

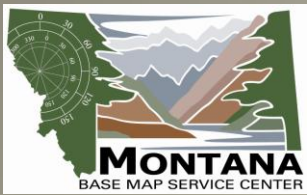
# MSDI Cadastral Update

Stu Kirkpatrick  
Chief, MT Base Map Service Center  
MAGIP Spring Meeting  
April 11 – 12, 2011  
Lewistown, Montana



# Topics

- Cadastral Web Application
  - Cartographic changes
  - Orion (Cama) changes
- Replication and Workflow
- Aggregated Land Ownership
  - Base Data
  - Value Added Products

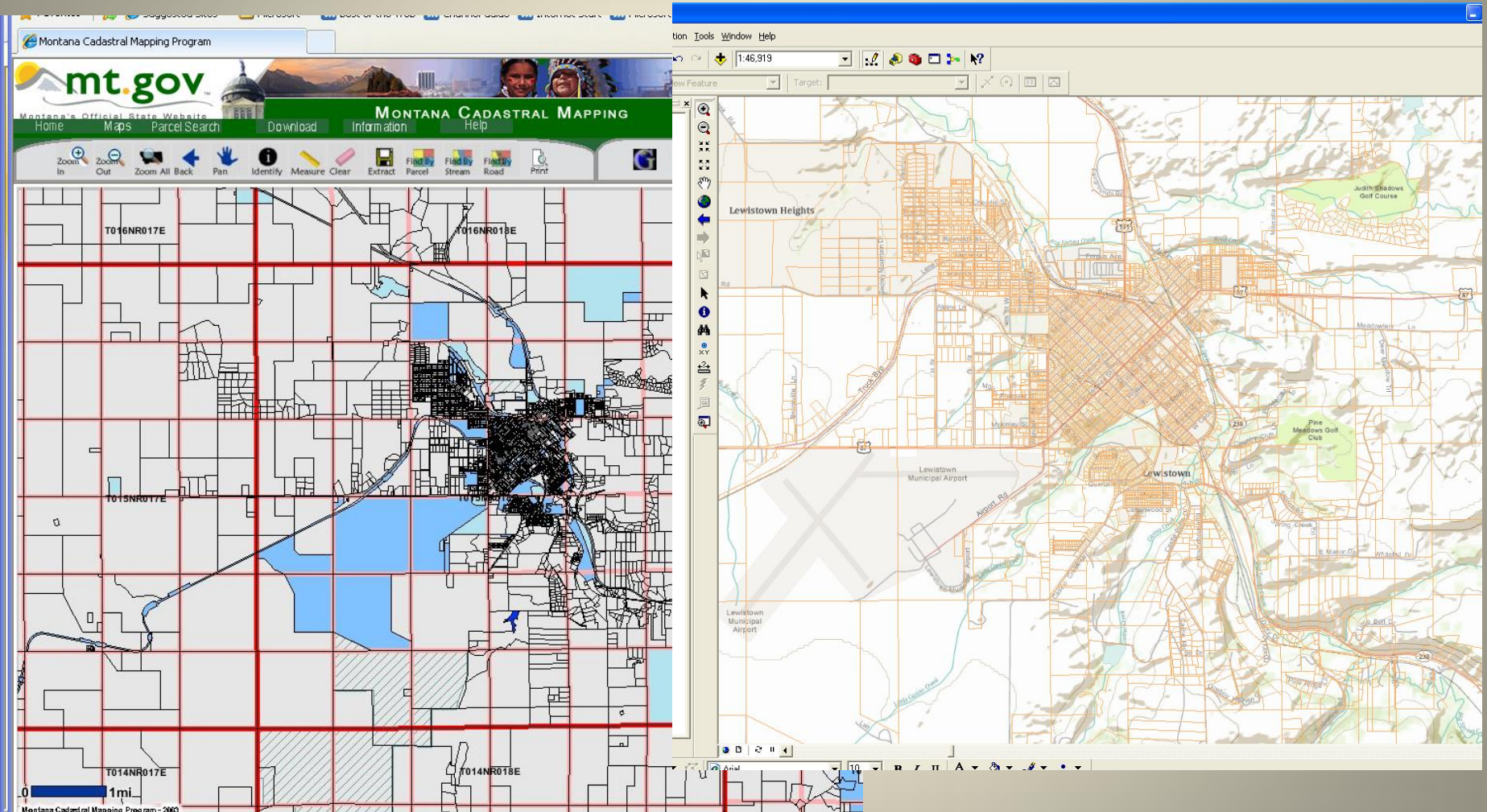


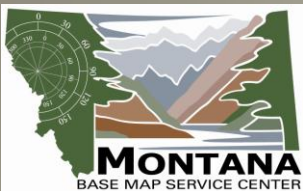
# Cadastral Web

- <http://gis.mt.gov/>
- New design fall 2011
  - Arc Server
  - Cadastral framework on cached base map
    - Web Mercator based – ArcGIS Online
  - Real-time (almost) ORION (DOR) data feed
  - Log in via e-pass



