



WSLCA WINTER CONFERENCE 2014



**Utilizing New Technologies
Public Land Record Access & GIS Mapping**

Prior to Computers 1893 - 1992

All information about Michigan
Department of Natural Resources property
records kept on individual index cards.



Computerization of Records 1992

Michigan Department of Natural Resources
(DNR) created a custom mainframe
computer-based records system.



Over 1 million document and parcel records were manually keyed in from the index card abstract system



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...and it cost millions of dollars

A Decade Later 2002

Due to the retirement of the mainframe computer, a new PC-based records system called LOTS (Land Ownership Tracking System) was created, importing the existing electronic records



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...and it cost millions of dollars

But it was a big improvement!

In addition to referencing all documents and parcels, the current system manages current purchase, sale, exchange, and easement transactions, as well as mineral leasing and land auctions.



Parcel records can be queried using any combination of dozens of different data fields

Land Ownership Tracking System

File Edit View Window Help

Display Parcel

Find Parcel - Select the Parcel(s) to return - Inquiry Only

Document Parcel Party Current Rights Project Activity Land Exam Disclosure Lease

Town: Range: Section: QQ: Q: Legal Description:

County: Local Par Num: Admin Agency: Parcel Type:

Jur Name: Ward/Item: Pvt Claim Num: Parcel Status:

Jur Type: Jur Id: Tax Sale Year/Num: Street Name/Dir: Par Id:

Consolidation Status:

Subdivision: Block: Lot: State OG Ownership:

CIS Index: REIS Sub Code Num: Subd Id: Subd Liber: Subd Liber Page:

Local Par Num	Location/Description	/	Sur %	Min %	Oth Rts	Size	Type	/	Cmts	Status	Admin Agency	Par Id/	Activities	Dis

Find Reset Hide Criteria Select All OK Cancel





Land Ownership Tracking System

File Edit View Window Help

Display Parcel

Local Par Num	Location/Description	Sur %	Min %	Oth Rts	Size	Type	Cmts	Status	Admin Agency	Par Id	Activities	Disclo
	Crawford, T25N, R04W, S25, Nw1/4 of NE1/4 (1) Nw1/4 NE1/4	100.00	100.00	No	40.00	Acreage	Yes		DNR	177517	Yes (1)	
	Crawford, T25N, R04W, S25, SE1/4 of NE1/4 (1) SE1/4 NE1/4	100.00	100.00	No	40.00	Acreage	Yes		DNR	177519	Yes (1)	
	Crawford, T25N, R04W, S25, Sw1/4 of NE1/4 (1) Sw1/4 NE1/4	100.00	100.00	No	40.00	Acreage	Yes		DNR	177518	Yes (1)	
	Crawford, T25N, R04W, S25, NE1/4 of Nw1/4 (1) NE1/4 Nw1/4	0.00	0.00	No	40.00	Acreage	Yes	Split	DNR	177520		
	Crawford, T25N, R04W, S25, NE1/4 of Nw1/4 (1) A strip of land in the NE1/4 Nw1/4, 200 ft wide	100.00	100.00	No	3.68	Acreage			DNR	177521	Yes (1)	

Row 1 of 19

Doc Seq	Doc Num	Doc Date	Transaction	Inv. Action	Doc Type	Sur%	Min%	Oth Rts	Party	Rev Deed	Cmts	Image	Doc ID	Case Num
3	7253	06/17/1991	Granted Easement	Disposal				Yes	Saginaw Bay Pipeline Compar		Yes		6240	
2	2525	02/11/1955	Granted Easement	Disposal				Yes	Crawford County Road Comm		No		2066	

Row 1 of 3

Details Location Subdivision Current Rights Easement Genealogy Par Num Funds Comments Description Activities Land Exam Disclosures Lease Fil

Parcel Status: Environmental Status: Data Source: MDL

Admin Agency: DNR Building: Last Updated By: DB2ADMIN 02/22/2008 10:30:42 am

Certificate Number: Water Frontage: Created By: DB2ADMIN 02/25/2000 12:00:00 am

Category: Dedicated Project Use: FOR Project Name: GRAYLING MANAGEMENT UNIT

Parcel Type: Acreage Consolidation Status:

Legal Description
Nw1/4 NE1/4

Land Ownership Tracking System

File Edit View Window Help

Display Documents

Doc Num	Doc Date	Transaction	Inv. Action	Doc Type	Party	Review Doc	Cmts	Image	Doc ID/	Case Num
7253	06/17/1991	Granted Easement	Disposal		Saginaw Bay Pipeline Company		Yes		6240	
2525	02/11/1955	Granted Easement	Disposal		Crawford County Road Commission				2066	
7457	12/29/1903	Tax Reverted	Acquisition						48944	

