DNR MICHIGAN

Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52114
Entry Year 2018
Acreage: 879
County Emmet

Management Area: Emmet Moraines

Revision Date: 2016-05-13

Stand Examiner: Donald Stacks

Legal Description:

T35N R05W, Sections 1 - 3, 10, 11.

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:

Blue Lakes sands on mostly hilly terrain. Some very steep slopes are present.

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

The surrounding area is highly developed with commercial businesses and private residential homes.

Unique Natural Features:

English sundew, Blunt-lobed woodsia, and Small round-leaved orchis have been observed.

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

The area around the compartment is very highly developed.

Watershed and Fisheries Considerations:

A small portion of this compartment is in the Central Lake Michigan Fisheries Management Unit. Best management practices should be followed to prevent erosion and sedimentation to any intermittent drainages.

Wildlife Habitat Considerations:

Featured species in this compartment are turkey, deer, and some grouse areas. It is dominated by hardwoods with Beach Bark Disease and Emerald Ash Borer. Future management could include planting other tree and shrub species to increase diversity for wildlife.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till, glacial outwash sand and gravel, and postglacial alluvium. The glacial drift thickness varies between 200 and 1,000 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is quarried for cement products and limestone elsewhere in the state. Former sand/gravel pits may be located in sections 10 and 11. The nearest active production is more than three miles to the southeast. Sand and gravel potential is good within the compartment. The nearest oil and gas production, the Antrim Shale gas play, is located 20 miles to the south. State land in the compartment was recently leased as part of the Collingwood Shale play. To date, there has been limited production from the Collingwood (none near this area) and it is still an unproven play. Interest in the formation has waned and all leases in the area have expired.

Vehicle Access:

Numerous county roads, seasonal county roads, and forest trail roads run through, and adjacent to the compartment.

Survey Needs:

Most survey corners are present

Recreational Facilities and Opportunities:

A designated snowmobile trail and the North Country Pathway exist within the compartment.

Fire Protection:

Harbor Springs VFD is located about six miles to the west of the compartment. Pellston Field Office is located about 13 miles to the north for fire response.

Additional Compartment Information:

Beech Bark Disease and Emerald Ash Borer are impacting all northern hardwood stands within the compartment and are a major consideration for current treatment plans. Because of this forest health issue, some of the treatments have been moved up to 2017 entry year.

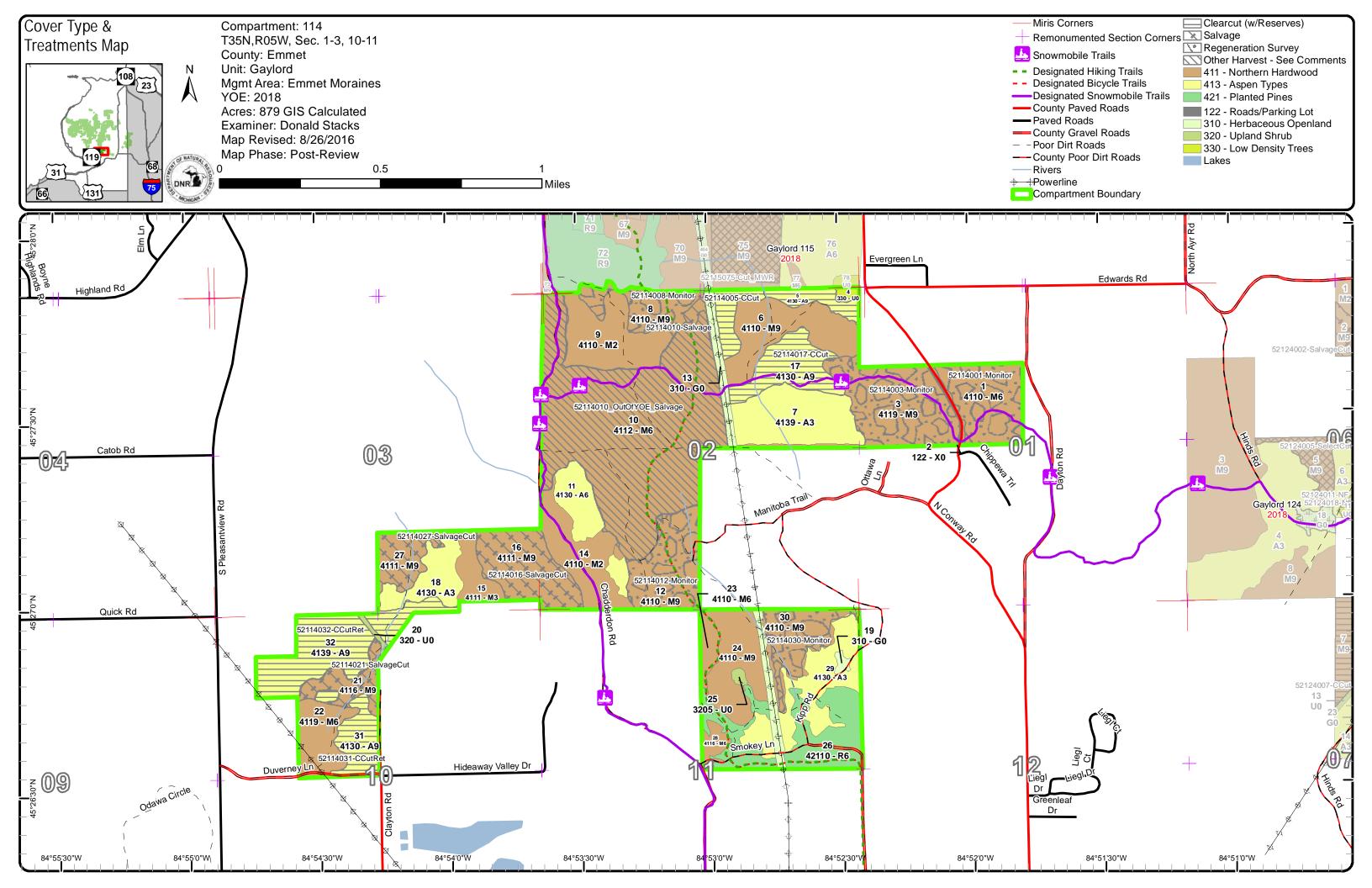
The following reports from the Inventory are attached:

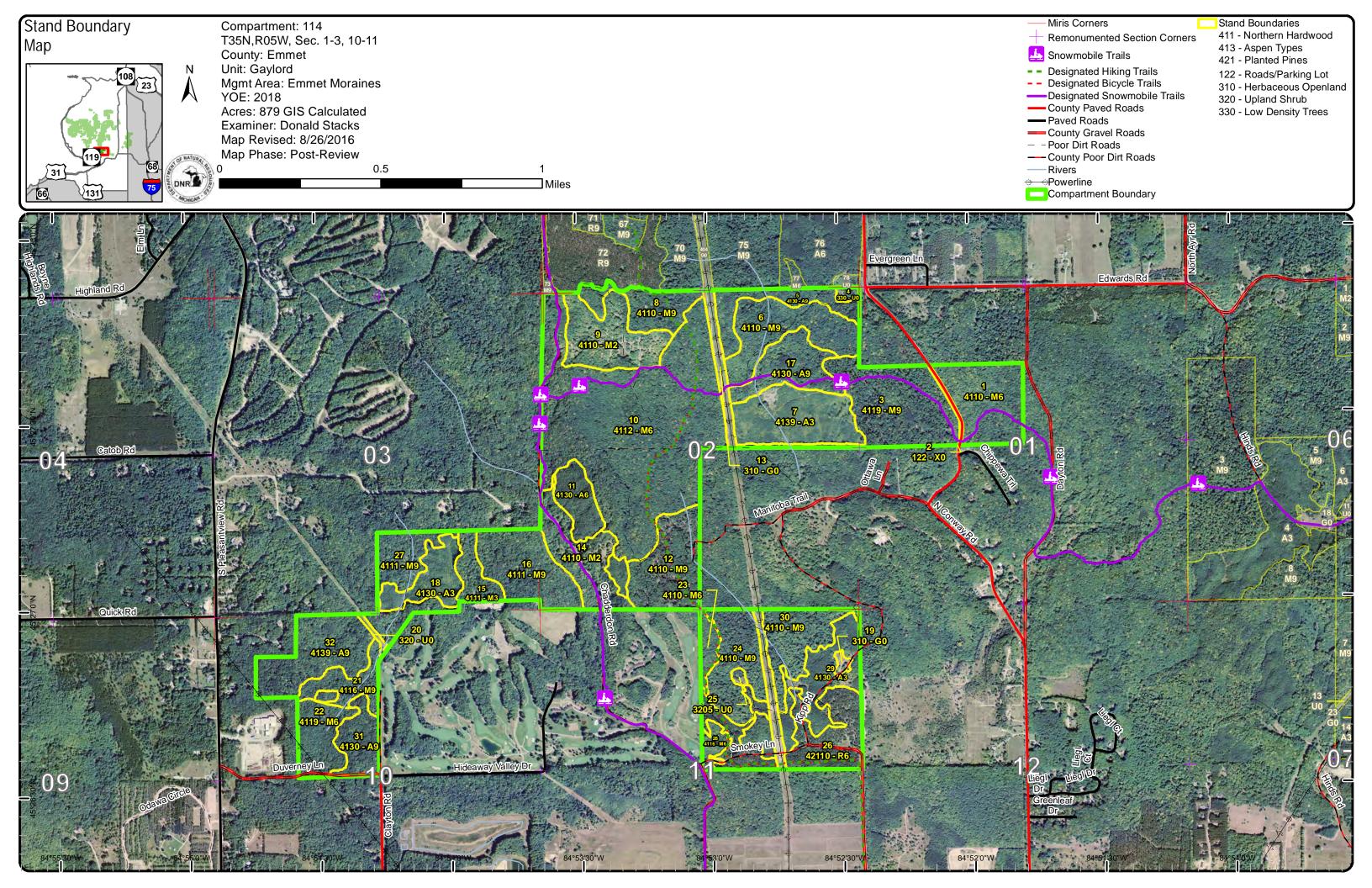
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

