



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52037

Entry Year 2022

Acreage: 3,646

County Charlevoix

Management Area: Chandler Hills

Revision Date: 2020-03-06

Stand Examiner: Trevor Kubitskey

Legal Description:

T33N, R05W Sections 1-4, & 9-15.

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and topography:

The primary soil types within the compartment are Leelanau, Kalkaska and Emmet soils in the upland areas. The lowlands are composed of Organic Mucks. The topography ranges from very hilly uplands to lowland swamps with areas of good quality soils that allow for excellent aspen and northern hardwood stands.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

Ownership patterns have stayed fairly constant and development within the area has mostly been residential areas. The compartment surrounds a block of privately owned parcels in the center, and joins state land to the North, East and South.

Unique Natural Features:

The two designated Coldwater streams are significant to this compartment by creating unique river corridors.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The compartment contains Bear River and Spring Brook which are both designated cold water streams as well as both are apart of the Little Traverse Bay Watershed. Both river/creek systems should and will be protected if any management takes place within their vicinity.

Wildlife Habitat Considerations:

The large lowland complexes, combination of timber types and multiple river courses provide the compartment with excellent habitat for both game and non-game wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

Numerous active sand/gravel pits are located within a few miles of the compartment, and there is good sand & gravel potential within the compartment. However, much of the compartment is covered by wetlands, which could limit development. The best potential appears to be in sections 1 and 12. There has been no oil & gas development within the compartment. The nearest production, past or present, is located more than four miles away. The Antrim Shale is very thin or absent here and close to the surface, and there is no known potential for production from any other known hydrocarbon-bearing formations in this area. However, some older state mineral leases remain in this area, which are held by production from wells far from the compartment. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights

Vehicle Access:

Accessibility is fair in portions of the compartment. Most vehicle access is from main county roads that intersect the area with segments of Forest Roads that stretch into the upland portions of the compartment.

Survey Needs:

The majority of the compartment has been surveyed in the past due to past management and multiple land transactions. Currently, the survey needs are low; however some work will be needed in section 13.

Recreational Facilities and Opportunities:

Although there are no recreational facilities within the compartment, there are multiple rec trails that run through the compartment. The Snowmobile trail runs on the south edge of the compartment as well as the Motorcycle trail that runs throughout the large hardwood complex in the east portion of the compartment. Other opportunities include hunting in the variety of upland and lowland type forests, as well as canoeing down the Bear River.

Fire Protection:

Fire activity and probability within the area is very low to none. There may be some potential from lightning strikes in the lowland areas. These areas contain a higher amount of dead material as well.

Additional Compartment Information:

This compartment was collaboratively inventoried by Trevor Kubitskey and John St. Pierre during fall/winter of 2019/20.

The following reports from the Inventory are attached:

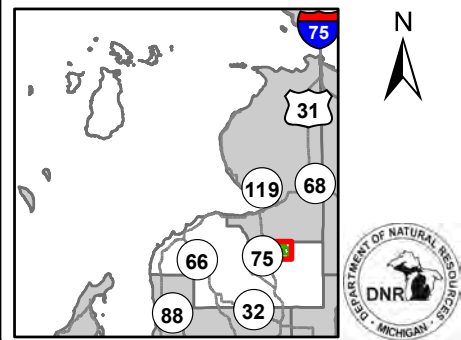
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

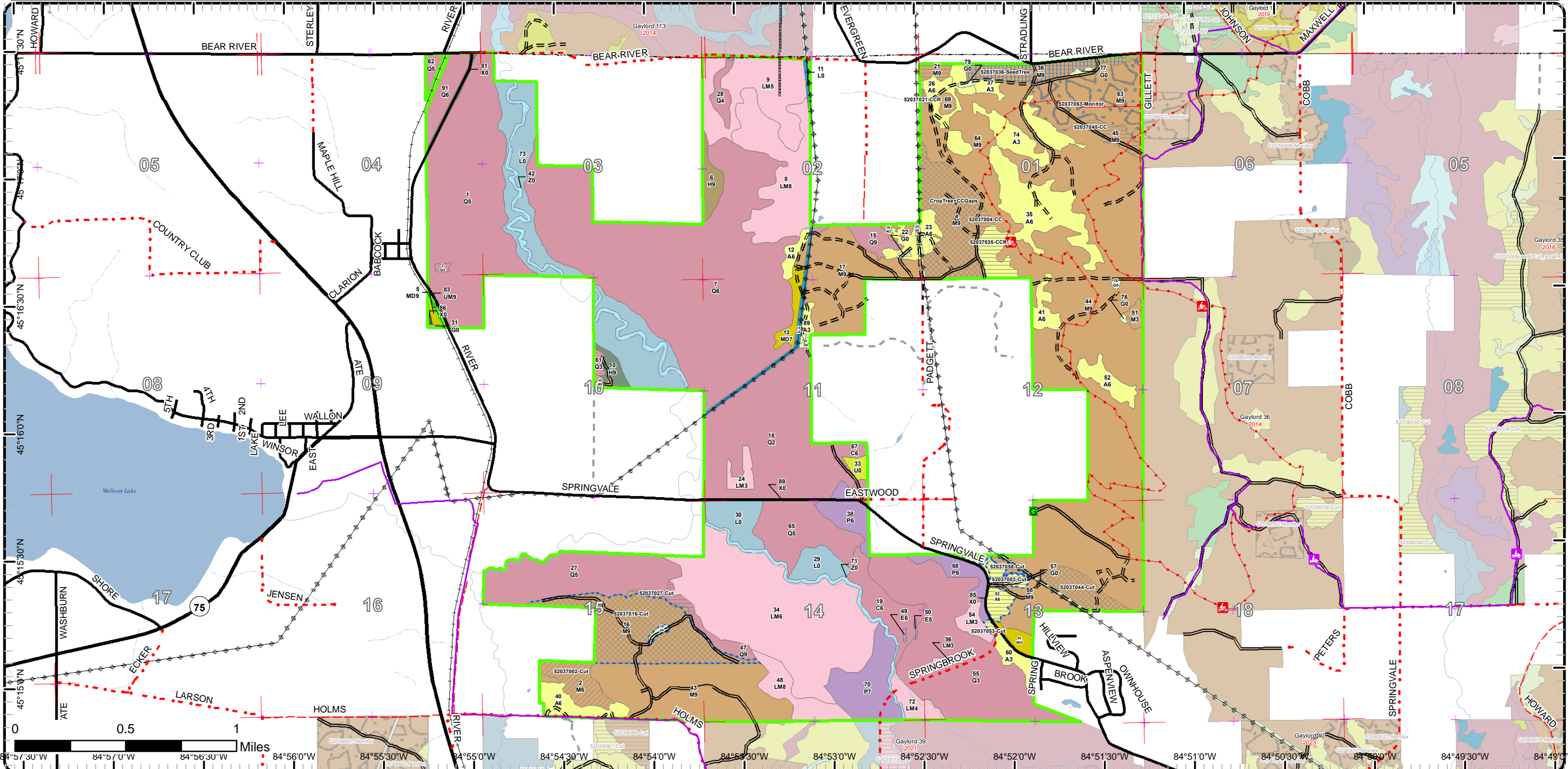
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 37
 T33N, R05W, Sec. 1-4, 9-15
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
 Acres: 3,646 GIS Calculated
 Examiner: Trevor Kubitskey & John St. Pierre
 Map Revised: 11/20/2020
 Map Phase: Post-Review

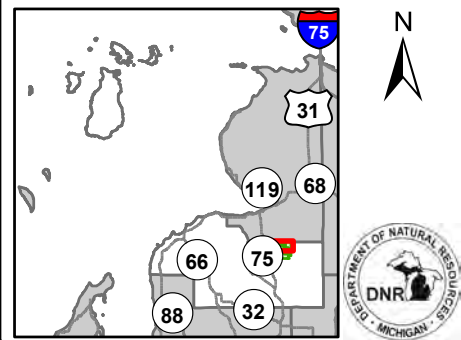


- | | | | |
|---|---|--|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners --- Counties == DNR - Secondary Forest Road == DNR - Forest Access Route — Federal / State Highway — Federal / State / County - Paved Road - - Federal / State - Dirt / Gravel Road - . - County - Gravel Road - - - County - Dirt Road (Seasonal) - - - Private - Dirt / Gravel Road — Active Railroads Motorcycle Trails (DNR License) ORV License & Trail Permit | <ul style="list-style-type: none"> Designated Snowmobile Trails Berms Gate Culvert Intermittent Stream Lake/Pond Perennial River Lakes and Rivers Pipeline Powerline Compartment Boundary Treatments with Site Conditions Selection (Group, Single Tree) Clearcut (w/Reserves) Seed Tree (w/Reserves) | <ul style="list-style-type: none"> Thinning (Crown, Low, Systematic) Regeneration Survey 411 - Northern Hardwood 413 - Aspen 419 - Mixed Upland Deciduous 423 - Other Upland Conifers 430 - Upland Mixed Forest 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest 122 - Roads/Parking Lot 123 - Other High Intensity Urban 310 - Herbaceous Openland 330 - Low Density Trees 500 - Water | <ul style="list-style-type: none"> 622 - Lowland Shrub 629 - Mixed Non-forested Wetland |
|---|---|--|---|

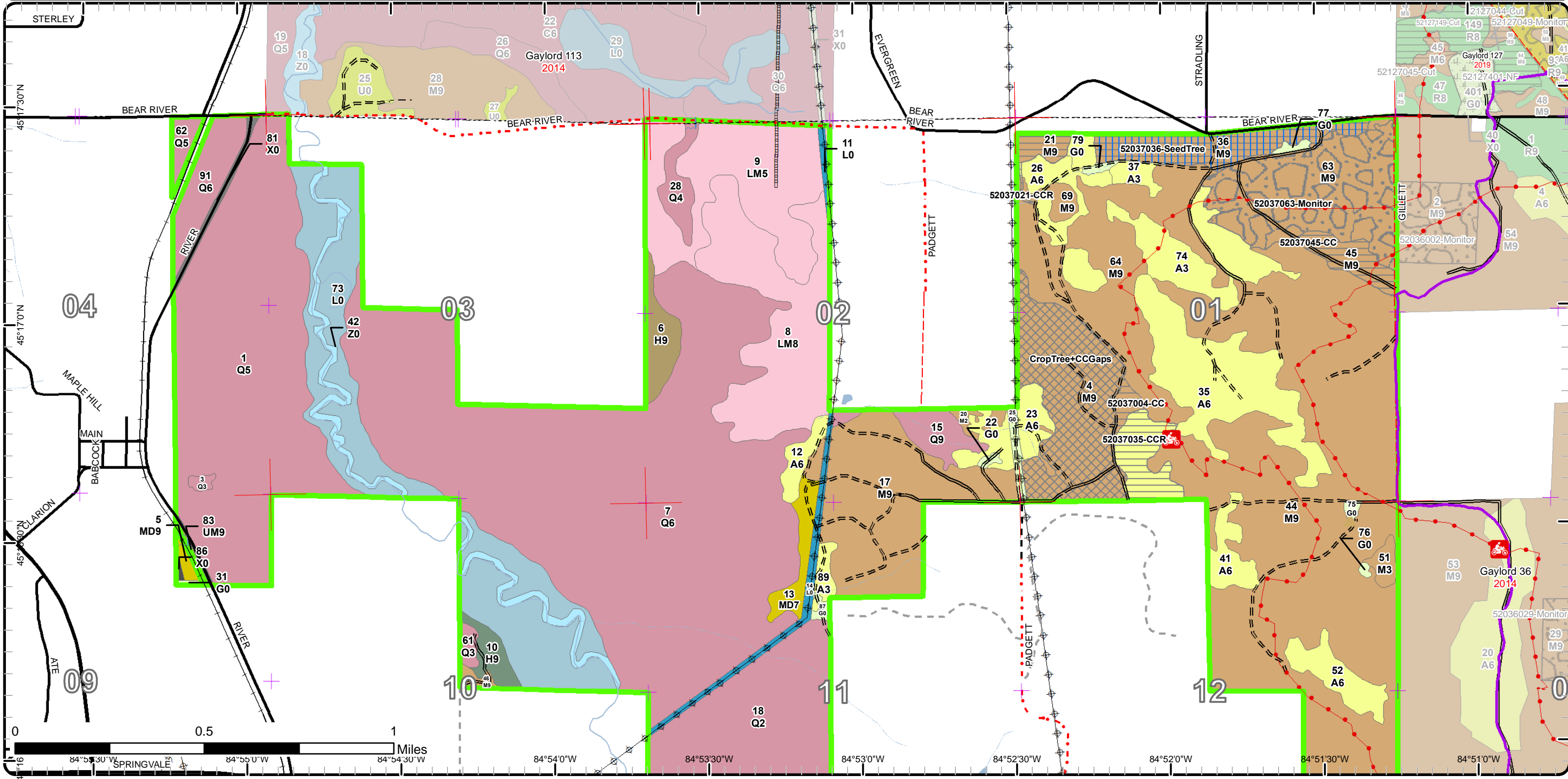


Cover Type & Treatments Map

Compartment: 37
 T33N, R05W, Sec. 1-4, 9-15
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
 Acres: 3,646 GIS Calculated
 Examiner: Trevor Kubitskey & John St. Pierre
 Map Revised: 11/20/2020
 Map Phase: Post-Review

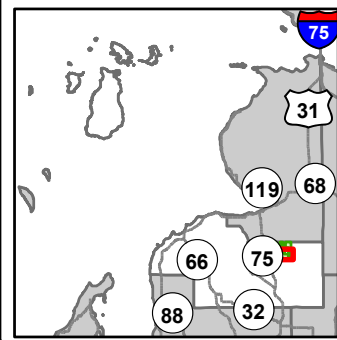


- Miris Corners
- + Remonumented Section Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- == Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Active Railroads
- 🏍️ Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Designated Snowmobile Trails
- ▲ Berms
- ⌋ Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- ⚡ Powerline
- ▭ Compartment Boundary
- ▭ Selection (Group, Single Tree)
- ▭ Clearcut (w/Reserves)
- ▭ Seed Tree (w/Reserves)
- ▭ Regeneration Survey
- ▭ 411 - Northern Hardwood
- ▭ 413 - Aspen
- ▭ 419 - Mixed Upland Deciduous
- ▭ 423 - Other Upland Conifers
- ▭ 430 - Upland Mixed Forest
- ▭ 612 - Lowland Coniferous Forest
- ▭ 613 - Lowland Mixed Forest
- ▭ 122 - Roads/Parking Lot
- ▭ 123 - Other High Intensity Urban
- ▭ 310 - Herbaceous Openland
- ▭ 500 - Water
- ▭ 622 - Lowland Shrub
- ▭ 629 - Mixed Non-forested Wetland

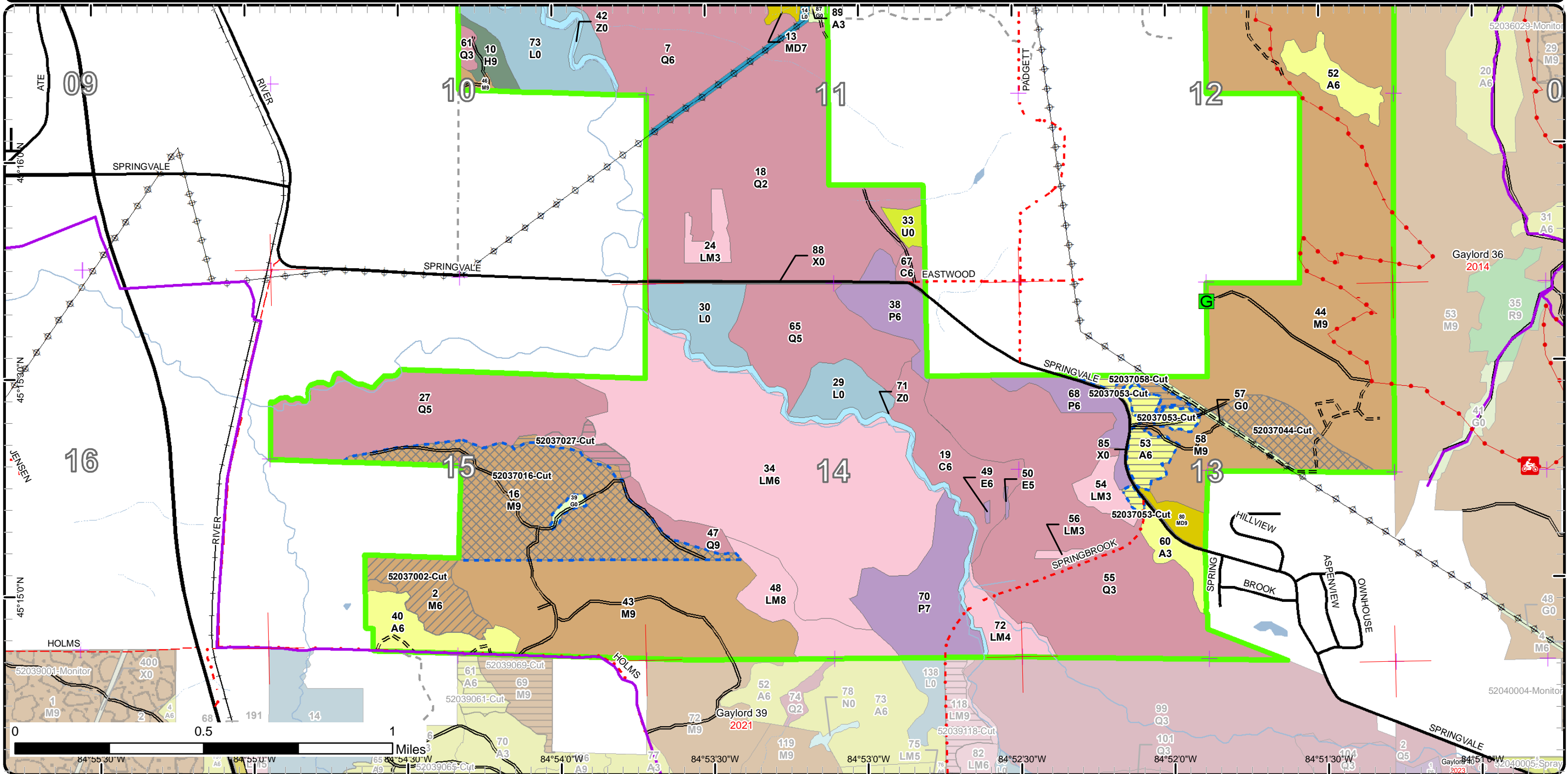


Cover Type & Treatments Map

Compartment: 37
 T33N, R05W, Sec. 1-4, 9-15
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
 Acres: 3,646 GIS Calculated
 Examiner: Trevor Kubitskey & John St. Pierre
 Map Revised: 11/20/2020
 Map Phase: Post-Review