Row 3 of 3

Num	Location/Description	/	Sur %	Min %	Oth Rts	Size	Type/	Comments	Status	Admin Agency	Parcel Id/	Pur Amt
	Crawford, T25N, R04W, S24, SE1/4 of SW1/4 (1) SE1/4 Sw1/4		100.00	100.00	No	40.00	Acreage			DNR	177512	
	Crawford, T25N, R04W, S25, NW1/4 of NE1/4 (1) NW1/4 NE1/4		100.00	100.00	No	40.00	Acreage	Yes		DNR	177517	
	Crawford, T25N, R04W, S25, SE1/4 of NE1/4 (1) SE1/4 NE1/4		100.00	100.00	No	40.00	Acreage	Yes		DNR	177519	

Details | Deeded Rights | Funds | Parties | Comments | Current Rights

Doc Num: 7457	Act Num: 206	Liber: 0	Recording Liber:	Exch. Case #:
Doc Date: 12/29/1903	Act Year: 1893	Begin Page: 0	Recording Begin Page:	Exch. Case Date:
Transaction: Tax Reverted	Act Part: 67A	End Page: 0	Recording End Page:	Exch. Case Seg. #:
Doc Amount: \$0.00	Act Subpart:	Data Source: MDL		
Cert Number:	Act Name: Acquisition of Tax Reverted land.			

DMB Record Center

Rec Center #/Box #:

File/Lot #:



Land Ownership Tracking System

File Edit View Window Help

Maintain Case

20130274, DMVA, Crawford, EXCP, FRD

Transaction case management has been processed within the records system for the last decade.

Details Status Comments Closing Review Sales Case Files

Case Id: 7695 Case Name: DMVA State Acres: 310.00 DMB Record Center
 Case Number: 20130274 Case Trans Type: Exchange (for CASE processing) Acres Offered: 272.00 Rec Center #/Box #:
 Case Date: 10/28/2013 Case Admin Division: Forest Resources Division Trespass Ind: File/Lot #:
 Applicant Name: Trail Ind:

Case County

Available Counties: Assigned Counties: Crawford

Case Manager

Name	User ID	Work Phone	Office Address	E-Mail
Claire Stevens DNR F&O	stevensc1	(517) 241-4362	Finance and Operations 530 West Allegan P.O. Box 30448 Lansing, MI 48909	stevensc1@michigan.gov

Land Ownership Tracking System

File Edit View Window Help

Maintain Case

20130274, DMVA, Crawford, EXCP, FRD

- Acq, EX
 - 49892, ACR, Kalkaska, T26N, R05W, S15, NW1/4 of SE1/4 (1)
 - 177142, ACR, Crawford, T25N, R04W, S01, NE1/4 of NE1/4 (1)
 - 177143, ACR, Crawford, T25N, R04W, S01, NW1/4 of NE1/4 (1)
 - 177144, ACR, Crawford, T25N, R04W, S01, SW1/4 of NE1/4 (1)
 - 177145, ACR, Crawford, T25N, R04W, S01, SE1/4 of NE1/4 (1)
 - 177152, ACR, Crawford, T25N, R04W, S01, NW1/4 of SE1/4 (1)
 - 177153, ACR, Crawford, T25N, R04W, S01, SW1/4 of SE1/4 (1)
- Disp, EX
 - 177225, ACR, Crawford, T25N, R04W, S07, NE1/4 of NE1/4 (1)
 - 177226, ACR, Crawford, T25N, R04W, S07, NW1/4 of NE1/4 (1)
 - 177227, ACR, Crawford, T25N, R04W, S07, SW1/4 of NE1/4 (1)
 - 177228, ACR, Crawford, T25N, R04W, S07, SE1/4 of NE1/4 (1)
 - 177237, ACR, Crawford, T25N, R04W, S07, NE1/4 of SE1/4 (1)
 - 177247, ACR, Crawford, T25N, R04W, S08, NE1/4 of NW1/4 (1)
 - 177248, ACR, Crawford, T25N, R04W, S08, NW1/4 of NW1/4 (1)
 - 177249, ACR, Crawford, T25N, R04W, S08, SW1/4 of NW1/4 (1)
 - 177252, ACR, Crawford, T25N, R04W, S08, NW1/4 of SW1/4 (1)

Details | Status | Comments | Closing | Review | Sales | **Case Files**

File Name	Comments	Create By	Update By	File
Application.pdf		HARRISM1 11/12/2013	HARRISM1 11/12/2013	
20130274 Expedited Review	2013-11-12 Expedited Review Packet	HARRISM1 11/12/2013	HARRISM1 11/12/2013	

Row 1 of 2





Michigan Department of Natural Resources
Land and Facilities

LAND TRANSACTION APPLICATION

By authority of Part 21 of Act 451, P.A. 1994, as amended

20130274

This application provides the opportunity to propose an Exchange or Purchase of State-owned land or rights in land. Fair market value of the privately-owned land offered in exchange must be approximately equal to or greater than the fair market value of the State-owned land desired. The public use potential or natural resource value of the offered lands must be greater than that of the desired lands. Each application will be evaluated on its own merits.