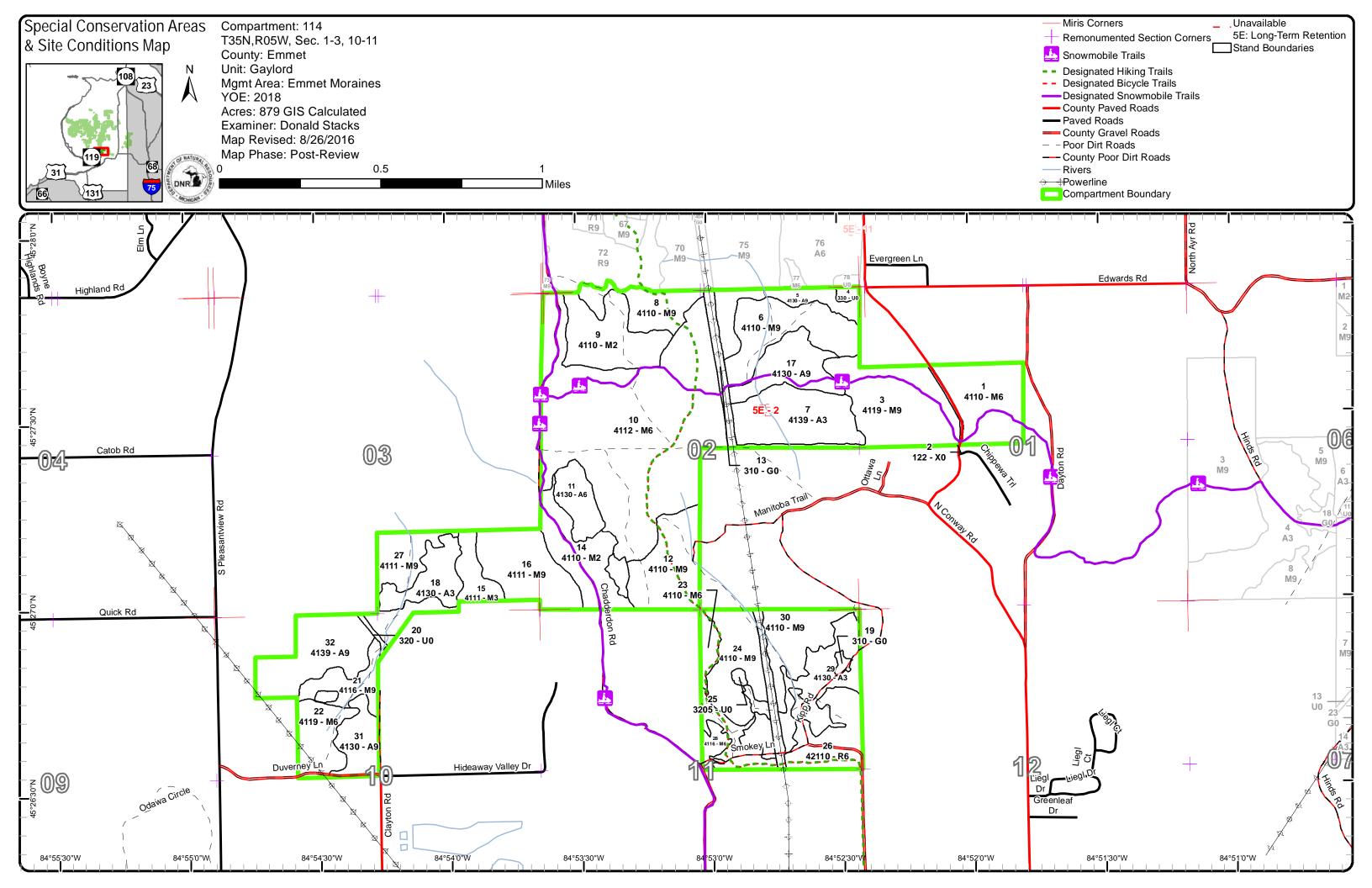
The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers

Proposed treatments
Site condition boundaries
Details on the road access system







Donald Stacks : Examiner

Gaylord Mgt. Unit





Age Class

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Aspen	0	59	0	34	19	0	0	0	44	65	0	0	0	0	0	0	0	0	220	ĺ
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Northern Hardwood	0	0	0	0	76	0	0	6	35	256	0	0	0	0	0	0	0	218	591	
Red Pine	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	44	
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Total	26	59	0	34	95	0	45	6	79	321	0	0	0	0	0	0	0	218	881	1



Report 2 – Treatment Summary

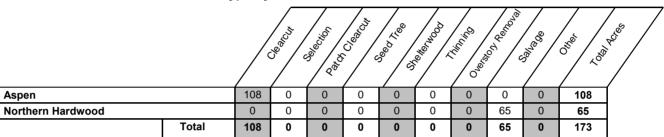
Gaylord Mgt. Unit Year of Entry: 2018

Acres of Harvest

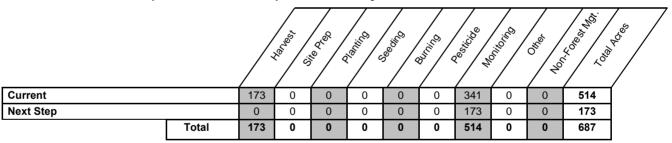
Compartment 114
Total Compartment Acres: 879

Commercial Harvest - 173 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Gaylord Mgt. Unit Report 3 -- Treatments Compartment: 114 s Year of Entry: 2018 t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age **Approval** n Method Objective Name CoverType Density Age Range Type Structure **Status** d Natural Regen 1 52114001-34.4 4110 - Sugar Maple Poletimber 4110 - Sugar Even-Aged Field Boundary 81 51-80 Monitoring Monitor Association Well (Intermediate) Maple Association **Habitat Cut: No Site Condition:** Prescription Monitor hardwood regen. Specs: Next Step Treatments: Acceptable A mix of northern hardwood species. Regen: Other Percent to Treat = 100% Comment: **Proposed Start Date:** 10/01/2020 51.3 Field Boundary 3 52114003-4119 - Mixed Sawtimber 82 81-110 Natural Regen 411 - Northern Uneven-Monitoring Northern Hardwoods Well (Re-Inventory) Hardwood Aged Monitor **Habitat Cut: No Site Condition:** Prescription Monitor regen. Specs: Next Step Treatments: Acceptable Mixed northern hardwood species. Regen: Other Comment: **Proposed Start Date:** 10/01/2017 76 5 52114005-18.6 4130 - Aspen Sawtimber 111-Harvest Clearcut 413 - Aspen Even-Aged Draft Field Well 140 Boundary **CCut Habitat Cut: No Site Condition:** Prescription Final harvest everything 2" and larger at DBH except incidental hemlock, white pine, and oak. No un-harvested retention islands will be left Specs: because of the relatively small stand acreage. Mark and leave intact about 3 - 5 trees to serve as grouse drumming logs. Monitoring, Natural Regen (Re-Inventory) Next Step Treatments: Acceptable A mix of aspen/northern hardwoods will be acceptable regen. Regen: Other Comment: **Proposed Start Date:** 10/01/2017 8 52114008-20.1 4110 - Sugar Maple Sawtimber 1-50 Monitoring Natural Regen 411 - Northern Uneven-Field Boundary Monitor Association Well (Intermediate) Hardwood Aged **Habitat Cut: No** Site Condition: Prescription Monitor hardwood regen, especially beech. Possible treatments to discourage excessive beech regen may be needed.

