

Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52042 Entry Year 2020

Acreage: 3,065

County Charlevoix

Management Area: Chandler Hills

Revision Date: 2018-05-09

Stand Examiner: Matthew Foster

Legal Description:

T33N R04W Sections 22, 23, 24, 25, 27, 34, and 36.

Identified Planning Goals:

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

Soil and topography:

Leelanau-Emmet and Nester-Emmet Association, also Mancelona Loamy sand and Kalkaska sand.

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

This compartment is split into two large blocks of State ownership. The west portion contains approximately 2000 acres and the east portion contains about 1000 acres. Private land between the blocks is open farmland and wood lots.

Unique Natural Features:

The west portion of this compartment is on the upper most slopes of Chandler Hill which has an elevation change of approximately 500 feet in a mile. Very steep slopes of 70% are not unusual. The south eastern corner of the eastern block contains a small portion of Standard (Booth) Lake which is popular for dispersed camping.

Archeological, Historical, and Cultural Features:

This compartment has one archeological site, but it is located on private land and should not be impacted by any treatments.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This area is primarily northern hardwoods, oak and beech will be managed to provide mast.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located in Section 33, just west of the compartment, and potential is very good within the compartment for additional sand & gravel resources. Portions of the compartment are currently leased and included within Antrim unitized areas. There are currently no producing wells on state land within the compartment, but there is good potential for additional Antrim development on the state leases, if natural gas prices rise.

Vehicle Access:

Access is good throughout the compartment.

Survey Needs:

Recreational Facilities and Opportunities:

The compartment contains a snowmobile trail, an MCCCT trail and the North Country Hiking Trail.

Fire Protection:

Additional Compartment Information:

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

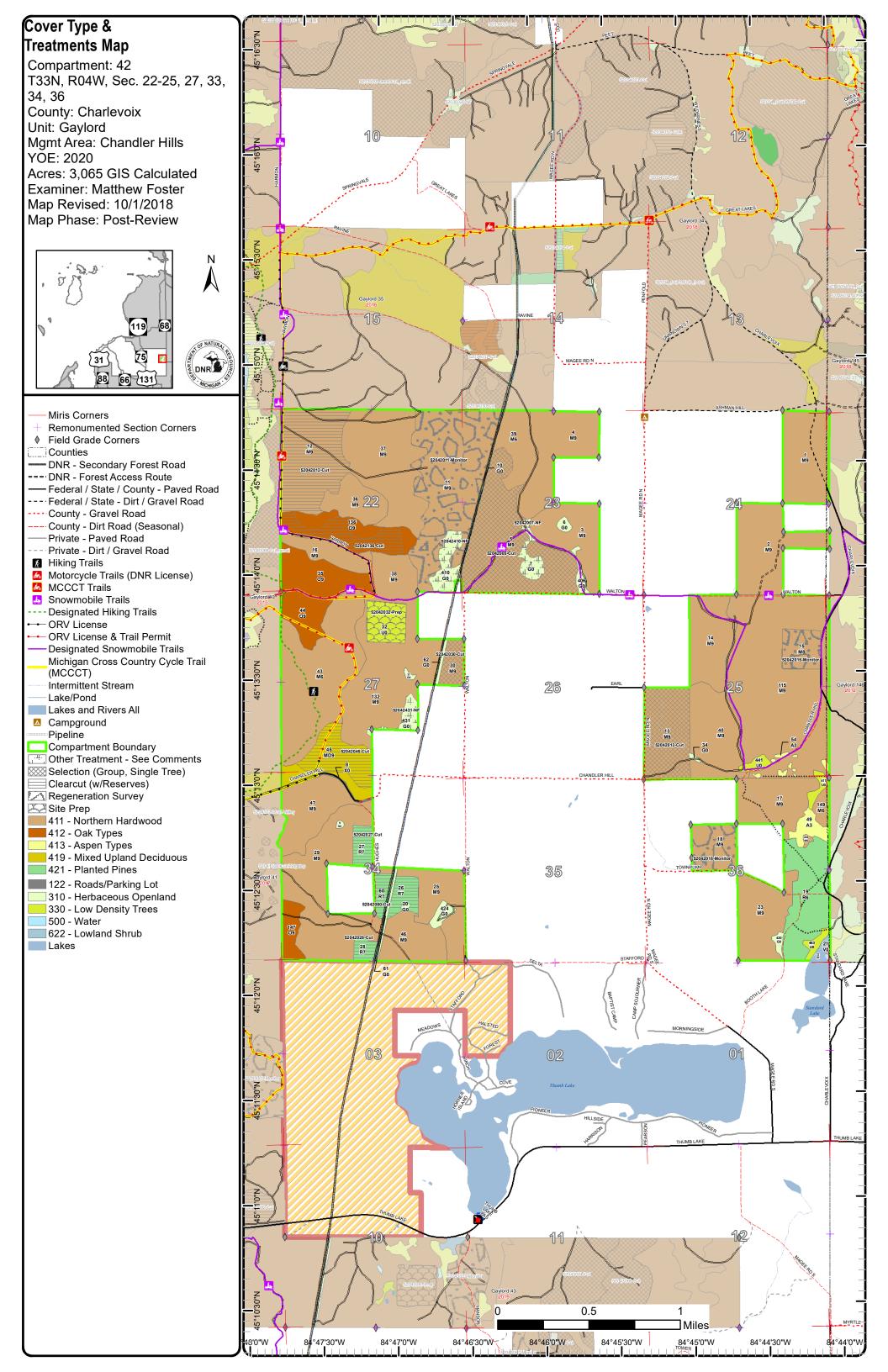
The following information is displayed, where pertinent, on the attached compartment maps:

