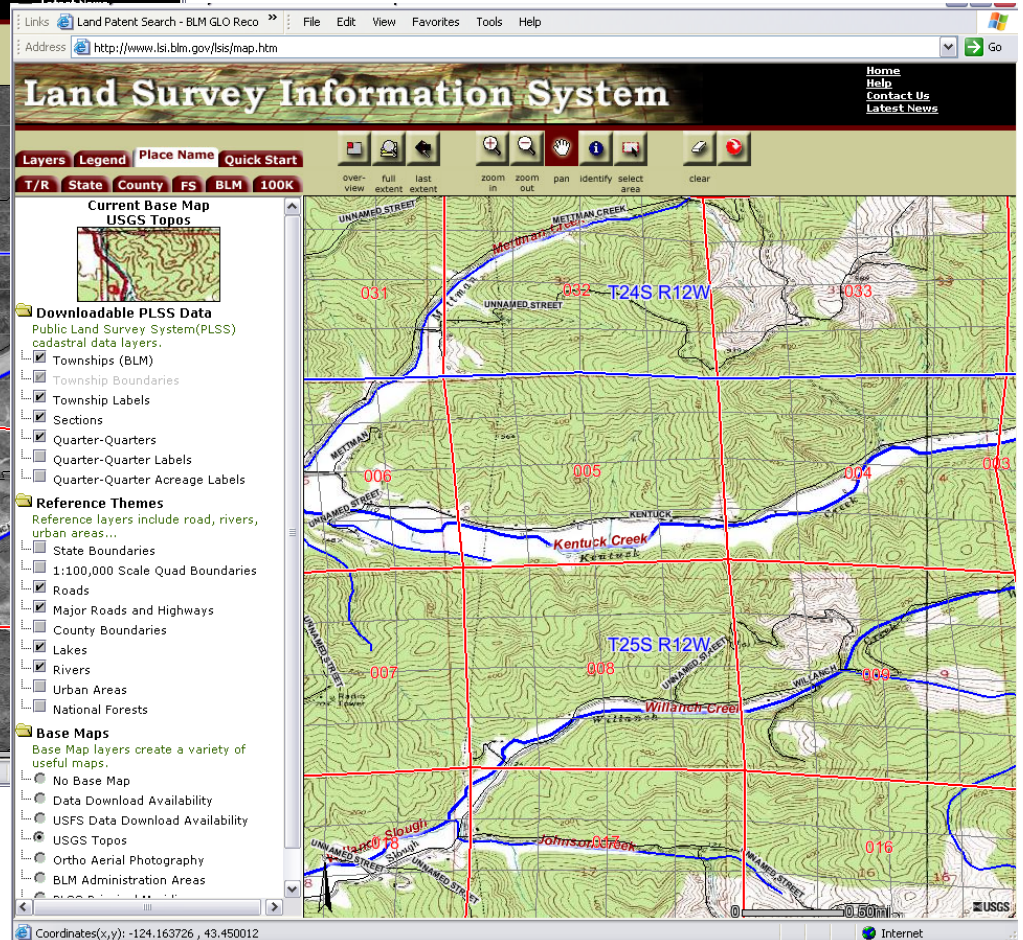
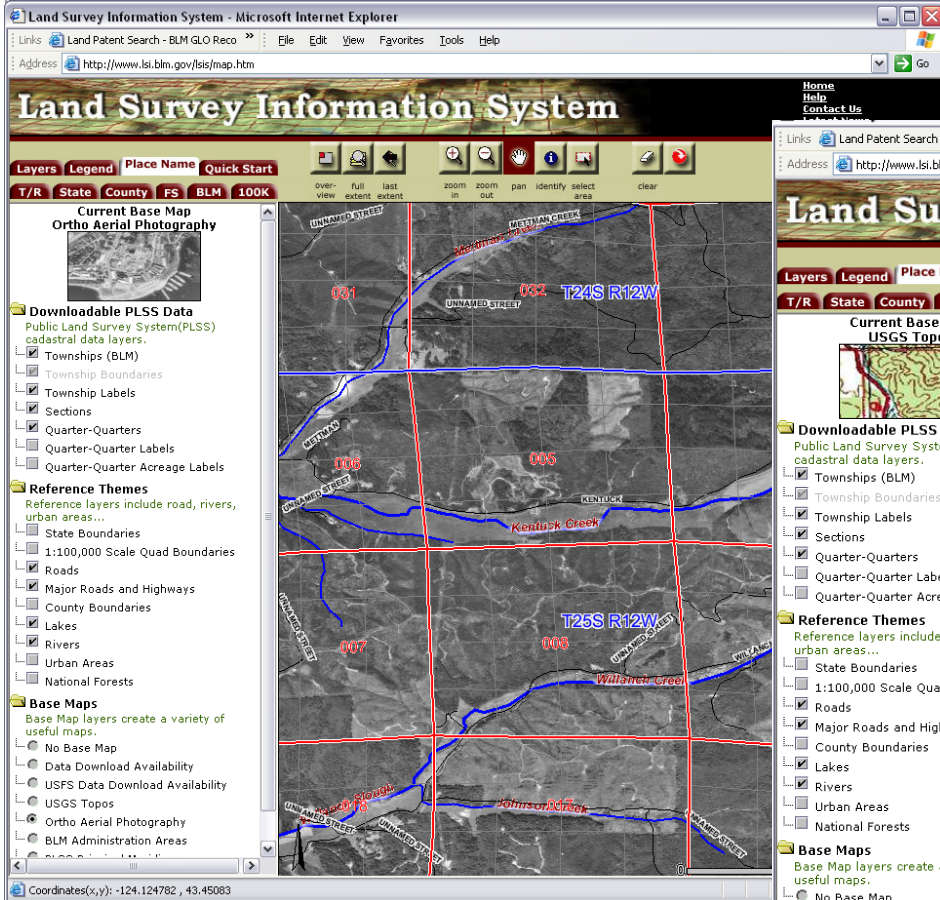


# Data is delivered 3 ways...

The screenshot displays the Land Survey Information System (Lsis) web application running in Microsoft Internet Explorer. The browser's address bar shows the URL <http://www.lsi.blm.gov/lsis/map.htm>. The application header features the title "Land Survey Information System" and navigation links for Home, Help, Contact Us, and Latest News. Below the header is a toolbar with icons for over-view, full extent, last extent, zoom in, zoom out, pan, identify, select area, and clear. A secondary toolbar includes buttons for T/R, State, County, FS, BLM, and 100K. The main interface is divided into a left-hand sidebar and a central map area. The sidebar contains several sections: "Current Base Map Data Download Availability" with a legend for Validated (orange), Non Validated (green), Flat Files Only (red), and Alternate Source Data (blue); "Downloadable PLSS Data" listing Public Land Survey System (PLSS) cadastral data layers such as Townships (BLM), Township Boundaries, Township Labels, Sections, Quarter-Quarters, Quarter-Quarter Labels, and Quarter-Quarter Acreage Labels; "Reference Themes" including road, rivers, and urban areas; "Base Maps" with options for No Base Map, Data Download Availability, USFS Data Download Availability, USGS Topos, Ortho Aerial Photography, BLM Administration Areas, PLSS Principal Meridians, and Shaded Relief. The central map area shows a grid of township and range coordinates (e.g., T205 R12W, T205 R11W) overlaid on a topographic map. Labels for "Curry", "Douglas", and "Josephine" counties are visible. A north arrow and a scale bar are located at the bottom of the map. The status bar at the bottom left shows coordinates (x,y): -124.716093, 43.416306, and the bottom right shows the Internet icon.

1

- Viewable from the web interface



# 2

- Downloadable as Shapefiles

**Selected Townships**  
Custom Selection

To download data, select the desired Provider and Format, and press button.

