



Logging & Recreation Trails



or

“Playing nice in the same sandbox?”

Forest Management Advisory Committee

July 16, 2014

by

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Manager, Gaylord Unit

Forest Resources Division

www.michigan.gov/DNR



Logging & Recreation Trails



Gaylord Forest Management Unit

A large, dark silhouette of a tree is positioned on the left side of the slide, extending from the top to the bottom.

Forest Management – Planning & Inventory, Certification, Timber Management (harvesting & reforestation), Forest Health

Fire Program (includes the PRC) – Wildfire suppression & prevention, Prescribed Burning, VFD's Federal Excess Equipment & wildfire training

Land Use – Gas & Oil Development, Easements & Use Permits, Trespasses, Land Transactions, Adopt-A Forest, Resource Damage & Road Maintenance

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Gaylord Forest Management Unit

Forest Recreation with Parks & Rec Division:

Snowmobile Grant Program Administration - **483.5** miles of trail working with **6** clubs to inspect brushing, signing, special projects and grooming.

Rail Trail - **97** miles to maintain (mowing, grading, etc.)

Ski Trail Grooming – Wildwood (Cheboygan Co.) **9.3** miles and Pine Baron (Otsego Co.) **6.7** miles

ORV Administer Grant Program – **282+** miles

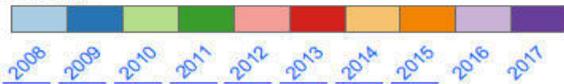
Logging & Recreation Trails



Gaylord Management Unit State Forest Compartments by Year of Entry

(Click on Year to Display a List of Individual Maps)

YearOfEntry



- State Forest Campgrounds
- State Park Campground
- Highway
- Roads
- Streams
- Parks Designated Trails
- Hiking, Ski, Snowshoe, Horse & Bicycle Trails
- Motorcycle (DNR License)
- Motorcycle (SOS License)
- ATV Trail
- ORV Route
- Designated Snowmobile Trails
- FMD Rail to Trails
- National Park Service Trails
- Counties
- Townships
- Lakes and Rivers
- Cities

Indian River Office - 6 Staff
Gaylord Fld Office - 9 Staff
Bellaire - 1 Fire Officer

58 Compartment Number

2010 Year of Entry

Year of Entry (YOE) represents the fiscal year treatments will be initiated. Treatment decisions are made approximately





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Forest Inventory



Each year, staff collects forest data on 1/10th of the state forest, which is divided into compartments for each Management Unit.

Within a decade, the whole State forest is inventoried.

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Forest Inventory

Physical features, such as property boundaries, lakes & streams, roads and trails are identified in the compartment using aerial imagery.