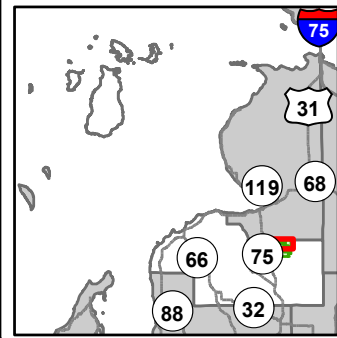


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

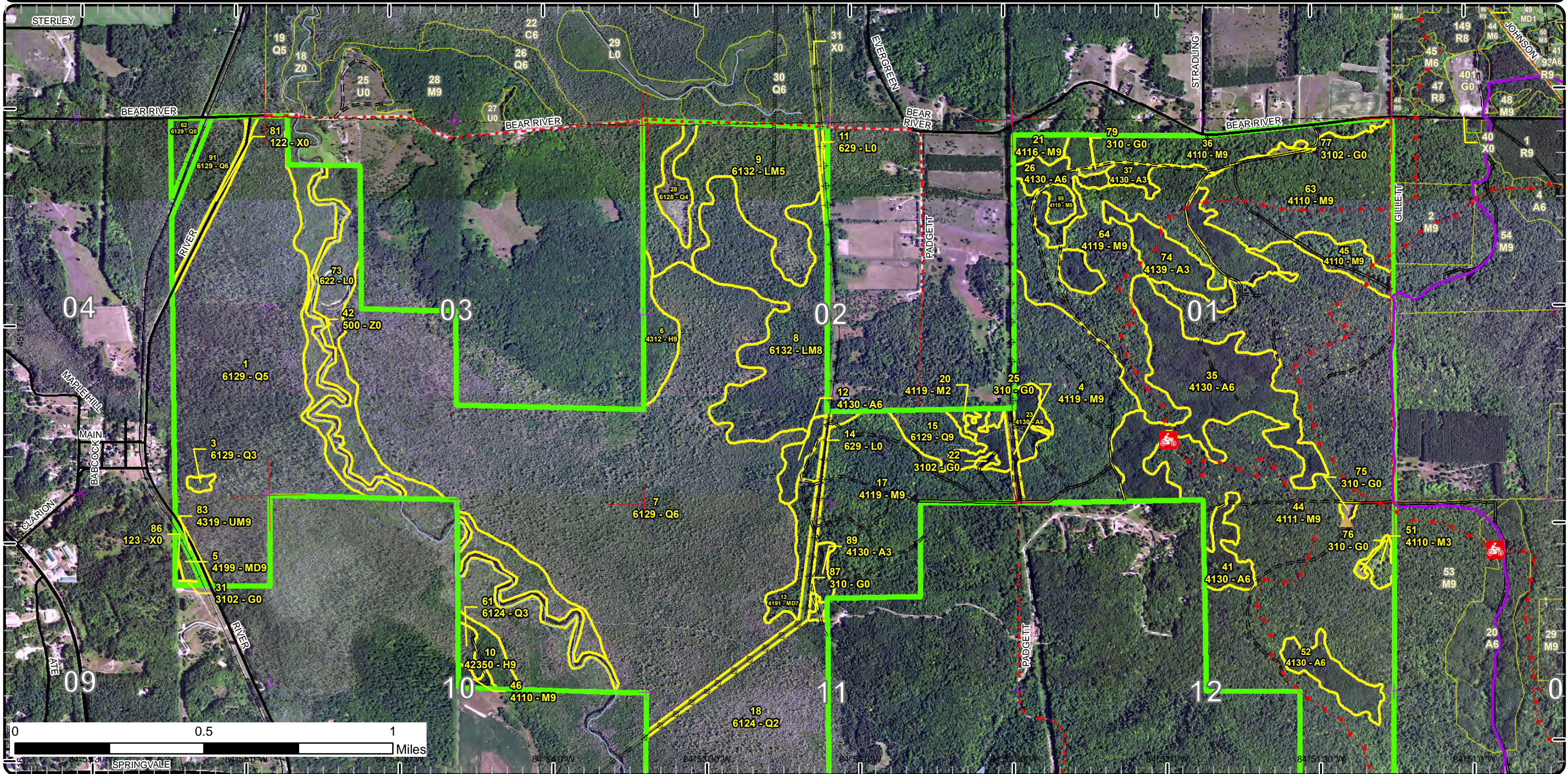


Stand Boundary Map

Compartment: 37
 T33N, R05W, Sec. 1-4, 9-15
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
 Acres: 3,646 GIS Calculated
 Examiner: Trevor Kubitskey & John St. Pierre
 Map Revised: 11/20/2020
 Map Phase: Post-Review

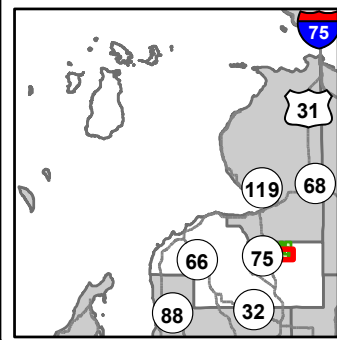


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- 🏍️ Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Designated Snowmobile Trails
- ▲ Berms
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Stand Boundaries
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers

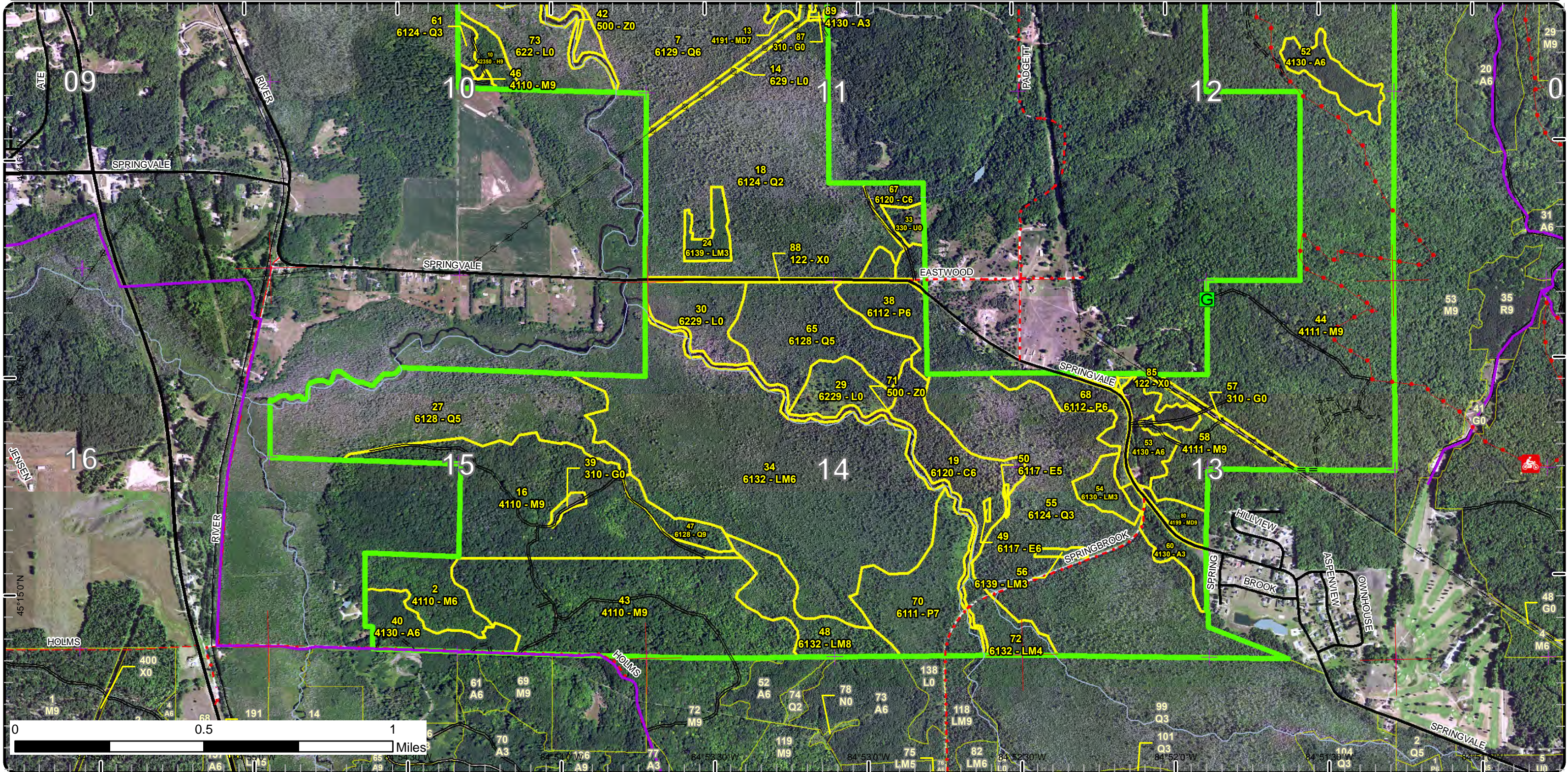


Stand Boundary Map

Compartment: 37
 T33N, R05W, Sec. 1-4, 9-15
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
 Acres: 3,646 GIS Calculated
 Examiner: Trevor Kubitskey & John St. Pierre
 Map Revised: 11/20/2020
 Map Phase: Post-Review

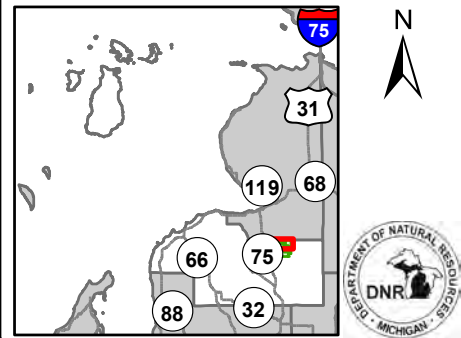


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- 🏍️ Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Stand Boundaries
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

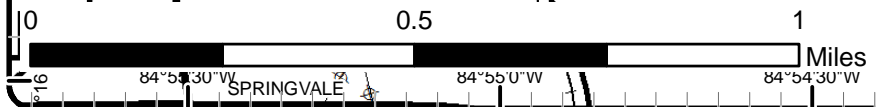
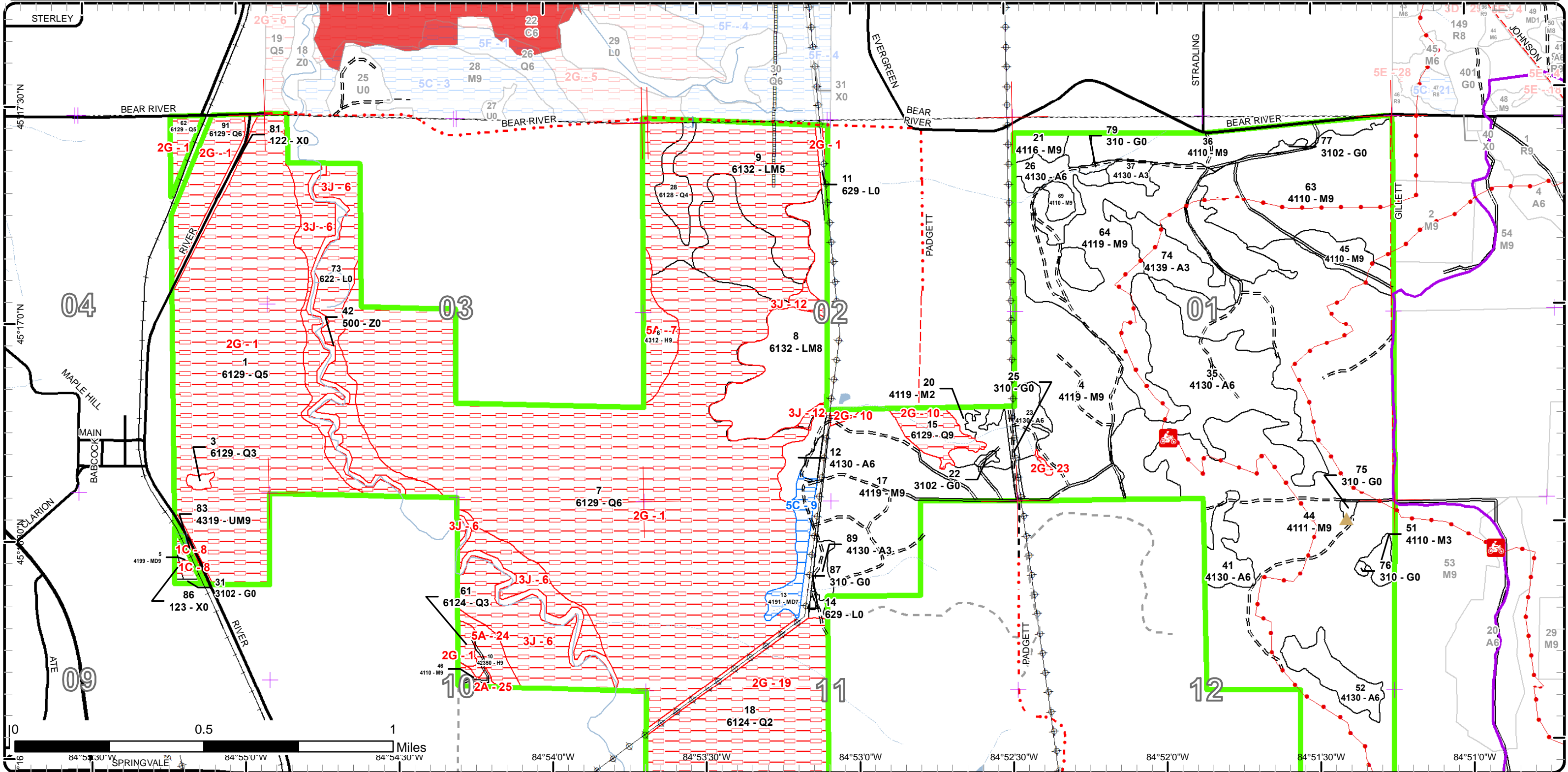


Special Conservation Areas

Compartment: 37
 T33N, R05W, Sec. 1-4, 9-15
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
 Acres: 3,646 GIS Calculated
 Examiner: Trevor Kubitskey & John St. Pierre
 Map Revised: 11/20/2020
 Map Phase: Post-Review

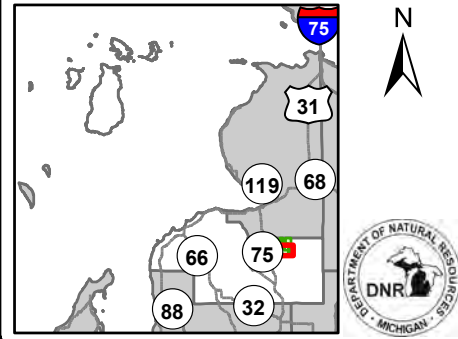


- Miris Corners
- ⊕ Remonumented Section Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Active Railroads
- 🏍️ Motorcycle Trails (DNR License)
- 🚙 ORV License & Trail Permit
- Designated Snowmobile Trails
- ▲ Berms
- ⌒ Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- ⚡ Powerline
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 🔴 Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 🟩 Stand Boundaries
- 🔴 Ecological Reference Areas
- Cold Water Streams

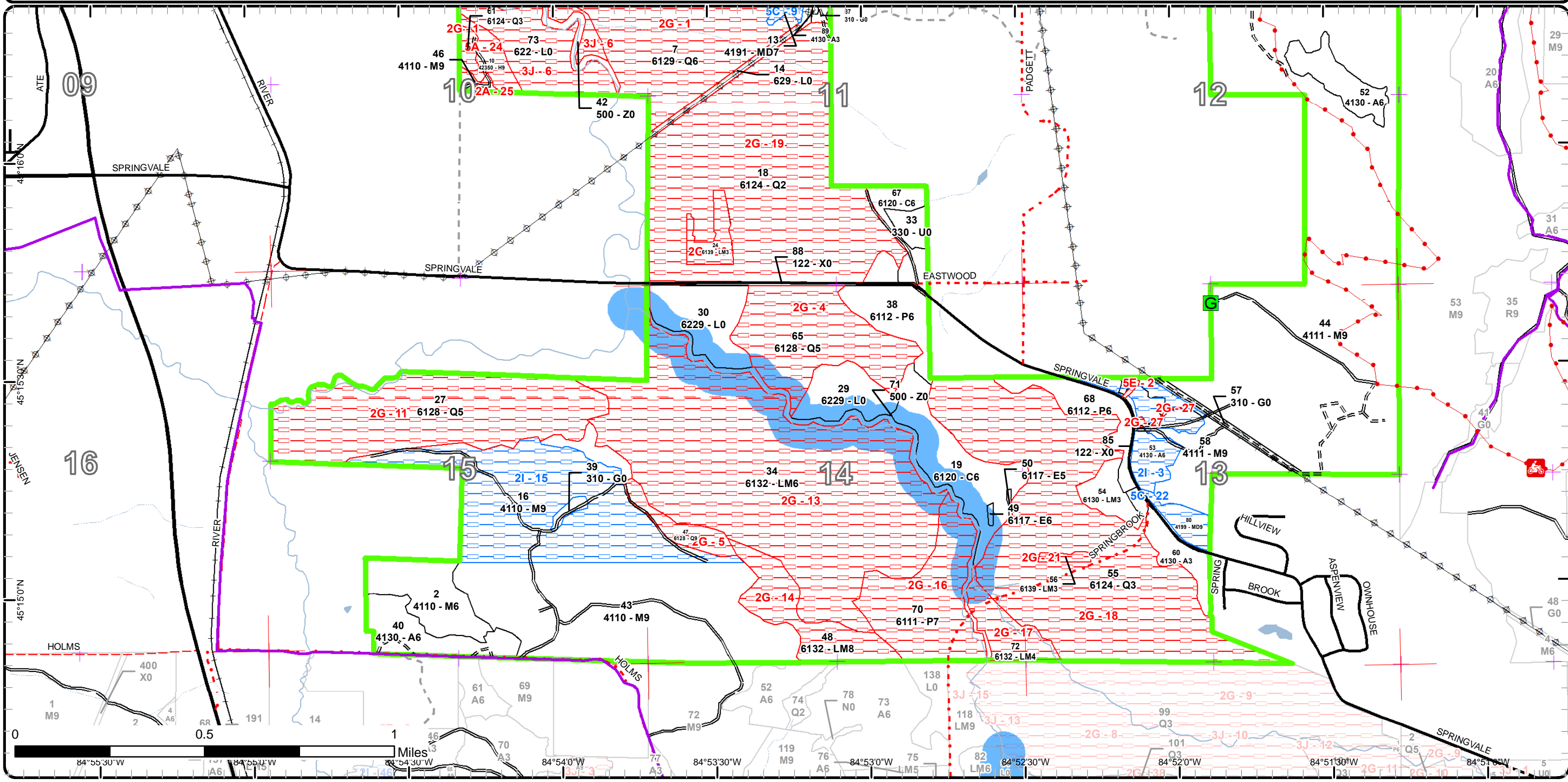


Special Conservation Areas

Compartment: 37
 T33N, R05W, Sec. 1-4, 9-15
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
 Acres: 3,646 GIS Calculated
 Examiner: Trevor Kubitskey & John St. Pierre
 Map Revised: 11/20/2020
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Designated Snowmobile Trails
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access



Report 1 – Total Acres by Cover Type and Age Class

Gaylord Mgt. Unit

Compartment 37

Year of Entry 2022

Trevor Kubitskey : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	5	91	117	28	0	0	0	0	0	0	0	0	0	0	0	11	252
Cedar	0	0	0	0	0	0	0	0	0	36	12	0	0	0	0	0	0	0	48
Hemlock	0	0	0	0	0	0	0	0	0	8	14	0	0	0	0	0	0	0	22
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	50	89
Lowland Conifers	0	0	0	3	108	181	0	0	0	461	86	231	0	14	0	0	0	187	1270
Lowland Deciduous	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lowland Mixed Forest	0	0	0	0	243	10	0	0	0	29	95	0	0	0	0	0	0	88	465
Lowland Shrub	181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	13	7	0	0	0	0	0	0	0	20
Northern Hardwood	0	0	0	3	4	0	0	0	31	1178	3	0	0	0	0	0	0	0	1218
Upland Mixed Forest	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Total	258	0	5	97	473	258	0	0	32	1725	217	231	0	14	0	0	0	336	3643