- BLM (GIS Shapefile format)
- BLM (GCDB Flat File format [Info...](#))
- USFS and other Sources (GIS Shapefile format)

**Download Now**

Total Records: 2		Data Availab Status	
Township	Updated	BLM	USFS And Sour
1 OR 33 T024S R012W	28 Oct 2002	Yes	-
2 OR 33 T025S R012W	28 Oct 2002	Yes	-

**Close**

**FME Download - Microsoft Internet Explorer**

**SpatialDirect**  
WEB-BASED DATA DELIVERY

Dynamically download all Townships currently displayed on the map. A variety of Data formats and projections are supported by this feature.

*NOTE: To download large extents like an entire state, you can use the Query tools(ie. State Query) to download pre-packaged zip files. These pre-packaged files are limited to Shapefile format, using Geographic NAD27 coordinate system.*

**Download Format:**  
ESRI Shape  
AutoCAD DWG (R14)  
AutoCAD DWG (R2000)  
AutoCAD DXF (R12)  
AutoCAD DXF (R14)  
AutoCAD DXF (R2000)  
Caris NTX  
EPS (Encapsulated PS)  
IEPS (Illustrator EPS)  
ESRI Arc/Info Coverage  
ESRI Arc/Info Export (E00)  
ESRI Arc/Info Generate  
ESRI GML  
ESRI Shape  
FME Feature Store File  
Geographix CDF  
GML 2 (Safe Schema)  
Landmark 7.MAD

**Coordinates:**  
Lat/Long NAD83

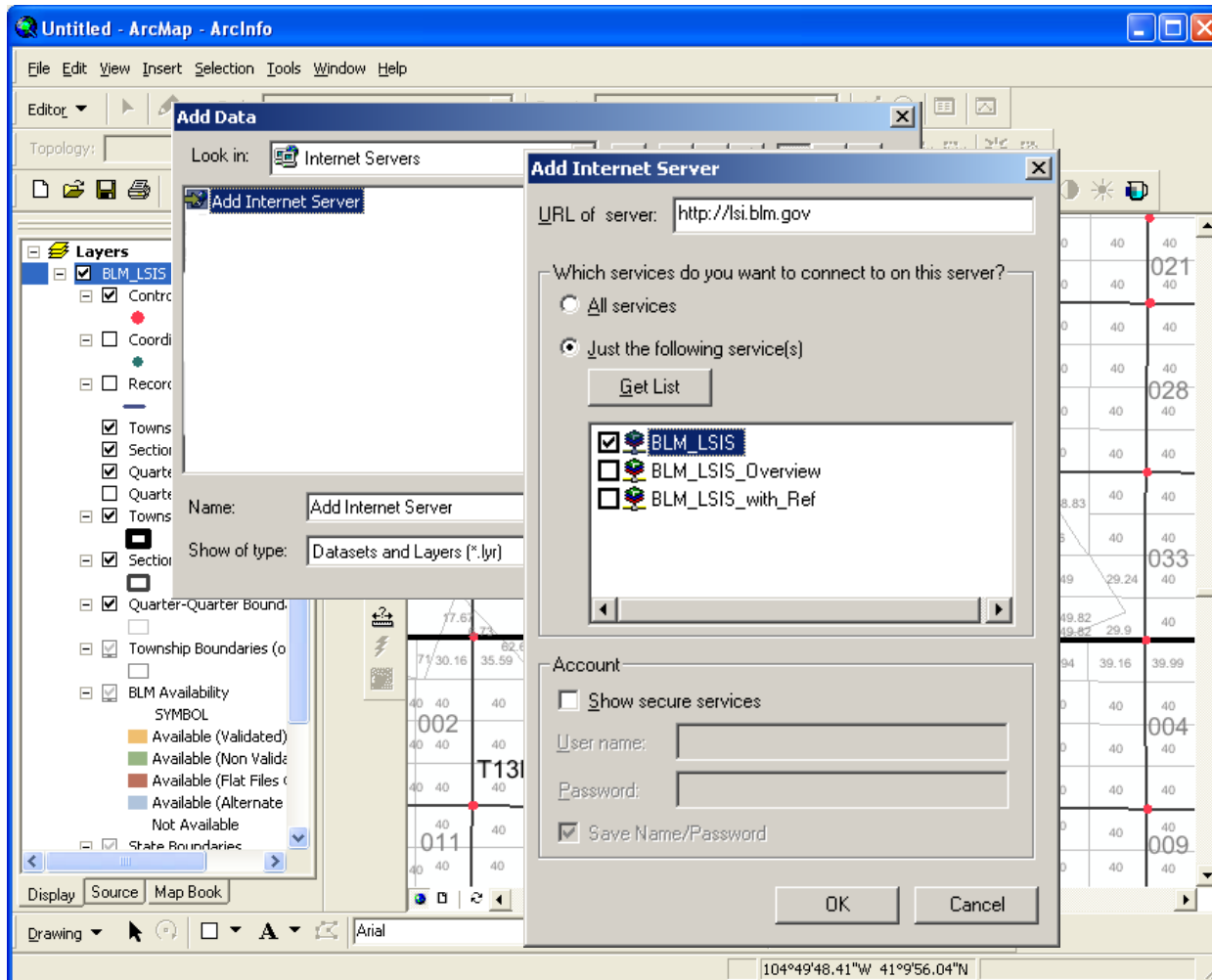
**Layers:**  
Townships  
Sections  
Aliquots

**Translate Data**

... requests. A notification e-mail will be sent to

# 3

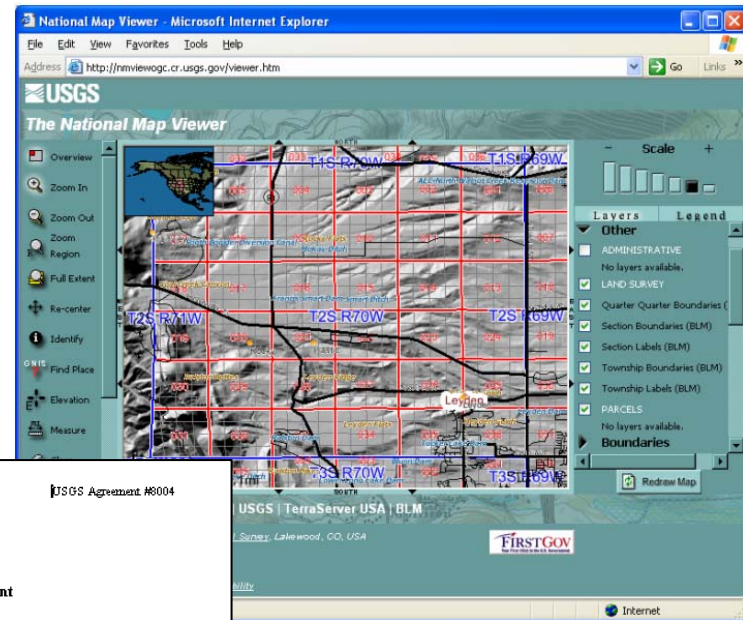
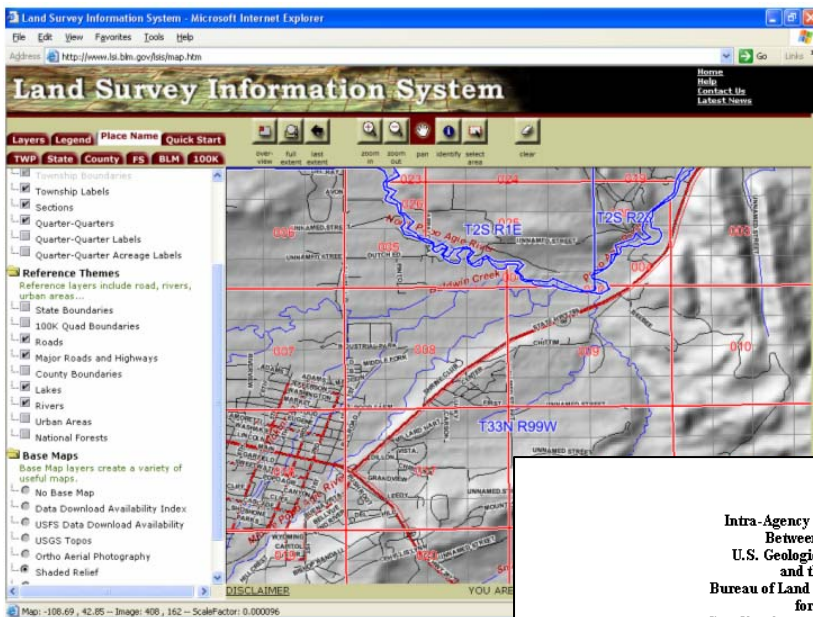
- Accessible as a streaming ArcIMS layer