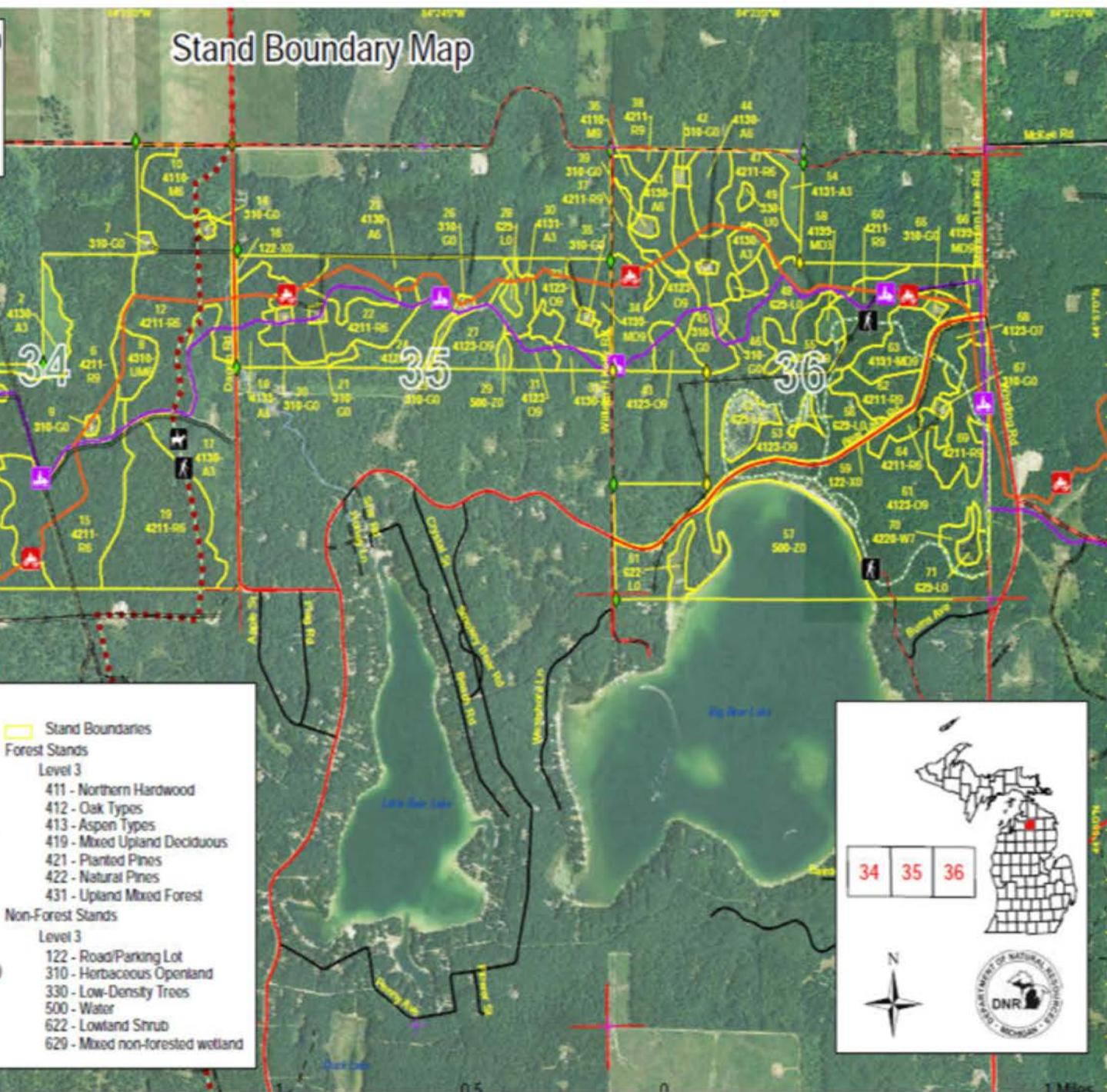
Forest types are delineated then field data is collected for age, health, quality and quantity of trees and other vegetation.

Parcel: 023
 Section: 34-36
 Location: Otsego
 Owner: Paylor
 Parcel ID: 016
 GIS Calculated
 Preparer: Zach Crew
 Revised: 05/12/2014
 Phase: Pre-Review

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3
 Level 4
Code
Cover Type Code

Stand Boundary Map

- | | |
|--|---|
| <ul style="list-style-type: none"> Highway County Paved Roads Paved Roads County Gravel Roads Gravel Roads Poor Dirt Roads County Poor Dirt Roads Trail (Non-Recreation) Intermittent Stream Pipeline Powerline Horse Trail Hiking Trail Motorcycle (DNR Stocker) ORV Trail ORV Route Snowmobile Trail | <ul style="list-style-type: none"> Stand Boundaries <p>Forest Stands</p> <ul style="list-style-type: none"> Level 3 411 - Northern Hardwood 412 - Oak Types 413 - Aspen Types 419 - Mixed Upland Deciduous 421 - Planted Pines 422 - Natural Pines 431 - Upland Mixed Forest <p>Non-Forest Stands</p> <ul style="list-style-type: none"> Level 3 122 - Road/Parking Lot 310 - Herbaceous Openland 330 - Low-Density Trees 500 - Water 622 - Lowland Shrub 629 - Mixed non-forested wetland |
|--|---|