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 37

Total Compartment Acres: 3,646

Commercial Harvest - 202
 Harvests with Site Condition - 123
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	38	0	0	0	0	0	0	0	0	38
Lowland Conifers	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	27	198	0	30	0	25	0	0	0	279
Total	73	198	0	30	0	25	0	0	0	325

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	325	0	0	0	0	0	79	0	0	404
Next Step	0	0	12	0	0	12	338	0	0	362
Total	325	0	12	0	0	12	417	0	0	767



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Approved Treatments:

2	52037002-Cut	24.9	4110 - Sugar Maple Association	Poletimber Well	85	111-140	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Even-Aged	No
<p><u>Prescription</u> Thin stand down to an average 80 BA targeting basswood clumps, infected beech, and poorer quality sugar maple. Try to avoid marking better quality small log/large pole SM. Steeper hills in areas so mark appropriately. East boundary is approximate and should be ran to accommodate equipment to turn around if necessary.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixture of desirable northern hardwood species not dominated by beech and/or ironwood that meet minimum stocking requirements.</p> <p><u>Other Comment:</u> May need to mark out skid trail to get to northern most portion of stand. If hauling during the winter, use snowmobile trail protection specs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
4	52037004-CC	3.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	82	111-140	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut. Prep w/Stand 35's CCR.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Steep/somewhat operationally difficult within this small area. Loosely use the Forest Rd as the west boundary. Expand/contract red line based upon topography, stem quality and give equipment room to work/turn at top/bottom of slopes. Use slope protection specs - It's ok if retention carry's over from Stand 35 into this stand - Leave oak, yellow birch, cherry and conifer - Include drumming log spec <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Medium or better stocking mix of aspen, basswood, and sugar/red maple. Expect a strong response from ironwood and beech.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
16	52037016-Cut	99.3	4110 - Sugar Maple Association	Sawtimber Well	83	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Two-Aged	No
<p><u>Prescription</u> Thin stand down to an average 80 BA targeting basswood clumps, infected beech, and poorer quality sugar maple. Try to avoid marking better quality small log/large pole SM where possible. Avoid marking under represented species (i.e. Yellow Birch, Elm, Red Oak, Hemlock, B.Fir and/or Cedar). Establish regeneration gaps of at least 100' x 100' at a rate of 2 per 5 acres.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderately to fully stocked stand of desirable northern hardwood species that meets stocking requirements. This does not include beech and/or ironwood.</p> <p><u>Other Comment:</u> Avoid/Protect any seeps or wet spots throughout stand. Some hills are present in the SW corner so mark appropriately. May want surveyor to establish working corner before the Q-Type near pvt. Snowmobile protection specs must be put into place if used for haul route in winter.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21 52037021-CCR	6.6	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	85	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - No formal retention needed. Small acreage/maximize regen. - Old fence line, newer Tposts and wooden lathes along west PVT line. Tposts/lathes appear to be 'true'. - There's no established access into the stand. Rx layer depicts the best skid trail option I was able to find. Include this access while running red line. - Leave any conifer and yellow birch (if present) - Include drumming log spec <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Low, medium or high stocking mixture of aspen, sugar/red maple and basswood. Expect aspen to expand and a strong response from ironwood and beech.</p> <p><u>Other Comment:</u> Portions of the Forest Rd and surrounding vegetated areas were wet, had standing water and soft soils during '20 inventory.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
27 52037027-Cut	8.5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	32	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Final Harvest 2" DBH and up. Do Not Cut White Pine or Cedar over 10". No Retention due to small acreage. Boundary is approximate and will be better determined during set up. Utilize tops, small pulp to help with operability around soft spots. Incorporate the edge of stand 16 within red line to grab more merchantable timber and to try to expand some aspen onto an upland area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of a mix of lowland species such as birch, balsam poplar, balsam fir, red maple, quaking aspen, cedar or black spruce that meet minimum stocking requirements.</p> <p><u>Other Comment:</u> Mortality is present in overmature aspen.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
35 52037035-CCR	17.7	4130 - Aspen	Poletimber Well	37	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Reten. Prep w/Stand 4's CC.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Somewhat steep/operationally difficult along east boundary. Expand/contract red line, as needed, to give equipment room to work/turn at the top of slopes. Use slope protection specs. - Run line up to but not across the MCCCT trail on east boundary. Protect trail in specs. - Consider visual aesthetics near PVT when establishing retention - Leave oak, yellow birch, cherry and conifer - Include drumming log spec <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Low, medium or high stocking of aspen with components of northern hardwood species and red oak.</p> <p><u>Other Comment:</u> - Additional survey corners likely present along south line of treatment. - Access is easiest from south, off Padgett Rd. Access from north is washed out in areas.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36 52037036-SeedTree	29.5	4110 - Sugar Maple Association	Sawtimber Well	83	51-80	Harvest	Seed Tree with Retention	4116 - Mixed N. Hardwood - Aspen	Two-Aged	No
<p><u>Prescription</u> Seed Tree w/Reten. Residual avg. is flexible, aim for ~10-15BA.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Consider visual along PVT during prep/retention creation. A seasonal drainage flows south onto State from a pond located on PVT (see comp map). Portions may need to be excluded/placed into reten. Capture desirable regen and/or some higher quality stems within some retention. - Leave a scattered seed source of desirable species. Wind firm individuals are present and/or leave in clumps. Residual BA can vary/doesn't have to be consistent throughout. - Mark to leave some larger beech & aspen to become future snags - Do not cut incidental species, including but not limited to: y.birch, cherry, conifer, etc. <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Medium or better stocking mixture of sugar maple, basswood, aspen, red maple and black cherry. Expect a strong response from ironwood, beech and mullein.</p> <p><u>Other</u> - Use drum log and slope protection specs (some steeper slopes in west).</p> <p><u>Comment:</u></p> <ul style="list-style-type: none"> - Use spec 2.2.10 (or similar spec), "No chipping tops and limbs". To blockade some regen from browse. - Additional survey corners likely present on north boundary. Trespass possible too (small scrap pile, satellite dish). <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
44 52037044-Cut	24.7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	84	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Thin stand to an average of 80 sq ft. Create regeneration gaps at least 100 ft x 100 ft in size at a rate of 2 per 5 acres. Where possible, try to target basswood, aspen and/or red maple within these gaps. Avoid marking any underrepresented species such as birch, red oak, hemlock. Add soil protection specs into sale.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of desirable norther hardwood species such as sugar maple, red maple, basswood or cherry that isn't dominated by beech and/or ironwood that meet minimum stocking requirements.</p> <p><u>Other</u> Some seeps are found near the NW edge of the treatment so use red line to avoid any soft/wet spots. Hills are present so mark appropriately.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
45 52037045-CC	12.3	4110 - Sugar Maple Association	Sawtimber Well	84	51-80	Harvest	Clearcut	4110 - Sugar Maple Association	Even-Aged	No
<p><u>Prescription</u> Clearcut.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - No formal retention needed. Small harvest area/maximize regeneration. - Leave y.birch and conifer (saw one red pine) - Use drumming log spec - Sign/protect the MCCCT and Snowmobile trails. <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Pesticide, Skidder - Site Prep; Planting, Interplant; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Medium of better stocking mix of sugar maple, basswood and aspen. Expect a strong response from ironwood, beech and mullein. If regen fails, interplant white pine and oak. See next step treatments.</p> <p><u>Other</u> Management intent is to restart this variably stocked/lower quality northern hardwood stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

53	52037053-Cut	20.0	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	--------------	-----------------	----	--------	---------	-------------------------	-------------	-----------	----

Prescription Final Harvest with 3-5% retention. Retention has been identified but boundaries are approximate. Use red line to avoid any additional soft/wet spots during sale prep. Do not cut any Oak over 12" DBH and any hemlock or cedar. Mark to leave 2-4 bumper trees around any leave oaks to prevent damage during harvest.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Majority aspen with a minor component of other mixed deciduous. Such as oak, sugar maple, red maple, birch, basswood, cherry.

Other Comment: Signage, as well as utility/road R.O.W specs must be put into sale specifications. May need survey done to establish property corner to the east. Incorporate small portion of stand 58 into treatment along two-track to create landing and truck turn around. Culvert and fill will be needed if this spot is used for landing.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2021

58	52037058-Cut	4.0	4111 - S.Maple, Hard Mast Association	Sawtimber Well	75	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
-----------	---------------------	-----	---------------------------------------	----------------	----	-------	---------	----------	-------------------------------	-----------	----

Prescription Final harvest 2" DBH and up. No retention due to small sale size. Add proper protection specs for wet areas and/or seeps.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Any mixture of aspen, red/sugar maple, basswood, cherry, oak, birch or mixed conifers that meet minimum stocking requirements.

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2021

63	52037063-Monitor	79.1	4110 - Sugar Maple Association	Sawtimber Well	85	81-110	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Even-Aged	No
-----------	-------------------------	------	--------------------------------	----------------	----	--------	------------	------------------------------	--------------------------------	-----------	----

Prescription Sale area for 'Close Shave Mix', 520211201. Sale closed Aug '19. Initial regen assessment conducted Dec '19 (see stand comments). Needs more time, conduct definitive assessment next inventory cycle (F.Y. '30).

Specs:

Next Step

Treatments:

Acceptable Regen: A mix of desirable northern hardwood species that meets minimum stocking standards. Small patches dominated by aspen where small clear cuts were implemented.

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2029



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
4 CropTree+CC Gaps	74.1	4119 - Mixed Northern Hardwoods	Sawtimber Well	82	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Even-Aged	No
<p><u>Prescription</u> Crop Tree Release w/Clearcut Gaps. Target 80BA.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Steep along the north/northeast boundary, interior areas too. Run red line to the bottom of slopes along the N/NE boundary, giving equipment room to work/turn. - On steep slopes that equipment is unlikely to reach the top of, only mark 1/3 to 1/2 way Up the slope. On accessible ridge tops, only mark 10-15ft into downward facing slopes. When slopes appear completely operable, go ahead and mark. Expect some 'zero' plots during cruise. - Create clearcut gaps (100ft minimum) around some of the few aspen clones and in areas of poorer quality stems. Establish 1-gap every 10-15 acres (~7 total). Do not cut oak, yellow birch, conifer within patches. - AVOID marking pole/sap sugar maple stems of better form/quality - Retain underrepresented species (birch, elm, hemlock, cherry, xlog beech, large wolfy/den trees, etc.) <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Medium or better stocking of aspen, basswood, and sugar/red maple within clearcut patches. Release of canopy crop trees & pole/sap stems in remainder of Rx. Expect a strong response from ironwood, beech and mullein.</p> <p><u>Other Comment:</u></p> <ul style="list-style-type: none"> - USE Shortwood, Bark Slip and Slope Protection Specs - Protect/exclude sensitive features (SEEP in SW, any stick nests, etc.) - Access is easiest from south, off Padgett Rd. Access from north is washed out in areas. <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 404.4
Acres Proposed:

Report 4 – Site Conditions

Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 37

Year of Entry: 2022



Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	<i>With Condition</i>	Not Available

Dominant Site Conditions

	Total Acres	Acres Available	Acres <i>With Condition</i>	Acres Not Available	Dominant Site Conditions							
					2I	5C	1C	2A	2G	3J	5A	5E
252	233	18	1	Aspen	18				0	0		0
47	47	0	0	Cedar								
22	0	0	22	Hemlock							22	
18	17	0	1	Herbaceous Openland			1					
5	5	0	0	Low-Density Trees								
89	39	0	50	Lowland Aspen/Balsam Poplar					50			
1271	8	0	1263	Lowland Conifers					1,263	0		
1	1	0	0	Lowland Deciduous								
466	63	0	402	Lowland Mixed Forest					398	4		
181	59	0	123	Lowland Shrub						123		
21	0	19	2	Mixed Upland Deciduous		19	2					
1219	1110	106	3	Northern Hardwood	106			3	1			0
1	0	0	1	Upland Mixed Forest			1					
15	15	0	1	Urban	0		1					
38	38	0	0	Water								
3,646	1,635	143	1,869	Total Forested Acres	124	19	5	3	1,712	127	22	0
	45%	4%	51%	Relative Percent								

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	825	Unspecified	Unspecified	Unspecified	Unspecified
Comments: One dominant site condition (Too wet) encompassing multiple stands. Other secondary factors present and dependent upon stand location (2B, 2E, 3J, 5A, etc).							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 37

Year of Entry: 2022

3	Available	2I: Survey needed	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Corner to east would need to be established.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Standing water in January.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Wet from seeps. Contains mostly hard to regenerate species such as hemlock and cedar.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	123	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Very wet, largely non-forested lowland shrub/scattered tree corridor on either side of the Bear River.							
7	Unavailable	5A: Not able to obtain desirable regeneration	14	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: Primarily a hemlock dominated stand in an isolated area (PVT on west, large State owned lowland everywhere else). A good candidate to be 'left as is'.							
8	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The area encompassed by this site condition is currently being proposed for disposal. Chose this site condition as a 'best option' for this ongoing situation.							

Report 4 – Site Conditions



Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 37

Year of Entry: 2022

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Removal harvest in '04. Age of the lower stocked canopy species is tripping the 'meets criteria' function. See stand comments for additional information.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Very wet stand dominated by a mix of species, primarily cedar and hemlock. Stream flowing west through the larger east polygon of this stand.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	100	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	2D: Portable Bridge Needed (Dept. bridge will be adequate)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2B: Unknown if access through adjacent landowner(s) is possible
Comments: A two polygon site condition. Flowing streams present in both areas during inventory in Dec '20. The streams segregate the likely operable portions of Stand 8. Would be operationally prudent to wait until Stand 12 is more merchantable, then treat this stand and stand 12 together (perhaps '32 YOE cycle). Bridges and mats likely needed over streams and in various areas of Stand 8.							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	233	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 37

Year of Entry: 2022

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	2I: Survey needed	102	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Far west corner could not be located. Would require working corner along line.							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	187	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	181	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 37

Year of Entry: 2022

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold stand to see any improvement in pole size sm as well as pole red oak. Current stand composition (limited aspen and red maple) and understory would most likely yield undesirable regen if final harvested.							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Seep complex with a seasonally saturated flowing water course. Flows north/northwest into Stand 23.							
24	Unavailable	5A: Not able to obtain desirable regeneration	8	2A: Adjacent landowner denied access	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified
Comments: High quality and healthy hemlock stand. Fair regen within stand, but patchy. Would be difficult to try to get regeneration with high deer traffic in the area.							