# Part of the National Map

- BLM & USGS sharing data resources



**Intra-Agency Agreement  
Between the  
U.S. Geological Survey  
and the  
Bureau of Land Management  
for  
Coordination and Cooperation  
Pertaining to *The National Map*  
and the  
National Integrated Land System**

## **I. Purpose**

The purpose of this agreement is to leverage the U.S. Geological Survey (USGS) and Bureau of Land Management (BLM) investments in geospatial data that are contained in *The National Map* and the National Integrated Land System (NILS). This agreement describes key technical considerations that need to be coordinated in order to maintain a mutually beneficial relationship.

# GeoCommunicator: Federal Land Stewardship

GeoCommunicator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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www.geocommunicator.gov

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FIRST GOV  
Your First Click in the U.S. Government

Local intranet

# Land Manager Viewer

- Displays Surface Land Management Agency

The screenshot shows a web browser window titled "GeoCommunicator LandManager Contact - Microsoft Internet Explorer". The main content area features a header with the title "Land Manager Viewer" and navigation links for "HOME", "CONTACT US", and "HELP". Below the header is a "TEXT SEARCH" field and a toolbar with various icons. The central part of the interface is a map of the southwestern United States, showing various land management areas such as "Craters of the Moon", "Gunnison Gorge NCA", "Grand Staircase-Escalante", "Vermilion Cliffs", "Grand Canyon-Parashant", "Kasha-Katuwe Tent Rocks", "El Malpais NCA", "Sonoran Desert", "Gila Box Riparian NCA", and "Ironwood Forest". Major cities like Salt Lake City, Denver, Phoenix, and Santa Fe are also marked. On the left side, there is a "Layers" panel with a list of visible layers, all of which are checked. Below the layers panel is a "QUICK START" section with four numbered steps: 1. Locate the land you are interested in by using the Navigation tools above. 2. Click on the Identify tool to activate it. 3. Click on the desired land in the map to display the land manager information. 4. Use Text Search for Querying, Blm District, Forest Service Region, Federal Land. At the bottom of the browser window, the status bar shows "Done" and "Local intranet".

GeoCommunicator LandManager Contact - Microsoft Internet Explorer

## Land Manager Viewer

HOME  
CONTACT US  
HELP

TEXT SEARCH

### Layers

Visible

- U.S. States
- Capital Cities
- Major Highways
- Streams
- Major Inland Water Bodies
- BLM National Monument
- BLM National Conservation Area
- Other Federal Lands
- BLM Lands
- National Forests

### QUICK START

1. Locate the land you are interested in by using the Navigation tools above.
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Map Created by GeoCommunicator

0 54mi 0 89km

Done Local intranet

# Land Browser Interface

GeoCommunicator LandManager Contact - Microsoft Internet Explorer

## Land Manager Viewer

HOME  
CONTACT US  
HELP

TEXT SEARCH

**Layers**

Visible

- U.S. States
- Capital Cities
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Map Created by GeoCommunicator

- Zoom, Pan, Search, and Identify

Identify All - Microsoft Internet Explorer

**Forest Service Regions 1 features found**

ADM	STATE	FS_PHONE	FS_URL	FS_NAME
R4	UT	801-625-5605	<a href="http://www.fs.fed.us/r4/">http://www.fs.fed.us/r4/</a>	Intermountain

**BLM Districts 1 features found**

DISTRICT	STATE	PHONE	NAME	URL
FILLMORE	UT	(801) 743-6811	Fillmore Field Office	<a href="http://www.ut.blm.gov">http://www.ut.blm.gov</a>

**National Parks 0 features found**

No features found.

**National Forests 0 features found**

No features found.

**Other Federal Lands 1 features found**

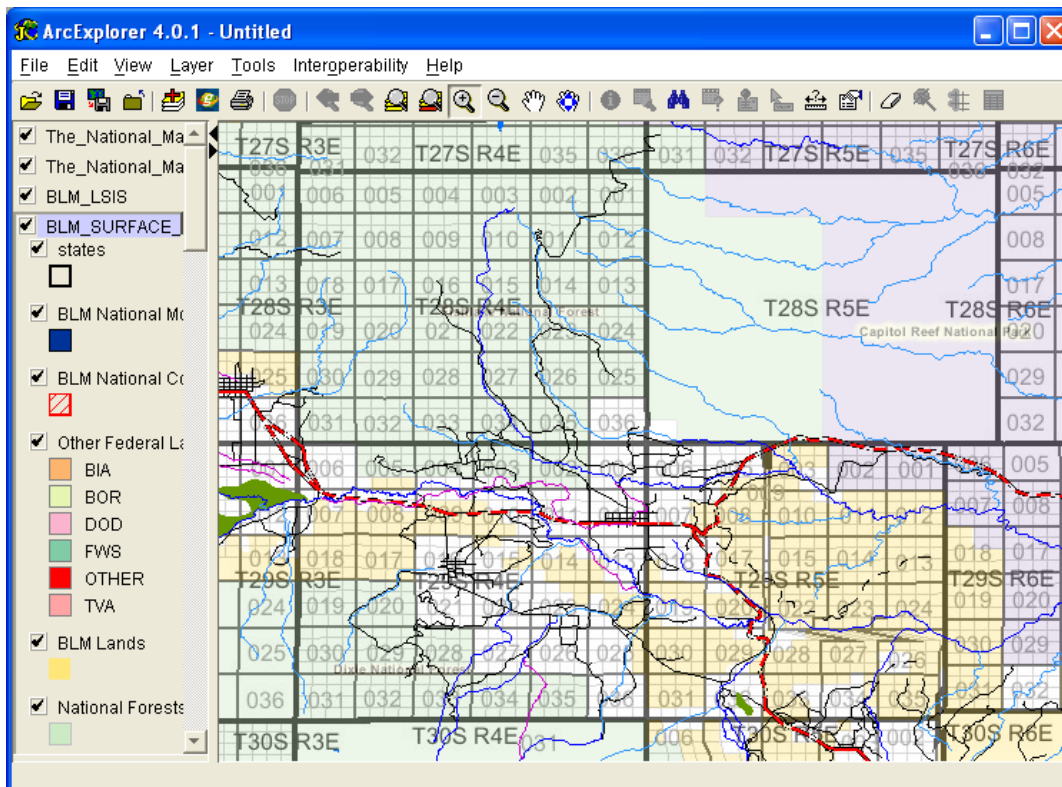
AGENCY	AGENCY_URL	AGENCY_PHO	STATE	DISTRICT	DISTRICT_U	PHONE	FEATURE1
FWS	<a href="http://www.fws.gov/">http://www.fws.gov/</a>	(202) 208-5634	UT				National Wildlife Refuge FWS

Local intranet

# Integrate with other data layers through Desktop or Mobile GIS

- Add data from the internet with the URL:

<http://lsi.blm.gov>



# GeoCommunicator: Land & Mineral Use Records



GeoCommunicator - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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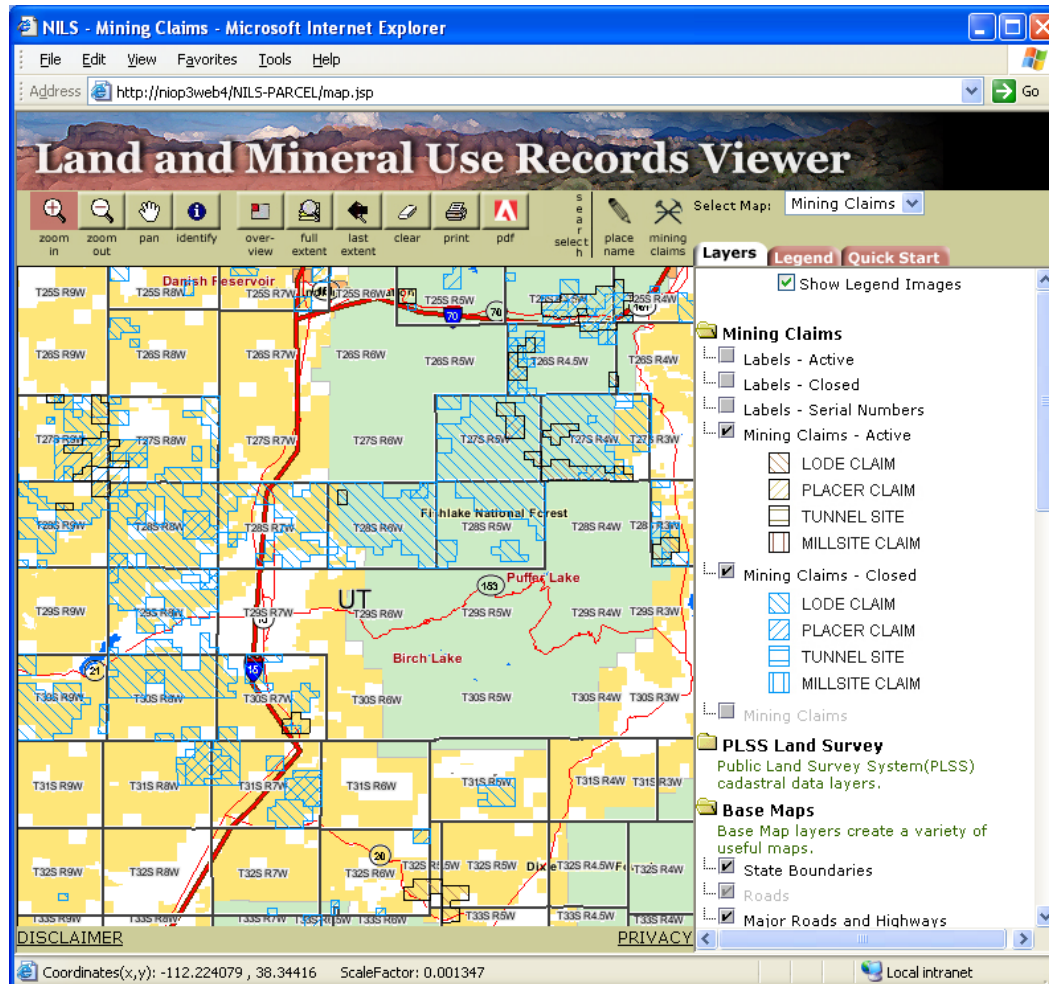
 

This site uses **cookies**.

Local intranet

# Land & Mineral Use Records Viewer

- Mining claims - Oil & Gas leases



# NILS Mining Claims

- Display claims by type
- Display active or closed claims
- Label with claim name or serial number
- Display with reference themes:
  - survey, roads, topographic map, orthophoto
- Links directly to LR2000 reports



# View Land Records in Context with Other Spatial Reference Themes

**Nils - Mining Claims - Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Address <http://www.geocommunicator.gov/NILS-PARCEL/> Go

## Land and Mineral Use Records Viewer

Select Map: Mining Claims

zoom in zoom out pan identify overview full extent last extent clear print pdf search select h place name mining claims

**Layers Legend Quick Start**

- Shaded Relief
- USGS Topos
- Ortho Aerial Photography
- Surface Management Agency
  - BLM Lands
  - National Forests
  - National Parks
  - BLM National Monument
  - BLM
  - BLA
  - BOR
  - DOD
  - FWS
  - TVA
  - OTHER

DISCLAIMER PRIVACY

Coordinates(x,y): -112.855466, 38.785298 ScaleFactor: 0.000232

Internet

# Links with LR2000

NILS - Mining Claims - Microsoft Internet Explorer

Address: <http://niop3web4/NILS-PARCEL/map.jsp>

## Land and Mineral Use Records Viewer

Identify Parcels - Microsoft Internet Explorer

Mining Claims 20 features found

Zoom	Select	Reports	Case ID	Serial #	Claim Name	Type	Disposition	Date of Recordation	Date of Location	Commodity
zoom	<input type="checkbox"/>	LR2000 SRP	3239638	UMC200910	PLACID NO. 1	Placer	Closed	11/8/1979	09/20/1979	
zoom	<input type="checkbox"/>	LR2000 SRP	3479130	UMC200912	PLACID NO. 3	Placer	Closed	11/8/1979	09/20/1979	
zoom	<input type="checkbox"/>	LR2000 SRP	3544751							
zoom	<input type="checkbox"/>	LR2000 SRP	3565823							
zoom	<input type="checkbox"/>	LR2000 SRP	3650281							
zoom	<input type="checkbox"/>	LR2000 SRP	3655234							
zoom	<input type="checkbox"/>	LR2000 SRP	3689364							
zoom	<input type="checkbox"/>	LR2000 SRP	3711116							
zoom	<input checked="" type="checkbox"/>	LR2000 SRP	3751296							
zoom	<input type="checkbox"/>	LR2000 SRP	3752137							
zoom	<input type="checkbox"/>	LR2000 SRP	3757407							
zoom	<input type="checkbox"/>	LR2000 SRP	3782455							
zoom	<input type="checkbox"/>	LR2000 SRP	3807021							
zoom	<input type="checkbox"/>	LR2000 SRP	3874850							
zoom	<input type="checkbox"/>	LR2000 SRP	4365854							
zoom	<input type="checkbox"/>	LR2000 SRP	4428582							
zoom	<input type="checkbox"/>	LR2000 SRP	4761254							
zoom	<input type="checkbox"/>	LR2000 SRP	5215059							
zoom	<input type="checkbox"/>	LR2000 SRP	5237652							
zoom	<input type="checkbox"/>	LR2000 SRP	5261951							

Coordinates(x,y): -112.618079, 38.523747 ScaleFactor: 0.000353

http://nirm0rptdev.corp.blm.gov/ods-nasapi/ods.ods?Method=login&Username=tpuser&Password=tpuser - Microsoft Internet Explorer

Serial Register Page

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
MINING CLAIMS  
(LIVE) Serial Register Page

RunDate/Time: 07/08/04 03:03 PM

01 05-10-1872-017STAT0091:30USC26,28,34

Case Type 384101: LODE CLAIM

Claim Name: PLACID NO. 9

Commodity :

Case Disposition: CLOSED

Serial Number UMC200918

Name & Address	Int Rel	% Intere
HANSEN SPENST M 130 ELM AVE REXBURG, ID 83440	OWNER	100.000000

Mer Twp	Rng	Se	Quadrant	District/Resour	County
26	0270S	0080W	012 NW	CEDAR CITY FIELD OFFICE	BEAVER

Act Date	Code	Act:	Action Remarks	Receipt Number
09/20/1979	403	LOCATION DATE		
11/08/1979	395	RECORDATION NOTICE RECD		
09/22/1981	480	EVID OF ASSMT FILED	1981	
08/14/1995	885	CASE DESTROYED		
05/15/1988	631	ABANDONMENT CLAIM VOID	LOCKE	
11/08/1979	500	MAP IN LEAD FILE	UMC200909	
11/08/1979	501	ACCT ADV IN LEAD FILE	UMC200909	
10/19/1979	404	COUNTY RECORDATION	136647:159:254	

