

Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11034 Entry Year 2018 Acreage: 757

County Houghton

Management Area: Central Houghton

Revision Date: 2016-05-12

Stand Examiner: Jason Mittlestat

Legal Description:Portage Township,

T53N, R34W, Sections 19, 30

Identified Planning Goals:

To maintain a healthy sustainable forest with special consideration to wildlife and fisheries habitat.

Soil and topography:

The topography is rolling to hilly. The upland soils are mostly Munising loamy fine sand and sandy loam, and Yalmer sands. There are some Halfaday sands on the East edge. There are some Skanee-Gay complex (fine sandy loam and mucky sandy loam soils). The wetlands are Lupton muck and Dawson peat.

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

There are state forest lands adjacent to the North and West sides of this compartment. Other adjacent lands are industrial timber land, with the exception of small private ownerships to the South and East.

Unique Natural Features:

Potential for osprey, eagle, great blue heron rookery, red-shouldered hawk, goshawk, moose, and gray wolf. Potential for wood turtle along riparian corridors. Potential for calypso orchid, rayless mountain ragwort and ram's head lady's-slipper in conifer swamps.

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains cold water tributaries to the North Branch of the Otter River which is a trout stream. There are concerns about stream crossings and bank erosion.

Wildlife Habitat Considerations:

Managing habitat for; black bear, blackburnian warbler, pileated woodpecker, ruffed grouse, northern goshawk and American marten should be considered when planning harvest specifications in this this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of fine-textured till and lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was previously used as a building stone. The closest gravel pit is located four miles to the southeast, but there may be potential on the uplands. Abandoned copper mines are located ten miles to the southwest. The Compartment has not been previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Previous timber harvest activity has somewhat improved the road access. However, access is limited across private lands to the South. All stream crossings on State land in this compartment were temporary, and were removed upon harvest completion. New crossings will require permits for future access.

Survey Needs:

None identified at this time, will be addressed as needed in the future.

Recreational Facilities and Opportunities:

The large expanse of continuous forest offer great hunting opportunities for both large and small game, but is limited due

to poor access.

Fire Protection:

This compartment has little to no potential for a large fire with the primary cover type being northern hardwoods. The remote location and equipment access would be the primary issue for fire suppression activities.

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

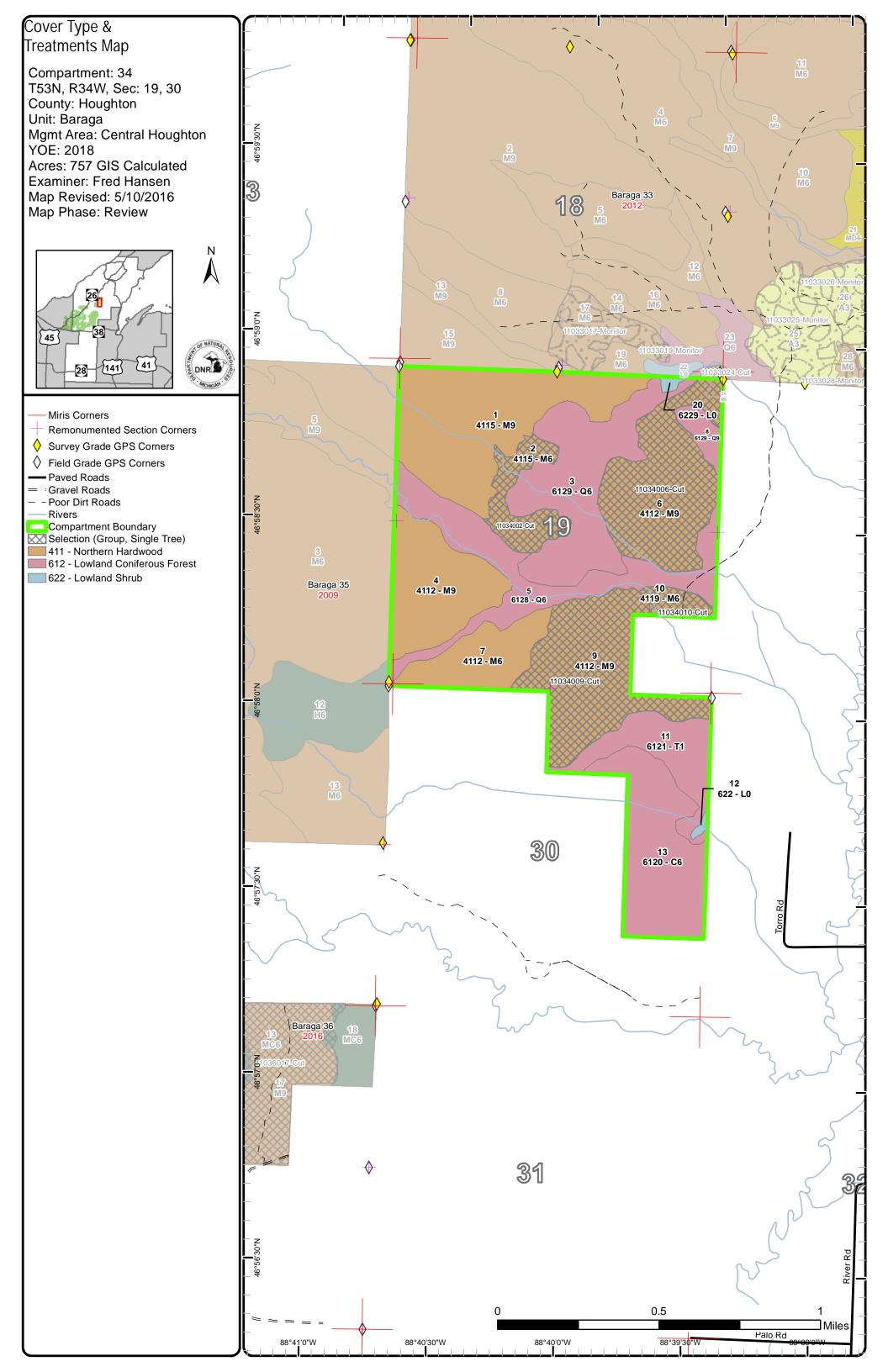
The following information is displayed, where pertinent, on the attached compartment maps:

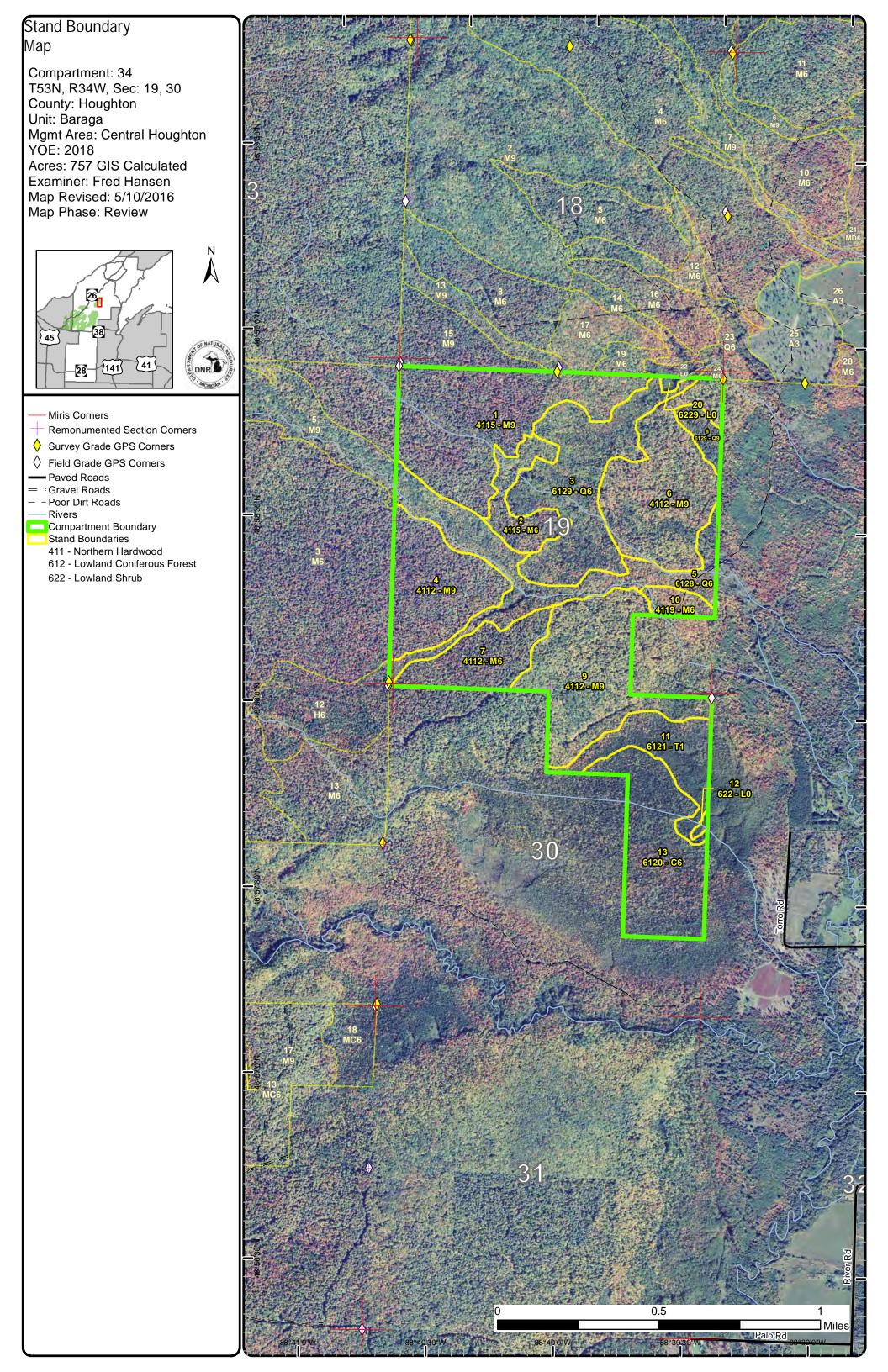
Base feature information, stand boundaries, cover types, and numbers