# Cartographic Changes





# Data Changes

INFORMATION UPDATED DECEMBER 2, 2010

## General Parcel Information [definitions](#)

GEOCODE	05188831129430000
COUNTY ASSESSOR CODE	0000004906
SECTION	31
TOWNSHIP	T10NR03W
LEGAL DESCRIPTION	BLAKE ADDN AMENDED, S31, T10 N, R03 W, BLOCK 00P, Lot 006, BLAKE ADD AMEND BLK P LTS 6-7
PROPERTY ADDRESS	15 SHILAND ST 59601
ADDITION-SUBDIVISION	BLAKE ADDN AMENDED
LEVY DISTRICT	
COUNTY LEVY DISTRICT	
LEVY DISTRICT NAME	
TOTAL FINAL LAND VALUE	\$67,430.00
TOTAL FINAL BUILDING VALUE	\$165,670.00
2010 FULL REAPPRAISAL VALUE	\$233,100.00
2010 TAXABLE MARKET VALUE	\$100,926.00
DEED 1: BOOK, PAGE, DATE (mmddyy)	0M11, 03918, 12/7/90
DEED 2: BOOK, PAGE, DATE (mmddyy)	0M18, 07106, 11/21/96
OWNER NAME 1	KIRKPATRICK STEWART D & JANICE
TAXPAYER	15 SHILAND ST
MAILING ADDRESS	HELENA, MT 59601-5172

## SITE INFORMATION [definitions](#)

Characteristic	CAMA Code, (Description)
GEOCODE	05188831129430000
NEIGHBORHOOD	215
NEIGHBORHOOD TREND	2, (stable)
RESIDENTIAL INDICATOR	dwelling
ACCESS	4, (proposed road) 5, (seasonal access)
FRONTING	2, (secondary artery)
LOCATION	0, (rural land)
TOPOGRAPHY	1, (level)
UTILITIES	1, (all public) 4, (public sewer)

[Show Definitions](#)

## Property Record Card

Tax Year:

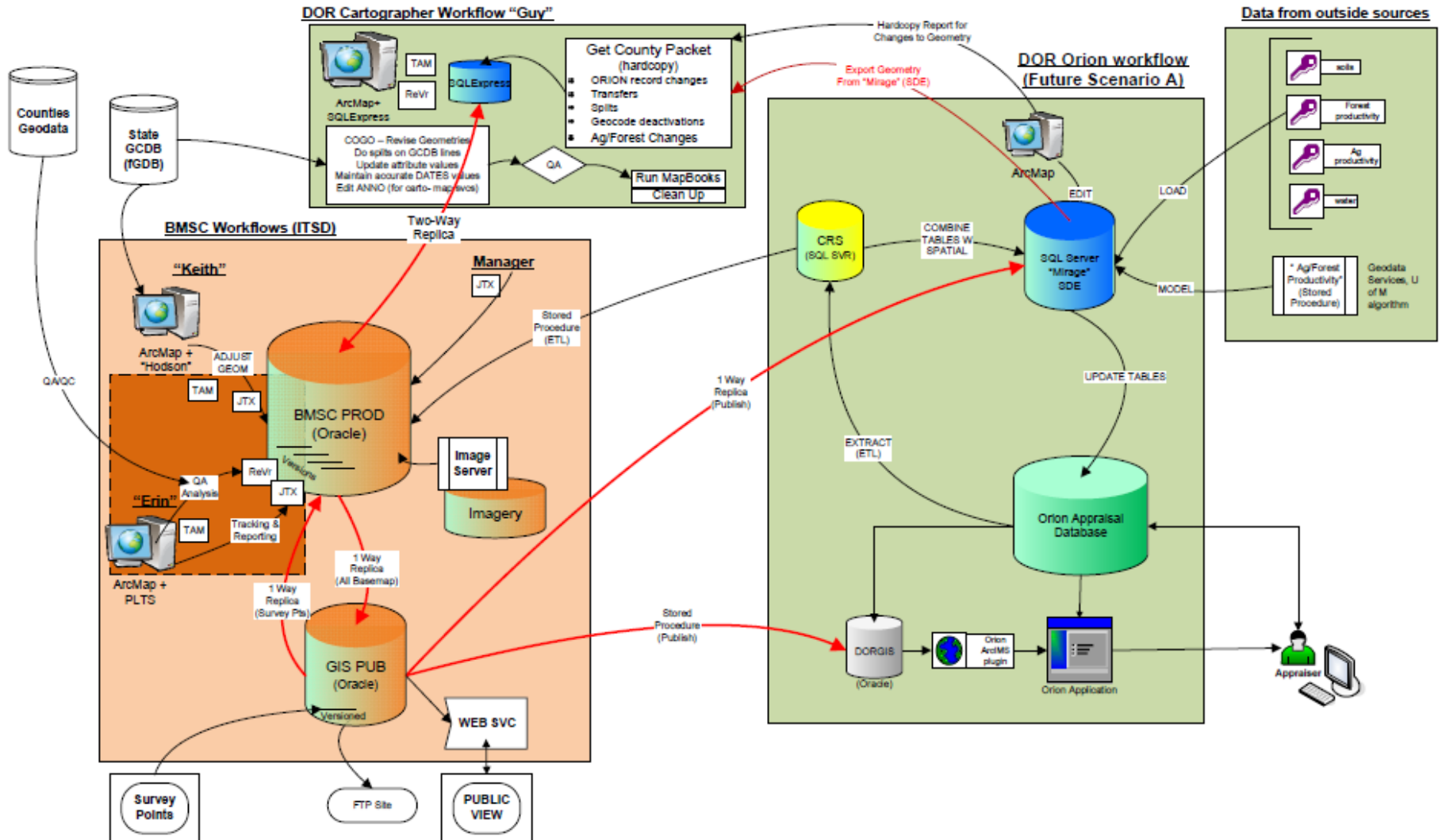
Data last updated on 04/05/2011

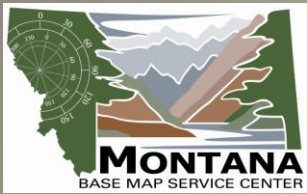
Summary	Owners	Appraisals		
Market Land Info	Dwellings	Other Bldgs/Improvements	Commercial	Ag/Forest Land
Primary Information				
Property Category:	Real Property		Subcategory:	Real Property
Geocode:	05-1888-31-1-29-43-0000		Assessment Code:	0000004906
Primary Owner:	KIRKPATRICK STEWART D & JANICE M 15 SHILAND ST HELENA, MT 59601-5172		Property Address:	15 SHILAND ST HELENA, MT 59601
NOTE: See the Owner tab for all owner information				
Certificate of Survey:			COS Parcel:	
Subdivision:	BLAKE ADDN AMENDED 215			
Legal Description:	BLAKE ADDN AMENDED, S31, T10 N, R03 W, BLOCK 00P, Lot 006, BLAKE ADD AMEND BLK P LTS 6-7			
Last Modified:	12/4/2010 2:42:40 PM			
General Property Information				
Neighborhood:	215	Property Type:	RU - Residential Urban	
Living Units:	1	Levy District:	05-048701-0101	
Zoning:	2	Ownership %:	100	
Linked Property:	<div>No linked properties exist for this parcel</div>			
Exemptions:	<div>No exemptions exist for this parcel</div>			
Condo Ownership:				
General:	0	Limited:	0	
Property Factors				
Topography:	1	Fronting:	4 - Residential Street	
Utilities:	1,4,9	Parking Type:	1 - Off Street	
Access:	2	Parking Quantity:	2 - Adequate	
Location:	5 - Neighborhood or Spot	Parking Proximity:	3 - On Site	
Land Summary				
	Land Type	Acres	Value	
	Grazing	0.000	0	
	Fallow	0.000	0	





# Cadastral Workflow and Replication






# Aggregated Land Ownership – Explanation and Options

- Often used as a cartographic background or base map
- Several options exist
- Read the METADATA
- Be aware of update issues
- BMSC/NRIS/MT Natural Heritage programs are working together to add value and educate users



# Montana GIS Portal



Montana's Official State Website

Issues Login

## Montana GIS Portal

Home Advanced Search State Library GIS Coordination Framework Layers

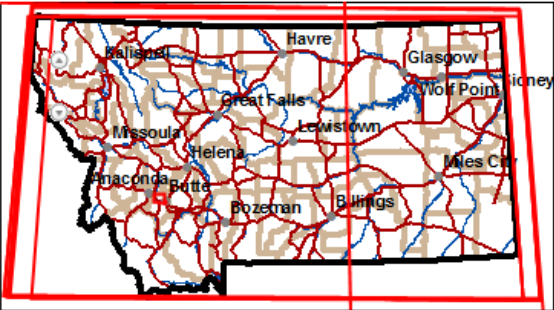
### Advanced Search

#### TEXT SEARCH

Search Search Tips

#### GEOGRAPHIC SEARCH

☒ Anywhere ☐ Intersecting ☐ Fully within













1) Hold Shift key and draw a box. 2) Select Intersecting or Fully Within. 3) Set other search criteria and click Search or press Enter.

#### SORT BY

Relevance

Results 1-10 of 73 record(s) [1](#) [2](#) [3](#) [4](#) [5](#) [>](#) [Last](#)

☐ Expand results [Zoom To Results](#) [Zoom To Searched Area](#)

-  [Land Ownership and Managed Areas in Montana, 2005](#)
-  [1991 Arco Surface Land Ownership in Butte](#)
-  [Montana Cadastral Database](#)
-  [Montana Managed Areas](#)
-  [Major Land Uses in Montana](#)
-  [Silver Bow Creek land use](#)
-  [1992 National Land Cover Data for Montana](#)
-  [Montana 1:250,000 scale Land Use from USGS](#)
-  [U.S. Forest Service Northern Region Life Forms](#)
-  [1992 National Land Cover Data for Montana, Vector Format](#)

See results as [GEORSS](#) [HTML](#) [KML](#)

This layer has been replaced by four separate layers that represent ownership, management, conservation leases, and conservation easements. The metadata for the ownership layer at [http://nris.mt.gov/nsdi/nris/stew\\_owners.html](http://nris.mt.gov/nsdi/nris/stew_owners.html) has links to the new ownersh...





# NRIS Data List

## NRIS GIS Data List

NRIS is working to phase out this GIS Data List and replace it with the [Montana GIS Portal](#). The Portal already has a more complete collection of data than what is available here. Please try it out!

Other GIS Data is available from [The Montana Base Map Service Center](#), [Montana Fish, Wildlife, and Parks](#), the organizations listed on our [GIS Hotlist](#), our [Digital Atlas](#), and our [GIS Data Bundler](#) applications to download GIS data.
