34
35
36



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Forest Inventory

Forest Treatments are prescribed:

Specific notes detail desired results

- Type of harvest method
- What to cut or not to cut
- Time of year for harvest activity
- Or any other special condition

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13 52023013-Cut 43.6 4191 - Mixed Upland Deciduous with Conifer High Density Log 82 111-140 Harvest Group Selection 4122 - Oak, Pine Cmpt. Review Proposal

Prescription In areas heavy to oak/aspens, consider establishing regen gaps at least 150 feet in diameter. All species should be removed in these gaps.

Specs: Outside the gaps the stand should be thinned to a BA of 60 with the idea of promoting and releasing the white pine established in the understory. Be sure to keep a minimum distance of 2 chains between gaps. Be sure to protect both the snowmobile and orv trail during the admin of the sale.

Other In the gaps regen should be dominated by oak with a mix of aspens and red maple. Outside the gaps the white pine already present in the

Comments: understory should be released with more seedlings encouraged to grow.

Next Regen survey

Steps:

Proposed

Start Date: 10/01/2015

15 52023015-Cut 53.0 42110 - Planted Red Pine High Density Pole 51 141-170 Harvest Systematic Thinning 4211 - Planted Red Pine Cmpt. Review Proposal

Prescription Establish skid rows heading east and west from the pipeline that splits the stand. Make sure the rows are wide enough for logging equipment to

Specs: skid down them. Mark out trees in these rows with orange paint. Rows should be staggered on each side of the pipeline so that they don't meet at the same point on the pipeline. Be sure to protect both the snowmobile trail and the ORV trail during the sale. Target a residual BA of 120

Other The purpose of this harvest is to establish rows in the stand so that it is accessible during the next entry.

Comments:

Next monitor the growth of the residual trees.

Steps:

Proposed

Start Date: 10/01/2015

Logging & Recreation Trails



31 52023031-Cut 5.6 4123 - Red Oak High 76 81-110 Harvest Clearcut with Reserves 412 - Oak Cmpt. Review Proposal
Density Log

Prescription Clearcut stand, leave 3 - 5 oak and pine in clumps. Limit damage to any white pine in the understory as much as possible. Focus clumps along
Specs: snowmobile trail. Protect snowmobile trail at all times.

Other Expected regen is mainly oak with a small component of aspen and red maple, if the understory white pine isn't damaged that will be in the mix
Comments: as well.

Next monitor regen
Steps:

Proposed
Start Date: 10/01/2015

32 52023032-Cut 14.0 4123 - Red Oak High 69 81-110 Harvest Clearcut with Reserves 412 - Oak Cmpt. Review Proposal
Density Log

Prescription Clearcut stand, leave 3 - 5 oak in clumps as retention, do not be afraid to mix in other species as well. Focus clumps along orv and snowmobile
Specs: trail as well as private boundary to the north. Make sure to protect the snowmobile trail.

Other Regen is expected to be mainly oak with a mix of aspen and red maple.
Comments:

Next monitor regen
Steps:

Proposed
Start Date: 10/01/2015

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Michigan Department of Natural Resources

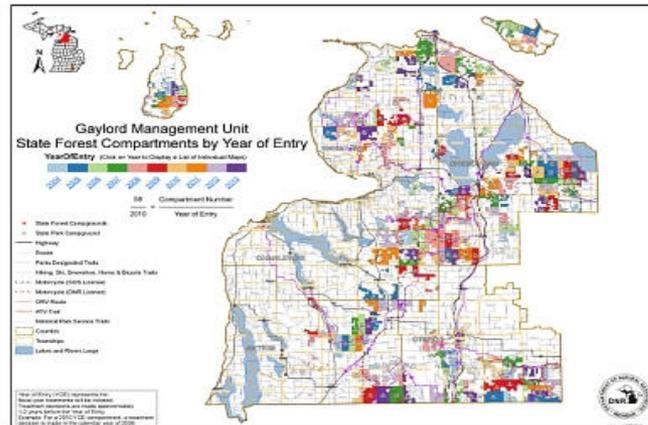
Public comments are welcome before 'Compartment Review' either by emails or open houses.