Please provide full legal description or identify the DNR Parcel ID Number of the lands you desire to exchange or purchase. Attach map(s). Include additional pages, if necessary. Complete all requested information and sign and date on page 2. If this application is recommended for approval you will be notified of the next steps.

Payment of \$300 (for State land totaling up to 320 acres) or \$500 (for 320 acres or more) must accompany this application to cover the cost of reviewing this application. Please enclose a check or money order made payable to "State of Michigan." Applications will NOT be reviewed without payment.

Name of Applicant(s) COL Stephen Ward Dept of Military + Veterans Affairs	Organization DMVA
Mailing Address 3423 N. HICK JR Blvd	Telephone (517) 481-7921
City, State, ZIP Lansing, MI 48906	E-mail Address mward.cdc.mfg@mail.mil

Please check one of the following: EXCHANGE PURCHASE

DESIRED STATE-OWNED LAND

DNR Parcel ID Number	County	Township Name	Section(s)	Town	Range
Parcel ID: 051-008-001-020-00 located in T25N R04W Section 8 160 acres	Crawford	Crawfing			
Parcel ID: 051-007-001-020-00 located in T25N R04W Section 7 150 acres					
Please see attached page for exact section notation. Acres: 310					

LAND OFFERED IN EXCHANGE (IF ANY)

County	Township Name	Section(s)	Town	Range
Crawford	Crawfing			
Description				
Parcel ID: 051-001-001-020-00 located in T25N R04W Section 01 NE 1/4 + West 1/2 SE 1/4 252 acres		Parcel ID: 051-015-005-00 located in T26N R05W Section 15 NWSE 40 acres		
Acres: 272				
Minerals to be conveyed to the State? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other (Explain in Section B.)				

RECEIVED

OCT 28 2013

Michigan Department of Natural Resources
Complete your application at
DNR Field Office also
Real Estate Services

" DO NOT WRITE BELOW - FOR CASHIER'S USE ONLY "





LEGEND

- DNR Ownership**
 - Surface
 - Mineral and Surface
 - Minerals
 - Mineral Ownership
 - Other Rights
- Reserved Minerals**
 - 20 to 30 Acres of Surface Ownership
 - 40 to 50 Acres of Mineral and Surface Ownership
 - 60 to 70 Acres of Mineral Ownership
- ROW** DNR has a Right of Way and/or an acquired easement (S) from private landowner within the quarter-quarter section.
- Transportation**
 - Highway
 - Paved
 - Gravel
 - Poor Cut
 - Roadways
- Hydrology**
 - Drains or Intersecting Streams
 - Lakes and Ponds
- Utility Lines**
 - Pipeline
 - Powerline
- Political**
 - County Line
 - Sections
 - Townships



MAP INFORMATION
 DNR's Land and Mineral Rights Information is derived from the MDO's Land Ownership Database.

Partial information is compiled on the quarter-quarter section level. Multiple parcels with varying types of rights within a quarter-quarter section result in a Mineral Ownership category.

COMPLETENESS and QUALITY
 In general, the data does not reflect updated parcels, Deeds, Claims, and parcels within the City of Searsville and Clear Creek County, PA.

The acreage of a map is earned within a quarter-quarter section is identified by orange labels in the upper right corner of each quarter-quarter section.

The quality and acreage information of this data is unknown. It is suggested that this data be combined with a second source, such as plat maps, to further identify ownership.

LAND RIGHTS
 Mineral and Surface DNR owns both mineral and surface rights on parcels within a quarter-quarter section.

Mineral DNR owns only mineral rights on parcels within the quarter-quarter section.

Surface DNR owns only surface rights on parcels within the quarter-quarter section.

Mineral Ownership DNR has some information of mineral and surface rights on parcels within the quarter-quarter section.

Other Rights DNR has an easement, a plot of land, and/or other non-ownership rights on parcels within the quarter-quarter section.

Reserved Minerals DNR owns the full acre rights on parcels within the quarter-quarter section. Mineral rights are held by private party for a 20 to 30 acre parcel of surface mineral rights to be scheduled to be used by the DNR when a reservation period expires.

The information displayed on this map is intended for general purposes only. No warranty or liability is intended for the information displayed on this map. If further information is needed, it should be verified by contacting the DNR.



Static maps in .pdf format have been generated for years from the data, and provided for the public on the internet.



Zooming reveals physical details, and limited information about funding source of land, mineral leases, and rights currently owned.



In recent years, GIS systems have been developed from the data to provide interactive access to land ownership, mineral leases, trailways, timber, and other resources.





Department of Natural Resources

MAP GALLERY



Maps | DNR Maps | DEQ Maps | MDOT Maps | Other Maps | Updates | About the Gallery

Most of the GIS tools have been used primarily by internal DNR staff, but interfaces are now being developed and made available for public use on the internet.

Forest Inventory Viewer: IFMAP & OI
Forest inventory information. This viewer has the Management Area Viewer.