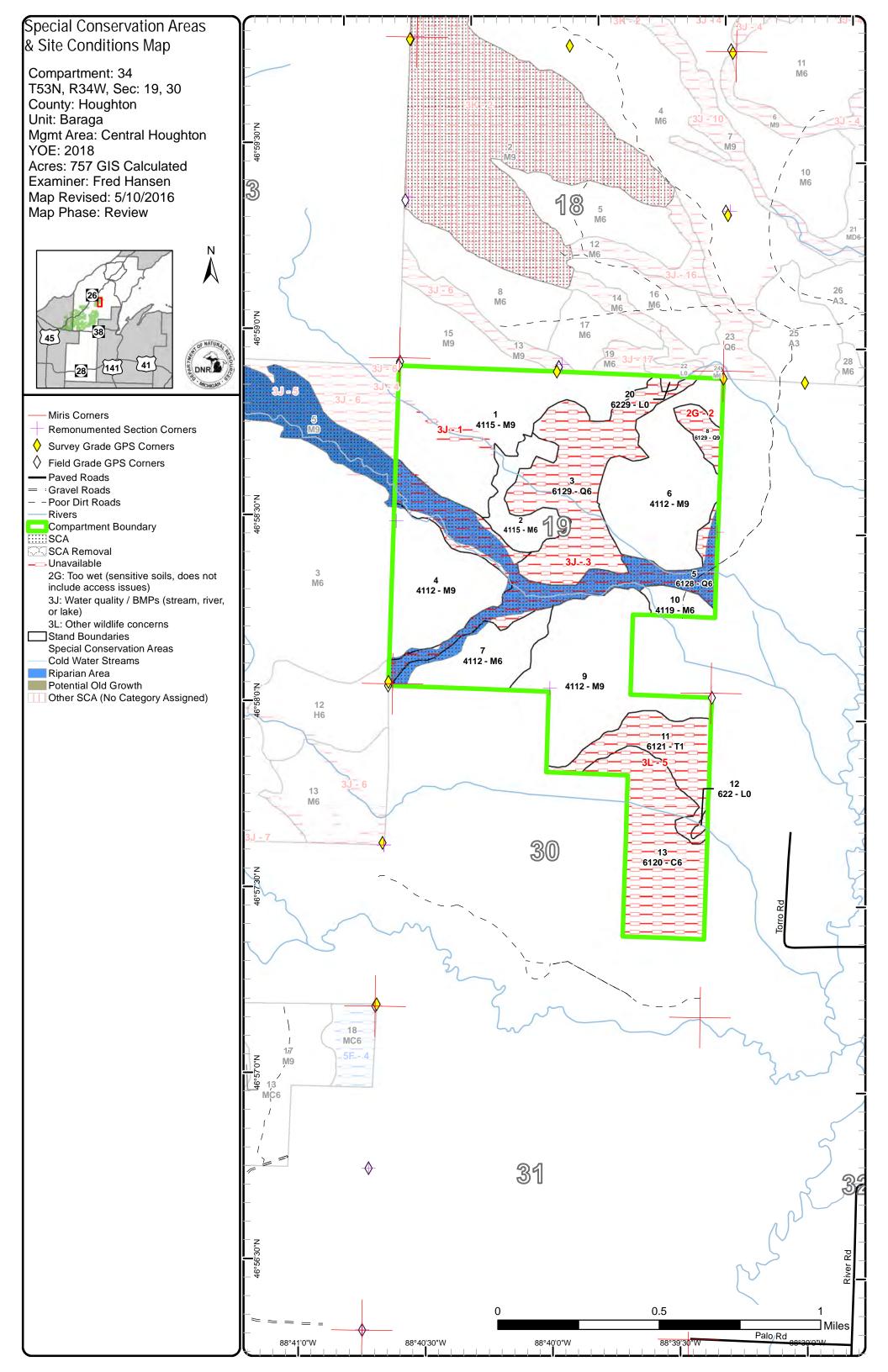
Proposed treatments

Site condition boundaries

Details on the road access system







Compartment 34 Year of Entry 2018

Jason Mittlestat: Examiner



Age Class

| | No. | ? / c | 3/2 | | | § /§ | No. 10 | 8/8 | | \$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 8, 8, | | 0,00 | , 2°, 2°, 2°, 2°, 2°, 2°, 2°, 2°, 2°, 2° | | | N. L. | of Jue | | ;/ |
|-------------------|-----|-------|-----|---|---|------|--------|-----|----|--|-------|---|------|--|---|---|-------|--------|-----|----------------|
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 | |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 171 | 181 | |
| Lowland Shrub | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 359 | 450 | |
| Tamarack | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | |
| Total | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 81 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 530 | 757 | |



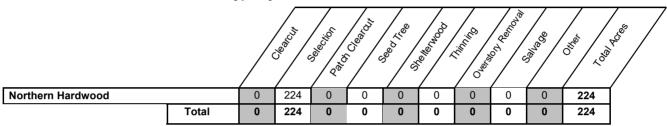
Report 2 – Treatment Summary

Baraga Mgt. Unit

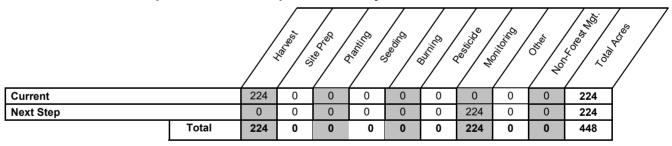
Compartment 34 Year of Entry: **Total Compartment Acres: 757 Acres of Harvest**

> Commercial Harvest - 224 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Specs:

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

Other Some areas of steep terrain and draws throughout the stand.

Comment:

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

11034010-Cut 10.4 4119 - Mixed Poletimber 51-80 Harvest Single Tree 411 - Northern Uneven-Proposal Northern Hardwoods Well Selection Hardwood Aged

