

FIMBER SALE PRESCRIPTION

Forest, Mineral and Fire Management Unit		
Grayling		
Sale Name (or prescription name)		
West Comp 260 Seed Tree		
Telephone		
(989) 348–6371 ext: 7449		
FAX		
(989) 348-8825		

LEGAL DESCRIPTION

T27N R02W Section(s) 22 Description: SWNE, W1/2SE, E1/2SW, SWSW

Compartment: 260 (2013 YOE) stands 13, 18, 22

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 76 Source: Other GIS (IFMAP) Payment will be made on the basis of these estimated acres.

TREATME	EATMENT & OBJECTIVE					
STAND NUMBER	TREATMENT NAME (IFMAP)	COVER TYPE	ACRES	BA Range	TREATMENT	MANAGEMENT OBJECTIVE
13	72260013-Cut	R9	17	81-110	Seed Tree w/ Reserves	Nat. RP, Mixed Deciduous
18	72260018-Cut	O7	49	1-50	Seed Tree w/ Reserves	Pine, Oak
22	72260022-Cut	R8	10	81-110	Seed Tree w/ Reserves	Nat. RP, Mixed Deciduous

PRESCRIPTION

Stand 13:

- Mark to leave RP down to 30 square feet of residual basal area.
- Aspen is a designated leave species and does not need to be marked

Stand 18:

- RP is a designated leave species and does not need to be marked. Inventory estimates 5% of the canopy cover is RP.
- Mark to leave oak in order to achieve a total residual basal area (RP included) of 30 square feet.

Stand 22:

- Mark to leave RP down to 30 square feet of residual basal area.
- Mark to leave ten white oak trees, preferably stems that have high value to wildlife (open-grown form, good mast producers, den & nest potential).

Access: From North Down River Road, ~1.4 miles north on Wakeley Bridge Road, then west on a two-track road to near the prescription area. Or ~0.5 miles north on Wakeley Bridge Road, then ~1.2 miles northwest on Ketchum Truck Trail to near the prescription area.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT W	ORK ESTIMATED DATE	
None		
CONTRACT WORK CAN BEGIN Timmediately CONTRACT	VORK MUST BE COMPLETED BY: April 30 2014	

1 of 6 R4038 (Rev. 02/27/2008)

PAINT LINE WORK					
☐ This is included in	_	s is not included in the bid			
Paint line work to be	performed: (See	attached map for locations)			
TYPE OF LINE	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR		
Payment Unit Boundar	ry 🗵			Other:	
Sale Boundary - State			⊠ Red	Other:	
Sale Boundary - Privat	te 🗌	\boxtimes	☐ Blue	Other:	
Leave Islands		\square	Green	Other:	
Exclusions to mark a Standards for marking	·	ivate land			
AREA CALCUL ATION					
AREA CALCULATION ☑ This is included in	the bid 🔲 This	s is not included in the bid			
UNIT	METHOD			STANDARD	
Sale		ng Chain			
Cruising Unit	☐ GPS ☐ Strii	ng Chain			
Stand	Mara Davi au i				
Retention Island	GPS Stri	ng Chain			
TIMBER CRUISING SPE This is included in Required Basal Area Cruise Line Direction pacing, or by a unit	Factor: 10	s is not included in the bid 20 Other: or east-west grid, by the sprice of the spric	pacing specifi	ed below if compass and	
CRUISING UNIT	ESTIMATED ACRES	NUMBER OF PLOTS PER ACRE	APPRO	DXIMATE SPACING (CHAINS)	
13	17	1	3 x 3.3		
18, 118, 218	49 total	1	3 x 3.3		
22	10	1	3 x 3.3		
TOTAL NUMBER OF CF	RUISE POINTS	76 (estimate)			
traditional point s revised 6-24-2011, Method for cruising	ruised by using sampling. See A will be provide g edge points).	the V-Bar Method, all other ppendix B and Appendix 8 (Produced in the contract administration of the contract administration	coduct Standar ge 29 the add:	rds And Cruising Manual,	

2 of 6 R4038 (Rev. 02/27/2008)

TIMBER MARKING SPECIFICA						
☐ This is included in the bit	d					
□ Precise specifications to	be delineated at pre-work m	eeting with DNR staff				
Total Merchantable Residua	al BA (Basal Area): Refer to	page 1 PRESCRIPTION for	acceptable residual			
TREA	TMENT	NUMBER	SIZE			
Regeneration Gaps Per Acre Girdled Trees Per Acre	е	NA NA				
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB			
Sawlogs	Single slash on two opposite sides	9.1"	8.0"			
Sawbolts	N/A					
Pulpwood	Single slash on two opposite sides	4.6"	4.0			
TYPE OF WORK	WORK TO BE DONE	STANDS	PAINT COLOR			
Trees marked to leave		13, 18, 22	☐ Green☐ Other			
Trees marked to cut			☐ Orange ☐ Other			
		TENSITIES				
SPECIES /	PRODUCT	RATIO				
SPECIAL MARKING INSTRU	ICTIONS:	1:				
	details by stand & Appendi	iх Н.				
•	tally sheets used must be those p	provided by the DNR Forest Mana	gement Unit.			
RESTRICTIONS						

- 1. Forest Management Division staff must to be able to identify who did what on the timber sale.
- 2. The contractor may not have more than two markers in one payment unit without prior approval.
- 3. Each marker should have an assigned area to mark (not strips).