Report 4 – Site Conditions



Gaylord Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 37

Year of Entry: 2022

25	Unavailable	2A: Adjacent landowner denied access	3	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Identified areas that will be too wet (flowing water, cattails, etc) and exclude these from treatment.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																								
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	221.2	105	51-80	N/A	Saw northern, then southern locations, didn't see much of the center. North was quite dense (did some crawling), mix of Q5/6 over Q2/3. Some log sizes, mainly WP. Sap layer a broad mix, mainly BF but NWC common with spruce/larch. Wet, standing water, clump/single tree blowdown common but didn't see anything larger than 0.2-0.3ac. Calling poles most common (variable can-closure/density), could call areas in north sap dominant. Southern area much easier to walk (less crawling). More consistent pole canopy, sub-can not as dense. Blk spruce most common w/consistent larch. Most NWC was dead or about to be where I traveled. Wet, similar clump/single tree blowdown frequency as north. Small upland inclusion in very south featuring BF, RM, some QA.																																																																																								
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>2</td><td>Pole/Sapling</td><td>6</td><td></td></tr> <tr><td>Black Spruce</td><td>35</td><td>Pole/Log</td><td>8</td><td>105</td></tr> <tr><td>Northern White Cedar</td><td>22</td><td>Pole/Sap/Log</td><td>7</td><td></td></tr> <tr><td>Tamarack</td><td>30</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>White Pine</td><td>7</td><td>Log/XLog</td><td>16</td><td></td></tr> <tr><td>Balsam Poplar</td><td>2</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Quaking Aspen</td><td>2</td><td>Log/Pole</td><td>12</td><td></td></tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	2	Pole/Sapling	6		Black Spruce	35	Pole/Log	8	105	Northern White Cedar	22	Pole/Sap/Log	7		Tamarack	30	Pole/Log	9		White Pine	7	Log/XLog	16		Balsam Poplar	2	Log/Pole	12		Quaking Aspen	2	Log/Pole	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>High</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Cattail spp.</td><td>Medium</td><td>Unspecified</td><td>Non-Wood</td></tr> <tr><td>Black Ash</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Trace</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>Northern White Cedar</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tamarack</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Osier Dogwood</td><td>Low</td><td>< 5 feet</td><td>Tall Shrub</td></tr> <tr><td>Labrador Tea</td><td>Medium</td><td>< 5 feet</td><td>Tall Shrub</td></tr> <tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Black Spruce</td><td>Low</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>Northern White Cedar</td><td>Low</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>Tamarack</td><td>Low</td><td>< 5 feet</td><td>Seeding</td></tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	Variable	Sapling	Cattail spp.	Medium	Unspecified	Non-Wood	Black Ash	Low	Variable	Sapling	White Pine	Trace	< 5 feet	Seeding	Northern White Cedar	Medium	Variable	Sapling	Tamarack	Low	Variable	Sapling	Red Osier Dogwood	Low	< 5 feet	Tall Shrub	Labrador Tea	Medium	< 5 feet	Tall Shrub	Tag Alder	Medium	5 - 10 feet	Tall Shrub	Black Spruce	Low	< 5 feet	Seeding	Northern White Cedar	Low	< 5 feet	Seeding	Tamarack	Low	< 5 feet	Seeding
Canopy Species	% Cover	Size Class	DBH	Age																																																																																											
Balsam Fir	2	Pole/Sapling	6																																																																																												
Black Spruce	35	Pole/Log	8	105																																																																																											
Northern White Cedar	22	Pole/Sap/Log	7																																																																																												
Tamarack	30	Pole/Log	9																																																																																												
White Pine	7	Log/XLog	16																																																																																												
Balsam Poplar	2	Log/Pole	12																																																																																												
Quaking Aspen	2	Log/Pole	12																																																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																																																												
Balsam Fir	High	Variable	Sapling																																																																																												
Cattail spp.	Medium	Unspecified	Non-Wood																																																																																												
Black Ash	Low	Variable	Sapling																																																																																												
White Pine	Trace	< 5 feet	Seeding																																																																																												
Northern White Cedar	Medium	Variable	Sapling																																																																																												
Tamarack	Low	Variable	Sapling																																																																																												
Red Osier Dogwood	Low	< 5 feet	Tall Shrub																																																																																												
Labrador Tea	Medium	< 5 feet	Tall Shrub																																																																																												
Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																																																												
Black Spruce	Low	< 5 feet	Seeding																																																																																												
Northern White Cedar	Low	< 5 feet	Seeding																																																																																												
Tamarack	Low	< 5 feet	Seeding																																																																																												
2	4110 - Sugar Maple Association	Poletimber Well	26.3	85	111-140	N/A	Pockets of quality logs, but overall large pole stand. Hilly stand, with steep slopes nearing property line. Best quality logs, and largest diameters are in north side of stand (hard to get to due to steep slope). Beech is declining within stand, but some are still healthy. Small lowland cedar/hemlock inclusion near SW corner of stand. SM 56, BW 40, AB 25, RM 5, BT 10. Overall ~136 sq ft. Barta in '10= Newly acquired parcel at northwest corner has been high-graded hard and someone left a travel trailer behind. North end of old state land was cut mid-90's (Lone Deer Log Sale); south end cut mid-2000's (Phoenix Hardwoods). Southwest is very hilly.																																																																																								
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>70</td><td>Log/Pole</td><td>10</td><td>85</td></tr> <tr><td>Yellow Birch</td><td>3</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Beech</td><td>5</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Hemlock</td><td>2</td><td>Log</td><td>16</td><td></td></tr> <tr><td>Basswood</td><td>10</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>5</td><td>Log/XLog</td><td>15</td><td></td></tr> <tr><td>Red Maple</td><td>5</td><td>Pole/Log</td><td>9</td><td></td></tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	70	Log/Pole	10	85	Yellow Birch	3	Log/Pole	10		Beech	5	Log/Pole	12		Hemlock	2	Log	16		Basswood	10	Log/Pole	11		Bigtooth Aspen	5	Log/XLog	15		Red Maple	5	Pole/Log	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>Medium</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>White Ash</td><td>Medium</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>Elderberry</td><td>Low</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Beech</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Ironwood</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	10 - 20 feet	Sapling	White Ash	Medium	< 5 feet	Seeding	Elderberry	Low	5 - 10 feet	Tall Shrub	Beech	Medium	5 - 10 feet	Sapling	Ironwood	Medium	5 - 10 feet	Sapling																												
Canopy Species	% Cover	Size Class	DBH	Age																																																																																											
Sugar Maple	70	Log/Pole	10	85																																																																																											
Yellow Birch	3	Log/Pole	10																																																																																												
Beech	5	Log/Pole	12																																																																																												
Hemlock	2	Log	16																																																																																												
Basswood	10	Log/Pole	11																																																																																												
Bigtooth Aspen	5	Log/XLog	15																																																																																												
Red Maple	5	Pole/Log	9																																																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																																																												
Sugar Maple	Medium	10 - 20 feet	Sapling																																																																																												
White Ash	Medium	< 5 feet	Seeding																																																																																												
Elderberry	Low	5 - 10 feet	Tall Shrub																																																																																												
Beech	Medium	5 - 10 feet	Sapling																																																																																												
Ironwood	Medium	5 - 10 feet	Sapling																																																																																												
3	6129 - Mixed Coniferous Lowland Forest	Sapling Well	1.5	37	Unspecified	N/A	Unsure the history of this stand, Barta based age on a cut record. '98's show the boundaries quite clearly. Probably a wildlife cut. Made it into the southern /central portion, fairly dense variety of conifer regen. A lot of blowdown and/or trees that were left on the ground (it's a tangle). Could see some NWC regen poking out of snow. Scattered/mainly dead cedar poles. Some large log/xlog WP here/there.																																																																																								
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>25</td><td>Sapling</td><td>3</td><td>37</td></tr> <tr><td>Black Spruce</td><td>20</td><td>Sapling</td><td>2</td><td></td></tr> <tr><td>Tamarack</td><td>25</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>White Pine</td><td>6</td><td>Sapling</td><td>2</td><td></td></tr> <tr><td>Northern White Cedar</td><td>15</td><td>Sapling/Pole</td><td>2</td><td></td></tr> <tr><td>Paper Birch</td><td>5</td><td>Sapling</td><td>3</td><td></td></tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	25	Sapling	3	37	Black Spruce	20	Sapling	2		Tamarack	25	Sapling/Pole	3		White Pine	6	Sapling	2		Northern White Cedar	15	Sapling/Pole	2		Paper Birch	5	Sapling	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																	
Canopy Species	% Cover	Size Class	DBH	Age																																																																																											
Balsam Fir	25	Sapling	3	37																																																																																											
Black Spruce	20	Sapling	2																																																																																												
Tamarack	25	Sapling/Pole	3																																																																																												
White Pine	6	Sapling	2																																																																																												
Northern White Cedar	15	Sapling/Pole	2																																																																																												
Paper Birch	5	Sapling	3																																																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																																																												
Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
4	4119 - Mixed Northern Hardwoods	Sawtimber Well	78.7	82	111-140	N/A	Likely harvested in the past, couldn't locate a cut record. Generally decent/good quality HM throughout (rest of species decent qual too). Pole timber (HM) common, areas heavier to M6, many are clean/decent form. Steeper sloped areas tend to hold the poorer quality/form stems (across all species) and had variable BA (usually lower BA). Hills/ridges/slopes (some likely in-op) common, the most prominent being in the NW and along the entire northern boundary of the stand. Trace YB (P/L), Hem (L), PB (L/P), BF (P) and RO (XL).		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	60	Log/Pole/XLog	11	82	Ironwood	Medium	Variable	Sapling
	Basswood	13	Log/Pole/XLog	14		Beech	Medium	Variable	Sapling
	Bigtooth Aspen	5	Log/Pole	15		Sugar Maple	Low	Variable	Sapling
	Ironwood	3	Pole/Log	9		Ironwood	Medium	< 5 feet	Seeding
	Beech	8	Log/Pole	13		Beech	Medium	< 5 feet	Seeding
	Red Maple	9	Log/Pole	12		Balsam Fir	Trace	Variable	Sapling
	Black Cherry	2	Log	11		Red Oak	Trace	>20 feet	Sapling
5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	2.4	83	111-140	N/A	Majority of stand is a mix of M9/6 with clonal BTA, a few xlog hemlock and some scattered PB. Broad mix of other species at lower densities too. A 'low/wet' valley in north (culvert moving water underneath railroad) featuring some NWC, QA, BF and ash saps. Conifer established along the railroad corridor.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	48	Log/Pole/XLog	11	83	Tamarack	Trace	>20 feet	Sapling
	Basswood	6	Log/Pole	11		Ironwood	High	5 - 10 feet	Sapling
	Paper Birch	6	Log/Pole	11		Beech	Low	5 - 10 feet	Sapling
	Bigtooth Aspen	20	Log/Pole	15		White Ash	High	5 - 10 feet	Sapling
	Hemlock	2	XLog	20		Ironwood	High	< 5 feet	Seeding
	Balsam Fir	4	Pole/Log	8		Beech	Low	< 5 feet	Seeding
	White Pine	2	Log/Pole	11		White Ash	Medium	< 5 feet	Seeding
	Ironwood	2	Pole/Sapling	6		Hemlock	Low	>20 feet	Sapling
	Black Cherry	4	Pole/Sapling	7		Balsam Fir	Low	Variable	Sapling
	Quaking Aspen	3	Log	11		Balsam Fir	Low	< 5 feet	Seeding
	Northern White Cedar	3	Pole/Log	8		Leatherwood	Low	< 5 feet	Tall Shrub
						Sugar Maple	Trace	< 5 feet	Seeding
						Sugar Maple	Trace	10 - 20 feet	Sapling
						Apple (spp.)	Trace	5 - 10 feet	Sapling
6	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	13.7	95	141-170	N/A	Glad I made it across the swamp to see this stand. Northern 2/3rds is hemlock dominant w/strong RM component. Some 20"+ hemlock stems. Some xlog/legacy BE/WP. Toggles to more deciduous (RM, a few giant aspen, HM mixing in) in southern 1/3rd. BF more prominent where some light is making its way to the ground. Sub-canopy devoid where hemlock is preventing sunlight from ground. Lowland conifer/decid/tag mixing in along interface with Stand 7.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	3	Pole/Log	9		Hemlock	Low	10 - 20 feet	Sapling
	Red Maple	28	Log/XLog	15		Balsam Fir	Medium	Variable	Sapling
	Yellow Birch	6	Log/Pole	12		Yellow Birch	Trace	Variable	Sapling
	Bigtooth Aspen	3	XLog	22		White Pine	Low	Variable	Sapling
	Quaking Aspen	3	Log	14					
	Hemlock	45	Log/XLog/Pole	13	95				
	White Pine	3	XLog/Log	22					
	Black Cherry	2	Log	15					
	Beech	2	XLog	22					
	Northern White Cedar	3	Log/Pole	10					
	Balsam Fir	2	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

7	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	451.2	84	81-110	N/A	Did not see all 450+ acres. Did see southern portions north of the powerline and north area south of Stand 8. Mainly pole/sap with scattered log sizes where I was. WP accounted for most logs, some spruce/cedar too. A lot of sap size cedar, most 20ft or greater, spruce saps too. WET, blowdown. Quite certain composition and size classes vary outside of areas I traveled. Likely more deciduous and other conifer types in areas. Noticeable amount of stumps (in southern area). Unsure if natural or the result of a past harvest?
----------	--	-----------------	-------	----	--------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Pole/Sapling	7	
Balsam Fir	12	Pole/Sapling	6	
Black Spruce	30	Pole/Sap/Log	7	
Northern White Cedar	40	Pole/Sap/Log	7	84
White Pine	14	Log/Pole	12	
Tamarack	1	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Labrador Tea	Low	< 5 feet	Tall Shrub
Northern White Cedar	Medium	>20 feet	Sapling
Black Spruce	Medium	Variable	Sapling
Paper Birch	Low	>20 feet	Sapling
Black Spruce	Low	< 5 feet	Seeding
Northern White Cedar	Low	< 5 feet	Seeding

8	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	88.2	88	111-140	N/A	Variable LM stand, could be split numerous ways. Common theme is supercan QA (some RM/BAM) overtop areas of C5/6 and Fir3/5/6. Lesser stocked areas of tip-ups/blowdown, some sub-acre others an acre or more. Three to four higher stocked areas of RM w/aspen, some RM large log/xlog within, these areas felt upland. Calling log sizes most prevalent yet only occupying 50-75 of canopy as a whole given the 'togglng' of species, DBH's, and blowdowns. Quite a few aspen have/will soon senesce. Legacy WP present. Ground wet (recent rain+snow) but didn't get 'mucky' until I reached areas within the NW 'blob'. West flowing stream in south along interface w/Stand 12 and in north (see 3J-12).
----------	--	------------------	------	----	---------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	9	Log/XLog	16	
Black Spruce	2	Pole/Log	9	
Northern White Cedar	20	Pole/Log	8	113
Quaking Aspen	20	Log/Pole/XLog	16	88
Red Maple	16	Log/Pole/XLog	12	
Balsam Fir	20	Pole/Sap/Log	7	
White Pine	4	Log/XLog/Pole	17	
Hemlock	3	Log/Pole	15	
Yellow Birch	3	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Medium	5 - 10 feet	Sapling
Balsam Fir	High	Variable	Sapling
Red Maple	Low	Variable	Sapling
White Pine	Trace	Variable	Sapling
Black Spruce	Low	Variable	Sapling
Black Ash	Medium	< 5 feet	Seeding
Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	< 5 feet	Seeding

9	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	80.1	95	51-80	N/A	Walked east/west edge, briefly saw interior of southern/northern areas. Composition is broadly similar to Stand 8 but much more blowdown, tip-ups, and some mortality because of high water table. Appears the ground stays much more saturated leading to the lower stocked/blowdown condition it's in. Still has/saw dense areas of C6 in the west. QA and BAM are tired some standing dead (or now a tip-up), some crown dieback in conifer. Two-aged structure as saps fill blowdown/tip-up gaps.
----------	--	-------------------	------	----	-------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	12	Log/Pole	11	
Paper Birch	5	Pole/Log	9	
Balsam Poplar	6	Log/XLog	17	
Balsam Fir	14	Pole/Sapling	6	
Northern White Cedar	30	Pole/Log/Sap	8	95
Hemlock	3	Log/Pole	11	
Black Spruce	5	Pole	8	
Quaking Aspen	15	Log/XLog	16	
White Pine	5	Log/XLog/Pole	14	
Yellow Birch	3	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Black Ash	Medium	Variable	Sapling
Balsam Fir	High	< 5 feet	Seeding
Black Ash	High	< 5 feet	Seeding
Tag Alder	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																														
10	42350 - Upland Hemlock	Sawtimber Well	8.4	83	141-170	N/A	Unique Hemlock ridge. All Hemlock appear healthy, with most seeming to have established on old stumps and mounds. Hemlock's producing large amount of seed. Areas of lower canopy cover are filling in with birch and red maple poles. Patches contain successful hemlock regen into lower canopy level (mostly 10-20 ft but some 20+). Some wetter holes throughout but overall dry. 161 sq ft. Age is rough for hemlock; most cores were very soft in the center. Red maple cores were varying from 58-65.																																																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Hemlock</td> <td>65</td> <td>Log</td> <td>14</td> <td>83</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>XLog</td> <td>22</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>3</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>3</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Log/Pole</td> <td>14</td> <td>60</td> </tr> <tr> <td>Northern White Cedar</td> <td>4</td> <td>Log</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Hemlock	65	Log	14	83	White Pine	5	XLog	22		Paper Birch	3	Log/Pole	10		Yellow Birch	3	Log/Pole	10		Red Maple	20	Log/Pole	14	60	Northern White Cedar	4	Log	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Hemlock</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Yellow Birch</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hemlock	Medium	10 - 20 feet	Sapling	Yellow Birch	Low	10 - 20 feet	Sapling	Balsam Fir	Medium	< 5 feet	Seeding	Red Maple	Low	5 - 10 feet	Sapling	Paper Birch	Low	10 - 20 feet	Sapling																						
Canopy Species	% Cover	Size Class	DBH	Age																																																																																	
Hemlock	65	Log	14	83																																																																																	
White Pine	5	XLog	22																																																																																		
Paper Birch	3	Log/Pole	10																																																																																		
Yellow Birch	3	Log/Pole	10																																																																																		
Red Maple	20	Log/Pole	14	60																																																																																	
Northern White Cedar	4	Log	12																																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																																		
Hemlock	Medium	10 - 20 feet	Sapling																																																																																		
Yellow Birch	Low	10 - 20 feet	Sapling																																																																																		
Balsam Fir	Medium	< 5 feet	Seeding																																																																																		
Red Maple	Low	5 - 10 feet	Sapling																																																																																		
Paper Birch	Low	10 - 20 feet	Sapling																																																																																		
11	629 - Mixed non-forested wetland	Nonstocked	2.8		Unspecified	No	Powerline corridor.																																																																														
12	4130 - Aspen	Poletimber Well	7.2	42	81-110	N/A	Barta's '10 inventory based age on a cut record, I couldn't locate it. He also stated "DBH's small given age", this is true in many areas. Where the ground is generally drier (more/less east 1/2), DBH's are larger. Smaller where wetter (W1/2). A lot of sap sizes across most species. A handful of XL and Legacy WP present, left during previous cut. West flowing creek along northern boundary (along interface w/Stand 8). Quite wet/sort of mucky along west boundary (interface w/Stand 7). Trace NWC (L/P) observed near creek.																																																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>8</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>60</td> <td>Pole/Sap/Log</td> <td>7</td> <td>42</td> </tr> <tr> <td>Balsam Fir</td> <td>8</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>8</td> <td>Pole/Sap/Log</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>White Pine</td> <td>1</td> <td>XLog/Log</td> <td>22</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	8	Pole/Log	8		Quaking Aspen	60	Pole/Sap/Log	7	42	Balsam Fir	8	Sapling/Pole	3		Black Cherry	8	Pole/Sap/Log	6		Red Maple	10	Sapling/Pole	4		Paper Birch	5	Sapling/Pole	4		White Pine	1	XLog/Log	22		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Red Maple</td> <td>High</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	Variable	Sapling	Balsam Fir	Medium	< 5 feet	Seeding	Red Maple	High	>20 feet	Sapling	White Pine	Trace	10 - 20 feet	Sapling																					
Canopy Species	% Cover	Size Class	DBH	Age																																																																																	
Bigtooth Aspen	8	Pole/Log	8																																																																																		
Quaking Aspen	60	Pole/Sap/Log	7	42																																																																																	
Balsam Fir	8	Sapling/Pole	3																																																																																		
Black Cherry	8	Pole/Sap/Log	6																																																																																		
Red Maple	10	Sapling/Pole	4																																																																																		
Paper Birch	5	Sapling/Pole	4																																																																																		
White Pine	1	XLog/Log	22																																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																																		
Balsam Fir	High	Variable	Sapling																																																																																		
Balsam Fir	Medium	< 5 feet	Seeding																																																																																		
Red Maple	High	>20 feet	Sapling																																																																																		
White Pine	Trace	10 - 20 feet	Sapling																																																																																		
13	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	11.3	80	1-50	N/A	PU3 Cormorant Mix, cut '04, cut merch aspen, fir and spruce. Much more residual compared to its sibling, Stand 89, and areas left uncut because of heavy saps and/or probably too wet. Now an inconsistent variety of age, size, structure. Log canopy closure variable from 25-100, saplings dominate the canopy in areas too. Transitional wet ground as you move west, more fir in those areas. A very small inclusion in north of this stand that was part of the thinning unit (Std17), wasn't cut/orange trees still present. Saps, Poles, and most Logs all appear quite healthy.																																																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>25</td> <td>Log/Pole</td> <td>14</td> <td>80</td> </tr> <tr> <td>Northern White Cedar</td> <td>2</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>8</td> <td>Pole/Log/Sap</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole/Sap/Log</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Sapling/Pole/Log</td> <td>3</td> <td>16</td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>3</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>15</td> <td>Sapling/Pole</td> <td>4</td> <td>16</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	25	Log/Pole	14	80	Northern White Cedar	2	Pole	7		Black Cherry	8	Pole/Log/Sap	8		Balsam Fir	20	Pole/Sap/Log	6		Quaking Aspen	20	Sapling/Pole/Log	3	16	White Pine	3	Log/Pole/XLog	14		Paper Birch	3	Pole/Log	9		Bigtooth Aspen	15	Sapling/Pole	4	16	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>High</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>High</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Paper Birch	Low	10 - 20 feet	Sapling	Quaking Aspen	High	>20 feet	Sapling	Balsam Fir	High	Variable	Sapling	Bigtooth Aspen	High	>20 feet	Sapling	White Pine	Low	5 - 10 feet	Sapling	Beech	Trace	5 - 10 feet	Sapling	Ironwood	Low	5 - 10 feet	Sapling	Tag Alder	Low	5 - 10 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																																																	
Red Maple	25	Log/Pole	14	80																																																																																	
Northern White Cedar	2	Pole	7																																																																																		
Black Cherry	8	Pole/Log/Sap	8																																																																																		
Balsam Fir	20	Pole/Sap/Log	6																																																																																		
Quaking Aspen	20	Sapling/Pole/Log	3	16																																																																																	
White Pine	3	Log/Pole/XLog	14																																																																																		
Paper Birch	3	Pole/Log	9																																																																																		
Bigtooth Aspen	15	Sapling/Pole	4	16																																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																																		
Paper Birch	Low	10 - 20 feet	Sapling																																																																																		
Quaking Aspen	High	>20 feet	Sapling																																																																																		
Balsam Fir	High	Variable	Sapling																																																																																		
Bigtooth Aspen	High	>20 feet	Sapling																																																																																		
White Pine	Low	5 - 10 feet	Sapling																																																																																		
Beech	Trace	5 - 10 feet	Sapling																																																																																		
Ironwood	Low	5 - 10 feet	Sapling																																																																																		
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																																																		
14	629 - Mixed non-forested wetland	Nonstocked	11.7		Unspecified	No	Powerline corridor. Hilly and dry in some of the northern portions. Wet with tag alder and cattail in most other areas.																																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