- About the DNR
- Camping & Recreation
- Commissions, Boards and Committees
- Doing Business
- Education & Outreach
- Fishing
- Forestry
- State Forest Management, Planning & Participation
- Forest Products
- Fuelwood/Firewood
- Living Legacies
- Regional State Forest Management Plans
- Burn Permits
- Business & Industry
- Fire Management

DNR > FORESTRY > STATE FOREST MANAGEMENT, PLANNING & PARTICIPATION

Gaylord

The Gaylord Unit manages over 315,000 acres of state forest lands in Cheboygan (SW of Black River), Antrim, Charlevoix, Emmet, and Otsego Counties. You can reach the Unit Manager Joyce Angel at 989-732-3541 ext.5440, or send her an email at AngelJ1@michigan.gov



Click on the map to view the Gaylord Forest Management Unit

Scroll to the bottom of the page for more information on current management strategies and specific State Forest compartments



Related Content

- Forest Resources Unit Boundaries Map [PDF](#)
- Southern Lower Peninsula
- Atlanta
- Gwinn
- Baraga
- Cadillac
- Crystal Falls
- Escanaba
- Gladwin
- Grayling
- Sault Ste. Marie
- Newberry
- Pigeon River Country Michigan.gov/dnripigeon
- Roscommon
- Shingleton
- Traverse City



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Compartment Review

Timber management, wildlife & fisheries habitat, T & E species, archeological sites, minerals, recreation use, wildfire potential and social concerns are reviewed by the various agencies to finalize the plans.

The specialists and “...ologists” come to agreement after many discussions to mitigate conflicts.



Logging & Recreation Trails



Timber Sale Proposal

- 
- Stand boundary painted
 - Timber volume is estimated by statistical cruising and/or mark & tally methods.
 - Specific requirements for executing the harvest treatment is listed per the prescription
 - Sale map is created noting the features in the area, i.e.: roads & trails

Logging & Recreation Trails



Timber Sale Proposal



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Timber Sale Proposal

5.2.41 - Snowmobile trail protection (9/11)

<< ****The [trail name] is a snowmobile trail and is shown on the Timber Sale Map. >>Do not cut or damage posts with orange trail markers or traffic control signs. << ****If the trail is used, it must be maintained and restored to a condition equal to or better than before the sale. >>>< ****The road maintenance/restoration must be done prior to December 1. >>>< ****If the trail is used for hauling, it must be graded to the satisfaction of the Unit Manager or********

Name: Sale Specific

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Current as of 7/7/2014 11:49:47AM

Standard Template

his/her representative prior to December 1st. >>>< ****If the trail road is to be used for hauling during the snowmobile season, then a snow covered base must be left on the trail. >>>< ****The snowmobile trail may not be used for any timber sale operations from December 1 to March 31. >>>< ****The snowmobile trail may only be crossed at right angles. >>>< ****Maintain a 20 foot wide slash, debris, and rut free zone daily using the snowmobile trail as the centerline. >>>< ****No decking of forest products will be permitted along the snowmobile trail. >>>< ****All stumps within 20 feet of the snowmobile trail must be cut at ground level. >>>< ****In addition, any trees cut within 5 feet of the trail must have the stumps removed and be disposed of according to the direction of the Unit Manager or his/her representative. >>**************

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Timber Sale Proposal

5.2.39 - ORV trail/route protection (12/12)