Proposed Start Date:

Specs:

Next Step

Treatments:

Regen:
Other
Comment:

10/01/2020

Acceptable A mix of northern hardwood.

Treatments:

ACCEPTABLE A MIX OF HARDWOOD SPECIES. EXCESSIVE BEECH/ASH REGEN MAY REQUIRE SOME KIND OF FUTURE TREATMENT.

Regen:

Other Comment:

Proposed Start Date: 10/01/2025

52114012-35.2 4110 - Sugar Maple Sawtimber Natural Regen Field Boundary 12 91 51-80 411 - Northern Uneven-Monitoring Association (Intermediate) Hardwood Aged Monitor

Habitat Cut: No Site Condition:

Prescription Monitor northern hardwood regen, especially beech. Possible treatments to discourage excessive beech regen may be needed.

Specs:

Next Step Treatments:

Acceptable A mix of northern hardwood species.

Regen:

Other Comment:

Proposed Start Date: 10/01/2019

4116 - Mixed N. 16 52114016-35.0 4111 - S.Maple, Sawtimber 91 111-Harvest Salvage Uneven-Field Hard Mast Well 140 Hardwood -Boundary -Aged SalvageCut Association Ready for Aspen VMS

Habitat Cut: No Site Condition:

Prescription SALVAGE ASH/BEECH ASAP, OUT OF YOE. MOVE TREATMENT UP TO 2017 ENTRY YEAR. CUT ALL BTA. ALSO MARK TO RELEASE SUGAR MAPLE CROP TREES WHERE NEEDED. POST-HARVEST BA WILL BE LOWER IN AREAS OF DENSE ASH/BEECH. ACCESS Specs:

WILL HAVE TO BE GAINED FROM THE WEST THROUGH THE A3 STAND USING SKID ROADS FROM THAT TIMBERSALE. TERRAIN

WILL MAKE HARVESTING DIFFICULT IN PLACES. HARVEST WITH STAND 27 TO THE WEST.

Monitoring, Natural Regen (Intermediate) Next Step

Treatments:

Acceptable A mix of northern hardwood and BTA.

Regen:

Other MONITOR BEECH REGEN CLOSELY. POSSIBLE TREATMENTS TO DISCOURAGE EXCESSIVE BEECH REGEN MAY BE NEEDED.

Comment:

10/01/2016 **Proposed Start Date:**

Compartment: 114 Year of Entry: 2018

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n	

Treatment Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age **Approval** Method Objective d Name CoverType Density Age Range Type Structure **Status** 17 52114017-24.9 Sawtimber 76 Clearcut 413 - Aspen Draft Field 4130 - Aspen 111-Harvest Even-Aged **CCut** Well 140 Boundary

Habitat Cut: No Site Condition:

Specs:

Prescription Final harvest everything 2" and larger at DBH except incidental hemlock, white pine, and oak. No un-harvested retention islands will be left because of the relatively small stand acreage. Mark and leave intact about 3 - 5 trees to serve as grouse drumming logs. Snowmobile trail will not be used for any harvest activities during the active snowmobile season. Post logging activity sigs on snowmobile trail during harvest. If the snowmobile trail is used for skidding or hauling during the non-winter months, the trail must be maintained on a regular basis and suitable for grooming by December 1. Stumps should be cut flush with the ground for trees harvested within 10' of the designated snowmobile trail.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of aspen and northern hardwood.

Regen:

Other Comment:

10/01/2017 **Proposed Start Date:**

13.7

4116 - Mixed N. 76 81-110 Draft Field 52114021-Sawtimber 4116 - Mixed N. Even-Aged Harvest Salvage SalvageCut Hardwood - Aspen Hardwood Boundary Aspen

Habitat Cut: No Site Condition:

Prescription CUT ALL ASH AND BEECH, EXCEPT THOSE MARKED WITH A GREEN BAND OF PAINT. ALSO CUT ALL BIGTOOTH ASPEN.

PRESCRIBED FOR 2017 ENTRY YEAR. Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A mix of northern hardwood and aspen.

Regen:

Other ASH/BEECH SALVAGE IS PRESCRIBED FOR 2017 ENTRY YEAR. SALVAGE HARVEST WILL RESULT IN A SIGNIFICANTLY LOWER POST-HARVEST BA. MONITOR REGEN AFTER HARVEST. POST-HARVEST TREATMENTS TO DISCOURAGE EXCESSIVE BEECH Comment:

REGEN MAY BE NEEDED. INFORM THE LOCAL RESIDENTS AS TO THE NEED FOR THE TIMBER HARVEST IN THIS DEVELOPED

ARFA

Proposed Start Date: 10/01/2016

27 52114027-4111 - S.Maple, Sawtimber 91 111-Harvest Salvage 4116 - Mixed N. Uneven-Field Hard Mast Well 140 Hardwood -Boundary -Aged SalvageCut Association Aspen Ready for VMS

Habitat Cut: No Site Condition:

Prescription SALVAGE ASH/BEECH ASAP, OUT OF YOE. HARVEST IN 2017 ENTRY YEAR. CUT ALL BTA. ALSO MARK TO RELEASE SUGAR MAPLE CROP TREES WHERE NEEDED. POST-HARVEST BA WILL BE LOWER IN AREAS OF DENSE ASH/BEECH. TERRAIN WILL Specs:

MAKE HARVESTING DIFFICULT IN PLACES. HARVEST WITH STAND 16 TO THE EAST.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A mix of northern hardwood and BTA

Regen:

MONITOR BEECH REGEN CLOSELY AFTER HARVEST. POSSIBLE TREATMENTS TO DISCOURAGE EXCESSIVE BEECH REGEN MAY Other

BE NEEDED. Comment:

Proposed Start Date: 10/01/2016

Gaylord Mgt. Unit Report 3 -- Treatments Compartment: 114 s Year of Entry: 2018 t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age **Approval** n Method Objective Name CoverType Density Age Range Type Structure Status d Natural Regen 30 52114030-22.1 4110 - Sugar Maple Sawtimber 91 4110 - Sugar Even-Aged Field Boundary 51-80 Monitoring Monitor Association Well (Intermediate) Maple Association **Habitat Cut: No Site Condition:** Prescription Monitor hardwood regen. Specs: Next Step Treatments: Acceptable A mix of northern hardwood species. Regen: Other Percent to Treat = 100% Comment **Proposed Start Date:** 10/01/2020 81 Draft Field 31 17.9 Sawtimber 141-Clearcut with 4139 - Aspen, 52114031-4130 - Aspen Harvest Even-Aged Well 170 Retention Mixed Boundary **CCutRet** Deciduous **Habitat Cut: No Site Condition:**

Prescription MANAGE STAND FOR ASPEN. FINAL HARVEST IN 2017 YOE BECAUSE OF THE DETERIORATING CONDITION OF THE BIG-TOOTHED Specs: ASPEN, BEECH, AND WHITE ASH, CUT ALL TREES 2" AND LARGER AT DBH, EXCEPT INCIDENTAL HEMLOCK, WHITE PINE, OAK, AND BLACK CHERRY. NO UN-HARVESTED RETENTION ISLANDS WILL BE LEFT BECAUSE OF SMALL SALE ACREAGE AND DECLINING

CONDITION OF ASPEN AND BEECH. NO SEASONAL CUTTING RESTRICITIONS WILL NEED TO BE APPLIED. HARVEST STAND 32 TO

THE NORTH WITH THIS STAND.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable BIG-TOOTHED ASPEN AND NORTHERN HARDWOOD.

Regen:

INFORM AND EDUCATE THE LOCAL RESIDENTS AS TO THE NEED FOR THE TIMBER HARVEST IN THIS DEVELOPED AREA. Other

Comment:

Proposed Start Date: 10/01/2016

52114032-4139 - Aspen, 32 46.7 4139 - Aspen. Sawtimber 86 141-Clearcut with Draft Field Harvest Even-Aged **CCutRet** Mixed Deciduous Well 170 Retention Mixed Boundary Deciduous

Habitat Cut: No Site Condition:

Prescription MANAGE STAND FOR ASPEN. BTA SHOWING LOSS OF VIGOR. FINAL HARVEST WILL BE MOVED UP TO THE 2017 ENTRY YEAR. CUT ALL TREES 2" AND LARGER AT DBH, EXCEPT INCIDENTAL HEMLOCK, WHITE PINE, OAK, AND BLACK CHERRY. NO UN-Specs:

HARVESTED RETENTION ISLANDS WILL BE LEFT BECAUSE OF SMALLER SALE ACREAGE AND DECLINING CONDITION OF ASPEN AND BEECH. NO SEASONAL CUTTING RESTRICITIONS WILL NEED TO BE APPLIED. HARVEST STAND 31 TO THE SOUTH WITH THIS

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A MIX OF BIG-TOOTHED ASPEN AND NORTHERN HARDWOOD.

Regen:

INFORM AND EDUCATE THE PUBLIC AS TO THE NEED FOR THE TIMBER HARVEST IN THIS DEVELOPED AREA.

Other Comment:

Proposed Start Date: 10/01/2016

Total Treatment 514.0 **Acreage Proposed:**

Compartment: 114

Gaylord Mgt. Unit

Donald Stacks : Examiner Year of Entry: 2018

Availability for Management

	Total	Acres	Acres Avail	Acres		Dominar	nt Site Conditions
	Acres	Available	With Condition	Not Available		5E	
	220	219	0	1	Aspen	1	
	19	19	0	0	Herbaceous Openland		
	2	2	0	0	Low-Density Trees		
	590	590	0	0	Northern Hardwood		
	45	45	0	0	Red Pine		
	3	3	0	0	Upland Shrub		
	2	2	0	0	Urban		
	878	878		1	Total Forested Acres	1	
,		100%		0%	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 Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

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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				

Mgt. Unit Compartment:
Year of Entry

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.