DNR Trails Viewer: Information pertaining to State Trails.

Aerial Imagery Viewer: Compare and measure areas using up to 3 different maps! (Opens in 1x view)

[** PUBLIC VERSION AVAILABLE HERE **](#)



page 2

page 3

page 4

Mobile

Forest Inventory Viewer

Menu

Legend

- ⊕ Treatments
- ⊕ Forested Stands
- ⊕ Non Forested Stands
- ⊕ Compartments
 - State Forest Compartment
 - State Park
 - Wildlife Division Land
- ⊕ Facilities
- ⊕ OI Stands
- ⊕ Trails

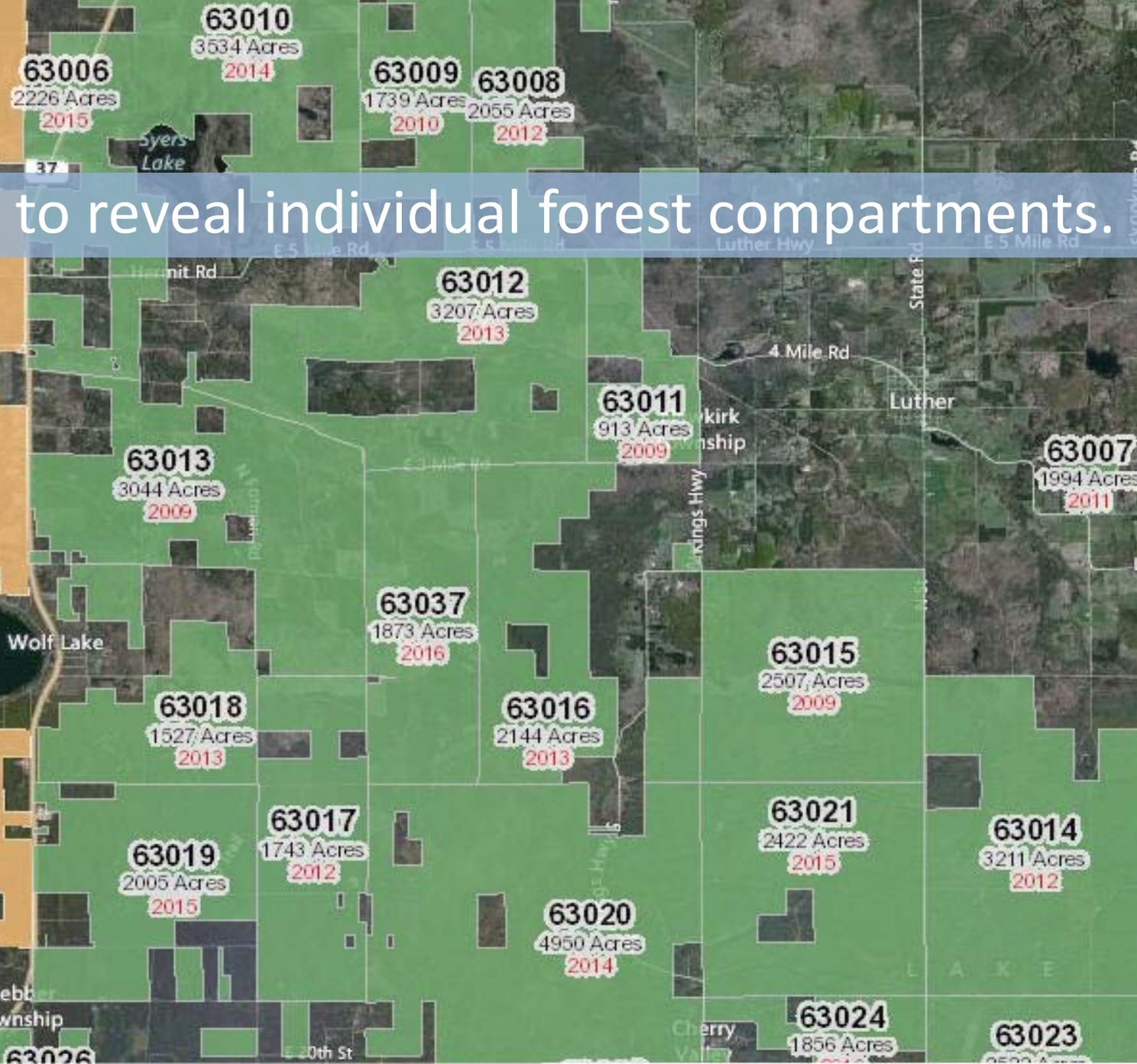


The Forest Inventory Viewer is used extensively by our foresters to manage and plan treatments for the forests.