Habitat Cut: No

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Follow all guidelines Specs: set forth in "The Complete Marker".

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

White pine and hemlock pretty consistently scattered throughout the stand. BA's will probably be higher than 90. Some wetter ground in areas. Other

Comment:

Proposed Start Date: 10/01/2017

Stand

Report 4 -- Treatments

Treatment

Type

Treatment

Method

BA

Range

Size Stand

Density Age

Compartment: 34 Year of Entry: 2018

Age

Structure

Cover Type

Objective

DNR DIRECTION OF THE PROPERTY OF THE PROPERTY

Status

n Treatment d Name

Total Treatment

Acreage Proposed:

S

t a

CoverType

224.1

Acres

Report 5 - Site Conditions

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment: 34
Year of Entry: 2018

| Availability for Management | | | | | | | | | | |
|-----------------------------|-----------|----------------|---------------|----------------------|-------|---------|------|---------|--|--|
| Total | Acres | Acres Avail | Acres | Do | omina | nt Site | Cond | ditions | | |
| Acres | Available | With Condition | Not Available | | 2G | 3J | 3L | | | |
| 81 | 0 | 0 | 81 | Cedar | | | 81 | | | |
| 181 | 2 | 0 | 179 | Lowland Conifers | 10 | 169 | | | | |
| 3 | 0 | 0 | 3 | Lowland Shrub | | 2 | 1 | | | |
| 450 | 441 | 0 | 9 | Northern Hardwood | | 9 | | | | |
| 42 | 0 | 0 | 42 | Tamarack | | | 42 | | | |
| 757 | 443 | | 314 | Total Forested Acres | 10 | 179 | 125 | | | |
| | 59% | | 41% | 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.