Conservation Type Description
Area

ERA = Ecological Reference Area

HCVA = High Conservation Value Area

SCA = Special Conservation Area

S t	Gaylord Mgt. Unit			Report 7	Forested	Stands Compartment: 114 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	Poletimber Well	35.4	81	51-80	N. HARDWOOD STAND, MOSTLY SUGAR MAPLE AND BASSWOOD POLETIMBER WITH LESSER AMOUNTS OF SAWTIMBER PRESENT, ON ROLLING HILLS. STAND RECEIVED ASH/BEECH SALVAGE HARVEST IN 2015, RESULTING IN SLIGHTLY LOWER BA (68 SQ.FT.)AT PRESENT. TREATMENT WILL BE CLOSED WHEN BERMS ARE PUT IN PLACE IN 2016. POSSIBLE TREATMENT IN ABOUT 20 YEARS. SNOWMOBILE TRAIL RUNS THRU STAND.
3	4119 - Mixed Northern Hardwoods	Sawtimber Well	54.2	82	81-110	MIXED N. HARDWOOD SAWTIMBER, ON ROLLING HILLS, WITH STEEP SLOPES PRESENT. BA IS PRESENTLY 82SQ.FT. SNOWMOBILE TRAIL RUNS THROUGH THIS STAND. SELECTION HARVEST COMPLETED IN 2013. ASH AND BEECH WERE NOT COMPLETELY SALVAGED DURING THIS HARVEST, BUT A SIGNIFICANT AMOUNT WERE MARKED AND CUT. BEECH DECLINE AND MORTALITY EVIDENT. NOT ENOUGH HEALTHY ASH AND BEECH TO PRESCRIBE AN ADDITIONAL SALVAGE HARVEST. SUGAR MAPLE, BASSWOOD, AND YELLOW BIRCH MAKE UP MOST OF THE STAND NOW. POSSIBLE SELECTION HARVEST IN ABOUT 30 YEARS. CONTINUE TO MONITOR HARDWOOD REGEN. AREAS OF FAIRLY DENSE ASH REGEN ARE
5	4130 - Aspen	Sawtimber Well	18.6	76	111-140	Mixed stand of BTA/QA sawtimber and mixed northern hardwood poletimber. Aspen is showing signs of decline. Manage this stand for aspen, final harvest this YOE before significant aspen mortality ocurrs. Harvest this stand with stand 17 to the south.
6	4110 - Sugar Maple Association	Sawtimber Well	36.7	82	81-110	MIXED N. HARDWOOD POLETIMBER AND SMALL SAWLOGS. A FEW SCATTERED WHITE ASH, BEECH, RED MAPLE, AND BTA PRESENT. LOWER BA PRESENTLY(90SQ. FT.). LARGE AMOUNTS OF NORTHERN HARDWOOD HAVE BEEN TREATED NEAR THIS STAND IN RECENT YEARS. POSSIBLE TREATMENT IN 10 - 20 YEARS.
7	4139 - Aspen, Mixed Deciduous	Sapling Well	39.3	7	Immature	STAND CONSISTS OF FAIRLY WELL-STOCKED STAND OF BIG-TOOTHED ASPEN AND MIXED NORTHERN HARDWOOD, FROM 2010 FINAL HARVEST. A FEW AREAS OF SPARSE REGEN PRESENT WITHIN THE STAND. 100 NATIVE FRUIT-BEARING SHRUBS WERE PLANTED ON THE EAST EDGE OF THE LANDING BY RGS VOLUNTEERS ON APRIL 15, 2017.
8	4110 - Sugar Maple Association	Sawtimber Well	20.1	91	1-50	STAND CONSISTS OF N. HARDWOODS BOLTWOOD AND SAWTIMBER. A SELECTION HARVEST WAS COMPLETED IN 2015. ALSO, ALL WHITE ASH AND BEECH WERE SALVAGED DURING THIS HARVEST, RESULTING IN A LOWER BA (47 SQ.FT.) PRESENTLY. NORTH COUNTRY PATHWAY RUNS THROUGH STAND.
9	4110 - Sugar Maple Association	Sapling Medium	34.3	37	51-80	POCKETS OF DENSE HARDWOOD REGEN AND OPEN BRUSHY AREAS ON ROLLING HILLS. WILL NEED TO GROW FOR SEVERAL DECADES BEFORE IT REACHES COMMERCIAL SIZE. A FEW APPLE TREES ARE PRESENT. STAND WAS CLEARCUT IN 1980 TO SERVE AS A WINTER FOOD SOURCE FOR DEER.

s t	Gaylor	d Mgt. Unit		Report 7	Forested	Stands Compartment: 114 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
10	4112 - Maple, Beech, Cherry Association	Poletimber Well	177.7	82	51-80	STAND CONSISTS OF MOSTLY HARDWOOD POLETIMBER,MOSTLY SUGAR MAPLE, ON ROLLING TERRAIN. ASH/BEECH SALVAGE COMPLETED IN 2016. POST HARVEST BA WILL BE 60 SQ. FT. NORTH COUNTRY PATHWAY AND DESIGNATED SNOWMOBILE TRAIL RUN THROUGH STAND AND TREATMENT AREA.
11	4130 - Aspen	Poletimber Well	18.8	39	51-80	ASPEN POLETIMBER ON SW FACING SLOPE, FROM 1978 FINAL HARVEST. CONTINUE TO MANAGE THIS STAND FOR ASPEN. FINAL HARVEST IN 20 - 30 YEARS.
12	4110 - Sugar Maple Association	Sawtimber Well	35.2	91	51-80	STAND WAS SOUTH UNIT OF NUB'S HARDWOOD, WHICH WAS ORIGINALLY A SELECTION HARVEST, THEN HAD THE ASH AND BEECH SALVAGED AS WELL, EXCEPT FOR SOME AREAS LOCATED ON STEEP SLOPES. SALE WAS COMPLETED IN 2015. LOWER BA PRESENTLY(ABOUT 60 SQ. FT.). NORTH COUNTRY PATHWAY RUNS THROUGH STAND.
14	4110 - Sugar Maple Association	Sapling Medium	29.8	35	Immature	CLUMPS OF SCATTERED DENSE, YOUNG HARDWOOD REGEN ON MOSTLY OPEN, BRUSHY GROUND LOCATED ON STEEP WEST-FACING SLOPE AND PLATEAU. FAIR AMOUNT OF ORV DAMAGE PRESENT FROM YEARS OF OVER-USE RDR IS ON FILE FOR THIS STAND.
15	4111 - S.Maple, Hard Mast Association	Sapling Well	11.6	31	1-50	STAND APPEARS TO BE A FORMER UPLAND BRUSH STAND THAT HAS FILLED IN WITH ENCROACHING HARDWOOD SAPS AND SMALL POLETIMBER, MOSTLY SUGAR MAPLE. STAND HAS OLDER, SPARSE HARDWOOD POLETIMBER OVER THE MORE DENSE SAPS. STAND IS ADJACENT TO GOLF COURSE BUILDINGS FROM FORMER TRESPASS, NOW SETTLED, AFTER CLUB BOUGHT ACREAGE FROM STATE OF MICHIGAN IN 2007.
16	4111 - S.Maple, Hard Mast Association	Sawtimber Well	35.3	91	111-140	STAND CONSISTS OF N. HARDWOOD, SAWTIMBER/POLETIMBER, WITH A FEW SCATTERED LARGE B.T. ASPEN PRESENT, ON ROLLING HILLS. PRIVATE HOMES TO NORTH, GOLF COURSE TO SOUTH, CREATING DIFFICULT ACCESS. FAIRLY SIGNIFICANT ASH/BEECH COMPONENT. SOME ASH IS ALREADY DEAD. AREAS OF DENSE SUGAR MAPLE ALSO.
17	4130 - Aspen	Sawtimber Well	24.9	76	111-140	Mixed stand of BTA sawtimber and mixed northern hardwood poletimber. Aspen is showing signs of decline. Manage this stand for aspen, final harvest this YOE before significant aspen mortality ocurrs. Harvest this stand with stand 5 to the north. Designated snowmobile trail runs through this stand.
18	4130 - Aspen	Sapling Well	19.2	7	Immature	STAND CONSISTS OF A MIX OF BTA AND MIXED NORTHERN HARDWOOD REGEN FROM 2010 FINAL HARVEST. MULTIPLE STEEP SLOPES PRESENT. CLOSE TO LITTLE TRAVERSE GOLF COURSE. CONTINUE TO MANAGE STAND FOR ASPEN. FINAL HARVEST IN 40 - 50 YEARS.