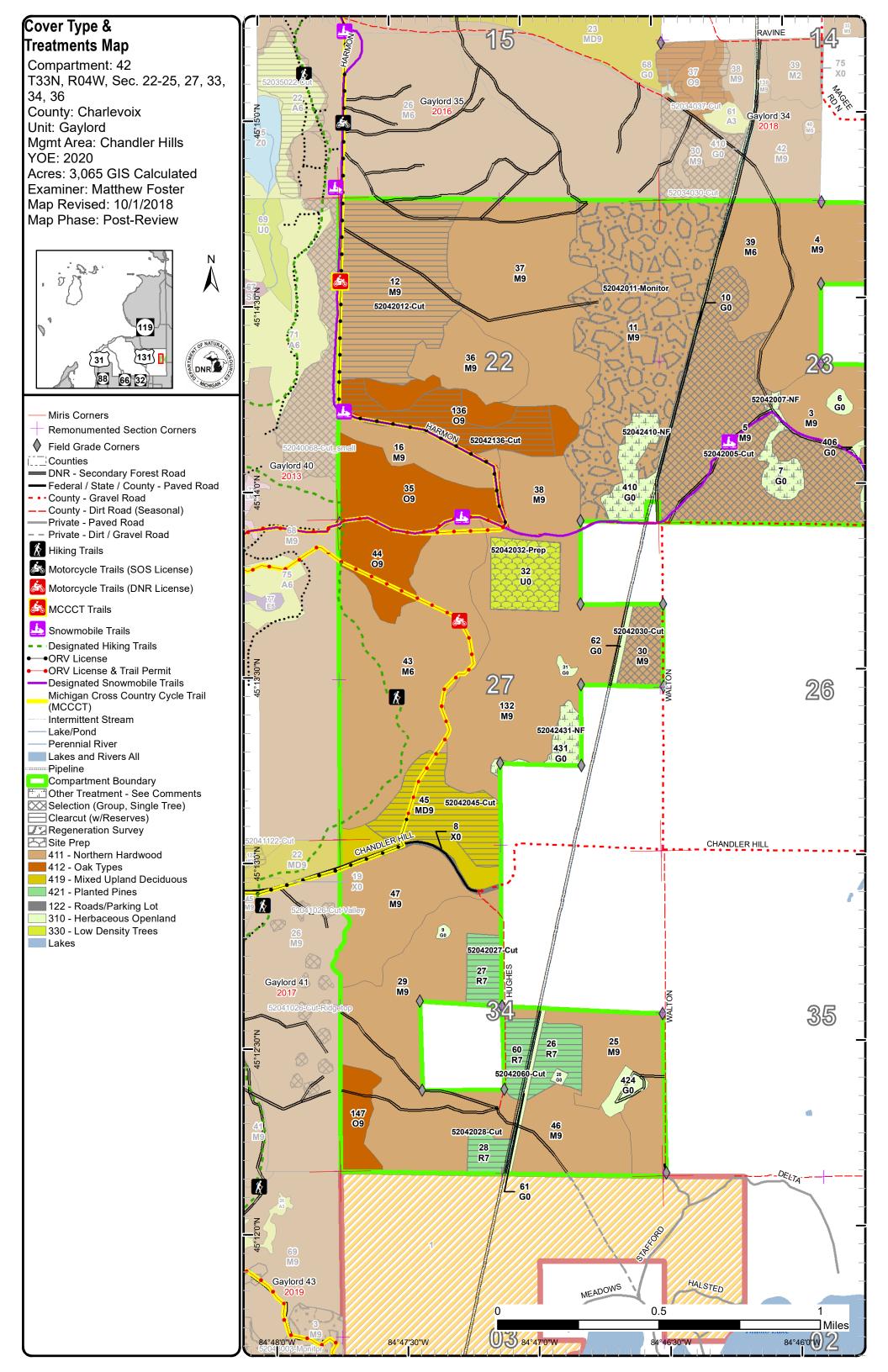
Base feature information, stand boundaries, cover types, and numbers