<< ****The [trail name] is an ORV trail or route and is shown on the Timber Sale Map. >>>> ****Do not cut trees or damage posts with orange ORV markers. >>>> ****Trees with orange ORV markers shall be cut off above the markers and at least 5 feet above ground. >>>> ****All stumps within 5 feet of the trail must be cut flush with the ground. >>>> ****All stumps within 5 feet of the trail must be cut off at least 5 feet above ground level. >>>> ****Maintain a 20 foot wide slash, debris, and rut free zone daily using the ORV trail or route as the centerline. >>>> ****Do not run equipment down the ORV trail or route. >>>> **** Skidding across the trail or route may only occur in locations approved by the sale administrator. >>****************

5.2.40 - Pathway protection (10/10)

<< ****The [trail name] is a [bike, hiking, horse, ski] trail and is shown on the Timber Sale Map. >>>> ****Do not cut trees or damage posts with blue pathway markers. >>>> ****Maintain a 20-foot wide slash, debris, and rut free zone daily, using the pathway as the centerline. >>>> ****Do not run equipment down the pathway. >>>> ****Skidding across the trail may only occur in locations approved by the sale administrator. >>**********

Logging & Recreation Trails



Timber Sale Proposal

6.2 - Signing

6.2.1 - Road posting (9/09)

The Purchaser is responsible for posting and maintaining caution signs on << **road name >> prior to beginning operations. The road must be posted << **at locations designated on the map >>>< **at appropriate distances from the sale area >>>< **200 feet from the sale area >> to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed. << **The Purchaser will provide these signs. >>

6.2.2 - Snowmobile trail posting (8/09)

The Purchaser is responsible for posting and maintaining caution signs on << **snowmobile trail name >> prior to beginning operations during the snowmobile season (approximately December 1 to March 31). The trail must be posted << **at locations designated on the map >>>< **at appropriate distances from the sale area >>>< **200 feet from the sale area >> to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed. << **The Purchaser will provide these signs. >>

6.2.3 - Recreational trail posting (2/10)

The Purchaser is responsible for posting and maintaining caution signs on << **trail name >> prior to beginning operations. The trail must be posted << **at locations designated on the map >>>< **at appropriate distances from the sale area >>>< **200 feet from the sale area >> to warn of logging activity and truck traffic at both ends of the trail. Signs must be removed when harvest operations are suspended or completed. << **The Purchaser will provide these signs. >>

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Timber Sale Prospectus

- Has a narrative on cover sheet noting any special conditions for the sale
- Contains the timber sale map
- Includes the Specification & Requirements that will become the contract language

Logging & Recreation Trails



DEPARTMENT OF NATURAL RESOURCES STATE OF MICHIGAN

TIMBER SALE PROSPECTUS #5155

SCHEDULED SALE DATE AND TIME: 3:00 p.m. (local time) on June 25, 2014.
LOCATION: GAYLORD FIELD OFFICE, 1732 WEST M-32, GAYLORD, MI 49735.

PROSPECTUS NOTE: The bidder is advised to inspect the sale area and review the location, estimated volumes, operating costs and contract terms of proposed sales. Please be aware that some landowners may request 60 days or more notice for access across their land.

Notice is hereby given that bids will be received by the Unit Manager, GAYLORD MANAGEMENT UNIT, for certain timber on the following described lands:

SUNDAE HDWDS (52-004-14-01) / T30N, R06W, SEC. 21, E1/2SE.
Antrim County, Advertised Price \$13,312.20, 35.0 Acres

SALE NOTE: Good access. Sawlogs 100% tallied.

No designated recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Access may be through state forest land.

MISSED BUCK MIX (52-007-14-01) / T31N, R05W, SEC. 10, E1/2NE, NWSE, E1/2SW, SENW.
T31N, R05W, SEC. 11, W1/2NW.
T32N, R05W, SEC. 33, SESE.
T32N, R05W, SEC. 34, SWSW.
Antrim County, Advertised Price \$11,980.00, 56.0 Acres

SALE NOTE: Best way to access sale is from north off of Grygeir Road. The sale can also be accessed off of M32 using State or private lands. Small vehicles are able to access area off of US-131.