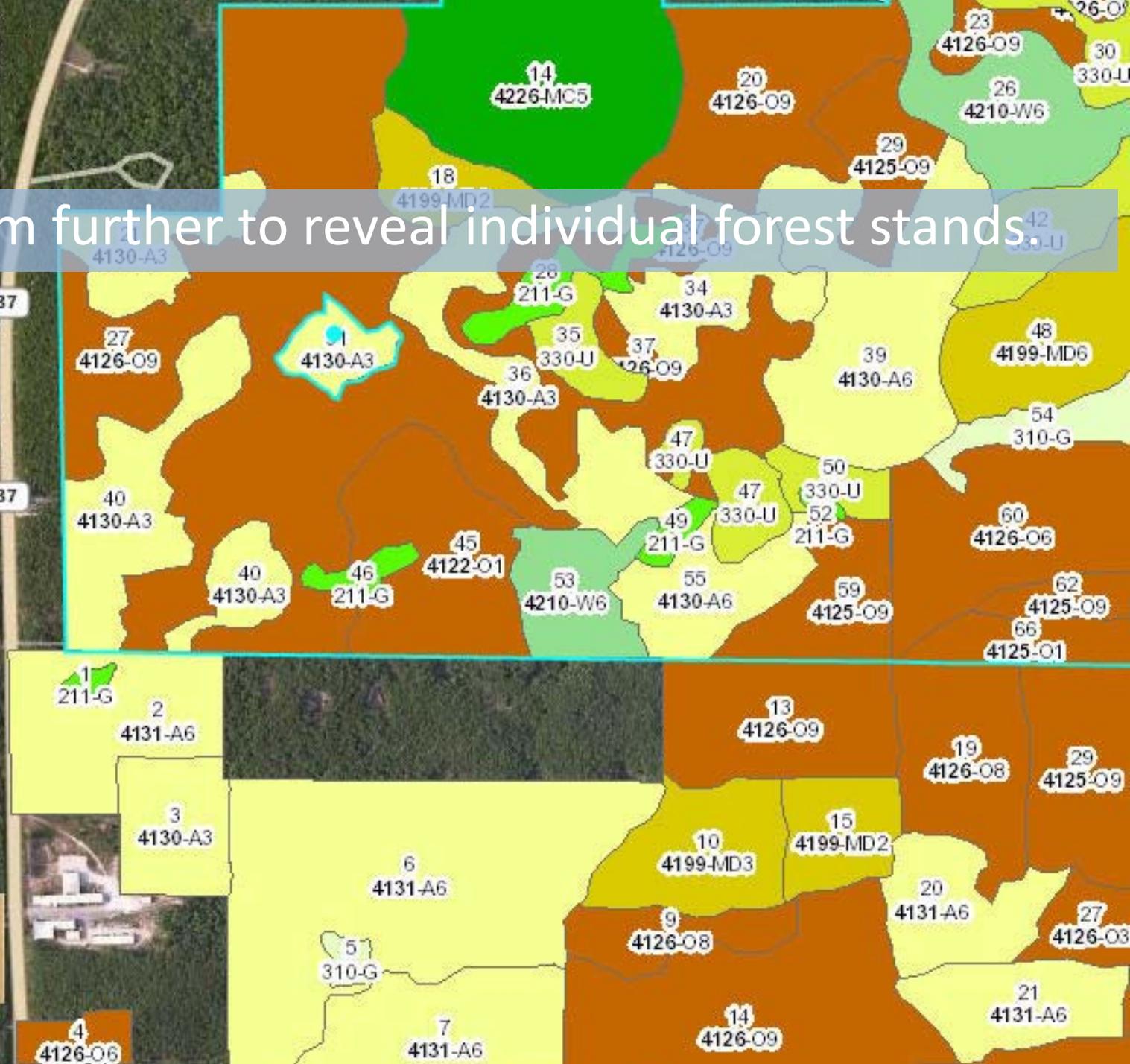
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Zoom to reveal individual forest compartments.



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Zoom further to reveal individual forest stands



Select a stand, and detailed information is available.