S t	Gaylord	d Mgt. Unit		Report 7	– Forested	Stands Compartment: 114 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	14.6	76	81-110	STAND CONSISTS OF A MIX OF N. HARDWOOD SAWTIMBER/POLETIMBER, WITH HEAVY CONCENTRATIONS OF BEECH. ASH/BEECH SALVAGE IS PRESCRIBED FOR 2017 ENTRY YEAR. SALVAGE HARVEST WILL RESULT IN A SIGNIFICANTLY LOWER POST-HARVEST BA. INFORM AND EDUCATE THE PUBLIC AS TO THE NEED FOR THE TIMBER HARVEST IN THIS DEVELOPED AREA. MULTIPLE HOMES LOCATED TO THE NORTH AND SOUTH OF STAND ALONG DUVERNEY RD. GOLF COURSE IS LOCATED ADJACENT TO THE EAST, COUNTY TRANSFER STATION TO THE WEST. DISPOSAL OF THIS STAND, LOCATED IN SECTION 10, COULD BE ANOTHER ALTERNATIVE, ALONG WITH PARCELS LOCATED IN SECTION 3 TO THE NORTH, WHICH ARE ADJACENT TO THE GOLF COURSE AND MULTIPLE PRIVATE RESIDENCES. THERE IS ALSO EVIDENCE OF RECREATIONAL ACTIVITIES THROUGHOUT THE STAND, PROBABLY FROM NEARBY NEIGHBORS.
22	4119 - Mixed Northern Hardwoods	Poletimber Well	20.3	71	81-110	Stand consists of a mix of northern hardwood poletimber, mostly sugar maple, red maple, and basswood. Little beech and ash present. Smaller diameters and slightly lower BA presently. With the rest of the adjacent stands in need of treatment, this will be a good stand to hold untreated for about 20 years. There is also a small triangle of mixed northern hardwood and BTA poletimber, adjacent to Pleasantview and Duvernay roads, and the Emmet County transfer station. This small area is unmanageable and a candidate for possible disposal.
23	4110 - Sugar Maple Association	Poletimber Well	6.3	81	81-110	STAND IS A NARROW STRIP OF N. HARDWOOD POLETIMBER/SAWTIMBER LYING BETWEEN GOLF COURSE AND A HARDWOOD STAND THAT WAS HARVESTED IN 2003. EAST EDGE OF STAND IS BORDERED BY NORTH COUNTRY PATHWAY. SALE BOUNDARY FOR ADJACENT STAND WAS LOCATED TO PREVENT LOGGING DAMAGE TO PATHWAY AND TO ALSO ACT AS A BUFFER TO GOLF COURSE. DIAMETERS ARE ALSO SMALLER AND THE BA WAS LOWER IN THIS STAND THAN STAND 24 THAT WAS HARVESTED TO THE EAST. THIS STAND COULD BE TREATED THE NEXT TIME STAND 24 IS TREATED, LEAVE AS IS FOR NOW. MOST OF THE ASH IN THIS STAND IS DEAD OR DYING.
24	4110 - Sugar Maple Association	Sawtimber Well	29.5	91	51-80	NORTHERN HARDWOOD STAND, SELECT HARVEST COMPLETED IN 2003. SOME STEEP SLOPES. PRESENT BA IS ABOUT 83 SQ. FT. LESSER BEECH COMPONENT. MOST OF THE ASH IS DEAD OR DYING. NO SALVAGE REQUIRED. NEXT TREATMENT IN ABOUT 30 YEARS.
26	42110 - Planted Red Pine	Poletimber Well	44.5	55	81-110	RED PINE PLANTATION, MOSTLY POLETIMBER WITH SOME TREES CONVERTING INTO SMALL SAWLOGS. FIRST THINNING WAS COMPLETED 06/ 2009, AND CONSISTED OF REMOVING EVERY THIRD ROW AND MARKING TREES IN THE RESIDUAL TWO ROWS BECAUSE OF HEAVY STOCKING DENSITY, IRREGULAR ROW DIRECTION, AND TOPOGRAPHY. POST-HARVEST BA WAS SLIGHTLY LOWER, (110) BECAUSE OF THIS. POSSIBLE TREATMENT NEXT YOE.