Ready

Zoom: 115%

Done

Internet

# Allows Searching...

NILS - Mining Claims - Microsoft Internet Explorer

Address: http://niop3web4/NILS-PARCEL/map.jsp

## Land and Mineral Use Records Viewer

Tools: zoom in, zoom out, pan, identify, over-view, full extent, last extent, clear, print, pdf, search, select h, place name, **mining claims**, Layers, Legend, Quick Start

Coordinates(x,y): -112.618079 , 38.523747 ScaleFactor: 0.000353

Mining Claim Search - Microsoft Internet Explorer

### MINING CLAIM SEARCH

Claim Name:  Date of Location: (YYYY-MM-DD)

Case ID:  Start Date:

Serial #:  End Date:

Dispositon:  Date of Recordation: (YYYY-MM-DD)

Type:  Start Date:

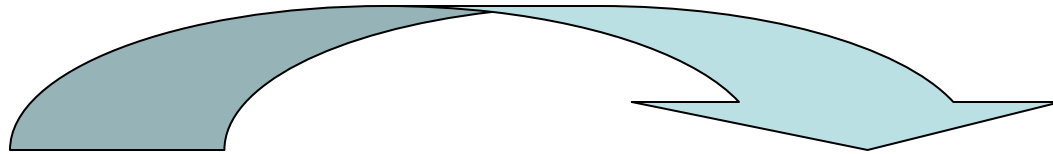
End Date:

claim\_name LIKE 'LADY%' and date\_of\_location BETWEEN (ts '1986-06-10') and (ts '1987-06-10') Number of features found: 6

Zoom	Select	Reports	Case ID	Serial#	Claim Name	Type
zoom	<input type="checkbox"/>	LR2000 SRP	56966	ORMC91129	LADY SLIPPER 2	Placer
zoom	<input type="checkbox"/>	LR2000 SRP	718899	ORMC91128	LADY SLIPPER 1	Placer
zoom	<input type="checkbox"/>	LR2000 SRP	593471	IMC120445	LADY GAMBLER	Load
zoom	<input type="checkbox"/>	LR2000 SRP	5041805	CAMC186845	LADY FRACTION	Load
zoom	<input type="checkbox"/>	LR2000 SRP	4309214	CAMC189271	LADY DI	Placer
zoom	<input type="checkbox"/>	LR2000 SRP	2954164	AMC269302	LADY BUG	Load

Local intranet

# Direct Link with LR2000



NILS - Mining Claims - Microsoft Internet Explorer

Address: http://niop3web4/NILS-PARCEL/map.jsp

## Land and Mineral Use Records Viewer

zoom in zoom out pan identify over-view full extent last extent clear print pdf select place mining claims

Select Map: Mining Claims

Layers Legend Quick Start

Show Legend Images

**Mining Claims**

- Labels - Active
- Labels - Closed
- Labels - Serial Numbers
- Mining Claims - Active
  - LODE CLAIM
  - PLACER CLAIM
  - TUNNEL SITE
  - MILLSITE CLAIM
- Mining Claims - Closed
  - LODE CLAIM
  - PLACER CLAIM
  - TUNNEL SITE
  - MILLSITE CLAIM

**PLSS Land Survey**  
Public Land Survey System (PLSS) cadastral data layers.

**Base Maps**  
Base Map layers create a variety of useful maps.

- State Boundaries

DISCLAIMER PRIVACY

Coordinates(x,y): -112.618079 , 38.523747 ScaleFactor: 0.000353 Local intranet

http://nirm0nils.corp.blm.gov/ods.nsap/ods.ods?Method=logIn&Username=Internetuser&Password=Int Microsoft Internet Explorer

Address: http://nirm0nils.corp.blm.gov/ods.nsap/ods.ods?Method=logIn&Username=Internetuser&Password=Internetuser&HTT

File View Tools Help

### Serial Register Page

Sections: Main Serial Banner

**DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
MINING CLAIMS  
(MASS) Serial Register Page**

RunDate/Time: 05/17/04 09:00 AM Page: 1 of 1

**01 05-10-18720175TA1009130USC26,28,34** **Serial Number**  
**Case Type: 38410: LODE CLAIM** **CML12141**

**Commodity:**  
**Claim Name: SPRE**  
**Case Disposition: CLOSED**

**Name & Address** **Int. Pr.** **V. Interest**  
MOUNT EMMONS MNG CO PO BOX 579 CRESTED BUTTE, CO 81: OWNER \*\*\*\*\*

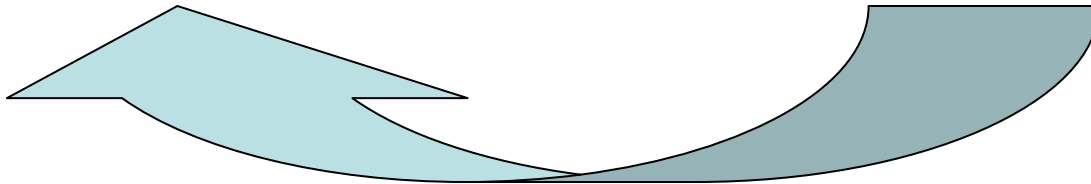
**County/Stat** **District**  
GUNNISON County, CO MONTROSE

**Mer. Tract** **Ran** **Sec** **Subdiv**  
06 01305 0860V NV

Act. Dat.	Code	Action	Tex	Action	Remark	Receipt Num
07/05/197	403	LOCATION DATE				
09/20/197	395	RECORDATION NOTICE RECD				
10/14/199	488	EVTD OF ASSMT FILED			1997	
07/17/199	163	CASE SENT TO NARA			DEN-049-95-0096:	
08/31/199	831	ABANDONMENT CLAIM VOID				
12/06/199	170	ADDRESS CHANGE FILED			MOUNT EMMONS MNG CO	
12/12/198	170	ADDRESS CHANGE FILED			MOUNT EMMONS MINING	
09/20/197	501	ACCT ADP IN LEAD FILE			112115-112141	

**Link No.** **Remarks**

Ready Zoom: 100% To view reports on full screen



# Integration with other Land Record Systems

**Identify Results**

Layers: or\_case\_shape

Location: [-124.101300 42.859705]

Field	Value
FID	50749
Shape	Polygon
serial_nr_	ORRAA 037310
case_group	27
case_type	272002
case_part	00
stored_acr	160
CASE_DESC	Sales
hyperlink	<a href="http://www.lsi.blm.gov/glotest6.htm?ORRAA%20%20037310">http://www.lsi.blm.gov/glotest6.htm?ORRAA%20%20037310</a>

**Layers**

- BLM\_LGIS\_vmt
- GeoCom\_LandManager
- blm\_2004
- ortho\_e1-1\_or011.sid
- or\_case\_shape
- CASE\_DESC
- Acquisitions
- Exchanges
- Grants
- Land Classification
- Mining Claims and Mining Claim Management
- Multiple Using Mining
- Occupancy and Use
- Sales
- Withdrawals
- img\_0011.sid

Hyperlink from ArcMap Identify...

**Land Patent Details - BLM GLO Records - Microsoft Internet Explorer**

Address: <http://www.gloreCORDS.blm.gov/PatentSearch/Detail.asp?Accession=110650&DetailTab=1>

Bureau of Land Management - General Land Office Records

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### Land Patent Details

Home > Land Patent Search > Land Patent Details

Accession/Serial #: 110650 BLM Serial #: ORRAA 037310

Patent Description | Legal Land Description | Document Image | Certified Copy

Names		Survey	
Patentee:	LOUIS A ROBERTS	State:	OREGON
		Acres:	160
		Motes Bounds:	No

Title Transfer		Document Numbers	
Issue Date:	2/11/1910	Document Nr.:	13717
Land Office:	Roseburg	Accession/Serial Nr.:	110650
Cancelled:	No	BLM Serial Nr.:	ORRAA 037310
U.S. Reservations:	Yes		
Mineral Reservations:	No		
Authority:	April 24, 1820: Sale-Cash Entry (3 Stat. 566)		

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**RECORDS OF PATENTS.**  
PATENT NUMBER 110650

The United States of America,  
Do all to whom these presents shall come, Greeting:

Certificate No. 13717.

