



# Beltrami County NRM Timber Appraisal

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<b>Appraised By:</b> Corey Campbell	<b>Sale Type:</b> REGULAR AUCTION SALE	<b>Appraisal Number:</b> Balsam Ridge 40
<b>Appraisal Date:</b> 01/25/2024	<b>Auction Date:</b> 04/04/2024	<b>Permit Number:</b>
	<b>Access:</b> Public Access	<b>Expiration Date:</b> 04/30/2027

## Site, Soil, and Water Protection

RMZ in southwest corner along beaver pond, is flagged in pink. Only harvest aspen within RMZ. Block#2 and small portion of old aspen along west edge may require slash mats to access across low areas.

## Slash Disposal

Scatter slash.

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**Site Map:**



Appraisal examined and approved by \_\_\_\_\_

*Corey Campbell*  
Forester

2/20/2024  
Date

Appraisal examined and approved by \_\_\_\_\_

*Richard A. Moore*  
Land Department

2/20/2024  
Date

## STAND HARVEST PRESCRIPTIONS

<b>Timber Sale Name:</b>	Balsam Ridge 40						
<b>Description:</b>							
<b>RE Code</b>	<b>Sec.</b>	<b>Twp.</b>	<b>Rge.</b>	<b>School</b>	<b>City/Twp</b>	<b>Subd</b>	
200012700	12	146	35	31	Jones	SE 1/4 of NE 1/4	
150016300	7	146	34	31	Grant Valley	NW 1/4 of SW 1/4	
<b>Block:</b>	1						
<b>Stand Details</b>							
<b>Section</b>	<b>Township</b>	<b>Range</b>	<b>Timber Type</b>	<b>Acres</b>	<b>Stand Age</b>	<b>NPC</b>	<b>Harv Meth Desc</b>
12	146	35	12	19	68	MHn46	Clear Cut w/Reserves
<b>*NPC</b>	MHn46 - Northern Wet-Mesic Hardwood Forest						
No Basal Data							
<b>Current Site Conditions</b>	Current CTYPE is aspen and balsam poplar, with SI 70, and overall BA of 110 sq.ft./ac. Sale block is composed of smaller stands of aspen and balsam poplar of various age, size, and density with an average age of 64 years. Two large pockets of older aspen have a significant component of balsam fir and consist of large diameter, lower density aspen that has self-thinned or blown down over the years. There is a 6-acre pocket of 49 year-old aspen that is of uniform size and density with some bur oak and ash throughout. Significant amount of elm and ash along the fringe of a wet area containing some older tamarack and black spruce that is mostly dead. Stand does not appear to have been managed recently, other than the small portion of younger aspen, and is suffering from windthrow and natural succession.						
<b>Timber Objectives</b>	Silvicultural objective is a clearcut with reserves. Clearcutting older aspen and balsam fir with reserves of hardwood species should regenerate the site in a more uniform, even-aged manner. Reserving oak species will provide seed source for regeneration and mast for wildlife. Harvest diameter limit on ash and reserving elm will leave residual basal area and prevent swamping or increasing water levels in lower lying area of sale.						
<b>Regeneration</b>	Aspen root suckering will regenerate the stand.						
<b>Riparian</b>	Southwest corner of sale contains and RMZ along beaver flowage is flagged in pink; only harvest aspen within RMZ.						
<b>Wetlands</b>	Sale contains low-lying ash stand that grades west-to east into a wetland, frozen only operations will protect site, blue paint boundary lies at edge of merchantable timber. Small 1-acre stand of old aspen along the extreme western edge of sale is surrounded by low, wet ground. Frozen only conditions should warrant easy access, slash mats should be used to cut and skid adequately.						
<b>Soil Types</b>	Northwood muck, Deerwood muck, Markey muck						
<b>Environmental Impact</b>	Harvest will occur under frozen conditions.						
<b>Visual Sensitivity</b>	There are no visual concerns for this harvest area.						
<b>Natural Heritage</b>	Database was checked and no resources found.						
<b>Cultural Resources</b>	Database was checked and no resources found.						

## STAND HARVEST PRESCRIPTIONS

<b>Block:</b>	2						
<b>Stand Details</b>							
<b>Section</b>	<b>Township</b>	<b>Range</b>	<b>Timber Type</b>	<b>Acres</b>	<b>Stand Age</b>	<b>NPC</b>	<b>Harv Meth Desc</b>
7	146	34	12	4	46	WFn64	Clear Cut w/Reserves
<b>*NPC</b>	WFn64 - Northern Very Wet Ash Swamp						
No Basal Data							
<b>Current Site Conditions</b>	Current CTYPE is aspen, with SI 80, and overall BA of 110 sq.ft./ac.						
<b>Timber Objectives</b>	Stand is 46 year-old aspen with a component of balsam fir and brich. The silvicultural objective is a clearcut with reserves.						
<b>Regeneration</b>	Aspen root suckering will regenerate the stand.						
<b>Wetlands</b>	No wetlands present within sale boundary but many low-lying wet areas surround the sale.						
<b>Soil Types</b>	Meehan loamy sand, Markey muck						
<b>Environmental Impact</b>	Harvest will occur under frozen conditions.						
<b>Visual Sensitivity</b>	There are no visual concerns for this harvest area.						
<b>Natural Heritage</b>	Database was checked and no resources found.						
<b>Cultural Resources</b>	Database was checked and no resources found.						

# STAND HARVEST PRESCRIPTIONS

## Harvest Methods

### **Clear Cut w/Reserves**

retain marked or designated trees or clumps (Clear Cut)