15 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 14.2 122 171-200 N/A

Hemlock and cedar dominated stand (the areas I observed). Areas of larger log hemlock being used for thermal cover (open sub-can, little regen). Some XL and legacy WP scattered around. Stream dissects east polygon. Wettest areas populated with sap/poles, more fir. Far east area of larger poly had some good YB regen (sap/pole). Closed portion of Padgett Rd in east poly too.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	8	Log/Pole/XLog	12		Balsam Fir	Medium	Variable	Sapling
Yellow Birch	6	Log/XLog/Pole	15		Red Maple	Low	Variable	Sapling
Quaking Aspen	2	Log	16		Black Ash	Medium	Variable	Sapling
Northern White Cedar	40	Pole/Log	9	122	Hemlock	Low	>20 feet	Sapling
White Pine	3	XLog/Log	20		Yellow Birch	Low	>20 feet	Sapling
Hemlock	35	Log/XLog/Pole	15		Striped Maple	Low	10 - 20 feet	Sapling
Balsam Fir	4	Pole/Sapling	6					

16 4110 - Sugar Maple Association Sawtimber Well 101.5 83 111-140 N/A

Majority of this stand was harvested sometime between 1993 and 1998. Fair amount of intermediate sugar maple, some starting to have flat tops. Northern most portions and small sliver to the west have a higher density of larger pole sugar maple. Some wetter, conifer/hemlock inclusions throughout. Hilly in spots but operable. Larger seeps found in the SE portion of the stand.. Dead ash blowdown present in stand. South boundary not exact, there are some varies in the line.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/Pole	12	83	Sugar Maple	Low	< 5 feet	Seeding
Yellow Birch	1	Log	11		Sugar Maple	Medium	10 - 20 feet	Sapling
Beech	1	Log	16		Beech	Medium	5 - 10 feet	Sapling
Hemlock	1	Log/Pole	14		Ironwood	Low	5 - 10 feet	Sapling
Black Cherry	5	Log	12		Elderberry	Low	5 - 10 feet	Tall Shrub
Basswood	22	Log	12					