WHEREAS, LOUIS A. ROBERTS has deposited in the GENERAL LAND OFFICE of the United States a Certificate of the Register of the Land Office at Roseburg, Oregon, whereby it appears that full payment has been made by the said Louis A. Roberts according to the provisions of the Act of Congress of the 9th of April, 1820, entitled "An Act making further provision for the sale of the Public Lands," and the acts supplemental thereto, for the north half of the northeast quarter and the north half of the southeast quarter of Section twenty-six in Township thirty-one north of Range twelve west of the Willamette Meridian, Oregon, containing one hundred sixty acres,

and according to the Official Plat of the Survey of the said lands, returned to the GENERAL LAND OFFICE by the Surveyor General, which said Tract has been purchased by the said Louis A. Roberts:

NOW KNOW YE, That the UNITED STATES OF AMERICA, in consideration of the premises, and an indenture with the several Acts of Congress in such case made and provided, HAVE GIVEN AND GRANTED, and by these presents DO GIVE AND GRANT, unto the said Louis A. Roberts, and to his heirs, the said Tract above described, TO HAVE AND TO HOLD the same, together with all the rights, privileges, immunities, and appurtenances, of whatsoever nature, thereto in anywise belonging, unto the said Louis A. Roberts, and to his heirs and assigns forever; subject to any vested and accrued water rights for mining, agricultural, manufacturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as well as any and all the rights and interests of the proprietor of a vein or lode to which said Tract and more full and entire description shall be made by the local customs, laws, and decisions of courts, and also subject to the right of the proprietor of a vein or lode to which said Tract and more full and entire description shall be made to penetrate or intersect the premises hereby granted, as provided by law, and there is reserved from the lands hereby granted, a right of way thereon for ditches or canals constructed by the authority of the United States.

IN WITNESS WHEREOF, I, William M. Taft, President of the United States of America, have caused these letters to be made Patent, and the seal of the General Land Office to be hereunto affixed.

GIVEN under my hand, at the City of Washington, the \_\_\_\_\_ day of \_\_\_\_\_ in the year of our Lord one thousand nine hundred and \_\_\_\_\_ and of the Independence of the United States the one hundred and \_\_\_\_\_

By the President:  
*William M. Taft*  
Secretary:  
*John J. Gandy*  
Secretary of the Interior

# Serving Spatial Data through Web Services

- Access to a wide range of spatial data
- Minimize client storage requirements
- Minimize data maintenance/processing
- Minimize client software requirements
- Provide central point of distribution
  - Always accessing the most current data
  - Information is accessible from anywhere
  - Source is always known

# To Find More Streaming Services...

GeoCommunicator - Microsoft Internet Explorer

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www.geocommunicator.gov

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Land Survey Information  
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Contact Us

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- **Federal Land Stewardship** for locating, viewing, and contacting federal surface management agencies.
- **Land Survey Information** providing the Public Land Survey System (PLSS) and other survey-based data for downloading or image streaming.
- **Reference** documents and information for the cadastral, land records, and parcel management communities.
- **Link to Geodata.gov** portal for searching, locating, and accessing U.S. maps and data.

**FIRST GOV**  
The First Click to the U.S. Government

GeoCommunicator is an official United States Government web site. GeoCommunicator is provided by the **Bureau of Land Management** & the **U.S. Forest Service**. This is a U.S. Government Computer System. Before continuing, please read GeoCommunicator's **Privacy/Security Policy**. Please use the **Contact Form** with any questions relating to accessibility of documents.

**U.S. FOREST SERVICE**

This site uses **cookies**.

Local intranet

- Search:

<http://www.geodata.gov>

# Geodata.gov

- Part of the [Geospatial One-Stop E-Gov initiative](#) providing access to Federal, State, and Local geospatial data and information.





Point browser to <http://www.geodata.gov> and choose the “Cadastral” data category.

The screenshot shows the geodata.gov website in a Microsoft Internet Explorer browser window. The address bar displays <http://www.geodata.gov/gos>. The page header includes the geodata.gov logo and the tagline "your one stop state & local geographic data". A tooltip over the logo reads "geodata.gov: Your one stop for federal, state & local data".

The left sidebar contains several sections:

- Make a Map**: Includes a "Launch: The National Map" link and a map of the United States.
- Search for Data**: A search box with the text "Search all the data in this site".
- About This Site**: Links for "How to find the maps & data you need and how to publish your data here." and "GOS Partnerships".
- Help**: Links for "Quick Start Guide", "How Do I Publish Data Collection Activities", and "Contact Us".
- The geodata.gov Marketplace**: A link to "Find out about the latest geographic data sharing and acquisition initiatives."
- Information Center**: A link to "Find out about the latest geographic data sharing and acquisition initiatives."

The main content area features a "Featured channel: Lewis & Clark Bicentennial Commemoration" and a "Data Categories" section with the following links:

- Administrative and Political Boundaries
- Agriculture and Farming
- Atmosphere and Climatic
- Biology and Ecology
- Business and Economic
- **Cadastral** (highlighted with a red circle)
- Cultural, Society, and Demographic
- Elevation and Derived Products
- Environment and Conservation
- Geological and Geophysical
- Human Health and Disease
- Imagery and Base Maps
- Inland Water Resources
- Locations and Geodetic Networks
- Oceans and Estuaries

The browser's status bar at the bottom shows "Internet".

From the Cadastral data listing, locate the “Land Survey Information System Map Service” and click on the “VIEW MAP” button.

The screenshot shows a Microsoft Internet Explorer browser window displaying the geodata.gov website. The address bar shows the URL http://www.geodata.gov/gos. The page title is "geodata.gov" and the main heading is "Cadastral". A navigation menu includes "Home", "Search", "About This Site", "The geodata.gov Marketplace", "Information Center", and "Map Viewer". A dropdown menu for "Open category:" is set to "Cadastral".

On the left side, there is a sidebar with a "Primary Data" section containing links for "Other Resources", "About this Category", and "Help". Below this is a section titled "Search for more primary data like this:" with a list of filters: "Any level", "Federal", "State", "County", "Local", "Tribal", "Commercial", "Organization", and "University".

The main content area is titled "Introduction" and contains the following text:

The Cadastral category page provides a listing of the most relevant metadata records of information pertaining to interests in real property or used in planning and development efforts.

**Primary Data & Maps**

**Land Survey Information System Map Service**

**Content Summary:** The Land Survey Information System is the official federal government website for the distribution of the Public Land Survey System (PLSS) of the United States and other survey-based data. The spatial data layer is based on BLM's Geographic Coordinate Data Base (GCDB) coordinate data.

**Content Purpose:** The Land Survey Information System (LSIS) data is a useful representation of the geometry and topology of parcels contained within the PLSS, but its application is intended for mapping purposes only. The data served from LSIS is not a substitute for a legal land survey.

**Publisher:** Bureau of Land Management

**Rating:** Primary

**Content Type:** Live data & maps (Map Service)

Below this text are three buttons: "VIEW MAP" (circled in red), "VIEW DETAILS", and "GO TO WEBSITE >".