| | ond Availability | Dominant Site Condition | Acres | Other Site Condition | Other Site Condition | Other Site Condition | Other Site Condition |
|----|--------------------------------|---|-------|---|----------------------|----------------------|----------------------|
| | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 7 | 2G: Too wet (sensitive soils, does not include access issues) | 2F: Too steep | Unspecified | Unspecified |
| Co | omments: | | | | | | |
| 2 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| | omments: eaver flooded timb | er | | | | | |
| 3 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 173 | 2G: Too wet (sensitive soils, does not include access issues) | 2F: Too steep | Unspecified | Unspecified |
| C | omments: | | | | | | |

Report 5 – Site Conditions

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment: 34
Year of Entry: 2018

| 5 | Unavailable | 3L: Other wildlife concerns | 125 | Unspecified | Unspecified | Unspecified | Unspecified |
|---|---------------------------------|-----------------------------|-----|-------------|-------------|-------------|-------------|
| | Comments: Deer yarding area. | | | | | | |

Compartment: 034 Year of Entry: 2018



Report 6 - 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 | | | | |
|--|------------------------------|---------------|----------------|-------|--|--|--|--|
| | Spring-Seeps, Riparian Areas | Riparian Area | Proposed SCA | 145 | | | | |
| Comments | | | | | | | | |
| Riparian corridor along cold water spring fed streams. | | | | | | | | |

Baraga Mgt. Unit Compartment: 34
Year of Entry 201



Report 7 – 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 | ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area |
|----------------------|----------------------|---|---|
| SCA | Cold Water Stream | stocked trout populations and those of other coldwyear to year. Coldwater streams in Michigan typic | . Such streams are established by Director's action and |

| s t | Baraga | a Mgt. Unit | | Report 8 | - Forested | Stands Compartment: 34 Year of Entry: 2018 |
|-------------|--|--------------------|-------|--------------|-------------|---|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 1 | 4115 - Y.Birch, Hemlock NH | Sawtimber Well | 117.5 | 83 | 81-110 | The north east arrow of the stand was not harvested through in 2008 because of a pocket of smaller diameter timber. It should be ready to be thinned the next entry in 2028 with the rest of the stand. |
| 2 | 4115 - Y.Birch, Hemlock NH | Poletimber Well | 27.3 | 79 | 141-170 | Part of fmp hdwd cut in 2000. Good hemlock regen- 1'-10' tall. Poor quality timber. |
| 3 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 93.6 | 72 | 141-170 | Wet drainage area. BMP issues |
| 4 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 67.0 | 102 | 81-110 | cut in 2010 as part of "South Laski Hdwds" 11-008-08-01 |
| 5 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 77.5 | 85 | 81-110 | SCA - Water Quality Protection - trip to Otter River. |
| 6 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 90.7 | 99 | 111-140 | |
| 7 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 41.3 | 94 | 81-110 | cut in 2010 as part of "South Laski hdwds" 11-008-08-01 |
| 8 | 6129 - Mixed Coniferous Lowland Forest | Sawtimber Well | 9.9 | 72 | 111-140 | Wet ground. Trib to Otter River. BMP issues |
| 9 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 95.7 | 97 | 111-140 | |
| 10 | 4119 - Mixed Northern Hardwoods | Poletimber Well | 10.4 | 79 | 51-80 | |
| 11 | 6121 - Tamarack | Sapling Poor | 41.7 | 97 | 1-50 | |
| 13 | 6120 - Lowland Cedar | Poletimber Well | 81.4 | 89 | Unspecified | |

Report 9 - Nonforested Stands

Compartment: 34 Year of Entry: 2018



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|----------------------------|-------|-----------------|-------------------|
| 12 | 622 - Lowland Shrub | 1.4 | No | |
| 20 | 6229 - Mixed lowland shrub | 1.7 | No | Wet drainage area |