17 4119 - Mixed Northern Hardwoods Sawtimber Well 92.2 80 81-110 N/A

Entirety of stand was PU1/2 of Cormorant Mix, thinned '04ish. Quite species diverse. Trace (sometimes Trc+) components of BE (L/XL/P), WP (XL), Elm (P), NWC (P/L), BTA (L/XL/P). Usual post thin flush of non-desires in many areas. Seep fed water courses/small streams common at bottom of slopes, flowing west. Steepest in SE near PVT. Mix of decent quality stems and marginal/poor quality single and multi-stemmers. Larger DBH's common. Red maple throughout, seemed more prevalent in northern locations.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	18	Log/XLog/Pole	15	71	Ironwood	High	10 - 20 feet	Sapling
Black Cherry	8	Log/Pole/XLog	12		Ironwood	Low	>20 feet	Pole
Sugar Maple	50	Log/Pole/XLog	12	80	Ironwood	High	< 5 feet	Seeding
Basswood	8	Log/XLog/Pole	15		Beech	High	10 - 20 feet	Sapling
Hemlock	3	Log/XLog/Pole	15		Sugar Maple	Low	>20 feet	Sapling
Yellow Birch	4	XLog/Log/Pole	18		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6		White Pine	Trace	>20 feet	Sapling
Paper Birch	4	Log/XLog/Pole	12		Yellow Birch	Low	>20 feet	Sapling
					Balsam Fir	Medium	< 5 feet	Seeding
					Beech	Medium	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
18	6124 - Lowland Spruce-Fir	Sapling Medium	180.5	43	1-50	N/A	<p>JSP '20 Comments: Sifting water table likely steering stand structure. I saw areas south of the powerline, Kubitskey saw portions north of Springvale Rd. Patchy composition w/saps generally dominant, then clumps of and scattered poles/logs. Quite a bit of crown dieback occurring on pole cedar, fir/spruce to a lesser extent. Nearly all the WP logs had stressed appearance and small crowns. Due to constant variability, felt 50-75 can-closure a better fit when calling saps dominant. Unknowing cored a dying larch (10.2"), core didn't make to pith, still counted 112 rings. 2.5ac upland inclusion in NE near PVT.</p> <p>Kubitskey '20 Comments: Southern half of stand: Appeared to have more standing dead and less understory conifer development towards the W/SW portions of the stand. Lots of blowdown in this area as well. Pockets of merchantable trees but most appear to be declining. Wet.</p>					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Black Spruce		7	Pole/Sapling	7		Balsam Fir		High	< 5 feet	Seeding		
Northern White Cedar		25	Sapling/Pole	4		Paper Birch		Medium	Variable	Sapling		
White Pine		9	Log/XLog	16		Black Spruce		Low	< 5 feet	Seeding		
Balsam Fir		45	Sapling/Pole	2	43	White Pine		Low	Variable	Sapling		
Tamarack		10	Pole/Log	8	120	Paper Birch		Low	>20 feet	Pole		
Red Maple		2	Sapling/Pole	4		Northern White Cedar		Medium	< 5 feet	Seeding		
Quaking Aspen		2	Pole/Log	8		Tag Alder		Medium	5 - 10 feet	Tall Shrub		
						Michigan Holly		Low	< 5 feet	Tall Shrub		
						Labrador Tea		Low	< 5 feet	Tall Shrub		
19	6120 - Lowland Cedar	Poletimber Well	35.5	86	111-140	N/A		<p>Northern boundary approximate. Good quality seed producing cedars along river. Overall cedar with overtopping supercanopy white pines and dying balsam poplar in the north. Diameter overall increases as you move south. Areas of significant fir, spruce and some cedar regen mostly within canopy gaps and areas of blowdown. Portions have cleaner sub-canopy with little development while other portions contain more blowdown and sub-canopy mixed conifer regen. Cores from cedars were rough, some missing piths. Higher density of "Healthy" cedar compared to adjacent stand 55.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Paper Birch		5	Pole	5		Balsam Fir			High	Variable	Sapling	
Black Spruce		10	Pole/Log	9		Black Ash			Low	5 - 10 feet	Sapling	
Northern White Cedar		50	Pole/Log	8	86	Black Spruce			Medium	< 5 feet	Seeding	
White Pine		20	Log/XLog	17	115	Northern White Cedar			Trace	< 5 feet	Seeding	
Balsam Fir		10	Log/Pole	10								
Balsam Poplar		5	Log	12								
20	4119 - Mixed Northern Hardwoods	Sapling Medium	3.3	24	Immature	N/A	<p>Clearcut '93-'95 during "Bear River Rd Aspen". East areas w/lots of BlkCherry saps, IW, and other deciduous. So far the cherry looks like it'll develop into decent stems (not your typical shrubby/opening variety). West poly starts mingling w/conifer types and lowland characteristics. Can-closure toggles from high end 50-75 to low end 75-100. Nice broad mix of mainly sap sized species. Trace RO (pole) and there might be more than 'low' Juneberry present in sub-can.</p>					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Black Cherry		55	Sapling/Pole	3	24	Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling		
Ironwood		15	Sapling	2								
Sugar Maple		5	Sapling	2								
Quaking Aspen		5	Pole/Sapling	5								
Bigtooth Aspen		3	Pole/Sapling	5								
White Pine		5	Sapling/Pole	4								
Balsam Fir		3	Pole/Sapling	5								
Beech		2	Sapling	2								
Paper Birch		4	Sapling	4								
Hemlock		1	Log	16								
White Spruce		2	Sapling	3								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
21	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	6.1	85	111-140	N/A	West half is mature/over-mature A9 w/a northern hardwood component. East half is generally lower quality northern hardwood (saw a few decent HM poles) mixed w/a few large BTA stems. Stand sits atop a high point that slopes down in all directions except north (private residence on north).																																																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>30</td> <td>Log/Pole</td> <td>12</td> <td>85</td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Log/Pole/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Basswood</td> <td>20</td> <td>Log/XLog/Pole</td> <td>16</td> <td></td> </tr> <tr> <td>Beech</td> <td>5</td> <td>Log/Pole/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>25</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	30	Log/Pole	12	85	Red Maple	20	Log/Pole/XLog	15		Basswood	20	Log/XLog/Pole	16		Beech	5	Log/Pole/XLog	15		Bigtooth Aspen	25	Log/XLog	16		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Striped Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	High	Variable	Sapling	Ironwood	Medium	Variable	Sapling	Sugar Maple	Medium	Variable	Sapling	Striped Maple	Low	Variable	Sapling	Ironwood	Medium	< 5 feet	Seeding	Beech	Medium	< 5 feet	Seeding	Ironwood	Low	>20 feet	Pole															
Canopy Species	% Cover	Size Class	DBH	Age																																																																													
Sugar Maple	30	Log/Pole	12	85																																																																													
Red Maple	20	Log/Pole/XLog	15																																																																														
Basswood	20	Log/XLog/Pole	16																																																																														
Beech	5	Log/Pole/XLog	15																																																																														
Bigtooth Aspen	25	Log/XLog	16																																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																																														
Beech	High	Variable	Sapling																																																																														
Ironwood	Medium	Variable	Sapling																																																																														
Sugar Maple	Medium	Variable	Sapling																																																																														
Striped Maple	Low	Variable	Sapling																																																																														
Ironwood	Medium	< 5 feet	Seeding																																																																														
Beech	Medium	< 5 feet	Seeding																																																																														
Ironwood	Low	>20 feet	Pole																																																																														
22	3102 - Grass	Nonstocked	1.0	0	Unspecified	No	Landing for 'Bear River Road Aspen'. Cut '93-'95, w/Stds 19, 26 & 74. Some vegetation encroachment but still a pretty solid opening.																																																																										
23	4130 - Aspen	Poletimber Well	17.1	24	1-50	N/A	Clearcut '93-'95, w/Stds 19,26,74 "Bear River Rd Aspen". Aspen DBH's toggle between S/P - P/S depending on location, sometimes slope. Overall saying pole size is most prevalent. Very much 75-100 can-closure but not a well stocked pole stand (yet). A lot of nearly 5" present and then some +- 6" aspen. East of powerline has a broader mix of NHWD species and sap size aspen. West of powerline a more cut/dry aspen stand, larger DBH's (more QA too). Soft/wet near Std.15. Trace YB (p/s), Elm (l/p), BAM (p/s), RO (p/s), Hem (L).																																																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>60</td> <td>Pole/Sapling</td> <td>5</td> <td>24</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Ironwood</td> <td>7</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Beech</td> <td>7</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>4</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>2</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	5	Sapling	3		Bigtooth Aspen	60	Pole/Sapling	5	24	Black Cherry	5	Sapling/Pole	4		Quaking Aspen	10	Pole/Sapling	5		Ironwood	7	Sapling	2		Beech	7	Sapling	3		Red Maple	4	Sapling	4		Balsam Fir	2	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Ironwood</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Striped Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	High	10 - 20 feet	Sapling	Beech	Medium	10 - 20 feet	Sapling	Sugar Maple	Low	10 - 20 feet	Sapling	Striped Maple	Low	Variable	Sapling	Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling	Paper Birch	Low	>20 feet	Sapling	White Pine	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																													
Sugar Maple	5	Sapling	3																																																																														
Bigtooth Aspen	60	Pole/Sapling	5	24																																																																													
Black Cherry	5	Sapling/Pole	4																																																																														
Quaking Aspen	10	Pole/Sapling	5																																																																														
Ironwood	7	Sapling	2																																																																														
Beech	7	Sapling	3																																																																														
Red Maple	4	Sapling	4																																																																														
Balsam Fir	2	Pole/Sapling	6																																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																																														
Ironwood	High	10 - 20 feet	Sapling																																																																														
Beech	Medium	10 - 20 feet	Sapling																																																																														
Sugar Maple	Low	10 - 20 feet	Sapling																																																																														
Striped Maple	Low	Variable	Sapling																																																																														
Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling																																																																														
Paper Birch	Low	>20 feet	Sapling																																																																														
White Pine	Low	Variable	Sapling																																																																														
24	6139 - Mixed Lowland Forest	Sapling Well	8.7	30	Immature	N/A	Deer feed cut harvested in 1990. This was a hand cut operation that appears to have only taken anything merchantable. Balsam and Birch dominating stand. Most openings and skid trails that were too wet or had poor fir and birch establishment have tuned to an alder/cattail/sedge mat mix. Cedar regen is fair, small saps in understory and some pockets of seedlings present. Deer seem to be preferring the ash over the cedar. Wet.																																																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>2</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>40</td> <td>Sapling/Pole</td> <td>3</td> <td>30</td> </tr> <tr> <td>Balsam Fir</td> <td>40</td> <td>Sapling/Pole</td> <td>3</td> <td>30</td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>3</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>7</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	2	Sapling	2		Paper Birch	40	Sapling/Pole	3	30	Balsam Fir	40	Sapling/Pole	3	30	Quaking Aspen	5	Pole	5		Black Spruce	3	Sapling/Pole	3		White Pine	3	Sapling/Pole	4		Northern White Cedar	7	Sapling/Pole	4		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Ash</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Northern White Cedar</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High	5 - 10 feet	Tall Shrub	Black Ash	High	Variable	Sapling	Balsam Fir	Medium	< 5 feet	Seeding	Black Spruce	Low	< 5 feet	Seeding	Northern White Cedar	Medium	5 - 10 feet	Sapling	Northern White Cedar	Low	< 5 feet	Seeding									
Canopy Species	% Cover	Size Class	DBH	Age																																																																													
Red Maple	2	Sapling	2																																																																														
Paper Birch	40	Sapling/Pole	3	30																																																																													
Balsam Fir	40	Sapling/Pole	3	30																																																																													
Quaking Aspen	5	Pole	5																																																																														
Black Spruce	3	Sapling/Pole	3																																																																														
White Pine	3	Sapling/Pole	4																																																																														
Northern White Cedar	7	Sapling/Pole	4																																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																																														
Tag Alder	High	5 - 10 feet	Tall Shrub																																																																														
Black Ash	High	Variable	Sapling																																																																														
Balsam Fir	Medium	< 5 feet	Seeding																																																																														
Black Spruce	Low	< 5 feet	Seeding																																																																														
Northern White Cedar	Medium	5 - 10 feet	Sapling																																																																														
Northern White Cedar	Low	< 5 feet	Seeding																																																																														
25	310 - Herbaceous Openland	Nonstocked	3.5		Unspecified	No	Powerline corridor. Hilly, wet in spots.																																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
26	4130 - Aspen	Poletimber Well	20.1	27	51-80	N/A	Clearcut '93-'95, w/Stds 19, 23, 74, "Bear River Road Aspen". Variable DBH's across BTA (the most prevalent specie). Impressive growth across most of those stems given age. Some pockets of QA clones, some suppressed/dying. Enough BTA stems converted to pole size to call an A6 and no-doubt 75-100% can-closure. Though by no means a fully stocked pole stand yet. Variety of NHWD species present and staking claim in certain areas, most still sap size except for some 5"+ BlkCherry and a few RM.																																																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>4</td><td>Sapling</td><td>2</td><td></td></tr> <tr><td>Beech</td><td>7</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>65</td><td>Pole/Sap/Log</td><td>6</td><td>27</td></tr> <tr><td>Black Cherry</td><td>7</td><td>Sapling/Pole</td><td>4</td><td></td></tr> <tr><td>Ironwood</td><td>4</td><td>Sapling</td><td>2</td><td></td></tr> <tr><td>Quaking Aspen</td><td>8</td><td>Sapling/Pole</td><td>4</td><td></td></tr> <tr><td>Red Maple</td><td>5</td><td>Sapling/Pole</td><td>4</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	4	Sapling	2		Beech	7	Sapling/Pole	3		Bigtooth Aspen	65	Pole/Sap/Log	6	27	Black Cherry	7	Sapling/Pole	4		Ironwood	4	Sapling	2		Quaking Aspen	8	Sapling/Pole	4		Red Maple	5	Sapling/Pole	4		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Ironwood</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Beech</td><td>High</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Sugar Maple</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Ash</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Ironwood</td><td>Medium</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>Beech</td><td>Medium</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	Variable	Sapling	Beech	High	Variable	Sapling	Sugar Maple	Medium	Variable	Sapling	White Ash	Low	Variable	Sapling	Ironwood	Medium	< 5 feet	Seeding	Beech	Medium	< 5 feet	Seeding	Red Maple	Medium	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																								
Sugar Maple	4	Sapling	2																																																																									
Beech	7	Sapling/Pole	3																																																																									
Bigtooth Aspen	65	Pole/Sap/Log	6	27																																																																								
Black Cherry	7	Sapling/Pole	4																																																																									
Ironwood	4	Sapling	2																																																																									
Quaking Aspen	8	Sapling/Pole	4																																																																									
Red Maple	5	Sapling/Pole	4																																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																																									
Ironwood	Medium	Variable	Sapling																																																																									
Beech	High	Variable	Sapling																																																																									
Sugar Maple	Medium	Variable	Sapling																																																																									
White Ash	Low	Variable	Sapling																																																																									
Ironwood	Medium	< 5 feet	Seeding																																																																									
Beech	Medium	< 5 feet	Seeding																																																																									
Red Maple	Medium	Variable	Sapling																																																																									
27	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	106.3	32	51-80	N/A	Wet and Mucky soils. West part of stand was acquired by the Wildlife Division in 2009 with the intention to protect deer "winter-complex habitat." Scattered patches of merchantable timber (mostly spruce, tamarack and occasional aspen/birch). Some wetter portions are heavy in tag alder, black ash and birch. Besides the merchantable pockets the overall stand is composed of sap/pole sized birch with a heavy conifer component underneath. Cedar regen is patchy. Scattered supercanopy white pines are showing signs of stress with dying tops and yellowing of needles. Some areas appear to have had strip cuts or old shooting lanes for hunters. Far north east portion contains a drier portion that contains scattered legacy white pines along with scattered log birch, red maple and cherry. Increasing water levels are playing a role in stand development.																																																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Paper Birch</td><td>35</td><td>Pole/Sapling</td><td>5</td><td>32</td></tr> <tr><td>Balsam Poplar</td><td>5</td><td>Log</td><td>12</td><td></td></tr> <tr><td>Black Spruce</td><td>32</td><td>Pole/Sap/Log</td><td>8</td><td></td></tr> <tr><td>Northern White Cedar</td><td>10</td><td>Pole</td><td>7</td><td>73</td></tr> <tr><td>Tamarack</td><td>3</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>5</td><td>XLog/Log</td><td>20</td><td>112</td></tr> <tr><td>Balsam Fir</td><td>10</td><td>Pole/Sapling</td><td>6</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Paper Birch	35	Pole/Sapling	5	32	Balsam Poplar	5	Log	12		Black Spruce	32	Pole/Sap/Log	8		Northern White Cedar	10	Pole	7	73	Tamarack	3	Pole	8		White Pine	5	XLog/Log	20	112	Balsam Fir	10	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Tag Alder</td><td>High</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Paper Birch</td><td>Medium</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Black Ash</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Michigan Holly</td><td>Low</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Black Spruce</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Low</td><td>< 5 feet</td><td>Sapling</td></tr> <tr><td>Northern White Cedar</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High	5 - 10 feet	Tall Shrub	Paper Birch	Medium	10 - 20 feet	Sapling	Black Ash	Medium	5 - 10 feet	Sapling	Michigan Holly	Low	5 - 10 feet	Tall Shrub	Black Spruce	Medium	Variable	Sapling	White Pine	Low	< 5 feet	Sapling	Northern White Cedar	Medium	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																								
Paper Birch	35	Pole/Sapling	5	32																																																																								
Balsam Poplar	5	Log	12																																																																									
Black Spruce	32	Pole/Sap/Log	8																																																																									
Northern White Cedar	10	Pole	7	73																																																																								
Tamarack	3	Pole	8																																																																									
White Pine	5	XLog/Log	20	112																																																																								
Balsam Fir	10	Pole/Sapling	6																																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																																									
Tag Alder	High	5 - 10 feet	Tall Shrub																																																																									
Paper Birch	Medium	10 - 20 feet	Sapling																																																																									
Black Ash	Medium	5 - 10 feet	Sapling																																																																									
Michigan Holly	Low	5 - 10 feet	Tall Shrub																																																																									
Black Spruce	Medium	Variable	Sapling																																																																									
White Pine	Low	< 5 feet	Sapling																																																																									
Northern White Cedar	Medium	Variable	Sapling																																																																									
28	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	10.4	88	Unspecified	N/A	Edge view from south (when in Stand 9) and north from Bear River Rd. A vast wet area of blowdown and tip-ups. Culvert going under Bear River Rd at north end of stand. Observed flowing water courses heading into this stand. Dead standing snags (conifer & deciduous) could be seen. Observed fir seedlings mixed in w/snow and blowdown stems.																																																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Balsam Poplar</td><td>5</td><td>Log</td><td>16</td><td></td></tr> <tr><td>Black Spruce</td><td>8</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Northern White Cedar</td><td>46</td><td>Pole/Log</td><td>9</td><td>88</td></tr> <tr><td>White Pine</td><td>8</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Balsam Fir</td><td>10</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Red Maple</td><td>10</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Yellow Birch</td><td>3</td><td>Pole</td><td>9</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Balsam Poplar	5	Log	16		Black Spruce	8	Pole	8		Northern White Cedar	46	Pole/Log	9	88	White Pine	8	Log/Pole	12		Balsam Fir	10	Pole	7		Red Maple	10	Pole/Log	9		Yellow Birch	3	Pole	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>Medium</td><td>< 5 feet</td><td>Seeding</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	< 5 feet	Seeding																								
Canopy Species	% Cover	Size Class	DBH	Age																																																																								
Balsam Poplar	5	Log	16																																																																									
Black Spruce	8	Pole	8																																																																									
Northern White Cedar	46	Pole/Log	9	88																																																																								
White Pine	8	Log/Pole	12																																																																									
Balsam Fir	10	Pole	7																																																																									
Red Maple	10	Pole/Log	9																																																																									
Yellow Birch	3	Pole	9																																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																																									
Balsam Fir	Medium	< 5 feet	Seeding																																																																									
29	6229 - Mixed lowland shrub	Nonstocked	18.4	0	Unspecified	No	Merchantable sticks on edges and some scattered throughout. Appears to have been flooded out at some point. Ground level has a lot of dead ash and elm saplings with mostly tag alder filling in. Snow on conditions during inventory.																																																																					
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Michigan Holly</td><td>Medium</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Black Spruce</td><td>Low</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>Tamarack</td><td>Low</td><td>>20 feet</td><td>Pole</td></tr> <tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Cattail spp.</td><td>Low</td><td>Unspecified</td><td>Non-Wood</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Michigan Holly		Medium	5 - 10 feet	Tall Shrub	Black Spruce	Low	>20 feet	Pole	Tamarack	Low	>20 feet	Pole	Tag Alder	Medium	5 - 10 feet	Tall Shrub	Cattail spp.	Low	Unspecified	Non-Wood																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																									
Michigan Holly	Medium	5 - 10 feet	Tall Shrub																																																																									
Black Spruce	Low	>20 feet	Pole																																																																									
Tamarack	Low	>20 feet	Pole																																																																									
Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																																									
Cattail spp.	Low	Unspecified	Non-Wood																																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
30	6229 - Mixed lowland shrub	Nonstocked	25.8	0	Unspecified	No	Showing signs of an increasing water table. Mortality present in most deciduous species along with a few scattered dying cedar. Sparse areas of standing timber but overall thick alder, ash and a minor conifer component. Wet.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Tag Alder	High	5 - 10 feet	Tall Shrub					
								Black Ash	High	5 - 10 feet	Sapling					
								Balsam Poplar	Low	Variable	Sapling					
								Black Spruce	Low	< 5 feet	Sapling					
Balsam Fir	Low	< 5 feet	Sapling													
31	3102 - Grass	Nonstocked	0.6		Unspecified	No	See draft treatment notes.									
33	330 - Low-Density Trees	Nonstocked	5.3		Unspecified	No	Scattered brushy, upland opening. Contains pockets of conifers and aspen with intermixed cherry and a few scattered log trees. Signs of high wildlife usage. Good Hawthorn thickets present along edges. Old notes indicated that there may have been a small aspen harvest in the stand in 1983.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								White Pine	Medium	5 - 10 feet	Sapling					
								Red Maple	Low	>20 feet	Log					
								American Elm	Trace	>20 feet	Log					
								Scotch Pine	Trace	>20 feet	Log					
Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub													
34	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	232.5	35	1-50	N/A	Variable and Wet. Scattered logs of balsam poplar in the east with pockets of merchantable conifers throughout. Paper birch is the featured species based on the establishment it seemed to be able to have in the canopy openings. Red maple mostly found on drier mounds.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Balsam Poplar	10	Log	12		Tag Alder	High	5 - 10 feet	Tall Shrub
								Balsam Fir	10	Pole	6		Balsam Fir	Medium	Variable	Sapling
								Northern White Cedar	20	Pole/Sapling	8		Black Ash	High	5 - 10 feet	Sapling
								Paper Birch	25	Pole/Sapling	6	35	Paper Birch	Low	10 - 20 feet	Sapling
								White Pine	5	Log/XLog	15		Northern White Cedar	Low	10 - 20 feet	Sapling
								Black Spruce	20	Pole	7					
								American Elm	5	Pole	5					
								35	4130 - Aspen	Poletimber Well	79.9	37	51-80	N/A	Like Stand 52, age indicates clearcut in mid-80's (didn't locate a cut record). Impressive growth across most species given its age. Pole aspen pretty consistent, with areas still sap size (just east of MCCCT) and others log (south near PVT). Steeper sloped areas had smaller DBH's. Good mix of NHD species, some areas heavy to non-desires though (IW/BE). Scattered RO P/S/L in south (many very clean, higher quality, developed crowns), some obviously residual from harvest. Rolling and some steeper terrain/slopes.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height									Size
Sugar Maple	6	Pole/Sap/Log	5		Ironwood	Medium	10 - 20 feet									Sapling
Bigtooth Aspen	64	Pole/Sap/Log	7	37	Sugar Maple	Low	>20 feet									Sapling
Black Cherry	6	Pole/Sapling	6		Striped Maple	Low	>20 feet									Sapling
Beech	3	Pole/Sapling	5		Red Maple	Medium	>20 feet									Sapling
Red Oak	4	Pole/Sap/Log	7		Beech	High	>20 feet									Sapling
Yellow Birch	1	Pole/Sapling	5		Red Oak	Low	>20 feet									Sapling
Red Maple	8	Pole/Sapling	7		Black Cherry	Medium	>20 feet									Sapling
White Ash	1	Pole/Sapling	6		Balsam Fir	Trace	>20 feet									Sapling
Quaking Aspen	6	Pole/Sapling	7													
Paper Birch	1	Pole/Sapling	5													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
36	4110 - Sugar Maple Association	Sawtimber Well	31.6	83	51-80	N/A	Most NHD species are marginal/poor quality, multi-stem and branchy (grazed in past?). Some better quality pole/log stems present. Generally low BA/patchy stocking. Somewhat higher BA where aspen resides or when larger (multi) stems exist. BTA more common in western than eastern areas, a few scattered about too. A small slug of QA in center, east of 2-trck off Bear Riv Rd. Harvest in western area (~3-5ac, 'Bear River Rd Aspen') in mid-90's removed aspen. This area now heavier to BTA saps mixing w/some HM saps. Scattering of other deciduous/conifer species (BF and a hemlock). Somewhat steep south facing slopes in west, small drainage in west too. Flows out from the PVT pond visible on imagery. ~1ac inclusion of low density RP poles/saps and grassy opening in extreme east (exclude if Rx'd).	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		62	Log/Pole/XLog	13	83	Sugar Maple		
Basswood		15	Log/XLog/Pole	14		Ironwood		
Beech		2	Log/XLog	15		Beech		
Ironwood		3	Pole/Sapling	7		Ironwood		
Bigtooth Aspen		10	Log/Pole/XLog	15		Beech		
Black Cherry		3	Log	11		Black Cherry		
Yellow Birch		1	Log/Pole	15		White Ash		
Paper Birch		1	Pole	9		Bigtooth Aspen		
Quaking Aspen		3	Log	14		Balsam Fir		
						Leatherwood		
37	4130 - Aspen	Sapling Well	8.4	24	1-50	N/A		Clearcut '93-'95, w/Std 23, 26, 74, "Bear River Road Aspen". Very similar species comp to Stand 26 but many/most diameters still sap sized. Split this two-part polygon (stand) out of Stand 26. A little less canopy closure in areas of the northern poly.
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		7	Sapling	2				
Beech		7	Sapling	3				
Bigtooth Aspen		65	Sapling/Pole	4	24			
Black Cherry		7	Sapling	3				
Ironwood		6	Sapling	2				
Red Maple		5	Sapling	3				
Quaking Aspen		3	Sapling/Pole	4				
38	6112 - Lowland Aspen	Poletimber Well	22.2	43	51-80	N/A	Fairly healthy aspen. Some blowdown present, heavier conifer component near Springvale road. Old notes indicate that there was a harvest done in the 1976. Signs of old skid trails preset. Standing water and some areas of cattails. Upland inclusion near property corner in the SE corner. Could not locate property corner in the SE.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		20	Pole	6		Tag Alder		
Quaking Aspen		25	Pole	7	43	Balsam Fir		
Black Spruce		15	Pole	5		White Pine		
Northern White Cedar		5	Pole	6				
Balsam Poplar		30	Pole/Log	8	43			
Balsam Fir		5	Pole	6				
39	310 - Herbaceous Openland	Nonstocked	2.1		Unspecified	No	Opening that appears to have been used as a landing from previous harvests.	
Sub-Canopy Species		Density	Avg. Height	Size				
Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub				
White Pine		Low	Variable	Pole				
Juniper		Low	< 5 feet	Tall Shrub				
Sugar Maple		Medium	5 - 10 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
40	4130 - Aspen	Poletimber Well	21.9	36	81-110	N/A	Overall good quality aspen stand with intermixed red oak and sugar maple. Rolling hills. Good conifer component throughout. Southwest contains a wet pocket of cedar/hemlock/fir and cattails as well as a small drainage too small to map out individually.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>80</td> <td>Pole</td> <td>7</td> <td>36</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	10	Pole/Sapling	5		Bigtooth Aspen	80	Pole	7	36	Black Cherry	5	Pole/Sapling	6		Red Oak	5	Pole	7		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	5 - 10 feet	Sapling	Balsam Fir	Low	< 5 feet	Seeding	Red Oak	Low	5 - 10 feet	Sapling	White Pine	Low	5 - 10 feet	Sapling	Beech	Medium	5 - 10 feet	Sapling															
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Sugar Maple	10	Pole/Sapling	5																																																																	
Bigtooth Aspen	80	Pole	7	36																																																																
Black Cherry	5	Pole/Sapling	6																																																																	
Red Oak	5	Pole	7																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
Sugar Maple	Medium	5 - 10 feet	Sapling																																																																	
Balsam Fir	Low	< 5 feet	Seeding																																																																	
Red Oak	Low	5 - 10 feet	Sapling																																																																	
White Pine	Low	5 - 10 feet	Sapling																																																																	
Beech	Medium	5 - 10 feet	Sapling																																																																	
41	4130 - Aspen	Poletimber Well	11.6	26	1-50	N/A	Clearcut '94-'95 leaving all oak (Sap Pan Log Sale). Many stems at/just greater than 5", yet still a lot of saps in 2-4" class. Gut said pole sizes at/just above 30% throughout stand. In early stages of conversion to pole. Good mix of aspen and NHD species. Scattered L/P/XL RO residuals. Similar to Stand 52, some very clean RO sap/pole observed. Most of the stand resides on a prominent west facing slope. Allow stand to develop for at least one more entry.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>60</td> <td>Pole/Sapling</td> <td>5</td> <td>26</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Beech</td> <td>7</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Ironwood</td> <td>7</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Pole/Sap/Log</td> <td>5</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>1</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	10	Sapling/Pole	4		Bigtooth Aspen	60	Pole/Sapling	5	26	Black Cherry	5	Sapling/Pole	3		Beech	7	Sapling/Pole	3		Ironwood	7	Sapling	2		Red Oak	5	Pole/Sap/Log	5		Paper Birch	1	Sapling/Pole	4		Red Maple	5	Pole/Sapling	5																						
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Sugar Maple	10	Sapling/Pole	4																																																																	
Bigtooth Aspen	60	Pole/Sapling	5	26																																																																
Black Cherry	5	Sapling/Pole	3																																																																	
Beech	7	Sapling/Pole	3																																																																	
Ironwood	7	Sapling	2																																																																	
Red Oak	5	Pole/Sap/Log	5																																																																	
Paper Birch	1	Sapling/Pole	4																																																																	
Red Maple	5	Pole/Sapling	5																																																																	
42	500 - Water	Nonstocked	23.5	0	Unspecified	No	Bear River. Part of the Little Traverse Bay Watershed.																																																													
43	4110 - Sugar Maple Association	Sawtimber Well	125.4	83	81-110	N/A	This stand was cut 2003-2004 (Phoenix Hardwoods). Some steep hills as well as some minor lowland/wet portions in the east. Stocking is higher in these areas. Overall larger diameters than stand to the north with less intermediate/ Large Sapling/Pole maples. Higher beech component on ridges with the central portion of stand containing the majority of standing infected beech. High blowdown present on ridge tops. Far east portion of stand contains more poles along with more scattered conifers. Higher maple seedlings in the west portion.																																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>60</td> <td>Log</td> <td>14</td> <td>83</td> </tr> <tr> <td>Yellow Birch</td> <td>3</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Beech</td> <td>9</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>2</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>1</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Basswood</td> <td>20</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Log/XLog</td> <td>13</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	60	Log	14	83	Yellow Birch	3	Log/Pole	10		Beech	9	Log	12		Hemlock	2	Log	16		Black Cherry	1	Log	12		Basswood	20	Log	12		Red Maple	5	Log/XLog	13		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	< 5 feet	Seeding	Sugar Maple	Low	10 - 20 feet	Sapling	Beech	High	5 - 10 feet	Sapling	Ironwood	Medium	5 - 10 feet	Sapling	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Sugar Maple	60	Log	14	83																																																																
Yellow Birch	3	Log/Pole	10																																																																	
Beech	9	Log	12																																																																	
Hemlock	2	Log	16																																																																	
Black Cherry	1	Log	12																																																																	
Basswood	20	Log	12																																																																	
Red Maple	5	Log/XLog	13																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
Sugar Maple	Medium	< 5 feet	Seeding																																																																	
Sugar Maple	Low	10 - 20 feet	Sapling																																																																	
Beech	High	5 - 10 feet	Sapling																																																																	
Ironwood	Medium	5 - 10 feet	Sapling																																																																	
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
44	4111 - S.Maple, Hard Mast Association	Sawtimber Well	533.2	84	81-110	N/A	Sec.1&-12 area of stand thinned mid-2000's (Bear Run Hardwoods). NE1/4 Sec.12 thinned + Std.41 CCR (Sap Pan Log Sale), closed '95. Portion of stand in section 13 was thinned in 76 then again in 2005 (Looking Glass Hwd). 1976 harvest removed all logs (majority aspen, basswood and beech), 2005 harvest targeted majority hardwood pulp. JSP '20 comments: Area south of Std.52 (SE1/4 Sec.12) was heavier to NHWD poles of variable quality (single/multi stems), pockets of clonal BTA and scat large multi-stem RO (RO prob older than 84yrs). The NE1/4 of Sec.12 general held larger/higher quality stems and some very large/legacy RO. Areas south (and east) of Std35 were heavier to larger RM/BE of poorer quality, also hilly/somewhat steep in spots. Northern portions of the stand (Sec.1) offered decent/good quality NHWD. Many areas flush w/non-desire regen spurred on by recent thinnings. Trace Elm (L/P), BlkChrry (L), PB (L), Hemlock (P/L), scat WA snags, and didn't observe any YB (thought this was odd). Average BA=101 after 12-swings (120 highest, 80 lowest). Kubitskey '20 comments: Inventoried SESE of sec 12 along with everything in sec 13. Overall BA was 105 with 10 plots. Steeper hills in SE corner sloping down into private. Red line was ran a little further north of powerline so BA is higher towards the ROW. Good quality logs with intermixed pockets of pole sugar maple along with some intermediate maple sap/poles. Pockets heavier to beech in which are creating some natural canopy gaps with some containing 20+ ft sugar maple saplings. Far west side of stand is west facing to south facing slopes containing the majority of the oak with little desirable regen (mostly ironwood and beech). NW corner near the private boundary is heavy to beech mortality and overmature bigtooth and fair amount of single stem pole sized oak. Small wet conifer inclusion in the southwest corner - WET.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	52	Log/Pole/XLog	11	84	Ironwood	High		Variable	Sapling
Basswood	16	Log/Pole	12	84	Beech	High		10 - 20 feet	Sapling
Red Maple	9	Log/Pole/XLog	13		Sugar Maple	Medium		>20 feet	Sapling
Bigtooth Aspen	6	Log/XLog	16		Beech	Medium		< 5 feet	Seeding
Ironwood	4	Pole/Sapling	7		Ironwood	High		< 5 feet	Seeding
Beech	9	Log/Pole/XLog	14		Red Oak	Trace		>20 feet	Sapling
Red Oak	4	XLog/Log/Pole	21		White Spruce	Trace		>20 feet	Sapling
					Balsam Fir	Trace		>20 feet	Sapling
45	4110 - Sugar Maple Association	Sawtimber Well	12.3	84	51-80	N/A	Western areas appear to have gaps (perhaps regen) established at some point in past. Most gaps now filled w/non-desires (IW, some BE). East didn't seem to have as many gaps. S/P and P/S HM common but of low quality, from stmpsprts. Very few single stems present across most species and of marginal or less quality. Handful of aspen on north boundary. Low end of 75-100 can-closure in west (more gaps), higher end in east. Enough stems 10" or greater to call log size, yet pole dominant in spots.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	80	Log/Pole/Sap	11	84	Sugar Maple	Medium		>20 feet	Sapling
Basswood	8	Log/Pole	14		Ironwood	High		Variable	Sapling
Ironwood	5	Pole/Sapling	6		Beech	Medium		Variable	Sapling
Quaking Aspen	2	Log	16		Ironwood	High		< 5 feet	Seeding
Bigtooth Aspen	3	Log/XLog	15		Beech	Medium		< 5 feet	Seeding
Beech	2	Log	16		Paper Birch	Trace		>20 feet	Sapling
					Basswood	Trace		5 - 10 feet	Sapling
					Red Pine	Trace		>20 feet	Pole
46	4110 - Sugar Maple Association	Sawtimber Well	2.5	93	111-140	N/A	Good quality logs. Stand transitions downhill to the northeast/east. Higher red maple density along the lower ground. No property corner found in the SW. Very little sub-canopy development. 128 sq ft.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	75	Log	14	93	Ironwood	Low		5 - 10 feet	Sapling
Red Maple	20	Log	13	85	White Ash	Medium		< 5 feet	Seeding
Basswood	3	Log	13		Sugar Maple	Low		< 5 feet	Seeding
Black Cherry	2	Log	15		White Pine	Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
47	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	10.1	103	141-170	N/A	Small Cedar/Hemlock grove. Northern portion contains a more upland/hardwood mix then transitioning into cedar and hemlock in the south. Hemlock look healthy with some in the sub-canopy dying. The seeps from stand 16 flow into this stand. Appears to be heavily used by wildlife.																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>20</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>45</td> <td>Log</td> <td>12</td> <td>103</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Log/Pole	10		Balsam Fir	5	Pole	6		Northern White Cedar	45	Log	12	103	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Ash</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	Tall Shrub	Black Ash	Medium	< 5 feet	Sapling	Balsam Fir	Medium	Variable	Sapling																											
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Red Maple	20	Log/Pole	10																																																															
Balsam Fir	5	Pole	6																																																															
Northern White Cedar	45	Log	12	103																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																															
Black Ash	Medium	< 5 feet	Sapling																																																															
Balsam Fir	Medium	Variable	Sapling																																																															
48	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	29.0	86	51-80	N/A	Pockets of mixed logs in the north are falling apart due to the mortality of the balsam poplar along with some blow down and snapped tops. Scattered poles along with saplings of maple, birch and various conifers. Standing water in the majority of stand except in the higher ground in the southeast corner. Some spots heavier to tag alder. Seeps from stand 43 flow into the west edge of the stand. Age on the BAM was estimated last entry, and most cores currently had decaying wood near the pith so age has been based on previous inventory.																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>20</td> <td>Log</td> <td>14</td> <td>86</td> </tr> <tr> <td>Northern White Cedar</td> <td>20</td> <td>Log/Pole</td> <td>10</td> <td>102</td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole/Log	8		Quaking Aspen	15	Pole/Log	9		Balsam Poplar	20	Log	14	86	Northern White Cedar	20	Log/Pole	10	102	Black Spruce	10	Pole/Log	8		Balsam Fir	15	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Ash</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Paper Birch	High	10 - 20 feet	Sapling	Black Ash	High	Variable	Sapling	Red Maple	Low	5 - 10 feet	Sapling	Balsam Fir	Medium	5 - 10 feet	Sapling	Tag Alder	Medium	10 - 20 feet	Tall Shrub	Black Spruce	Medium	10 - 20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Red Maple	10	Pole/Log	8																																																															
Quaking Aspen	15	Pole/Log	9																																																															
Balsam Poplar	20	Log	14	86																																																														
Northern White Cedar	20	Log/Pole	10	102																																																														
Black Spruce	10	Pole/Log	8																																																															
Balsam Fir	15	Pole/Log	8																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Paper Birch	High	10 - 20 feet	Sapling																																																															
Black Ash	High	Variable	Sapling																																																															
Red Maple	Low	5 - 10 feet	Sapling																																																															
Balsam Fir	Medium	5 - 10 feet	Sapling																																																															
Tag Alder	Medium	10 - 20 feet	Tall Shrub																																																															
Black Spruce	Medium	10 - 20 feet	Sapling																																																															
49	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	0.5	34	1-50	N/A	Deer Feed cut harvest in 1984. Birch and Fir regenerating very well. Higher success than other deer feed cut (stand 56).																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>15</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>30</td> <td>Sapling/Pole</td> <td>4</td> <td>34</td> </tr> <tr> <td>Balsam Poplar</td> <td>20</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>30</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Sapling</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole/Sapling	5		Paper Birch	30	Sapling/Pole	4	34	Balsam Poplar	20	Pole/Sapling	5		Balsam Fir	30	Sapling/Pole	4		Northern White Cedar	5	Sapling	4		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Ash</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	Tall Shrub	Black Ash	Medium	5 - 10 feet	Sapling	Black Spruce	Medium	5 - 10 feet	Sapling	Tamarack	Low	5 - 10 feet	Sapling	Northern White Cedar	Low	< 5 feet	Seeding	Balsam Fir	Low	5 - 10 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Red Maple	15	Pole/Sapling	5																																																															
Paper Birch	30	Sapling/Pole	4	34																																																														
Balsam Poplar	20	Pole/Sapling	5																																																															
Balsam Fir	30	Sapling/Pole	4																																																															
Northern White Cedar	5	Sapling	4																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																															
Black Ash	Medium	5 - 10 feet	Sapling																																																															
Black Spruce	Medium	5 - 10 feet	Sapling																																																															
Tamarack	Low	5 - 10 feet	Sapling																																																															
Northern White Cedar	Low	< 5 feet	Seeding																																																															
Balsam Fir	Low	5 - 10 feet	Sapling																																																															
50	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	0.5	34	1-50	N/A	Deer feed cut harvested in 1986. Similar composition to stand 49 to the west. A little bit wetter in spots, with some pockets transitioning more to tag alder. Tough access.																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>15</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>30</td> <td>Sapling/Pole</td> <td>4</td> <td>34</td> </tr> <tr> <td>Balsam Poplar</td> <td>20</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>30</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole/Sapling	5		Paper Birch	30	Sapling/Pole	4	34	Balsam Poplar	20	Pole/Sapling	5		Balsam Fir	30	Sapling/Pole	4		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Ash</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	Tall Shrub	Black Ash	Low	5 - 10 feet	Sapling	Tamarack	Low	5 - 10 feet	Sapling	Balsam Fir	Low	Variable	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age																																																														
Red Maple	15	Pole/Sapling	5																																																															
Paper Birch	30	Sapling/Pole	4	34																																																														
Balsam Poplar	20	Pole/Sapling	5																																																															
Balsam Fir	30	Sapling/Pole	4																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																															
Black Ash	Low	5 - 10 feet	Sapling																																																															
Tamarack	Low	5 - 10 feet	Sapling																																																															
Balsam Fir	Low	Variable	Sapling																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
51	4110 - Sugar Maple Association	Sapling Well	4.4	39	1-50	N/A	Has appearance of an old homestead clearing and/or site (no foundation shapes observed). No Arc hits in ConViewerApp. Scattered Blk Walnut, 1-apple tree, dead lilac present. One ~0.2ac non-forest/opening within. The rest is being reclaimed, mainly w/sugar maple saps. Minimum 2-aged but could fit into un-even. MiFI wouldn't allow S/P/L Sugar Maple, so stating here that scat SM logs are present. Saps seemed to be more dominant yet P/L sizes not uncommon.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>72</td> <td>Sapling/Pole</td> <td>4</td> <td>39</td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Ironwood</td> <td>10</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Beech</td> <td>4</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Black Walnut</td> <td>4</td> <td>Log</td> <td>13</td> <td>93</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	72	Sapling/Pole	4	39	Black Cherry	10	Pole/Log	8		Ironwood	10	Sapling/Pole	3		Beech	4	Sapling/Pole	4		Black Walnut	4	Log	13	93	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Ironwood</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Apple (spp.)</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	< 5 feet	Seeding	Beech	Low	< 5 feet	Sapling	Apple (spp.)	Trace	10 - 20 feet	Pole														
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Sugar Maple	72	Sapling/Pole	4	39																																																												
Black Cherry	10	Pole/Log	8																																																													
Ironwood	10	Sapling/Pole	3																																																													
Beech	4	Sapling/Pole	4																																																													
Black Walnut	4	Log	13	93																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Ironwood	Medium	< 5 feet	Seeding																																																													
Beech	Low	< 5 feet	Sapling																																																													
Apple (spp.)	Trace	10 - 20 feet	Pole																																																													
52	4130 - Aspen	Poletimber Well	15.2	36	1-50	N/A	Age suggests clearcut in mid-80's (didn't find a cut record). Aspen has more/less converted to small poles, DBH's a bit larger in west. NHD species (most from stmp-sprouts) still mostly in S/P category. Scat residuals, but not many, are present (mainly RO, some HM, RM and BE). Stand resides in somewhat of a 'saddle' shaped area. Aspen needs 1-2 more entries worth of growth. RO saps, though not many, are really clean/growing well. Large RO residuals are healthy and had no problem being 'opened up' following harvest.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>10</td> <td>Sapling/Pole/Log</td> <td>4</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>65</td> <td>Pole/Sapling</td> <td>6</td> <td>36</td> </tr> <tr> <td>Black Cherry</td> <td>7</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Ironwood</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>2</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>4</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Beech</td> <td>7</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	10	Sapling/Pole/Log	4		Bigtooth Aspen	65	Pole/Sapling	6	36	Black Cherry	7	Pole/Sapling	5		Ironwood	5	Sapling	3		Red Oak	2	Log/XLog	15		Red Maple	4	Pole/Sapling	6		Beech	7	Sapling/Pole	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Striped Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Striped Maple	Low	5 - 10 feet	Sapling	Beech	Medium	< 5 feet	Seeding	Red Oak	Low	>20 feet	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Sugar Maple	10	Sapling/Pole/Log	4																																																													
Bigtooth Aspen	65	Pole/Sapling	6	36																																																												
Black Cherry	7	Pole/Sapling	5																																																													
Ironwood	5	Sapling	3																																																													
Red Oak	2	Log/XLog	15																																																													
Red Maple	4	Pole/Sapling	6																																																													
Beech	7	Sapling/Pole	3																																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Striped Maple	Low	5 - 10 feet	Sapling																																																													
Beech	Medium	< 5 feet	Seeding																																																													
Red Oak	Low	>20 feet	Sapling																																																													
53	4130 - Aspen	Poletimber Well	20.9	44	81-110	N/A	Final harvest 1976. Some minor topography but overall rolling terrain. Quality is variable with some areas of aspen showing decline. North portion of stand contains a few seeps and wet pockets. Scattered log sugar maple throughout, some with open grown characteristics.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>3</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>85</td> <td>Pole/Log</td> <td>8</td> <td>44</td> </tr> <tr> <td>Black Cherry</td> <td>2</td> <td>Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	3	Log/Pole	10		Bigtooth Aspen	85	Pole/Log	8	44	Black Cherry	2	Pole	3		Red Oak	5	Pole/Log	8		Paper Birch	5	Pole	7		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Witch Hazel</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Witch Hazel	Low	5 - 10 feet	Tall Shrub	Ironwood	Medium	10 - 20 feet	Sapling	Sugar Maple	Medium	10 - 20 feet	Sapling	Beech	Low	< 5 feet	Seeding										
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Sugar Maple	3	Log/Pole	10																																																													
Bigtooth Aspen	85	Pole/Log	8	44																																																												
Black Cherry	2	Pole	3																																																													
Red Oak	5	Pole/Log	8																																																													
Paper Birch	5	Pole	7																																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Witch Hazel	Low	5 - 10 feet	Tall Shrub																																																													
Ironwood	Medium	10 - 20 feet	Sapling																																																													
Sugar Maple	Medium	10 - 20 feet	Sapling																																																													
Beech	Low	< 5 feet	Seeding																																																													
54	6130 - Fir, Aspen, Maple	Sapling Well	9.8	44	1-50	N/A	Wetter in spots. Still larger sapling/small poles for a 44 year old stand. Larger diameters on the drier areas. Some Cedar left from harvest in 1976.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>25</td> <td>Sapling/Pole</td> <td>4</td> <td>44</td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>25</td> <td>Sapling/Pole</td> <td>3</td> <td>44</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	25	Sapling/Pole	4	44	Balsam Fir	20	Sapling	2		Black Spruce	10	Sapling	2		Northern White Cedar	10	Pole	5		Tamarack	5	Sapling/Pole	3		White Pine	5	Sapling/Pole	3		Balsam Poplar	25	Sapling/Pole	3	44	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Labrador Tea</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	Tall Shrub	Black Spruce	Medium	< 5 feet	Seeding	Balsam Fir	Medium	Variable	Sapling	Labrador Tea	Medium	< 5 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Quaking Aspen	25	Sapling/Pole	4	44																																																												
Balsam Fir	20	Sapling	2																																																													
Black Spruce	10	Sapling	2																																																													
Northern White Cedar	10	Pole	5																																																													
Tamarack	5	Sapling/Pole	3																																																													
White Pine	5	Sapling/Pole	3																																																													
Balsam Poplar	25	Sapling/Pole	3	44																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																													
Black Spruce	Medium	< 5 feet	Seeding																																																													
Balsam Fir	Medium	Variable	Sapling																																																													
Labrador Tea	Medium	< 5 feet	Tall Shrub																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
55	6124 - Lowland Spruce-Fir	Sapling Well	186.6	20	51-80	N/A	Merchantable pockets of mostly tamarack and Black spruce with some cedar near edges. Pole sized cedar is falling out of stand in most areas. Wet and tough going throughout the interior portions of the stand. Scattered Log/Xlog white pine throughout mostly in the northern half of stand across SpringBrook road. Large complex of mixed stocking as well as mixed composition. Balsam Fir is dominant throughout. Some pockets of fair cedar regen but very sparse.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Pole/Sapling	6		Tag Alder		
Paper Birch		5	Pole	5		Cattail spp.		
Balsam Poplar		10	Log/Pole	10		Black Spruce		
Black Spruce		20	Pole/Log/Sap	5		Northern White Cedar		
Northern White Cedar		10	Pole/Sap/Log	8				
Tamarack		15	Log/Pole/Sap	10	91			
White Pine		5	Log/Pole/XLog	12				
Balsam Fir		30	Sapling/Pole	4	20			
56	6139 - Mixed Lowland Forest	Sapling Well	2.0	34	1-50	N/A	Deer Feed Cut harvested in 1986. This doesn't appear to be doing as well as the other two similar stands to the northwest. Water table seems a bit higher with a heavier fir, tag alder component. Not as many mature cedar trees adjacent to stand either.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Sapling/Pole	3		Tag Alder		
Paper Birch		25	Sapling/Pole	4	34	Black Spruce		
Balsam Poplar		15	Sapling/Pole	4		Black Ash		
Balsam Fir		25	Sapling/Pole	3	34			
Black Spruce		15	Sapling	2				
Tamarack		5	Sapling/Pole	3				
Northern White Cedar		5	Sapling	2				
57	310 - Herbaceous Openland	Nonstocked	4.9		Unspecified	No	Powerline ROW. Hilly.	
58	4111 - S.Maple, Hard Mast Association	Sawtimber Well	31.3	75	51-80	N/A	Hilly. Steep ridges and valleys with elevation increasing towards the power-line and the property line. Beech still present in most of stand with pockets of heavy decline and beech brush. Good density of larger pole/small log sugar maple. Some 20+ foot saplings scattered throughout in the intermediate class; some crowns starting to flatten out. Seeps and springs in the north portion of the stand. Just under 50% of tallied trees in BA swings included pole sized sugar maple.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		47	Pole/Log	9	75	Sugar Maple		
Basswood		30	Log/Pole	10		Beech		
Beech		10	Log/Pole	11		Ironwood		
Red Oak		5	Log/XLog/Pole	16		White Ash		
Bigtooth Aspen		2	Log	12				
Paper Birch		4	Pole/Log	9				
Yellow Birch		2	Log/Pole	10				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