**Data Group(s)**

statewide and regional ▼

**Search Terms**

land ownership

Show Datasets

Example	Category	Description	Source	Type	Metadata	Data
	Admin and Political Boundary	Designated Wilderness Areas	NHP			
	Admin and Political Boundary	Land Ownership of Public and Conservation Lands	NHP			
	Admin and Political Boundary	Land Stewardship and Managed areas	NHP			
	Admin and Political Boundary	Lands with Conservation Easements	NHP			
	Admin and Political Boundary	National Forests	NHP			
	Admin and Political	National Park Service Land	NHP			



<b>Montana's Official State Website</b>		<b>BASE MAP SERVICE CENTER</b>	
<a href="#">About Us</a>	<a href="#">GIS Applications</a>	<a href="#">GIS Frameworks</a>	<a href="#">Data</a>   <a href="#">Web Services</a>   <a href="#">MLIA</a>   <a href="#">GIS Community</a>   <a href="#">GIO</a>   <a href="#">Home</a>

**SEARCH**

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**Montana Framework Layers**

- Administrative Boundaries
- Cadastral
- Elevation/Hypsography
- Geodetic Control
- Geographic Names
- Geology
- Hydrography
- Hydrologic Units
- Land Use/Land Cover
- Orthoimagery
- Soils
- Structures
- Transportation
- Wetlands

Framework Stewardship  
Contact Information

## Base Map Service Center

### MSDI Framework GIS Data

The Base Map Service Center is the definitive GIS data source for Administrative Boundaries, Cadastral, Geodetic Control, Structures, and Transportation for the Montana Spatial Data Infrastructure (MSDI) Frameworks. In some cases, for convenience sake, we provide users with links to data and metadata that is provided through MSDI partners.

**DATA DISCLAIMER :** The Base Map Service Center (BMSC) provides this product/service for informational purposes only. The BMSC did not produce it for, nor is it suitable for legal, engineering, or surveying purposes. Consumers of this information should review or consult the primary data and information sources to ascertain the viability of the information for their purposes. The BMSC provides these data in good faith and in no event, shall be liable for any incorrect results or analysis, any lost profits and special, indirect or consequential damages to any party, arising out of or in connection with the use or the inability to use the data or the services provided. The BMSC makes these data and services available as a convenience to the public, and for no other purpose. The BMSC reserves the right to change or revise published data and/or services at any time.


*If you need the GIS data in a different file format other than what is provided, please contact the Framework Coordinator directly: [Contact Information](#)*

**Featured GIS Web Apps**



**Cadastral Mapping**

**Montana GIS Portal**

### Administrative Boundaries

<a href="#"><u>Conservation Districts</u></a>	GDB/ Polygon	<a href="#"><u>Metadata</u></a>
<a href="#"><u>County Boundaries</u></a>	GDB/SHP Polygon	<a href="#"><u>Metadata</u></a>
<a href="#"><u>Cities and Towns</u></a>	GDB/SHP Polygon	<a href="#"><u>Metadata</u></a>
<a href="#"><u>Indian Reservations</u></a>	GDB/SHP Polygon	<a href="#"><u>Metadata</u></a>
<a href="#"><u>Rural Fire Districts</u></a>	GDB/SHP Polygon	<a href="#"><u>Metadata</u></a>
<a href="#"><u>School Districts</u></a>	GDB/SHP Polygon	<a href="#"><u>Metadata</u></a>

### Cadastral

<a href="#"><u>County Cadastral/CAMA*</u></a>	GDB Polygon	<a href="#"><u>Metadata</u></a>
<a href="#"><u>Statewide Cadastral</u></a>	GDB Polygon	<a href="#"><u>Metadata</u></a>
<a href="#"><u>Statewide CAMA File</u></a>	MDB NA	
<a href="#"><u>Statewide GCDB</u></a>	GDB Polygon	<a href="#"><u>Metadata</u></a>