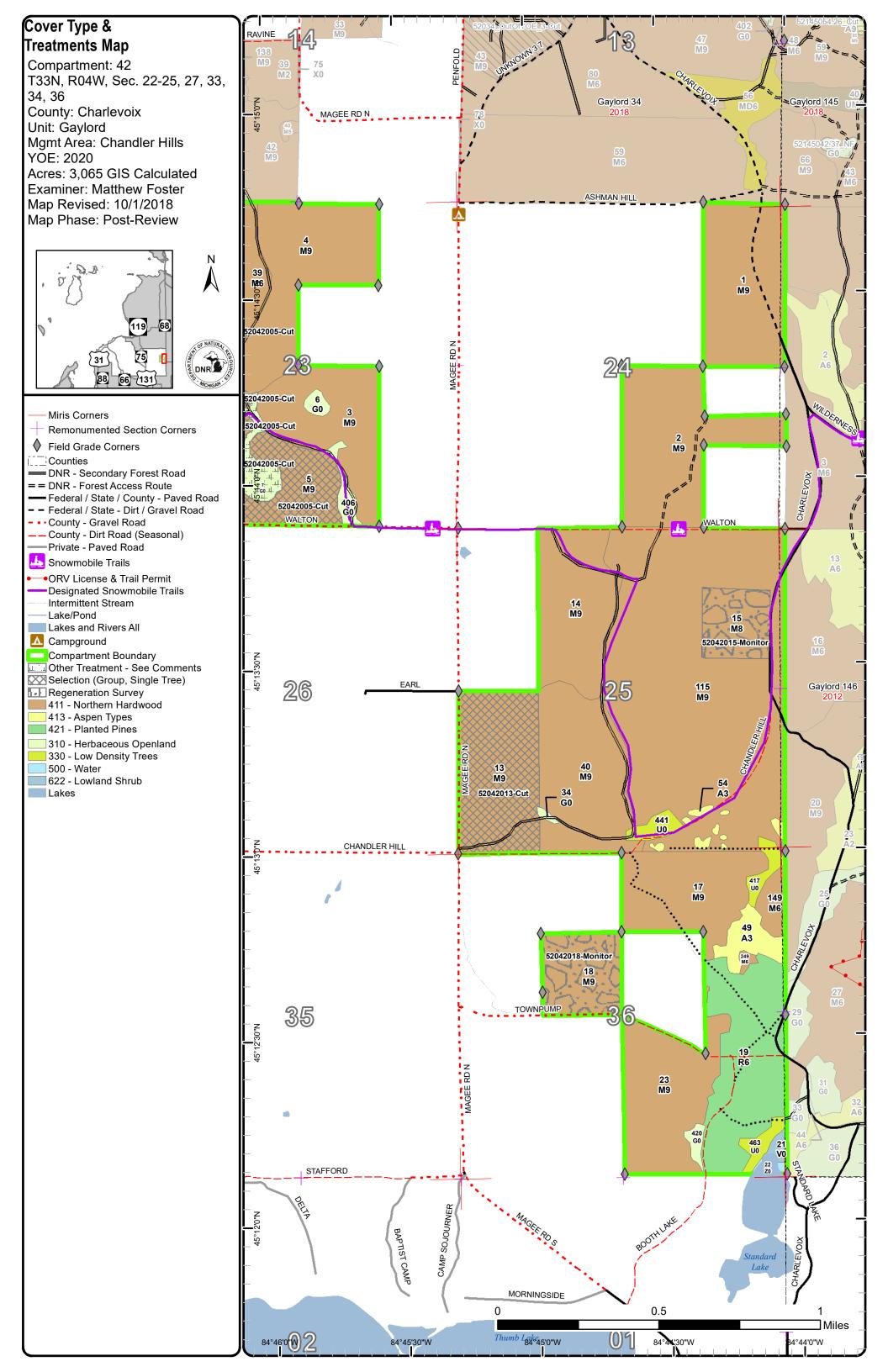
Proposed treatments

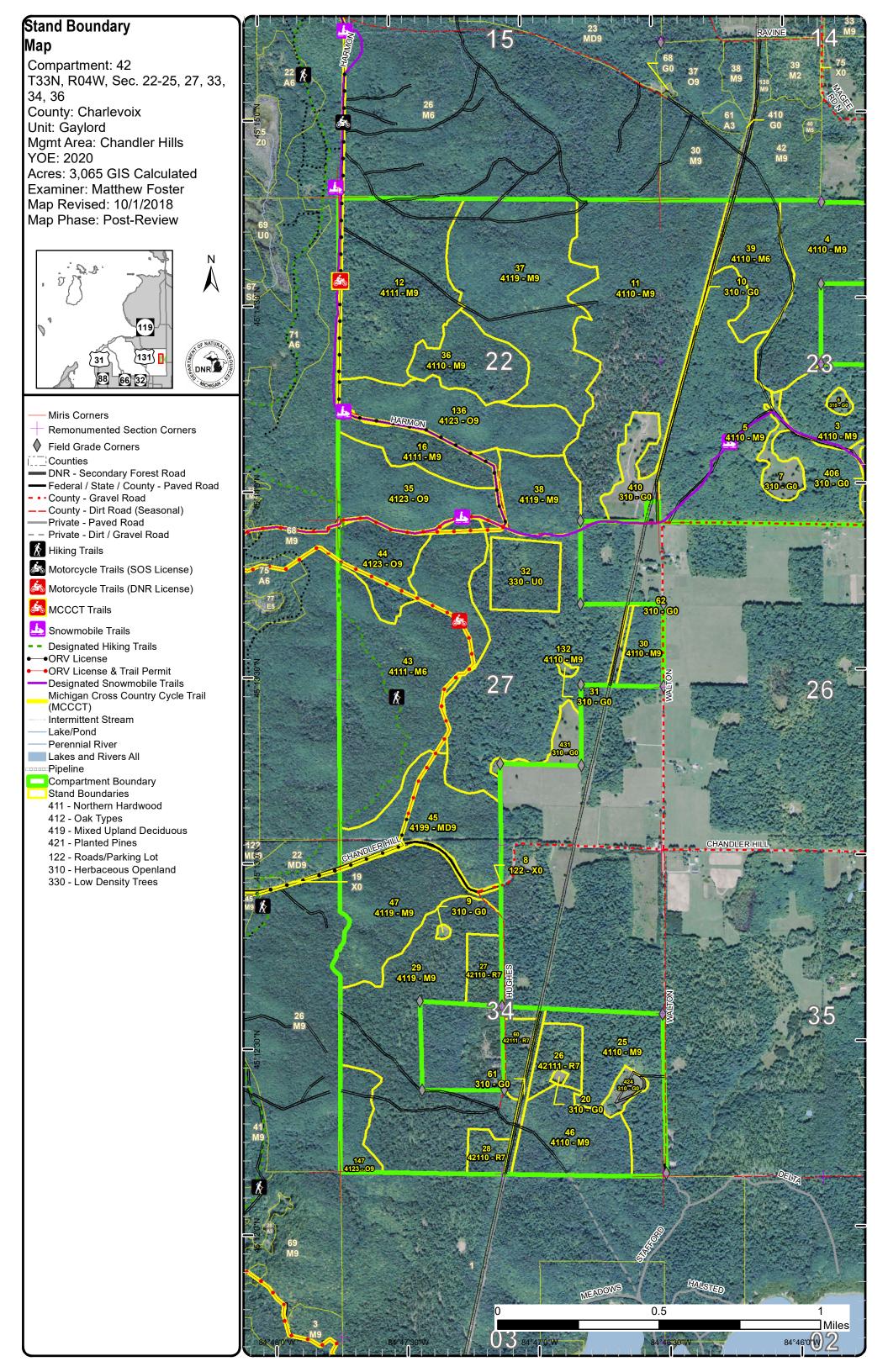
Site condition boundaries

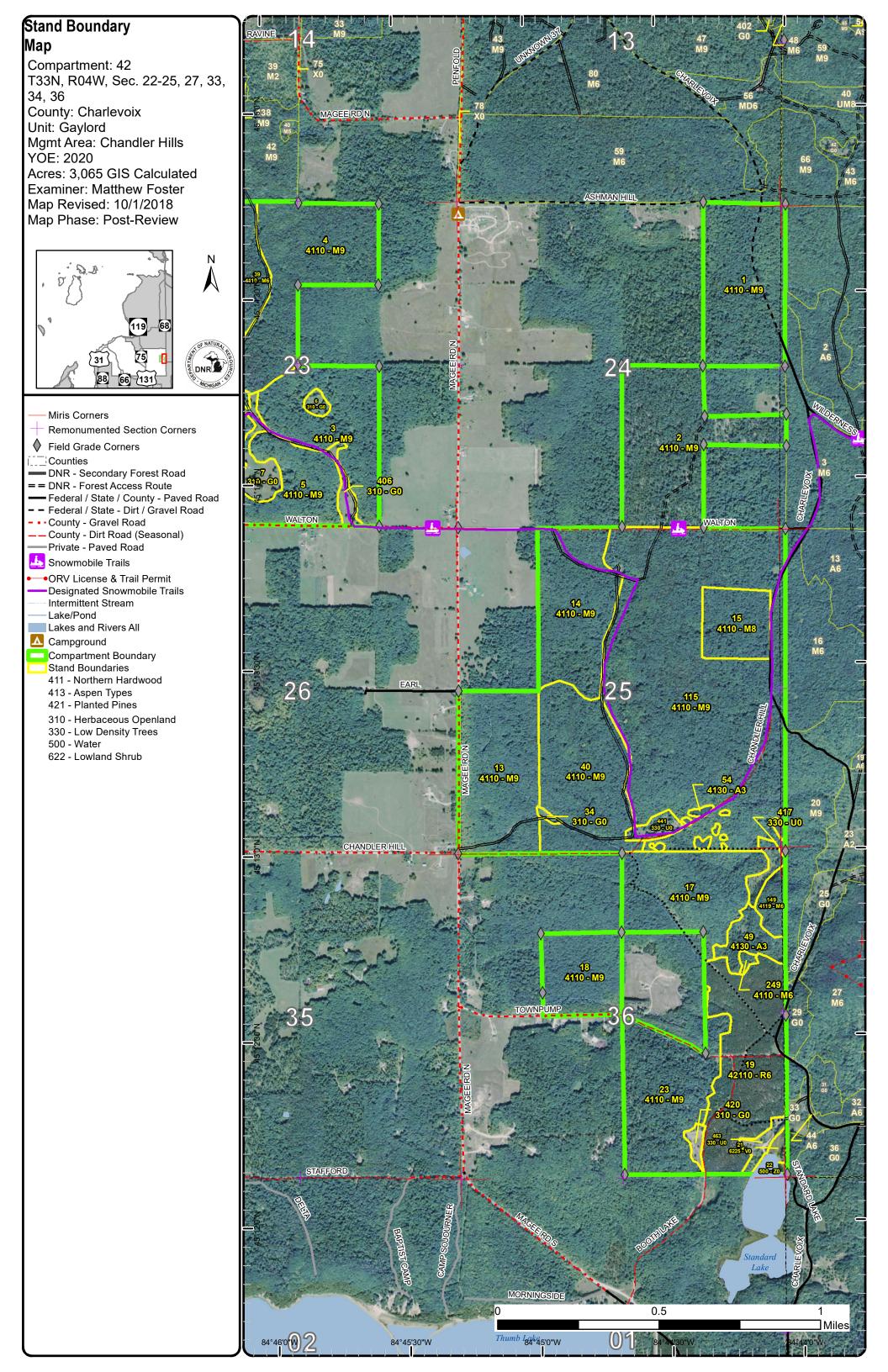
Details on the road access system

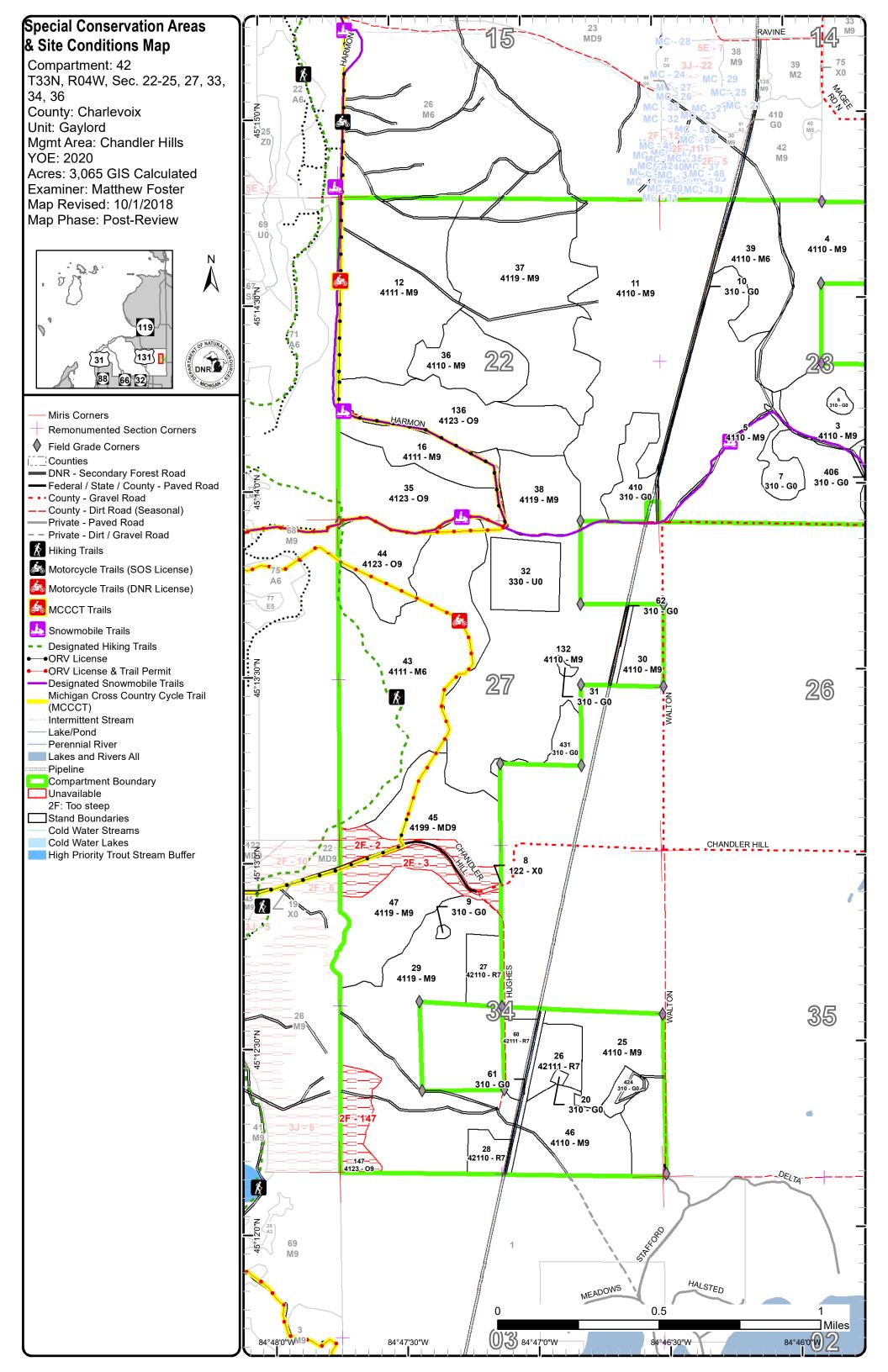


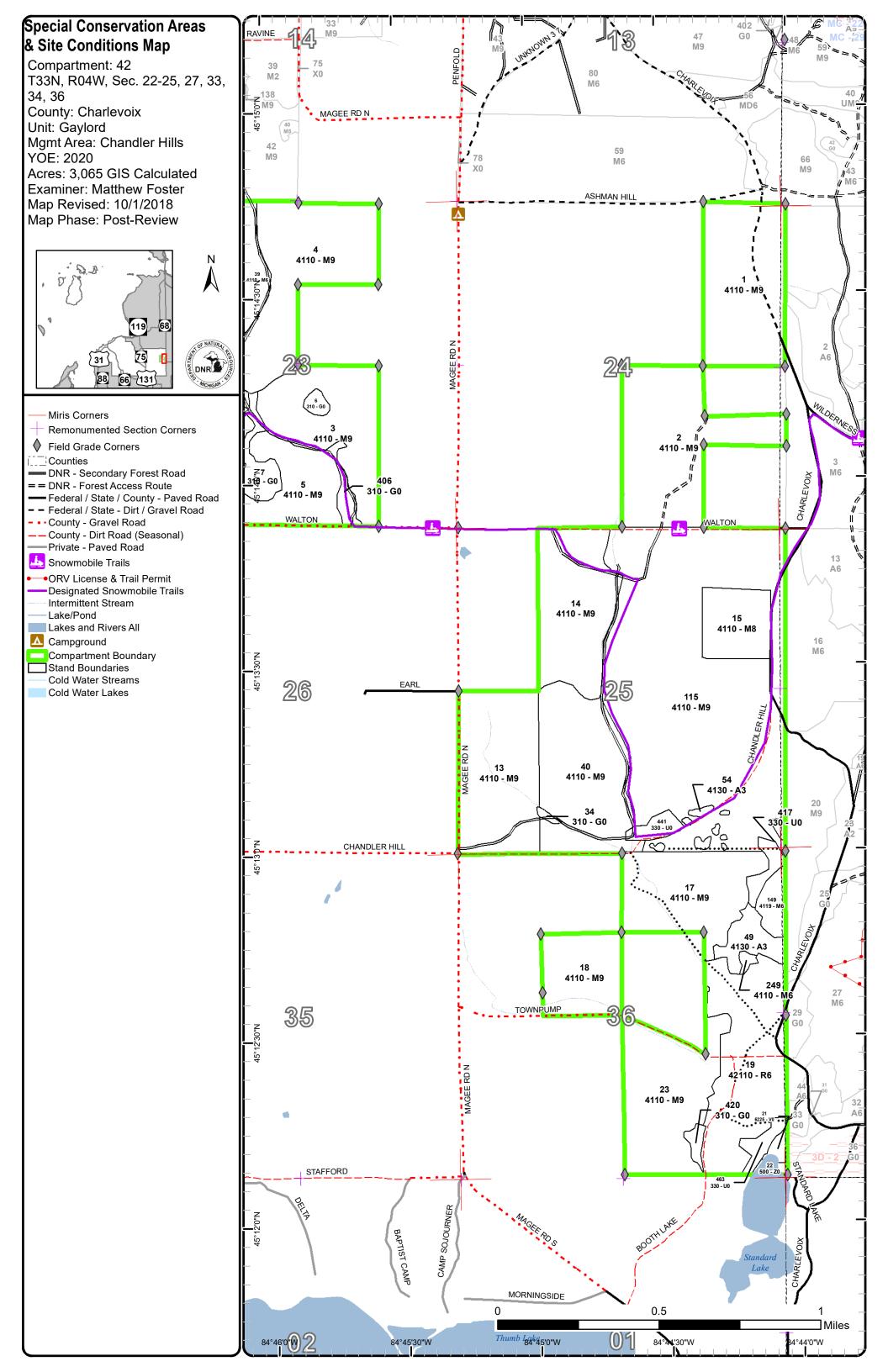












Compartment 42 Year of Entry 2020

Matthew Foster: Examiner

Gaylord Mgt. Unit



Age Class