A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Certain restrictions/specifications may be applicable including time restrictions. Access may be through state forest land.

C 42 SALVAGE #6 (52-019-13-01) / T33N, R04W, SEC. 22, S1/2NW, N1/2SE, N1/2SW, SW/NE.
Charlevoix County, Advertised Price \$15,461.00, 78.0 Acres

SALE NOTE: Ash and beech salvage. Some steep slopes in sale area. Access road will need work to allow hauling.

A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Certain restrictions/specifications may be applicable including time restrictions. Access may be through state forest land.

RAINBOW DASH ASPEN (52-023-13-01) / T33N, R04W, SEC. 20, E1/2SE.
T33N, R04W, SEC. 21, W1/2SW, NESW, SWNW.
Charlevoix County, Advertised Price \$17,278.40, 53.0 Acres

SALE NOTE: Some portions of sale area are found in lowland types, special attention to BMP's is required.



TIMBER SALE MAP

This information provided by authority of Part 525 of Act 451, PA 1994, as amended.

Sale Number
52-013-14-01

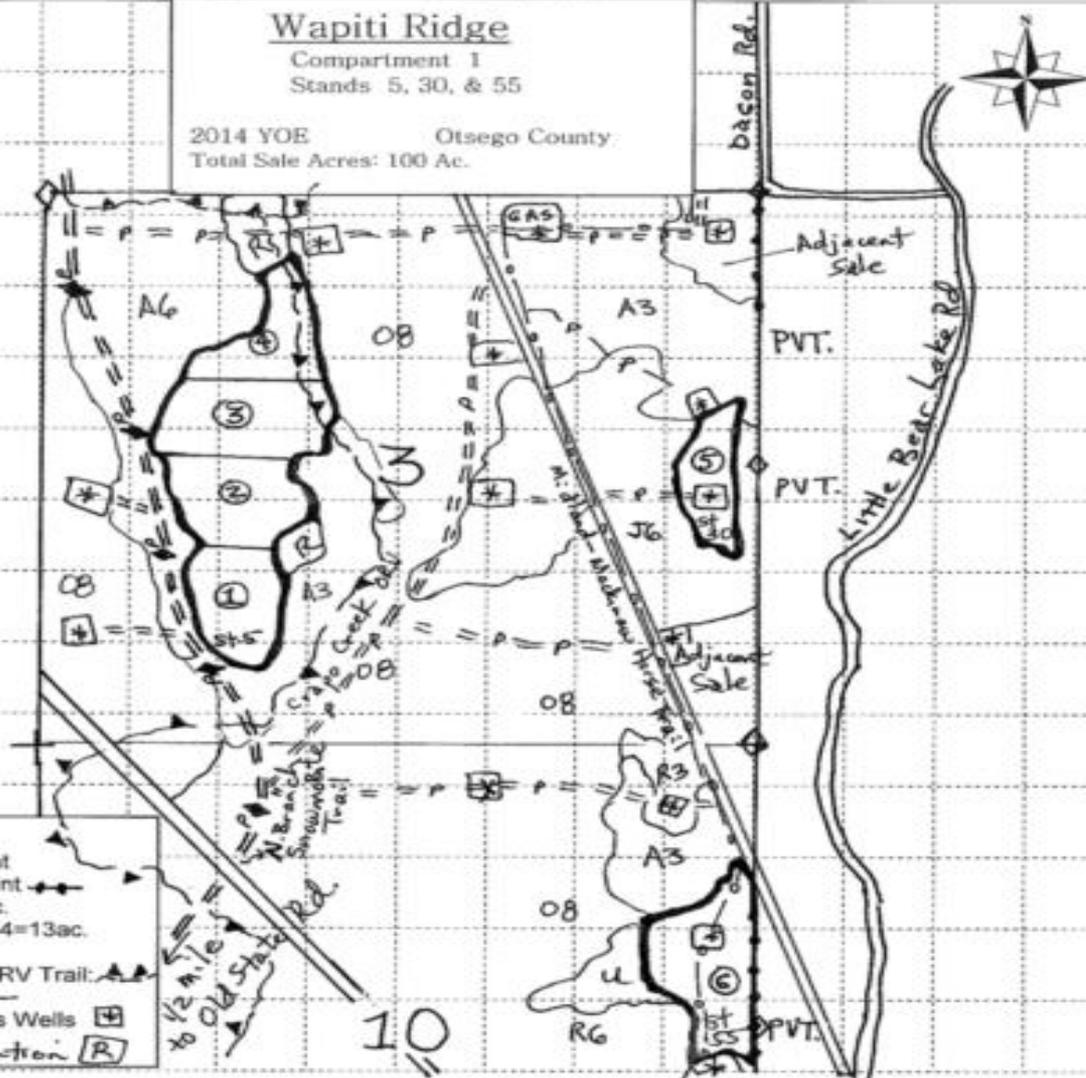
Year
2014

Forest Management Unit Gaylord Mgt. Unit/South		County Otsego	Mapped By Lents	Date 06-26-2014	Page of 1 of 1
Township T29N,	Range R01W,	Section(s) and Subdivision: Sec. 3 NENW, S1/2NW1/4, SW1/4, SENE, NESE Sec. 10 E1/2NE1/4, NESE		Scale: ... 1/4"..... = 1 mile	
Cover Type			Density		
A = Aspen B = Paper Birch C = Cedar E = Swamp H2woods F = Spruce Fir G = Grass	H = Hemlock J = Jack Pine L = Lowland Brush M = Mpl. Bch, Rch. N = Marsh O = Oak	P = Lowland Poplar Q = Mixed Swamp Cntr R = Red Pine S = Black Spruce T = Tamarack U = Upland Brush	V = Bog or Marsh W = White Pine X = Non Stocked Z = Water	0 = Non Stocked 1 = Seeding Sapling Poor 2 = Seeding Sapling Medium 3 = Seeding Sapling Well 4 = Pole Timber Poor	5 = Pole Timber Medium 6 = Pole Timber Well 7 = Saw Timber Poor 8 = Saw Timber Medium 9 = Saw Timber Well

Wapiti Ridge

Compartment 1
Stands 5, 30, & 55

2014 YOE Otsego County
Total Sale Acres: 100 Ac.



