Using BLM’s National Integrated Land System (NILS) To Find and Derive Land Descriptions Using GeoRSS
Agenda

Overview of NILS/GeoCommunicator
Map Services
Web Services (GeoRSS)
  Find Land Description (Find LD)
  Derive Land Description (Derive LD)
Survey Export
GeoCommunicator: The Portal to NILS Spatial Data
www.geocommunicator.gov

Internet Site
- Land Survey Information System
- Federal Land Stewardship
- Land & Mineral Use Records
- Township GeoCoder
- Healthy Lands
- Site Mapper
- Map Services
- Reference Data
Energy Act
One GIS: BLM/USFS
Idaho showing regulated uses
Land Status and Cases that Affect Land Status
New SMA Layer – turn on/off individual layers – new layers state, state/county/regional parks
The Land Survey Information System or LSIS is the official government Web site for the distribution of the Public Land Survey System (PLSS) of the United States. The Bureau of Land Management (BLM) cadastral survey program is responsible for the official boundary surveys for all federal agencies in the U.S. that together manage over 700 million acres. The Public Land Survey System also called the Rectangular Survey System is the foundation for many survey-based land information systems.

GeoCommunicator provides a centralized site for downloading PLSS data (in NAD 83) in shape file format that can be used with GIS applications. The PLSS data shown in the image to the right is computed from BLM survey records (official plats and field notes), local survey records, and geodetic control information.

Please refer to the metadata for detailed information about the survey data. The PLSS data is a useful representation of the geometry and topology of parcels contained within the PLSS. Check What’s New for the latest updates.

The U.S. map to the right shows where we have PLSS data for downloading. The orange color indicates BLM PLSS data. The blue indicates data acquired from other data providers such as the U.S. Forest Service, Risk Management Agency, and many local and regional sources. The BLM PLSS is higher quality data and goes down to a much lower level. The Alternate Source data is mainly at the section level. The white areas indicates that we do not have data for this area. Data from non-BLM sources have not been verified and the BLM makes no judgment as to the quality and accuracy of the non-BLM data.
Additional Land Descriptions from Alternate Source allow for the display of more records and provides a National Cadastre.
Download PLSS Data – Launch Viewer
Map Services
Map Services (Image) in ArcMap
Base Maps and Reference Themes
Oil and Gas Density-EPCA Study
Surface Management Agency
Land Status for WY and NM
Range Allotments and Pastures

Identify provides information and links to Range Reports
Topo Maps, Imagery
New Web Services

- Find Land Description (LD)
- Derive Land Description (LD)
- Survey Export

- The web services are available on GeoCommunicator and to other application developers as GeoRSS.
Find LD - provides a way to find and draw a land description on a map.
Find LD

Enter in the land description:
State, Township, Range

Select the Sections and Aliquots

Select Find Boundary to draw the parcel on the map
Select Identify to find what is occurring on lands where the parcel is located.
Identify

Identifies what is occurring in the area defined on the map.
Copy and paste a land description from a document or a lease into the Find LD tool.
Copy land description

Select Find LD

Paste land description

Coordinates returned

Select Find Boundary to draw on map
Zoom to parcel.
Derive LD
Return a Land Description from a user’s sketch on a map

Sketch area

Copy description, turn on map layers, use identify

The Derive tool creates a land description from the sketch
Pass the RSS to Google


Here is the GeoRSS passing coordinates in Google Earth to NILS GeoCommunicator Web Services to derive the land description.
Survey Exporter

Download survey points, lines, and control points in different formats. - Coming Soon -
NILS GeoCommunicator is accessed from other applications
From BLM’s LR2000 reports, click on the icon to draw the lease on a dynamic internet map

Integration of GeoCommunicator’s Web Mapping Services in other applications such as Google Earth
BLM Right of Way cases displayed on Google Earth
Part of the National Map

BLM & USGS sharing data resources
GeoCommunicator: Reference Themes
Reference Themes

Surface Management Agency
BLM Administration Areas
Principal Meridians and Base Lines
Integration with other Land Record Systems

Hyperlink from ArcMap Identify...
Integrate with other data layers through Desktop or Mobile GIS

Add data from the internet with the URL: http://lsi.blm.gov
Tips and Tricks
Tips and Tricks
Email a link to the map using lat/long


Long=-106.10855
Lat=39.29002
&MAP=MC (OG,G,T,SM,MC)
&Label= My Claim
Spatial Queries Without a Map

http://www.geocommunicator.gov/blmMap/identify_plss.jsp
?

http://wogccms.state.wy.us/

NILS Leases
Questions?