60	4130 - Aspen	Sapling Well	10.8	15	1-50	N/A	Harvested in 2005 apart of Cormorant Mix with Stand 80 to the north. This stand was remove all aspen, fir and spruce. There are pockets of advanced regen of fir. The majority of the stand is not merchantable except for the large overstory oaks and sugar maples that were left from the harvest. Some lowland influence along south edge. Some aspen reaching 1 stick, but overall still sapling.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		3	Log	14	75	Black Cherry		Medium	5 - 10 feet	Sapling
Red Oak		3	Log	16		Red Oak		Low	5 - 10 feet	Sapling
Bigtooth Aspen		75	Sapling	1	15	Balsam Fir		Medium	Variable	Sapling
Balsam Fir		5	Pole/Sapling	5		Sugar Maple		Low	< 5 feet	Seeding
Red Maple		4	Pole	5		Paper Birch		Trace	5 - 10 feet	Sapling
White Pine		5	Log/Pole/XLog	10						
Paper Birch		5	Pole/Sapling	5						

61	6124 - Lowland Spruce-Fir	Sapling Well	3.2	25	1-50	N/A	Very similar to other lowland stands within the area. Mortality within majority deciduous species (aspen, red maple, elm) and the dieback of pole sized cedar. Very wet within interior.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		3	Pole/Sapling	7		Labrador Tea		Low	< 5 feet	Tall Shrub
Balsam Fir		30	Sapling/Pole	2	25	Black Spruce		Low	< 5 feet	Seeding
Black Spruce		30	Sapling/Pole	4		Northern White Cedar		Low	< 5 feet	Seeding
Northern White Cedar		30	Pole/Sapling	5		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Red Maple		2	Sapling/Pole	2		Black Ash		High	5 - 10 feet	Sapling
Quaking Aspen		5	Pole/Log	8						

62	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	6.1	94	51-80	N/A	Understocked pole/log with sap recruits reclaiming throughout. Could call a Q2/3 due to all the saps. Some scat WP/Larch logs. WP crowns looking quite stressed from difficult/wet growing conditions. A lot of sap/pole NWC dead or dying too. BF saps heavy with consistent presence of some NWC that are still looking ok. Overall pretty darn wet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		20	Sapling	2		Balsam Fir		High	Variable	Sapling
Black Spruce		25	Pole	7		Black Ash		Medium	10 - 20 feet	Sapling
Northern White Cedar		15	Sapling/Pole	4		Northern White Cedar		Medium	Variable	Sapling
Tamarack		32	Pole/Log	9	94	Tamarack		Low	Variable	Sapling
White Pine		8	Log/XLog	17		Red Osier Dogwood		Low	5 - 10 feet	Tall Shrub
						Labrador Tea		Low	< 5 feet	Tall Shrub
						Tag Alder		High	5 - 10 feet	Tall Shrub
						Black Spruce		Low	< 5 feet	Seeding
						Northern White Cedar		Low	< 5 feet	Seeding
						Tamarack		Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
63	4110 - Sugar Maple Association	Sawtimber Well	79.1	85	81-110	N/A	Thinned under Close Shave Mix (52-021-12), closed Aug '19. All aspen cut, some larger gaps placed around aspen pockets. Regen assessment needs more time but initial response doesn't look favorable. Seedling BE/IW just starting to repond/flush. This will add to the already existing M/H density layer of BE/IW. Mullein has flushed in many areas. Aspen whips have been heavily browsed. In a few gaps perhaps 60-70% of aspen are above browse height. As a whole, 20-30% (+) of aspen regen has escaped browse. Residual overstory stems appeared to be doing well.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		66	Log/Pole/XLog	11	85	Ironwood		Medium	10 - 20 feet	Sapling	
Basswood		25	Log/Pole/XLog	12		Beech		High	Variable	Sapling	
Ironwood		3	Pole	6		Ironwood		High	< 5 feet	Tall Shrub	
Beech		2	Log/XLog	14		Beech		Full	< 5 feet	Seeding	
Red Maple		3	Pole/Log	9		White Ash		Low	< 5 feet	Seeding	
Yellow Birch		1	Log/Pole/XLog	12		Bigtooth Aspen		Low	5 - 10 feet	Sapling	
						Basswood		Low	< 5 feet	Seeding	
						Striped Maple		Low	< 5 feet	Seeding	
64	4119 - Mixed Northern Hardwoods	Sawtimber Well	87.1	83	81-110	N/A		Majority of stand thinned in mid-00's (Bear Run Hardwoods), closed '07. Stand now has the usual flush of non-desirable species (mainly IW/BE). Seeps, small water-courses surfacing/flowing in western areas. Water is using the western most forest rd to flow north down. That road is in rough shape, undriveable with car/truck. Areas heavier to canopy YB, usually where seeps are emerging. Residual canopy species generally healthy (some wind-throw/snap). Stem quality and form is variable throughout.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Sugar Maple		64	Log/Pole/XLog	12	83	Beech			High	Variable	Sapling
Basswood		12	Log/Pole/XLog	13		Ironwood			Medium	Variable	Sapling
Bigtooth Aspen		5	Log/XLog	16		Sugar Maple			Low	Variable	Sapling
Ironwood		3	Pole	7		Beech			High	< 5 feet	Seeding
Red Maple		8	Log/Pole/XLog	13		Ironwood			High	< 5 feet	Seeding
Beech		5	Log	15		Yellow Birch			Trace	>20 feet	Sapling
Yellow Birch		3	Log/Pole	12		White Ash			Low	Variable	Sapling
						Striped Maple			Trace	10 - 20 feet	Sapling
						Blackberry/Raspberry			Medium	< 5 feet	Tall Shrub
						Balsam Fir		Trace	Variable	Sapling	
65	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	57.9	94	51-80	N/A	WET even in January. Diameters and merchantability increase as you move east. Smaller poles/saps mixed with lowland shrubs to the west and transitions into a scattered log tamarack stand with a poorly developed understory in areas particularly to the south. Mostly dominated with dead elm saps, black ash and tag alder. Blowdown is present throughout stand. Mortality within larger tamarack is present.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		15	Pole	6	30	Tag Alder		High	5 - 10 feet	Tall Shrub	
Black Spruce		15	Pole/Log/Sap	7		Black Ash		High	Variable	Sapling	
Northern White Cedar		5	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling	
Tamarack		35	Log/Pole	10	94	Black Spruce		Low	5 - 10 feet	Sapling	
Balsam Poplar		10	Log/Pole	12		Michigan Holly		Low	5 - 10 feet	Tall Shrub	
American Elm		5	Pole/Sapling	6		Labrador Tea		Low	< 5 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

67 6120 - Lowland Cedar Poletimber Well 11.7 94 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Pole	6	
Black Spruce	10	Pole	4	
Northern White Cedar	50	Pole/Log	9	94
Tamarack	5	Log	10	
Balsam Poplar	5	Pole	7	
Paper Birch	5	Pole	6	
Red Maple	5	Pole/Log	6	
Quaking Aspen	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	Trace	5 - 10 feet	Tall Shrub
Black Ash	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Black Spruce	Low	5 - 10 feet	Sapling

Flowing stream in the northern portion of the stand. Nice river type corridor with cedar. Steep hill going up to stand 33. Rest of stand contains lowland mix with pockets higher to tag alder and birch. Merchantable timber but with standing water in most areas.