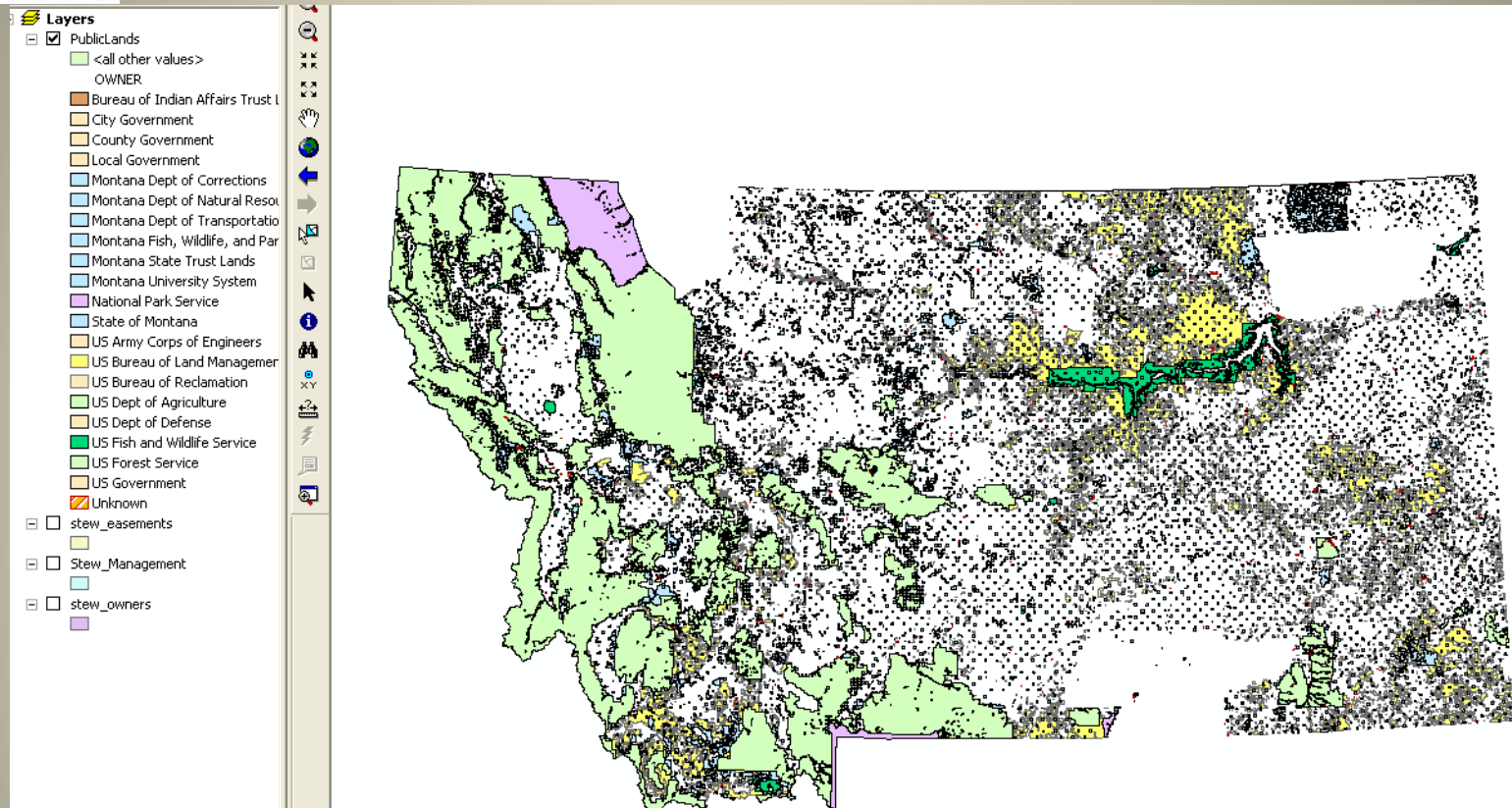
[\[top of page\]](#)

### ---Cadastral - Aggregated Public Lands Data

<a href="#"><u>Public Lands</u></a>	GDB Polygon	<a href="#"><u>Metadata</u></a>
<a href="#"><u>Land Ownership of Public and Conservation Lands (MTNHP)</u></a>	SHP Polygon	<a href="#"><u>Metadata</u></a>
<a href="#"><u>Land Stewardship and Managed Areas (MTNHP)</u></a>	SHP Polygon	<a href="#"><u>Metadata</u></a>
<a href="#"><u>Lands with Conservation Easements (MTNHP)</u></a>	SHP Polygon	<a href="#"><u>Metadata</u></a>