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Aspen	0	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Herbaceous Openland	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Low-Density Trees	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	67
Northern Hardwood	0	0	0	0	0	0	0	0	54	1911	96	0	0	0	0	0	0	447	2508
Oak	0	0	0	0	0	0	0	0	0	89	94	0	0	0	0	0	0	0	183
Red Pine	0	0	0	0	0	0	86	0	0	55	0	0	0	0	0	0	0	0	141
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	147	15	5	0	0	0	86	0	54	2055	257	0	0	0	0	0	0	447	3064



Report 2 – Treatment Summary

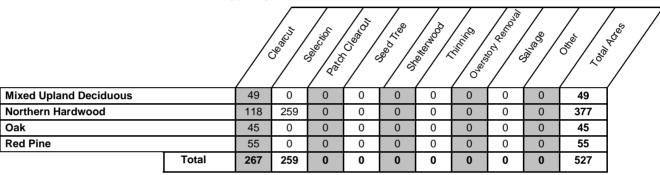
Gaylord Mgt. Unit Year of Entry: 2020

Acres of Harvest

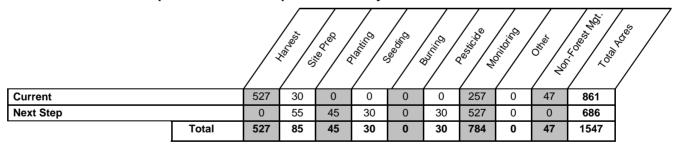
Compartment 42
Total Compartment Acres: 3,065

Commercial Harvest - 527 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of northern hardwoods representative of the stand canopy that meets stocking requirements.