s t	Gaylord	d Mgt. Unit		Report 7	Forested	Stands Compartment: 114 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4111 - S.Maple, Hard Mast Association	Sawtimber Well	17.1	91	111-140	STAND CONSISTS OF N. HARDWOOD, SAWTIMBER/POLETIMBER, WITH A FEW SCATTERED LARGE B.T. ASPEN PRESENT, ON ROLLING HILLS. PRIVATE HOMES TO LOCATED TO THE NORTH. FAIRLY SIGNIFICANT ASH/BEECH COMPONENT. SOME ASH IS ALREADY DEAD. AREAS OF DENSE SUGAR MAPLE ALSO.
28	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	5.5	61	1-50	SMALL STAND OF LESSER QUALITY HARDWOOD AND ASPEN ON HIGH RIDGE ADJACENT TO GOLF COURSE. LESSER STOCKED, BA IS 47 SQ. FT. NOT PRACTICAL TO HARVEST. MANAGE THIS STAND FOR HARDWOOD. LET ASPEN FALL OUT.
29	4130 - Aspen	Sapling Well	34.3	28	Immature	STAND CONSISTS OF A MIX OF ASPEN/N. HARDWOOD REGEN FROM 1989 FINAL HARVEST. DECENT QUALITY. CONTINUE TO MANAGE STAND WITH AN ASPEN MO. FINAL HARVEST AGAIN IN ABOUT 20 - 30 YEARS.
30	4110 - Sugar Maple Association	Sawtimber Well	26.1	91	51-80	N. HARDWOOD STAND ON ROLLING HILLS, SOME STEEP. STAND HAD A SELECTION HARVEST COMPLETED IN 2003, AND AN ASH/BEECH SALVAGE IN 2015. LOWER BA PRESENTLY (53SQ. FT.) AREAS OF DENSE HARDWOOD REGEN. SALE IS STILL OPEN PENDING BERM PLACEMENT AND CLEAN-UP. MONITOR HARDWOOD REGEN.
31	4130 - Aspen	Sawtimber Well	17.9	81	141-170	STAND CONSISTS OF MOSTLY BIG-TOOTHED ASPEN SAWTIMBER AND RED MAPLE POLETIMBER/SAWLOGS. LESSER AMOUNTS OF BEECH AND SUGAR MAPLE POLETIMBER/SAWLOOGS PRESENT. ASPEN IS SHOWING SIGNS OF DECLINE AND LOSS OF VIGOR. MULTIPLE HOMES ADJACENT TO SOUTH EDGE OF STAND ALONG DUVERNEY RD. GOLF COURSE IS LOCATED ADJACENT TO THE EAST. DISPOSAL OF THIS STAND, LOCATED IN SECTION 10, COULD BE ANOTHER ALTERNATIVE, ALONG WITH PARCELS LOCATED IN SECTION 3 TO THE NORTH, WHICH ARE ADJACENT TO THE GOLF COURSE AND MULTIPLE PRIVATE RESIDENCES. THERE IS ALSO EVIDENCE OF RECREATIONAL ACTIVITIES THROUGHOUT THE STAND, PROBABLY FROM NEARBY NEIGHBORS.
32	4139 - Aspen, Mixed Deciduous	Sawtimber Well	46.7	86	141-170	STAND CONSISTS OF A MIX OF LARGE, MATURE BIGTOTHED ASPEN SAWTIMBER AND N. HARDWOOD SAWTIMBER/POLETIMBER. MULTIPLE HOMES ADJACENT TO NORTH OF STAND. GOLF COURSE IS LOCATED ADJACENT TO THE EAST. DISPOSAL OF THIS STAND, LOCATED IN SECTION 10, COULD BE ANOTHER ALTERNATIVE, ALONG WITH PARCELS LOCATED IN SECTION 3 TO THE NORTH, WHICH ARE ADJACENT TO THE GOLF COURSE AND MULTIPLE PRIVATE RESIDENCES. THERE IS ALSO EVIDENCE OF RECREATIONAL ACTIVITIES THROUGHOUT THE STAND, PROBABLY FROM NEARBY NEIGHBORS.

Compartment: 114
Year of Entry: 2018



Cover Type	Acres	Managed Site	General Comments:
122 - Road/Parking Lot	1.6	No	N. CONWAY RD. R.O.W. (PAVED)
330 - Low-Density Trees	2.0	No	UPLAND BRUSH STAND WITH ONE SMALL ASPEN CLONE IN CENTER AND SCATTERED SPARSE BLACK CHERRY, RED PINE, AND SCOTCH PINE. ADJACENT TO N. CONWAY RD.
310 - Herbaceous Openland	17.0	No	UTILITY LINE R.O.W. MOSTLY GRASS WITH SCATTERED SHRUBS.
310 - Herbaceous Openland	1.6	No	SMALL GRASS OPENING SURROUNDED BY A3.
320 - Upland Shrub	1.4	No	UTILITY LINE R.O.W.
3205 - Mixed Upland Shrub	1.2	No	UPLAND SHRUB AND ENCROACHING HARDWOOD SAPS.
	122 - Road/Parking Lot 330 - Low-Density Trees 310 - Herbaceous Openland 310 - Herbaceous Openland	122 - Road/Parking Lot 1.6 330 - Low-Density Trees 2.0 310 - Herbaceous Openland 17.0 310 - Herbaceous Openland 1.6 320 - Upland Shrub 1.4	122 - Road/Parking Lot 1.6 No 330 - Low-Density Trees 2.0 No 310 - Herbaceous Openland 17.0 No 310 - Herbaceous Openland 1.6 No 320 - Upland Shrub 1.4 No