General: 1

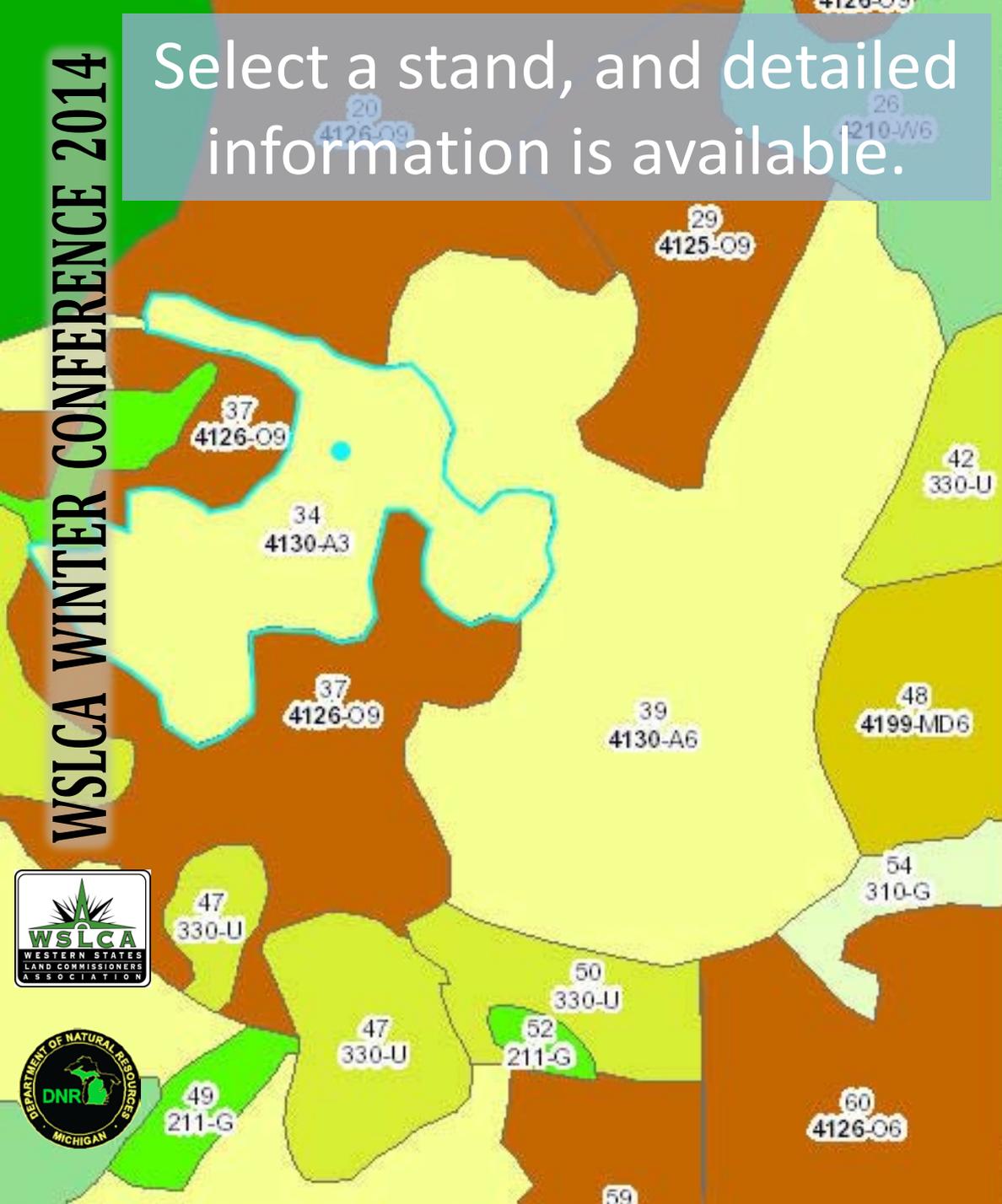
Treatments

Site Conditions

Forested Stands: 1

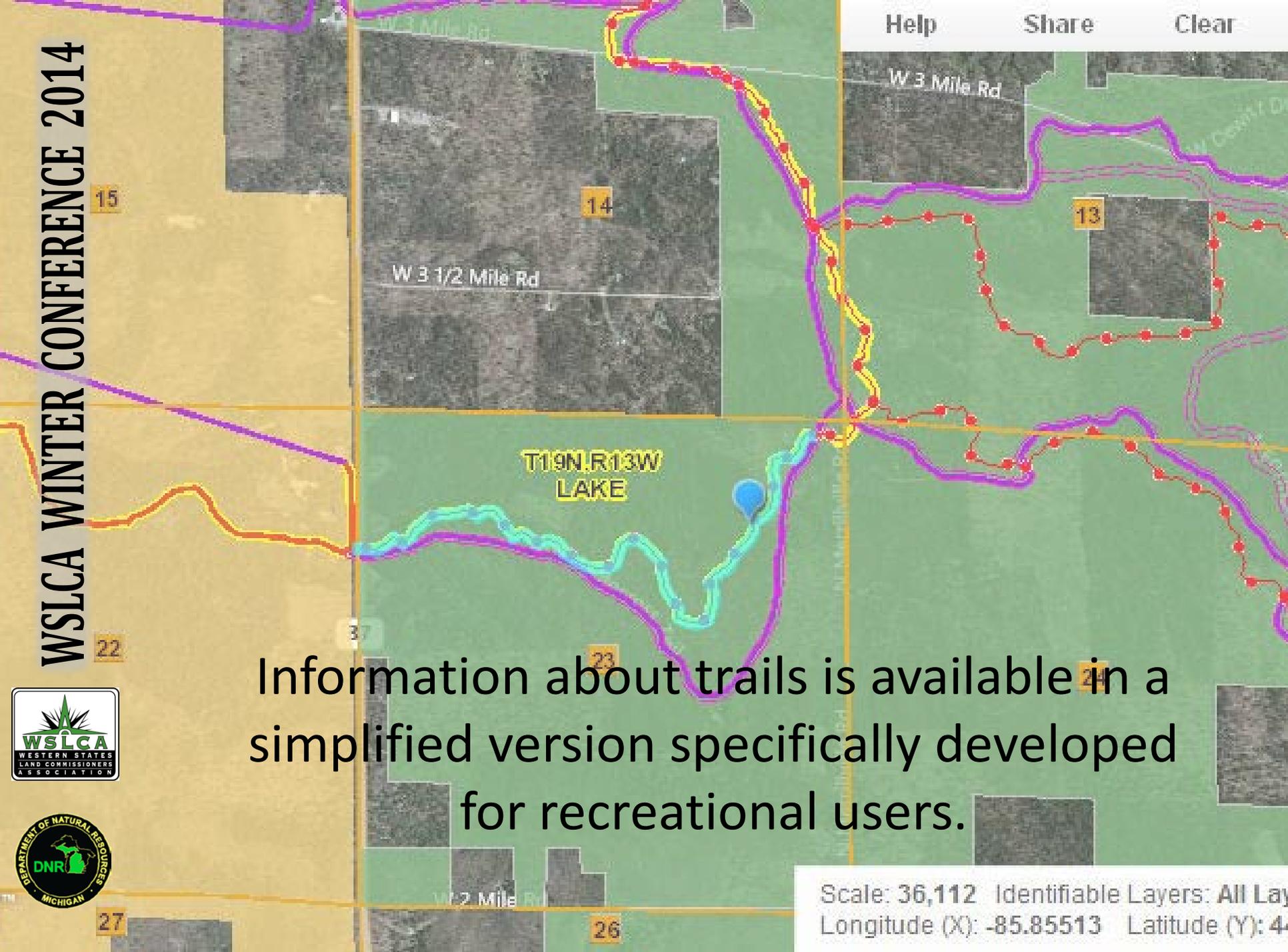
FCS Key	63018034
Compartment	63018
Stand	34
Acreage	14.55
Inventory Date	3/12/2011
Examiner	Michael Lesinski
Survey Type	Field
Lvl 4 Cover	4130 - Aspen
OI Code/Density	A3
First Age	17
Uneven Age	No
BA Range	1-50
Second Age	0
Stage 1 Canopy	75%: Bigtooth Aspen 20%: Red Maple 5%: Black/Red (Hybrid) Oak
Stage 1 Subcanopy	get Subcanopy
Comments	
Mgmt	
Considerations	

Non Forested Stands



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Help Share Clear



Information about trails is available in a simplified version specifically developed for recreational users.

Scale: 36,112 Identifiable Layers: All Lay
Longitude (X): -85.85513 Latitude (Y): 4



27

26



General Public

Governmental Agencies

Conservancies

Auction

Surplus property sales use GIS technology to get more information to potential buyers without direct staff involvement.

D Parcel Number:

Type DNR Parcel Id Here

Enter Parcel ID if known or find properties using search criteria below

Price Range:

Min Price

Max Price

Size Range:

Min Acres

Max Acres

Electric

Open

Water Front

Phone

Forested

Road Front

Mixed

Eastern Upper Peninsula

Western Upper Peninsula

Northern Lower Peninsula

Southern Lower Peninsula



ALCONA





[Land Sale Home](#)

[Michigan.gov Home](#)

[DNR Home](#)

[Links](#)

[Site Map](#)

[Contact DNR](#)

[Ask DNR](#)

Data View

Map View

Sort By

Select



Size: 0.49 acres

Minimum Accepted: \$44,700.00

Frontage and Access: Road Frontage

Property Description: LOT 49

Parcel Number 329687, Charlevoix,T:SAINT JAMES,S:Donegal Bay Sub.