PAINT

- 1. Paint will be supplied from the Grayling Field Office.
- 2. Call (989) 348-6371 ext 7449 (Tom Barnes) or ext 7443 (Joan Charlebois) to make arrangements for paint.
- 3. Contractor's work schedule must coincide with the DNR work schedule for paint supply.
- 4. The DNR will not be available on weekends or evenings.

DELIVERABLES

- 1. A list of names that marked or cruised each payment unit.
- 2. A summary of paint used (in quarts) by color.
- 3. Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets.
- 4. GPS files and acreages for line running and area calculation work.
- 5. Cruise data entered into TSalePO and exported onto a disk or other electronic format. Use the sale name/number from page 1.

Grayling Management Unit Boundary Marking and Area Calculation

- 1. Establish the red sale boundary line as shown on the attached map. Paint the line so that it can be seen from both inside the sale area and when walking along the line from either direction.
- 2. Establish payment unit lines as shown on the attached map. Paint each payment unit line so that it can be seen from both adjoining payment units and when walking along the line from either direction.
- 3. Marking must be done in dry weather and when tree surfaces are not wet.
- 4. Place bole marks approximately five feet above the ground.
- 5. Each line tree must be stump-marked at its base and extending onto the ground.
- 6. The contractor will use a GPS unit to determine acreage by stand and payment unit to the nearest acre.
- 7. GPS units must be compatible with Pathfinder Office (2.01 or later) or produce an ArcMap-compatible shapefile. Correct and edit (clean up outlier/erroneous points) the GPS files before submitting the data.
- 8. Required GPS receiver signal quality settings for data collection: a minimum of four satellites, with a maximum DOP (dilution of precision) of 5.
- 9. The GPS receiver must log and save DOP and SNR (signal-to-noise-ratio) data.
- 10. Sale boundaries must be recorded as area features, not lines. Isolated stands must be recorded as separate area features.
- 11. Payment Unit lines must be recorded as line features.

Grayling Management Unit Timber Cruising Specifications

- Cruise designated timber using Appendix 8 Product Standards And Cruising Manual (revised 6-24-2011) to determine products and heights of products. Record cruise data by species/product as indicated in Appendix 8. Do not combine any species or products unless told to do so by the marking contract administrator.
- 2. Record BA of residual trees by species unless told otherwise by the marking contract administrator.
- Cruise sheets will be provided upon request. If the contractor prefers to use their own cruise sheets, the sheet format must meet with the approval of the marking contract administrator.
- 4. Cruise at the sampling intensity specified in the Timber Sale Prescription and apply that rate to your GPS-determined stand acreage.
- 5. Separate cruise data by the cruising units indicated on the map.
- 6. Use a 10-factor prism.
- 7. Mark plot locations on a map, using the plot number.
- 8. Unless otherwise agreed to by the contract administrator and the contractor, plot center will be marked by a stake or stick firmly inserted in the ground (not snow) with a ribbon attached to it at a height of not less than two feet above the ground, and labeled with the PU/stand number and plot number. In addition, ribbon at least 12 inches long must be attached to the tree closest to plot center.
- 9. All cruise sheets must be labeled with the compartment #, stand #, cruising unit #, prism factor, date and the cruiser's name. If a portable data recorder is used for cruising, submit a summary sheet that details the rest of the required information.
- 10. A copy of the "TSalePO" program will be provided to the successful bidder for cruise data entry. Original cruise sheets and an electronic copy of the cruise data exported from TSalePO must be delivered upon completion of the contract field work. Note: At the cruise data entry screen in TSalePO, when prompted to enter the stand or cruising unit acres, enter your actual GPS'd acres (rounded to the nearest whole acre) NOT the contract's estimated inventory-based acreage. Enter each cruising unit's data separately, substituting the cruising unit number from the map when prompted for a stand number in TSalePO.

Grayling Management Unit Seed Tree Sale Preparation Individual Tree Marking

- 1. Leave a residual BA as specified in the **Timber Sale Prescription**.
- 2. Mark to leave stems with good form in terms of quality, seed-producing potential and windfirmness.
- 3. Target for removal high-risk, damaged, declining, poor-form and suppressed trees, but reserve stems that have high wildlife value (cavities, den & nest potential, future snags).
- 4. Do not selectively mark stems within multiple-stemmed clumps. Within a multiple-stem clump, either mark all of the stems or leave them all.
- 5. Marking must be done in dry weather and when tree surfaces are not wet.
- 6. Paint must be applied on moss free areas.
- 7. Mark the trees on two opposite sides, approximately five feet above the ground, with enough bole-wrap so that the marks can be seen from all sides of the tree.
- 8. Each marked tree must be stump-marked at the base of the stump between the roots and extending onto the ground.