LEGEND

- Sale Boundaries: Red Paint
- Private Boundary: Blue Paint
- Payment Units: PU1=18ac.
PU2=18ac. PU3=18ac. PU4=13ac.
PU5=10ac. PU6=23ac.
- Snowmobile Trail: ORV Trail:
- Horse/Hiking Trail:
- Gas Pipelines: Gas Wells:
- Survey Corners: Retention



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Timber Sale Contract

- Usually 3 years to complete harvest
- (due to markets and the operating restrictions)

- A performance bond is required for every sale. It is held until contract compliance is satisfied.

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Timber Sale Administration





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Timber Sale Administration

‘Pre-sale meeting’ between forester and logging crew to review specifications & requirements, usually on site

Frequent site visits (+/- weekly) to check on contract compliance and logger’s progress

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“Personally” ...

- Signing for both riders & loggers
- Snow base plowing
- Loggers do not like to mingle traffic either
- Short detours
- Some areas just won't work



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SINGLE SIDE INTERSECTION: Use whenever there is a trail junction from either the right or left. Do NOT use when the trail makes a "T"... use a Stop/Stop Ahead combo instead.



DEER AREA: Use in areas where high deer populations result in deer using or crossing the trail on a regular basis.



LOGGING AHEAD: Required whenever a logging operation is being conducted along, or adjacent to a trail



DRIFT AREA: Warns user of potential snow drifts, especially true in open areas prone to high winds and deep snow.



TWO-WAY TRAIL: Reminds user that we run a two-way system. Careful not to overuse this sign. Use at trailheads or major intersections or when running adjacent to a road shoulder.



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Questions?



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