# Public Lands – Working Copy



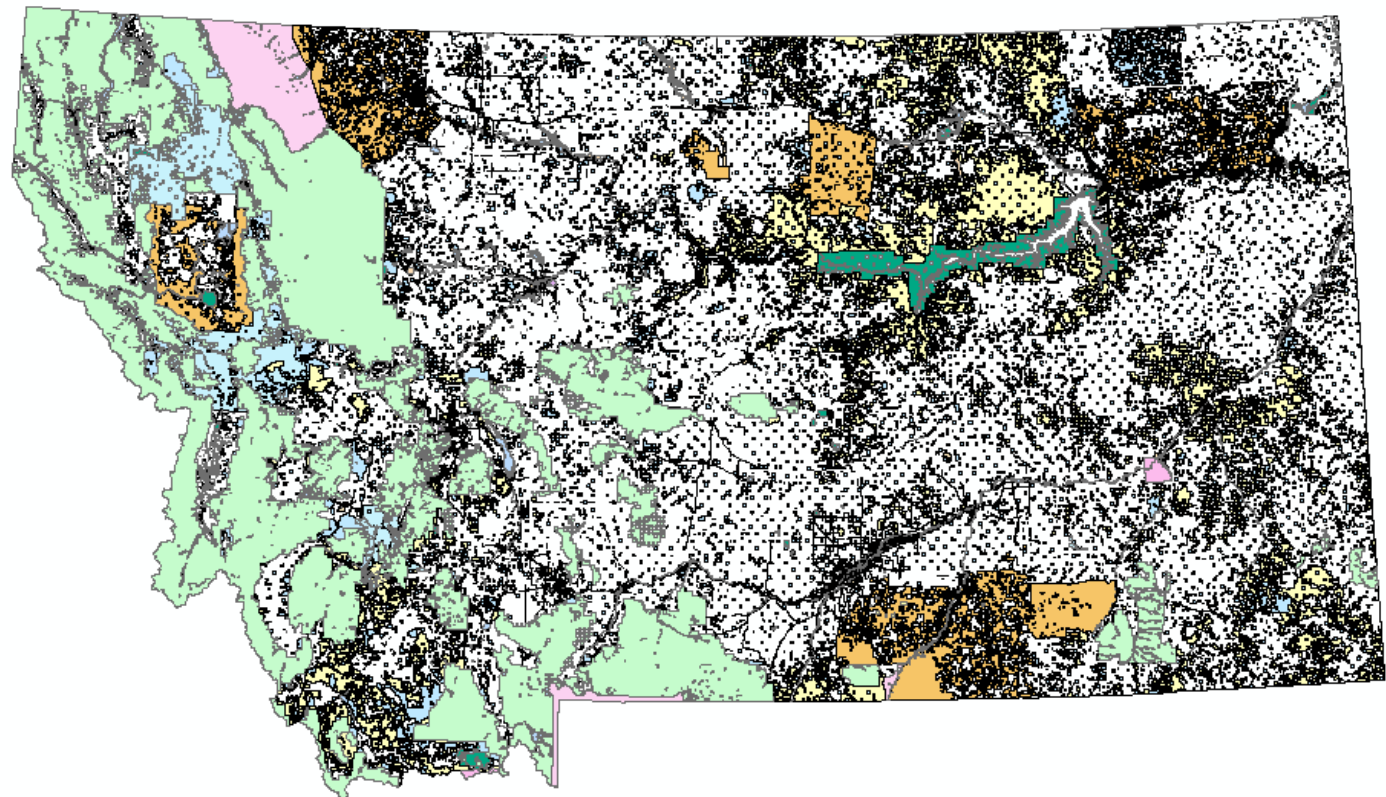
**Abstract:** The Montana Public Land ownership layer contains most public administered lands that are at least 40 acres in size. The data was vertically integrated from the statewide Montana Cadastral layer to correspond with the public ownership records found in the original MTNHP Stewardship Data. In the present data, tribal lands have been omitted because of conflicting ownership records. These records will be added when more information becomes available. All MTNHP Stewardship attributes have been eliminated except "Owner". Conservation Easements have been removed from the layer and are now in a new Easements Feature Class found in the Montana Cadastral Data Model. Private lands found in the former Stewardship Data have been eliminated (Plum Creek, etc.). Note: The MTNHP Stewardship's land management, easement, and lease status information that were associated with the original Montana Stewardship layer were moved to separate layers by MTNHP and are available at: [http://nris.mt.gov/nsdi/nris/stew\\_easements.html](http://nris.mt.gov/nsdi/nris/stew_easements.html), [http://nris.mt.gov/nsdi/nris/stew\\_leases.html](http://nris.mt.gov/nsdi/nris/stew_leases.html) [http://nris.mt.gov/nsdi/nris/stew\\_management.html](http://nris.mt.gov/nsdi/nris/stew_management.html)