68 6112 - Lowland Aspen Poletimber Well 16.9 46 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	35	Pole/Log	8	46
Balsam Poplar	35	Pole/Log	8	46
Balsam Fir	10	Pole/Log	8	
Northern White Cedar	10	Pole/Log	8	
Red Maple	3	Pole	6	
American Elm	2	Pole	5	
Paper Birch	3	Pole/Sapling	5	
White Pine	1	Log	17	
Hemlock	1	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	Trace	< 5 feet	Seeding
Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	Medium	10 - 20 feet	Sapling
Black Ash	Medium	< 5 feet	Seeding

Lowland Aspen final harvested in 74 removing all logs. Cut was described as a "Cut and Release." Currently, the majority of the standing poplar is healthy, mostly small logs/large pulp with pockets of unmerchantable Fir, cedar and red maple underneath. There are upland pockets near the road with Red Oak, Sugar Maple as well as overmature Basswood. Quaking Aspen is dominant in the east portion with Balsam taking over transitioning to the west. Standing, as well as gradually flowing water were found throughout.

69 4110 - Sugar Maple Association Sawtimber Well 4.2 83 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	62	Log/Pole	11	83
Basswood	32	Log/Pole/XLog	13	
Beech	3	Log/Pole	12	
Red Maple	3	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	10 - 20 feet	Sapling
Ironwood	High	10 - 20 feet	Sapling
Sugar Maple	Medium	Variable	Sapling
Hemlock	Low	>20 feet	Pole
White Ash	Low	< 5 feet	Seeding
Beech	Medium	< 5 feet	Seeding
Ironwood	Medium	< 5 feet	Seeding
Balsam Fir	Trace	Variable	Sapling

May of read the map/sale wrong, but I believe aspen was removed in this stand during '93-'95 'Bear River Rd Aspen' sale? Didn't see any interior aspen regen whips however, only present on perimeter w/Stand 26. Think I saw evidence of past harvest (some scuff scars on lower bole on a few stems, might be from dead ash falling out)? Generally lower BA (80-110ish) unless swinging near multi-stem BW. Some larger stems present, small clump of Hem/BF on NW boundary. Saddle depression just beyond north bound too.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
70	6111 - Lowland Balsam Poplar	Sawtimber Poor	50.1	75	1-50	N/A	Portions of this stand were harvested in 1983. Increasing water table seems to have took it's toll on the regenerating stand. Scattered aspen, conifer logs with majority alder, black ash, holly and elderberry on higher inclusions. Birch, fir and spruce saplings scattered in pockets. Older standing BAM ~ 75 years old with little regeneration of new age cohort of 37 years. Wet. With mortality in older BAM, the stand may be leading towards a lowland shrub type stand.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Poplar</td> <td>50</td> <td>Log</td> <td>12</td> <td>75</td> </tr> <tr> <td>Black Spruce</td> <td>25</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>15</td> <td>Pole/Sapling</td> <td>6</td> <td>37</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Balsam Poplar	50	Log	12	75	Black Spruce	25	Pole/Log	9		Paper Birch	15	Pole/Sapling	6	37	Balsam Fir	10	Pole	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Full</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Ash</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Michigan Holly</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Paper Birch	Medium	10 - 20 feet	Sapling	Balsam Fir	High	5 - 10 feet	Sapling	Tag Alder	Full	5 - 10 feet	Tall Shrub	Black Ash	Medium	10 - 20 feet	Sapling	Red Maple	Low	5 - 10 feet	Sapling	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Balsam Poplar	50	Log	12	75																																																					
Black Spruce	25	Pole/Log	9																																																						
Paper Birch	15	Pole/Sapling	6	37																																																					
Balsam Fir	10	Pole	6																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Paper Birch	Medium	10 - 20 feet	Sapling																																																						
Balsam Fir	High	5 - 10 feet	Sapling																																																						
Tag Alder	Full	5 - 10 feet	Tall Shrub																																																						
Black Ash	Medium	10 - 20 feet	Sapling																																																						
Red Maple	Low	5 - 10 feet	Sapling																																																						
Michigan Holly	Medium	5 - 10 feet	Tall Shrub																																																						
71	500 - Water	Nonstocked	14.2	0	Unspecified	No	Main branch of the Spring Brook stream. Splits into the North and South Branch at Spring Brook Rd. Tributary of the Bear River.																																																		
72	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	15.2	99	1-50	N/A	Situated between the two branches of Spring brook. Deciduous component falling out besides birch and some balsam poplar logs. Scattered patches of red maple and poplar saplings but not significant. Transitions into conifer dominated in the south. Very wet. Most cedar found within the river corridor. Plenty of tag alder in lower canopy. Seems to be more of an uneven aged stand with the older age class falling out.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>20</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>20</td> <td>Log</td> <td>12</td> <td>45</td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Log/Pole</td> <td>10</td> <td>92</td> </tr> <tr> <td>Northern White Cedar</td> <td>25</td> <td>Pole/Sap/Log</td> <td>6</td> <td>99</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Paper Birch	20	Pole	5		Balsam Poplar	20	Log	12	45	Black Spruce	20	Log/Pole	10	92	Northern White Cedar	25	Pole/Sap/Log	6	99	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High	5 - 10 feet	Tall Shrub	Balsam Fir	Medium	Variable	Sapling	Black Spruce	Low	5 - 10 feet	Sapling	Paper Birch	Low	5 - 10 feet	Sapling								
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Paper Birch	20	Pole	5																																																						
Balsam Poplar	20	Log	12	45																																																					
Black Spruce	20	Log/Pole	10	92																																																					
Northern White Cedar	25	Pole/Sap/Log	6	99																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Tag Alder	High	5 - 10 feet	Tall Shrub																																																						
Balsam Fir	Medium	Variable	Sapling																																																						
Black Spruce	Low	5 - 10 feet	Sapling																																																						
Paper Birch	Low	5 - 10 feet	Sapling																																																						
73	622 - Lowland Shrub	Nonstocked	122.5	0	Unspecified	No	Wasn't able to hike to, so observed from north end (PVT) off Bear River Rd. Saw a lot of dead pole/some log Blk.Ash. Vegetation less than 20ft, observed black ash saps, tag alder, some BAM, and scattered conifer. Tree species greater than 20ft, could see living/dead cedar, larch, etc.. Sure some areas forested, some lowland shrub and areas a mix of both. Kubitskey: Far south portions of stand (adjacent to stand 10) seem fairly consistent as far as stocking and composition. Some "drier" pockets containing more pole sized spruce/fir/dying cedar. Overall mostly black																																																		
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Ash</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>High</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Cattail spp.</td> <td>Medium</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>Red Osier Dogwood</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Ash		High	10 - 20 feet	Sapling	Tag Alder	High	10 - 20 feet	Tall Shrub	Cattail spp.	Medium	Unspecified	Non-Wood	Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Black Ash	High	10 - 20 feet	Sapling																																																						
Tag Alder	High	10 - 20 feet	Tall Shrub																																																						
Cattail spp.	Medium	Unspecified	Non-Wood																																																						
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub																																																						
74	4139 - Aspen, Mixed Deciduous	Sapling Well	34.1	24	1-50	N/A	Clearcut '93-'95, w/Stds 19, 23 & 26, 'Bear River Road Aspen'. Mix of M3 dominated and A3 (some 6) dominated. Appeared to be enough A-type to make it the winner. A lot of BE, IW (couldn't fit IW in as a canopy species) and Blk Cherry saps. Some areas w/more maple (Hard&Soft). North end of east polygon (near D.Bike Trl) has converted to small pole. Most aspen will likely convert to small pole by next entry. Good Blk Chrry regen in areas.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>8</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>45</td> <td>Sapling/Pole</td> <td>4</td> <td>24</td> </tr> <tr> <td>Black Cherry</td> <td>15</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Beech</td> <td>20</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>12</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	8	Sapling	2		Bigtooth Aspen	45	Sapling/Pole	4	24	Black Cherry	15	Sapling/Pole	3		Beech	20	Sapling	3		Red Maple	12	Sapling/Pole	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Ironwood</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	High	Variable	Sapling															
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Sugar Maple	8	Sapling	2																																																						
Bigtooth Aspen	45	Sapling/Pole	4	24																																																					
Black Cherry	15	Sapling/Pole	3																																																						
Beech	20	Sapling	3																																																						
Red Maple	12	Sapling/Pole	3																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Ironwood	High	Variable	Sapling																																																						
75	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No	Appears to of been used as a landing location. Also has appearance of being an old homestead clearing (apple tree(s)). Knapweed and grass. An old worn-out berm blocks the skid-trail/forest rd that travels south of this opening.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																				
76	310 - Herbaceous Openland	Nonstocked	0.6		Unspecified	No	Split this off of Stand 51. This area is still an opening and hasn't yet been reclaimed. Knapweed and grass with scat trees (walnut, maple, cherry, apple, etc) along edges.																																																																																				
77	3102 - Grass	Nonstocked	1.3	0	Unspecified	No	Grassy with some edge associates from Stand 36 and a few Blk Cherry.																																																																																				
79	310 - Herbaceous Openland	Nonstocked	1.2	0	Unspecified	No	Very likely the landing location when Stand 26 was harvested in the mid-90's. Clumps and scattered saplings (aspen, maple, etc), grass, and knapweed.																																																																																				
80	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.3	91	81-110	N/A	South facing aspect. This was cut in 2005 apart of Cormorant Mix (52-023-02) removing all merchantable aspen. There is a pocket in the center of the stand that contains large pole sized sugar maples that they seemed to try and release with the past harvest. The other parts of the stand contain large pole basswoods clumps, a small pocket of oversized/overmature aspen, and intermixed pole sized sugar maples. Natural canopy gaps due to beech mortality. Super canopy Oak seem very healthy.																																																																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>30</td> <td>Pole/Log</td> <td>8</td> <td>75</td> </tr> <tr> <td>Basswood</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Beech</td> <td>4</td> <td>Pole/Log/XLog</td> <td>9</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>45</td> <td>Log/XLog/Pole</td> <td>16</td> <td>91</td> </tr> <tr> <td>Hemlock</td> <td>1</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Log</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	30	Pole/Log	8	75	Basswood	15	Pole/Log	9		Beech	4	Pole/Log/XLog	9		Red Oak	45	Log/XLog/Pole	16	91	Hemlock	1	Log/Pole	12		Bigtooth Aspen	5	Log	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Ash</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Bigtooth Aspen	Medium	5 - 10 feet	Sapling	Ironwood	Medium	5 - 10 feet	Sapling	Sugar Maple	Low	5 - 10 feet	Sapling	Red Oak	Low	< 5 feet	Seeding	Black Cherry	Medium	5 - 10 feet	Sapling	White Ash	Medium	< 5 feet	Seeding																								
Canopy Species	% Cover	Size Class	DBH	Age																																																																																							
Sugar Maple	30	Pole/Log	8	75																																																																																							
Basswood	15	Pole/Log	9																																																																																								
Beech	4	Pole/Log/XLog	9																																																																																								
Red Oak	45	Log/XLog/Pole	16	91																																																																																							
Hemlock	1	Log/Pole	12																																																																																								
Bigtooth Aspen	5	Log	15																																																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																																																								
Bigtooth Aspen	Medium	5 - 10 feet	Sapling																																																																																								
Ironwood	Medium	5 - 10 feet	Sapling																																																																																								
Sugar Maple	Low	5 - 10 feet	Sapling																																																																																								
Red Oak	Low	< 5 feet	Seeding																																																																																								
Black Cherry	Medium	5 - 10 feet	Sapling																																																																																								
White Ash	Medium	< 5 feet	Seeding																																																																																								
81	122 - Road/Parking Lot	Nonstocked	6.5	0	Unspecified	No	River Rd corridor.																																																																																				
83	4319 - Mixed Upland Forest	Sawtimber Well	1.0	75	111-140	N/A	Sandwiched between River Rd and the active railroad. Some very dense areas, then others not so much. A lot of BF occupying the canopy as well as clonal QA in areas. A lot of different species nested within a small area. This stand basically continues east across River Rd into Stand 1.																																																																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>7</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Basswood</td> <td>3</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>2</td> <td>Log</td> <td>11</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>XLog/Log/Pole</td> <td>18</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>40</td> <td>Pole/Log</td> <td>8</td> <td>75</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>2</td> <td>Log/XLog</td> <td>17</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>4</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	7	Log/Pole	11		Basswood	3	Pole/Log	8		Tamarack	2	Log	11		Quaking Aspen	30	Log/Pole	14		White Pine	5	XLog/Log/Pole	18		Balsam Fir	40	Pole/Log	8	75	Black Cherry	5	Pole	9		Red Oak	2	Log/XLog	17		Paper Birch	4	Pole	8		Red Maple	2	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Ash</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>American Elm</td> <td>Trace</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Ash	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	White Pine	Medium	Variable	Sapling	Sugar Maple	Low	Variable	Sapling	Black Cherry	Low	Variable	Sapling	Ironwood	Medium	Variable	Sapling	American Elm	Trace	>20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																																							
Sugar Maple	7	Log/Pole	11																																																																																								
Basswood	3	Pole/Log	8																																																																																								
Tamarack	2	Log	11																																																																																								
Quaking Aspen	30	Log/Pole	14																																																																																								
White Pine	5	XLog/Log/Pole	18																																																																																								
Balsam Fir	40	Pole/Log	8	75																																																																																							
Black Cherry	5	Pole	9																																																																																								
Red Oak	2	Log/XLog	17																																																																																								
Paper Birch	4	Pole	8																																																																																								
Red Maple	2	Pole/Log	8																																																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																																																								
Black Ash	Medium	Variable	Sapling																																																																																								
Balsam Fir	Medium	Variable	Sapling																																																																																								
White Pine	Medium	Variable	Sapling																																																																																								
Sugar Maple	Low	Variable	Sapling																																																																																								
Black Cherry	Low	Variable	Sapling																																																																																								
Ironwood	Medium	Variable	Sapling																																																																																								
American Elm	Trace	>20 feet	Sapling																																																																																								
85	122 - Road/Parking Lot	Nonstocked	3.5	0	Unspecified	No	Springvale Road.																																																																																				
86	123 - Other High Intensity Urban	Nonstocked	0.7	0	Unspecified	No	Powerline corridor.																																																																																				
87	310 - Herbaceous Openland	Nonstocked	1.4	0	Unspecified	No	Some scattered black cherry, shrubby white pine and quaking aspen saps .																																																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

88 122 - Road/Parking Lot Nonstocked 4.8 0 Unspecified No Springvale Road ROW

89 4130 - Aspen Sapling Well 4.7 16 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Log/Pole	14	82
Black Cherry	8	Pole/Log/Sap	8	
Balsam Fir	6	Pole/Sap/Log	6	
Quaking Aspen	40	Sapling/Pole	4	16
Bigtooth Aspen	30	Sapling/Pole	4	16
Sugar Maple	3	Log/Pole	12	
White Pine	3	Log/Pole/XLog	14	
Basswood	2	Log/Pole	14	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	10 - 20 feet	Sapling
Ironwood	Low	5 - 10 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	Variable	Sapling

Cormorant Mix PU3, cut '04, cut merch aspen, fir and spruce. Kept this poly separate from Std.13 to west, both were PU3 of Cormorant. This stand has far fewer residual stems than Std.13 and is mostly dominated by aspen saps. Fir 'fence posts' the powerline corridor. Some aspen saps extend beyond the northern boundary of this stand.

91 6129 - Mixed Coniferous Lowland Forest Poletimber Well 21.9 94 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	8	Pole/Sapling	7	
Black Spruce	8	Pole/Log	8	
Northern White Cedar	33	Pole/Log	9	
Tamarack	38	Log/Pole/XLog	10	94
White Pine	6	Log/XLog	17	
Quaking Aspen	3	Log/XLog/Pole	17	
Red Maple	2	Pole	8	
Paper Birch	2	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Northern White Cedar	Medium	Variable	Sapling
Tamarack	Low	Variable	Sapling
Red Osier Dogwood	Low	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	Medium	10 - 20 feet	Sapling
Cattail spp.	Low	Unspecified	Non-Wood
Black Spruce	Low	< 5 feet	Seeding
Northern White Cedar	Low	< 5 feet	Seeding
Tamarack	Trace	< 5 feet	Seeding

Tighter canopy closure than neighboring stands. S1/2 pole w/log and heavier to Larch/other mixed conifer, wet. Center thicker with saps and scattered poles, wetter, likely a past area of blowdown. N1/2 log/pole with some large log/xlog larch, highest BA, holds majority of NWC/merch BF too. Standing snags (QA, Larch, some WP) in north. Limited amount of QA (some BAM) is snagged out/or will be soon. Tag density high in areas. DBH and stocking density appear bigger/higher along road and railroad corridor than interior conditions actually are.