**Links to state county and city parcel information**

**Content Summary:** This site provides a map based index of states, counties and cities that serve cadastral or parcel level information on their web sites. Some of these data are free, some have a fee and some are for browsing only. The data ranges from parcel maps to assessment and value information to recording documents

**Content Purpose:** The purpose is to provide a map based index of web based parcel level information across the United States

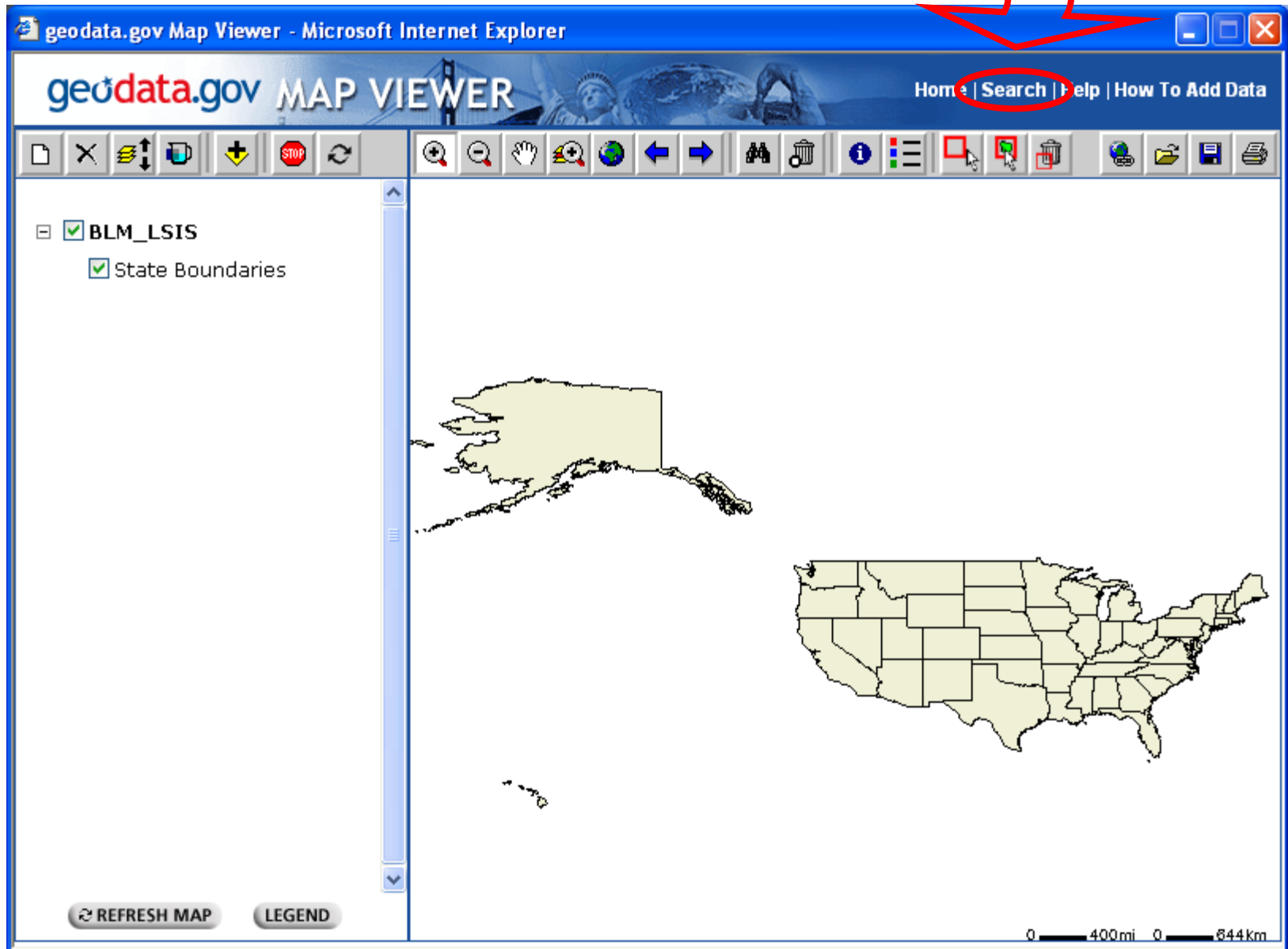
**Publisher:** Southwest Data Services

**Rating:** Secondary

**Content Type:** Clearinghouse

At the bottom of this section are two buttons: "VIEW DETAILS" and "GO TO WEBSITE >".

Search for additional layers to add...



# Search for "Federal Land"...

geodata.gov - Search - Microsoft Internet Explorer

Address <http://www.geodata.gov/gos>

geodata.gov Home | Search | About This Site | The geodata.gov Marketplace | Information Center | Map Viewer

## Search

Where?	What?	When?
<p><input checked="" type="radio"/> Anywhere <b>Or</b> <input type="button" value="FIND A PLACE..."/></p> <p><b>Or</b> locate your area here </p> <p><input type="checkbox"/> Data must fall completely inside area</p> <p><input type="button" value="LAUNCH MAP VIEWER TO DRAW BOX &gt;"/> <input type="button" value="GET BOX ALREADY DRAWN ON VIEWER"/></p>	<p><b>Keywords:</b> <input type="text" value="Federal Land"/></p> <p><b>Match:</b></p> <p><input checked="" type="radio"/> Exact phrase <input type="radio"/> Any word <input type="radio"/> All words</p> <p><b>Data Category:</b> <input type="text" value="Any"/></p> <p><b>Rating:</b> <input type="text" value="Any"/></p> <p><b>Provider Level:</b> <input type="text" value="Any"/></p> <p><b>Scale/Coverage:</b> <input type="text" value="Any"/></p> <p><b>Type/Format:</b> <input type="text" value="Any"/></p>	<p><input checked="" type="radio"/> Anytime</p> <p><input type="radio"/> Data for time period (yyyyymmdd)</p> <p>From: <input type="text"/> To: <input type="text"/></p> <p><input type="radio"/> Data updated recently (yyyyymmdd)</p> <p>After: <input type="text"/></p>

Sort results by:

Internet

Locate “Surface Management Agency” from the Search Results list and click on “VIEW MAP”

geodata.gov - Search Results - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.geodata.gov/gos

geodata.gov Home | Search | About This Site | The geodata.gov Marketplace | Information Center | Map Viewer

## Search Results

Records Found: 21 [REFINE SEARCH CRITERIA](#) [SAVE SEARCH...](#)

**Where:** Anywhere  
**What:** Match exact phrase = Federal Land  
**When:** Anytime

Currently displaying records 1 - 10 of 21  
Pages [1](#) [2](#) [3](#) [next](#) [>>](#)

### Live data & maps

**Content Title:** BLM GeoCommunicator Land Manager  
**Publisher:** Bureau of Land Management  
**Rating:** Primary  
**Provider Level:** Federal  
**Coverage Area:** Continental United States and Alaska  
**Content Type:** Live data & maps (Map Service)

[VIEW MAP](#) [VIEW DETAILS](#) [GO TO WEBSITE >](#)

**Content Title:** Surface Management Agency  
**Publisher:** BLM  
**Rating:** Primary  
**Provider Level:** Federal  
**Coverage Area:** US  
**Content Type:** Live data & maps (Map Service)

[VIEW MAP](#) [VIEW DETAILS](#) [GO TO WEBSITE >](#)