Regen:

Other Any stumps within 2 feet of the edge of the trail must be cut flush to the ground or cut high and have the stump removed.

Comment:

10/1 /2019 **Proposed Start Date:**

310 -52042007-NF 13.3 310 - Herbaceous Nonstocked Unspec NonForestMat Other - Specify Draft Field Openland ified Herbaceous Boundary Openland

Habitat Cut: No Site Condition:

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

<u>Acceptable</u> Regen:

Other Protect snowmobile trail which runs through stand.

Comment:

Proposed Start Date: 10/1 /2019

187.6 4110 - Sugar Maple Sawtimber 85 51-80 Natural Regen Draft Field 11 52042011-Monitoring 411 - Northern Uneven-Monitor Association Well (Intermediate) Hardwood Aged Boundary

Site Condition: Habitat Cut: No

Prescription Check regeneration.

Specs:

Next Step Treatments:

Acceptable A mix of northern hardwood species that resembles the canopy of the stand that meets minimum stocking requirements.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2020

12 52042012-Cut 81 Draft Field 117.8 4111 - S.Maple. Sawtimber 51-80 Harvest Clearcut with 4119 - Mixed Even-Aged Hard Mast Well Retention Northern Boundary Hardwoods

Association

Habitat Cut: No Site Condition:

Prescription Final harvest stand, leave all white pine and hemlock. Leave retention in islands focusing retention around large, mast producing oak and Specs:

pockets of hemlock. Add oak wilt restrictions and specs to protect the snowmobile and MCCCT trails.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of northern hardwood species with a component of oak and aspen.

Regen:

Other Comment:

Specs:

Next Step

Acceptable Any mix of deciduous species that resembles the parent stand.

Regen:

Percent to Treat = 100% Other

Comment:

Proposed Start Date: 10/1 /2019

52042026-Cut 42111 - Planted 1-50 17.5 Sawtimber 84 Clearcut with 411 - Northern Draft Field Harvest Even-Aged Red Pine, Mixed Poor Retention Hardwood Boundary

Deciduous

Habitat Cut: No Site Condition:

Prescription Final harvest 2" and up, leave minimum retention.

Specs:

Monitoring, Natural Regen (Re-Inventory); SitePrep, Roller Chopping Next Step

Treatments:

Acceptable Mix of northern hardwoods.

Regen:

Other Try to set back stand as much as possible, if needed roller chopping is a backup plan.

Comment:

Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

52042032-330 - Low-Density SitePrep 411 - Northern Draft Field 32 29.8 Nonstocked Unspec Scarification Even-Aged Prep Trees ified Hardwood Boundary

Habitat Cut: No Site Condition:

Prescription Follow directions outlined in Mike Walters Research Documentation that includes scarification, seeding, and use of herbicides.

Specs:

Next Step Pesticide, Skidder/Mechanical; ; Seeding, Hand Seed

Treatments:

Acceptable A diverse mix of northern hardwood species.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2019

52042410-NF 22.5 310 - Herbaceous Nonstocked Unspec NonForestMgt Other - Specify 310 -Draft Field Openland ified Herbaceous Boundary Openland

Habitat Cut: No Site Condition:

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step **Treatments:**

Acceptable

Regen:

Other Comment:

Gaylord Mgt. Unit Report 3 -- Treatments Compartment: 42 s Year of Entry: 2020 t а ВА **Treatment Cover Type Treatment** Acres Stand Size Stand **Treatment** Age Approval n Name CoverType Density Method Objective Structure Status Age Range Type d 52042431-NF 11.6 310 - Herbaceous Nonstocked Unspec NonForestMgt Other - Specify 310 -Draft Field 431 Openland ified Herbaceous Boundary Openland **Habitat Cut: No Site Condition:** Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast. Specs: Next Step Treatments: <u>Acceptable</u> Regen: <u>Other</u> Comment:

Proposed Start Date: 10/1 /2019 **Total Treatment** Acreage Proposed:

860.9

Compartment: 42

Gaylord Mgt. Unit

Matthew Foster : Examiner Year of Entry: 2020

Availability for Management

Total Acres Acres Avail Acres Dominant Site Conditions

Acres	Available	With Condition	Not Available		2F	3D
19	19	0	0	Aspen		
3	0	0	3	Bog		3
87	87	0	0	Herbaceous Openland		
48	48	0	0	Low-Density Trees		
67	49	0	17	Mixed Upland Deciduous	17	
2509	2488	0	21	Northern Hardwood	21	
183	163	0	20	Oak	20	
141	141	0	0	Red Pine		
5	5	0	0	Urban		
3	0	0	3	Water		3
3,065	3,000		65	Total Forested Acres	59	6
	98%		2%	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
2	Unavailable	2F: Too steep	17	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
3	Unavailable	2F: Too steep	21	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
147	Unavailable	2F: Too steep	21	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
(Comments:						

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				

Gaylord Mgt. Unit Compartment: 42
Year of Entry 2020



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 Area	Туре	Description	on ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area						
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of streams and open water wetlands, riparian areas harbor a his communities are ecologically and socially significant in their as aesthetics, habitat, bank stability, timber production, and	of the unique conditions adjacent to lakes, gh diversity of plants and wildlife. Riparian effects on water quality and quantity, as well						