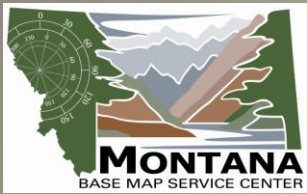




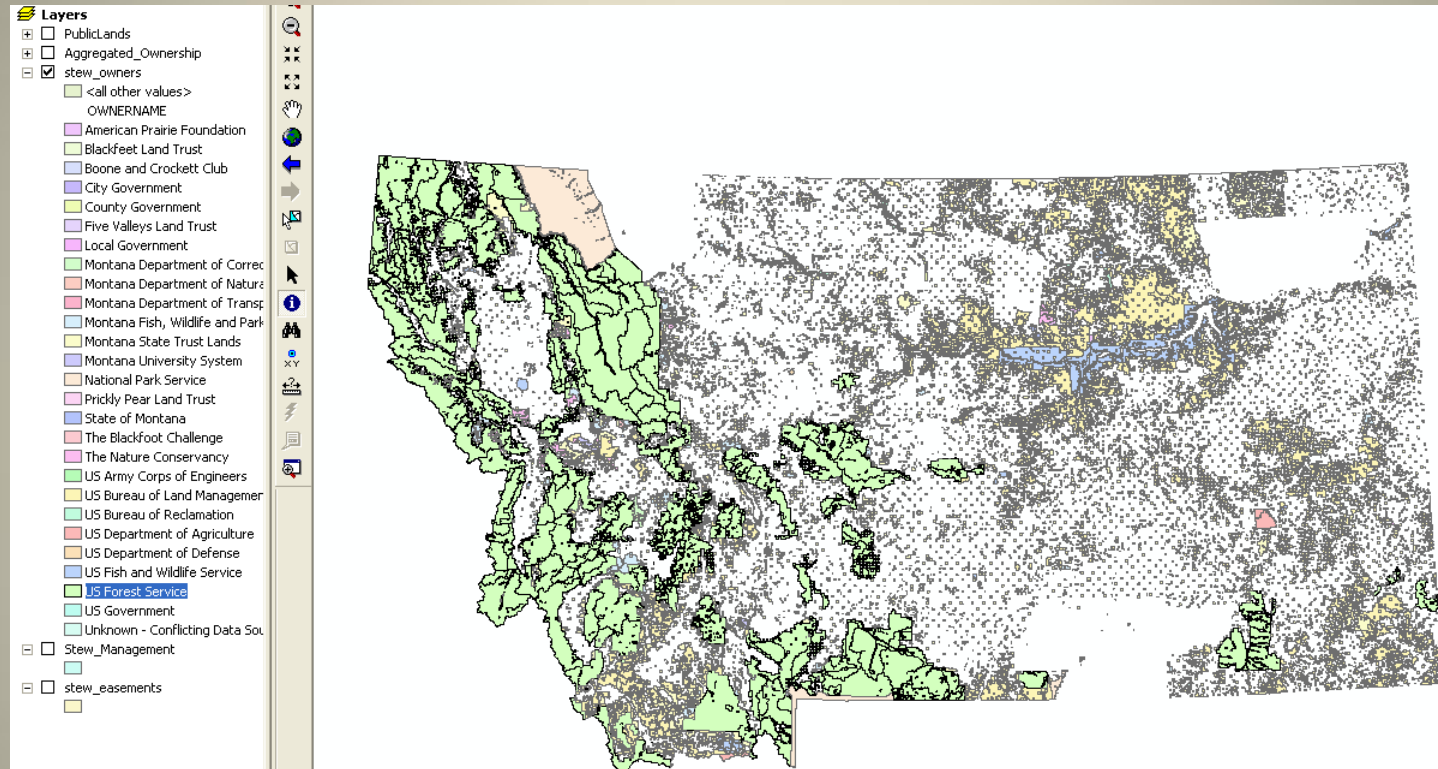
# Land Tenure – Cadastral Web

- Layers**
- ☐ PublicLands
  - ☒ Aggregated\_Ownership
    - ☒ <all other values>
      - OwnerClassification
      - ☐ Local Government
      - ☐ Private
      - ☐ Right of Way
      - ☐ State Government
      - ☐ Tribal
      - ☐ US Army Corps of Engineers
      - ☐ US Department of Agriculture
      - ☐ US Department of Defense
      - ☐ US Department of Interior
      - ☐ US Government
      - ☐ USDA Forest Service
      - ☐ USDI Bureau of Indian Affairs
      - ☒ USDI Bureau of Land Management
      - ☐ USDI Bureau of Reclamation
      - ☐ USDI Fish and Wildlife Service
      - ☐ USDI National Park Service
      - ☐ Undetermined
      - ☐ Water
  - ☐ Stew\_Management
  - ☐ stew\_owners
  - ☐ stew\_easements





# Land Ownership of Public and Conservation Lands (MTNHP)



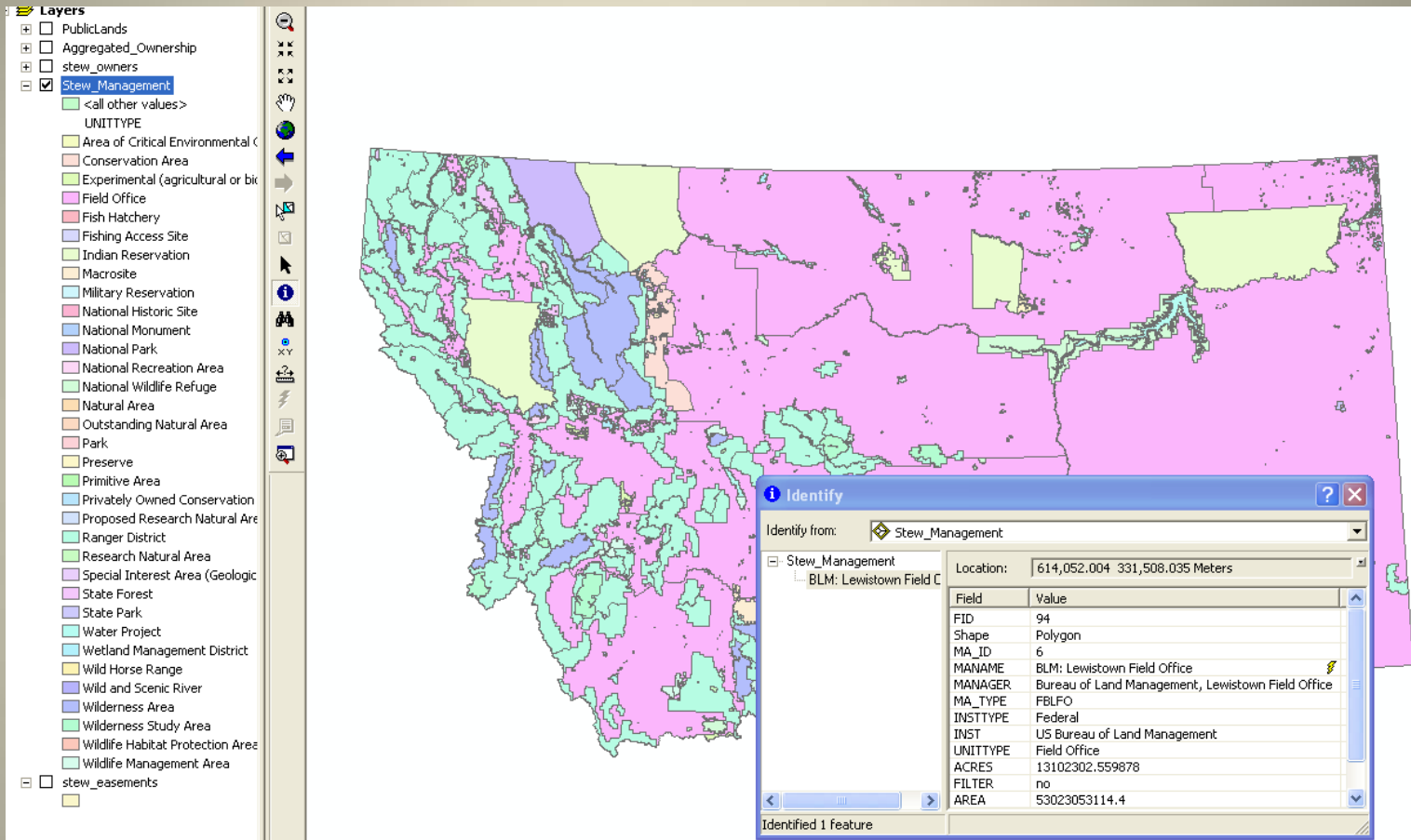
The goal of the Montana Land Stewardship Mapping Project is to manage a single, statewide digital data set that incorporates information from both public and private entities. The project assembles information on land ownership and management, conservation easements, state and federal agencies, and land trusts on a regular basis, with a major database update occurring annually.