Size: 0.75 acres

Minimum Accepted: \$12,900.00

Frontage and Access: Road Frontage

Property Description: LOTS 132 and 133

Parcel Number 330123, 1077963, Charlevoix,T:SAINT JAMES,S:Port St. James No. 2



Size: 0.28 acres

Minimum Accepted: \$6,900.00

Frontage and Access: Road Frontage

Property Description: LOT 147

Parcel Number 330127, Charlevoix,T:SAINT JAMES,S:Port St. James No. 2



Size: 0.96 acres

Minimum Accepted: \$7,400.00



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Data View

Map View

2D

3D

Road

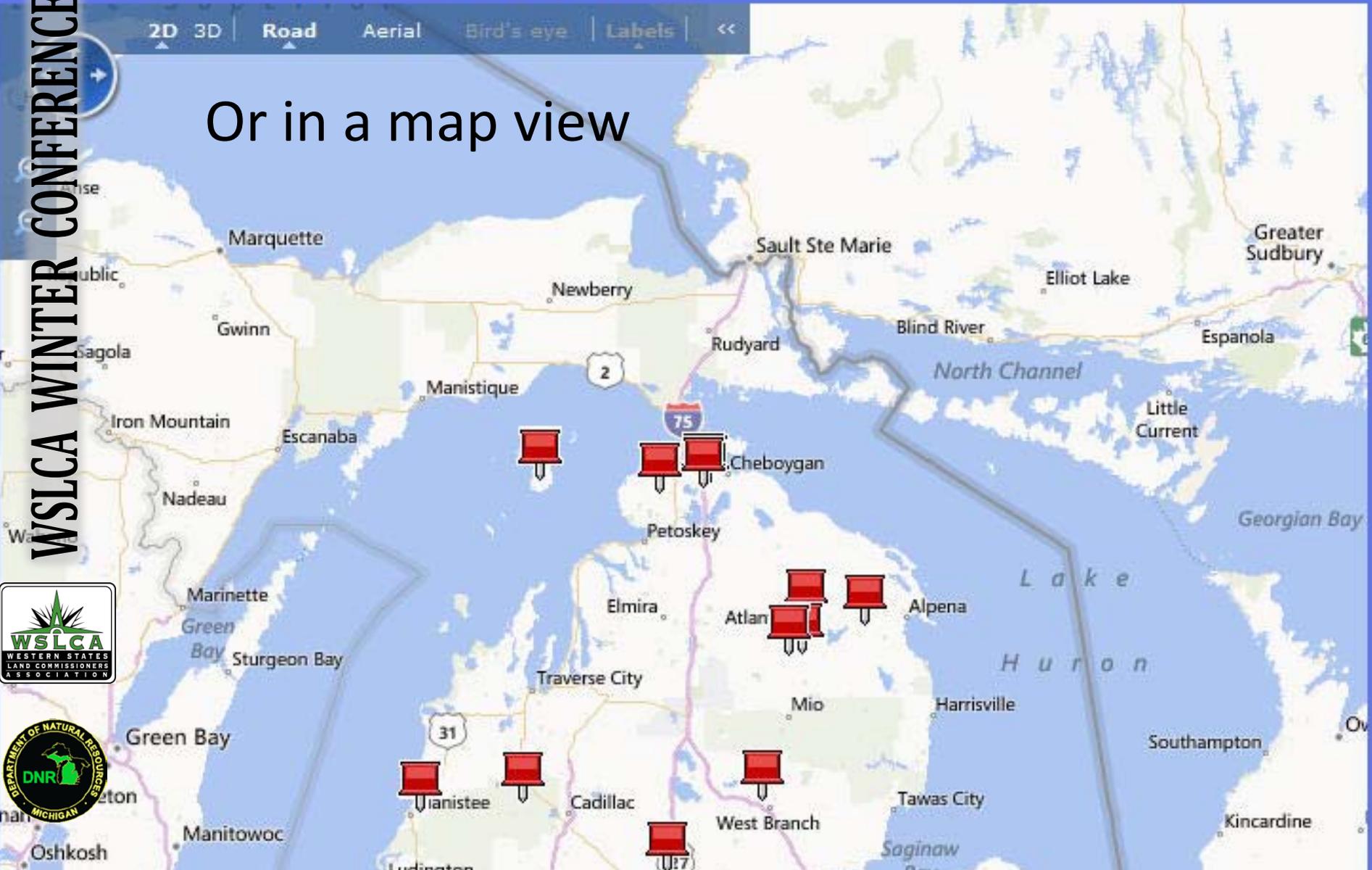
Aerial

Bird's eye

Labels

<<

Or in a map view



Property Information

Photo Gallery

Purchase Form

Map View/Directions



Parcel Number: 330145
County: CHARLEVOIX
Size: 1.43 acres
Minimum Accepted: \$94,900.00
Description: Charlevoix,T:SAINT JAMES,S:Port St. James No. 7
LOT 532

Comments

71 feet of frontage on Gull Island Road. Lot runs to the shore of Lake Michigan. It is subject to an easement for private road Trout Island Court. Contact: Paul at (517) 373-1096 or by email JohnsonP1@michigan.gov .

Location

Westerly portion of Beaver Island on the western shore.

[More Information](#)

[Statewide Search for Subdivision Plats](#)

Age and Access: Water Frontage, Road Frontage

Use: Forested

Reservations

A property right in aboriginal antiquities including mounds, earthworks, forts, burial and village sites, mines, or other relics also reserving the right to explore and excavate for the same as provided under Article III, part 761 of PA 451 of 1964 as amended, All mineral, coal, oil and gas lying on, within or under the sale properties except sand, gravel, clay or non-metallic minerals along with associated rights as provided under Article 1, Part 5 of PA 451 of 1994 as amended.

Environmental Concerns

Detailed information is available for each parcel



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Property Information

Photo Gallery

Purchase Form

Map View/Directions

Starting Address:

Get Directions

2D 3D | Road **Aerial** Bird's eye Labels <<

Hide Shading

Including map view with custom driving directions

Jill Island Rd

nd Ct



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