S				Report 7	– Forested	Stands Compartment: 42 Year of Entry: 2020
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	Sawtimber Well	82.1	85	81-110	Thinned in 2004, average stand BA is 100 from 10 plots. Ironwood and beech dominated understory with a few basswood and sugar maple stump sprouts.
2	4110 - Sugar Maple Association	Sawtimber Well	96.4	90	81-110	Stand thinned in summer/fall 2013, average BA is 85. BA is higher further north you go in the stand, a lot of berry brush coming up in the understory.
3	4110 - Sugar Maple Association	Sawtimber Well	65.9	81	81-110	Thinned in 1990, again in 2004. Average BA of 106 from 11 plots. Still room in the canopy to grow.
4	4110 - Sugar Maple Association	Sawtimber Well	89.4	81	51-80	Thinned in 2004, nicer hardwood on top of the hill. Good amount of ash dead and falling over. Looks like they couldn't harvest on some of the hills, more pole sized in these areas.
5	4110 - Sugar Maple Association	Sawtimber Well	159.4	85	111-140	Thinned and completed in 2003, average BA of 111 from 17 plots. Nice stand good quality, found a couple gaps from previous harvest with elderberry and raspberry. Understory is variable but mostly thick with ash and beech, east end is more open. Could go either way with stand as far as treating now or next entry.
11	4110 - Sugar Maple Association	Sawtimber Well	186.7	85	51-80	Select harvest finished 2016, average BA is 75. A few areas especially at the north end that are more open due to salvaging the ash during the harvest. West half is hilly, understory is mostly dominated by berry brush.
12	4111 - S.Maple, Hard Mast Association	Sawtimber Well	117.8	81	51-80	Stand harvested in 2004. Not the best quality, ash is dead and falling over. Understory mostly dominated by beech and ironwood. Average BA is 76 from 10 plots. I think it would be best to restart this stand.
13	4110 - Sugar Maple Association	Sawtimber Well	80.6	85	111-140	Almost a pure sugar maple stand, was thinned in 1991. Average BA is 118, understory is variable with areas of nothing and areas with pockets of beech, ironwood, and a few with sugar maple.
14	4110 - Sugar Maple Association	Sawtimber Well	70.3	81	81-110	Selection harvested in 2005 with adjacent stands 115 and 40. Stand still has canopy gaps to fill in, especially at the south end. Average BA is 100 from 17 plots.
15	4110 - Sugar Maple Association	Sawtimber Medium	29.0	81	81-110	This stand is part of the MWR research project and will be updated when sale is complete. Harvested December 2017. 30 percent of canopy removed in gaps.
						Stand 15, 40, and 14 selection harvested in 2004/05. OPIC - FMD: POOR TO FAIR QUALITY HARDWOOD. Section 25.
16	4111 - S.Maple, Hard Mast Association	Sawtimber Well	32.8	85	81-110	BA averages to 85, variable due to dead ash. Ash is past salvaging, steep north facing slopes.
17	4110 - Sugar Maple Association	Sawtimber Well	66.4	81	81-110	Thinned in 2015, average BA is 87 from 12 plots. Most of the stand is a borderline pole/log, west of the pipeline has a little higher average diameter. East of the pipeline is a steep hill, looks like most of it was excluded from the thinning, understory is variable throughout the stand.

S t	Gaylord	Mgt. Unit		Report 7	– Forested	Stands Compartment: 42 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4110 - Sugar Maple Association	Sawtimber Well	40.2	85	81-110	Thinned in 1992, single tree selection in 2015. Average BA 81 from 9 plots. Understory is mostly ironwood with gaps filled with blackberry/raspberry. Did find a couple pockets of ash regeneration throughout the stand. BA was left a little higher closer to Townpump Road. Southeast corner of the stand has a small pond/wet area.
19	42110 - Planted Red Pine	Poletimber Well	85.7	55	141-170	Third row thinned in 2002, marked thinning in 2012. Average BA of 141 from 13 plots. Still some room to grow, understory has dense hardwood regeneration in most spots. Stand has some hills, looks like they have had to cut across rows in past thinning treatments.
23	4110 - Sugar Maple Association	Sawtimber Well	75.3	81	51-80	Thinned in 1992, selection harvest in 2013. Average BA is 80 from 9 plots. Understory is dominated by ironwood and beech, stand has steep hills and valleys. Looks like some of the steeper hills were left during the harvest, a few large diameter red oak in the stand.
25	4110 - Sugar Maple Association	Sawtimber Well	63.9	83	81-110	Harvested in 2014, BA is now 90. Understory is mostly ironwood and beech with pockets of ash regeneration. Good quality sugar maple, some 18-20" DBH.
26	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Poor	17.5	84	1-50	Harvested in 1983, 1993, and 2003. Past management has left multiple ages and size classes. Look to remove red pine and complete stand conversion to hardwoods.
27	42110 - Planted Red Pine	Sawtimber Poor	15.1	84	51-80	Harvested in 1983 and 2003, past management has left multiple ages and size classes. Groups of red pine left were for visual management. Good amount of sugar maple in the understory. Should look to remove red pine and complete conversion to hardwoods.
28	42110 - Planted Red Pine	Sawtimber Poor	9.9	84	51-80	Past management has left multiple ages and size classes, last cut was in 2003. They left groups of red pine for visual management, look to remove red pine and complete conversion to hardwoods.
29	4119 - Mixed Northern Hardwoods	Sawtimber Well	150.8	81	51-80	Harvested and closed 11/16/2009, ash dead and falling over. BA is low (average 70) and a lot of room in the canopy for trees to grow. A lot of rubus in the understory, good amount of oak in the overstory.
30	4110 - Sugar Maple Association	Sawtimber Well	19.3	85	111-140	Thinned in 1999, average BA of 115 from 4 plots.
35	4123 - Red Oak	Sawtimber Well	59.0	95	111-140	Steep slopes, good quality oak. Lower quality and smaller diameter at the top of the ridge. Not much in the understory, a couple areas where oak are starting to dye out from competition, look to do some management. Average BA of 117 from 13 plots.