This layer contains parcels owned by local, state, and federal agencies, land trusts, and other private conservation organizations.





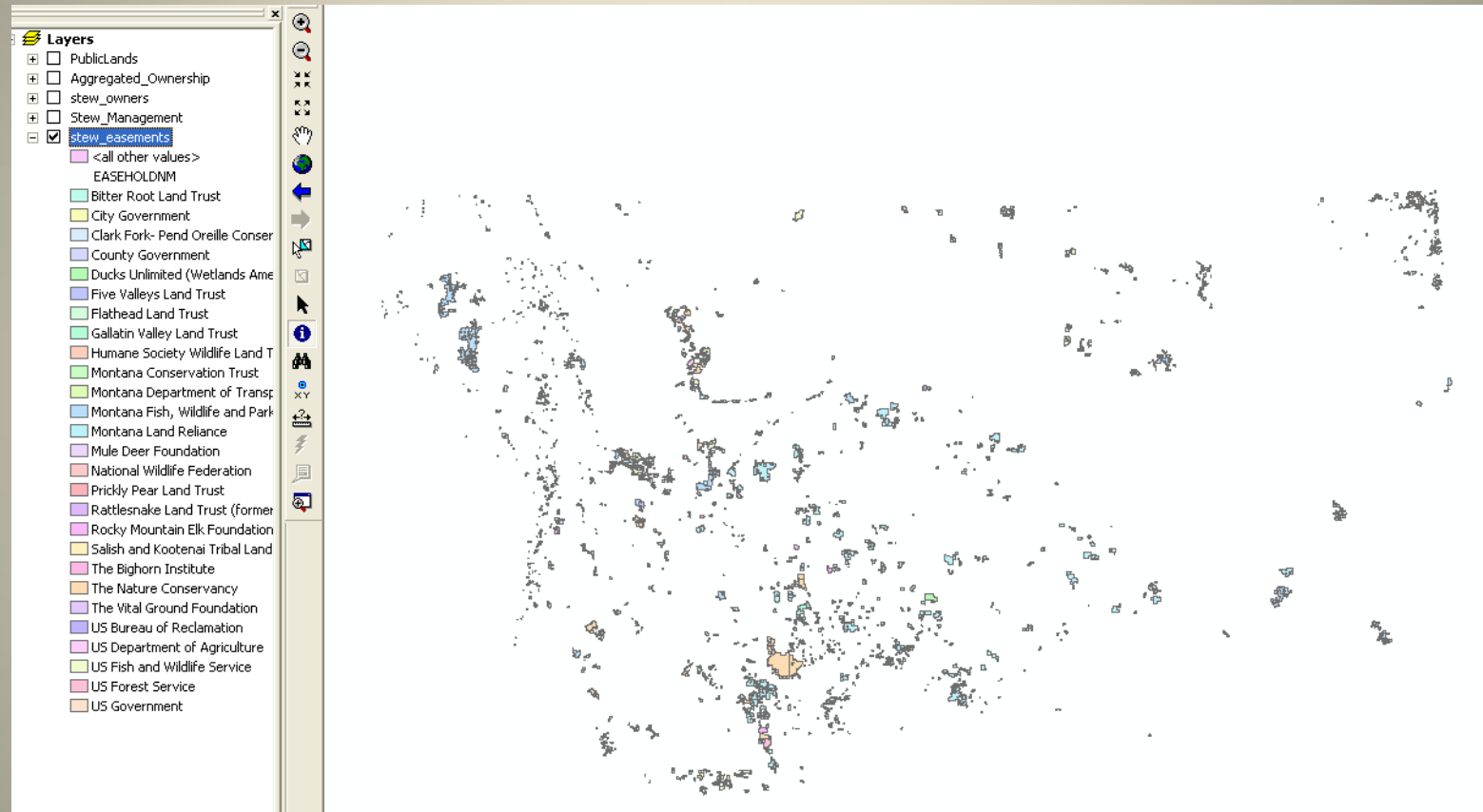
# Montana Managed Areas (MTNHP)



The Montana Managed Areas layer contains information on special land designations that impact management decisions. Examples include Indian Reservations, National Wildlife Refuges, State Parks, and Wilderness Areas. Managed Area boundaries do not necessarily correspond to ownership boundaries; a Managed Area may be made up of fee lands, easements, leased lands, and/or other terms. The other Stewardship layers may be referred to for ownership and conservation easement information.



# Montana Conservation Easements (MTNHP)



The Montana Conservation Easement data contains parcels on which a qualified Land Trust has placed a Conservation Easement in cooperation with the land owner.