Done Internet

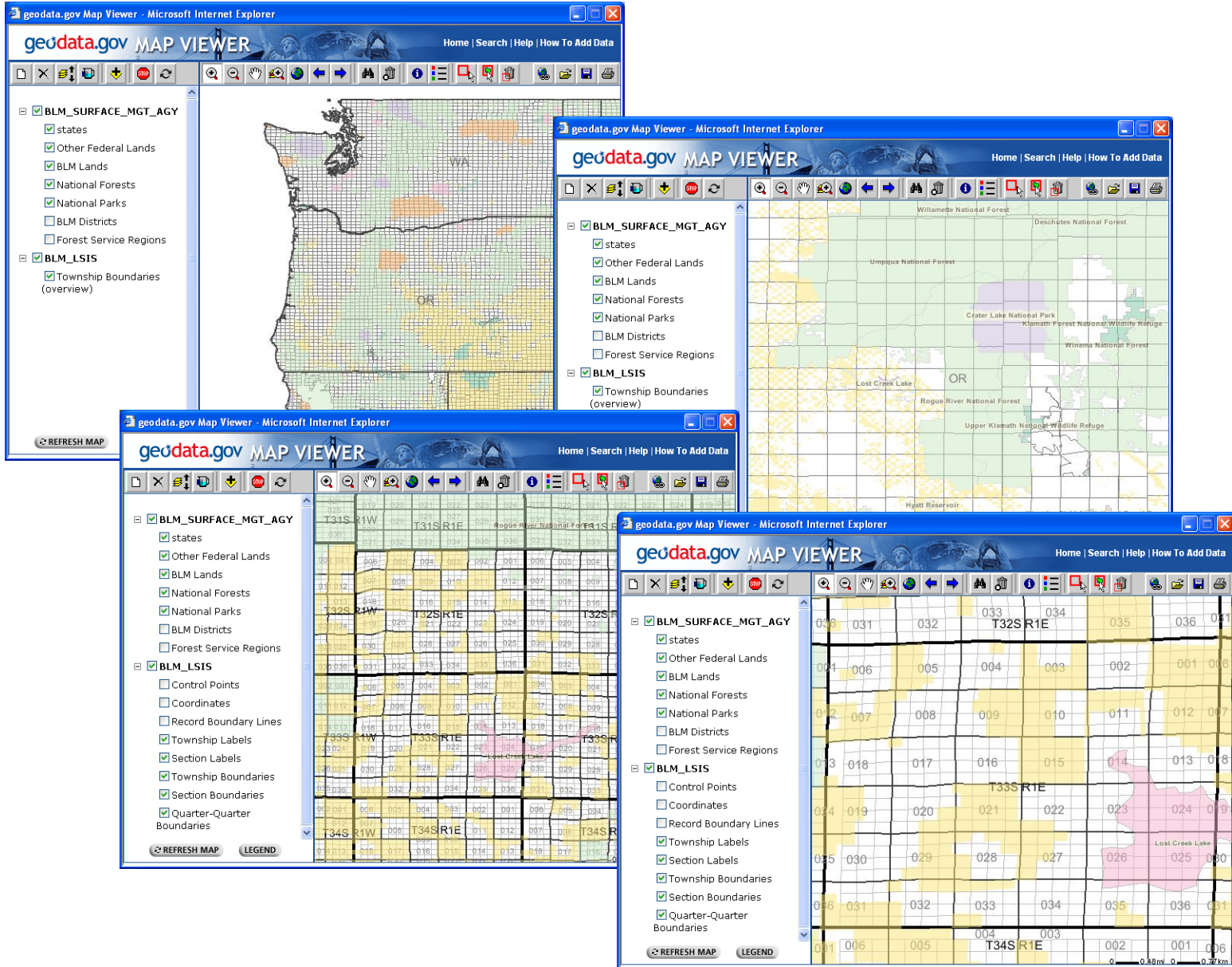
Make the new layer visible by clicking the empty box next to the BLM\_SURFACE\_MGT\_AGY title in the map legend then zoom in for a closer look using the Zoom In tool.

The screenshot displays the geodata.gov Map Viewer interface within a Microsoft Internet Explorer browser window. The browser title bar reads "geodata.gov Map Viewer - Microsoft Internet Explorer". The page header features the "geodata.gov MAP VIEWER" logo and navigation links for "Home", "Search", "Help", and "How To Add Data".

The interface includes a toolbar with various map navigation tools. The "Zoom In" tool, represented by a magnifying glass with a plus sign, is circled in red. The legend on the left side of the map shows a list of layers, with the "BLM\_SURFACE\_MGT\_AGY" layer title circled in red. Below the title, several sub-layers are listed with checked checkboxes: "states", "Other Federal Lands", "BLM Lands", "National Forests", and "National Parks". Underneath, the "BLM\_LSYS" layer is expanded, showing "State Boundaries" with a checked checkbox.

The main map area displays a map of the United States, including Alaska and Hawaii. A red rectangular box highlights the western United States region. At the bottom of the map, there are buttons for "REFRESH MAP" and "LEGEND", and a scale bar indicating 0, 400 miles, and 0, 844 kilometers.

As you zoom further in, increasing levels of detail emerge.



Additional layers can be added through the “Add Services” button. Choose “USGS - The National Map” from the Internet Server List pulldown. Select “The\_National\_Map” from the list of services.

The image displays the geodata.gov Map Viewer interface in Microsoft Internet Explorer. The main window shows a map with a grid overlay and a pink polygon labeled "Lost Creek Lake". The interface includes a toolbar with various navigation and tool icons, and a header with the site logo and navigation links.

Three dialog boxes are overlaid on the main window to illustrate the "Add Services" process:

- geodata.gov Map Viewer - Add Serv...:** This dialog has a section "Look In geodata.gov Internet Server List:" with a dropdown menu. The option "USGS - The National Map" is selected and circled in red. Below this, there is a section "Or Server URLs In Current Map:" with a dropdown menu. Further down, there is a "Map Server URL:" field containing "http://seamless.usgs.gov" and an "Account" section with a checkbox for "Show restricted services". Buttons for "OK", "CLOSE", and "HELP" are at the bottom.
- geodata.gov Map Viewer - Services ...:** This dialog has a section "Select service(s) to add. Press Shift or Ctrl to select multiple services." Below this is a list of services: Pugetsound, SFMFlooding, SFMMadFlooding, SFWMD\_Hydro, SiouxFalls, Tampa\_Main, **The\_National\_Map** (highlighted in blue), The\_National\_Map\_Boundary, The\_National\_Map\_Elevation, The\_National\_Map\_Hydrography, The\_National\_Map\_Land\_Cover, and The\_National\_Map\_Names. Buttons for "BACK", "ADD", and "CLOSE" are at the bottom.
- geodata.gov Map Viewer - Microsoft Internet Explorer:** The main window shows the "Add Services" button in the toolbar, which is circled in red. Below the toolbar, there is a section "ADD SERVICES" with a dropdown menu.

At the bottom of the main window, there are buttons for "REFRESH MAP" and "LEGEND". A scale bar at the bottom right indicates 0 to 0.48 miles and 0 to 0.77 kilometers.



Check the visibility boxes of added layers and click the “REFRESH MAP” button.

The screenshot shows the geodata.gov Map Viewer interface. The title bar reads "geodata.gov Map Viewer - Microsoft Internet Explorer". The main header features the "geodata.gov MAP VIEWER" logo and navigation links: "Home | Search | Help | How To Add Data". A toolbar with various map controls is located below the header.

On the left side, a layer list is displayed. The top layer, "The\_National\_Map", is selected and has a red circle around its visibility checkbox. Below it, several other layers are listed with their respective visibility checkboxes:

- The\_National\_Map
- Geographic Names (text)
- Geographic Names 100K
- Hi-Res Ortho Index
- County Labels
- Counties 100K
- State Labels
- States 100K
- Roads BTS
- Stream Names
- Stream Network
- Waterbody Names
- Waterbodies
- LANDSAT7
- National Land Cover Dataset
- National Land Cover Dataset (transparent)
- National Elevation Dataset

At the bottom of the layer list, there are two buttons: "REFRESH MAP" and "LEGEND". The "REFRESH MAP" button is circled in red. The main map area displays a topographic map with a grid overlay. A pink shaded region is visible on the right side of the map, and various geographical features like rivers and creeks are labeled.

# www.geocommunicator.gov

GeoCommunicator - Microsoft Internet Explorer

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**GeoCommunicator**  
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This site uses **cookies** .

Local intranet

# Questions?

- Contact:

John Reitsma

GIS Coordinator

BLM Land & Resources Project Office

(303) 236-1984

[jreitsma@blm.gov](mailto:jreitsma@blm.gov)