S	Gaylord Mgt. Unit			Report 7	- Forested		Compartment: 42 Year of Entry: 2020		
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:		
36	4110 - Sugar Maple Association	Sawtimber Well	39.4	85	81-110	This was the portion of the sal couple areas they couldn't ge coming back so far. Nice comment: Unit 1A only unit s area in north part of stand 36 completed June 2016. Unit 1 of timber. Damages paid by	t to. Mostly elderberry component of hemlock alvaged out of origina . (consult map in TCR B walked away from di	and beech Old I treatment Salvage ue to quality	
37	4119 - Mixed Northern Hardwoods	Sawtimber Well	134.1	87	81-110	Ash is dying and falling out of 16 plots. Pockets of hemlor understory is mostly open but beech. North half of stan	k being used by deer at a few pockets of iron	for cover, nwood and	
38	4119 - Mixed Northern Hardwoods	Sawtimber Well	36.5	85	81-110	This stand is log sized oak a Oak composition inco	nd mostly pole sized h eases as you walk no		
39	4110 - Sugar Maple Association	Poletimber Well	42.9	75	81-110	A good amount of dead ash, I the canopy. Ash is past sall basically thinning itself natu been managed with stand amount of dead a	vaging and falling over rally. Hilly terrain, sout	r, stand is h end has	
40	4110 - Sugar Maple Association	Sawtimber Well	84.5	81	81-110	Selection harvested in 2005 rolling hills. Understory is do Average BA of			
43	4111 - S.Maple, Hard Mast Association	Poletimber Well	173.1	80	81-110	Ash dead and falling over t especially the north half. A co are oak dominated. Stand	uple of the ridges at th	e north end	
44	4123 - Red Oak	Sawtimber Well	34.9	95	81-110	Stand harvested in 2004, m basswood in the overstory. Do the understory, heavy deer to plots. There is some dead a vi	ecent sugar maple reg rowse. Average BA of	eneration in 85 from 6	
45	4199 - Other Mixed Upland Deciduous	Sawtimber Well	66.8	91	81-110	Steep slopes, some dead ash valley along the MCCCT Tr			
46	4110 - Sugar Maple Association	Sawtimber Well	50.6	83	81-110	Harvested in 2002, ash is d Understory in southwest port stand is full of beech and in stand	ion is fairly open, but r	nost of the	
47	4119 - Mixed Northern Hardwoods	Sawtimber Well	69.5	85	81-110	North half of stand is steep hi Road, rest of stand also is s hardwood valleys. As		ınd mixed	
49	4130 - Aspen	Sapling Well	14.5	3	Immature	Final harvested in 2015, good mixed with s	aspen regeneration come hardwoods.	oming back	
54	4130 - Aspen	Sapling Well	4.9	13	Immature	New stand added, small asper aspen regeneration coming b			

s t				Report 7	– Forested	Stands Compartment: 42 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Poor	12.4	81	1-50	Harvested in 1983, 1993, and 2003, left groups of red pine for visual management. past management has left multiple ages and size classes. Good amount of sugar maple in the understory, look to remove red pine and complete conversion to hardwood stand.
115	4110 - Sugar Maple Association	Sawtimber Well	294.4	81	81-110	Selection harvested in 2005 with adjacent stands 40 and 14. This stand has areas with ash that are dead and falling over. Average BA of 101 from 37 plots. South half has a slightly smaller average diameter than the north half. Southeast corner has steep slopes that lead down into stand 417.
132	4110 - Sugar Maple Association	Sawtimber Well	146.4	85	81-110	Selection harvested in 2004, average BA of 96 from 15 plots. Still room for tree canopies to grow, ash is dead and blowing over making BA lower.
136	4123 - Red Oak	Sawtimber Well	68.8	87	111-140	Mostly oak, hardwoods mixed in. Smaller oak diameter and lower quality on top of the ridge. Average BA of 128 from 15 plots. Steep hills, mostly south facing slopes.
147	4123 - Red Oak	Sawtimber Well	20.5	85	111-140	Steep slopes, oak dominated ridges, a few ash that are dead and falling over. Not much in the understory.
149	4119 - Mixed Northern Hardwoods	Poletimber Well	9.6	73	81-110	Thinned in 2015, some of north portion of stand was excluded due to steep slopes. A lot of orange marked trees left due to topography, not the best quality, a lot of multi stemmed trees. Average BA is 100 from 3 plots, a few aspen mixed in.
249	4110 - Sugar Maple Association	Poletimber Well	1.6	73	111-140	This stand is a hill overlooking stand 49, it was marked but they could only get to a small area due to topography so most of stand was not cut. Average BA is 130 from 2 plots, decent sugar maple regeneration in the understory.

Compartment: 42 Year of Entry: 2020



Stand	Cover Type	Acres	Managed Site	General Comments:
6	310 - Herbaceous Openland	2.9	No	Opening with a few scattered sugar maple.
7	310 - Herbaceous Openland	13.3	No	Opening with a few scattered open grown sugar maple.
8	122 - Road/Parking Lot	4.9	No	Chandler Hill Rd.
9	310 - Herbaceous Openland	1.0	No	Old landing, filled with rubus.
10	310 - Herbaceous Openland	5.5	No	TransCanada high pressure natural gas pipeline.
20	310 - Herbaceous Openland	1.1	No	Small opening with rubus.
21	6225 - Bog	3.3	No	Lowland area leading to Standard Lake.
22	500 - Water	2.6	No	North end of Standard Lake.
31	310 - Herbaceous Openland	1.4	No	Small opening with some rubus.
32	330 - Low-Density Trees	29.9		This is part of the MWR project, harvested in 2017. Single trees left throughout the sale, mostly sugar maple and red oak. A couple hills at the north end they could not harvest.
34	310 - Herbaceous Openland	1.0	No	Opening full of rubus.
61	310 - Herbaceous Openland	6.5	No	TransCanada high pressure natural gas pipeline.
62	310 - Herbaceous Openland	3.9	No	TransCanada high pressure natural gas pipeline.
406	310 - Herbaceous Openland	5.9	No	Opening with scattered hardwood.
410	310 - Herbaceous Openland	22.5	No	Shrubs planted in south end of field in failed oak planting area. Seeding in with hardwood saplings around the edges.
417	330 - Low-Density Trees	6.1	No	Large valley with scattered pole sized cherry and sapling sized aspen pockets, also hawthorn.
420	310 - Herbaceous Openland	3.1	No	Grassy opening, filling in with some hardwood and red pine from adjacent stands.

Report 8 - Nonforested Stands

Compartment: 42 Year of Entry: 2020



Stand	Cover Type	Acres	Managed Site	General Comments:
424	310 - Herbaceous Openland	7.1	No	Opening with some scattered hardwood trees.
431	310 - Herbaceous Openland	11.6	No	Grassy opening with a few scattered open grown basswood and pine.
441	330 - Low-Density Trees	6.2	No	Scattered open grown pole and log sized maple with cherry pockets and rubus.
463	330 - Low-Density Trees	6.3	No	Open area with scattered aspen, maple, cherry, and hawthorn. Standard Lake erosion control project completed in 1992, popular camping area.