

# TIMBER SALE PRESCRIPTION

GENERAL  Forcet Mineral and Fire Management Unit										
Date 11/28/12					Forest, Mineral and Fire Management Unit					
Timber Sale Numb				Sale Name (or prescription name)						
71-003-13-01	( ) ( )			,	Indian Springs Oak					
Name					Telephone					
Jason Lewick: Email Address	1			(989) 275 -5 FAX	(989) 275 -5151 ext. 2743					
	higan.gov	5203								
lewickij@michigan.gov (989) 275-6203  Map of Project Area Attached										
LEGAL DESCRIPTION										
T22N R01W Section(s) 13,14 Description Various, See map										
Year of Entry: 2013 Compartment(s):96 Stand Number(s): 17, 18 & 43										
Cating at a d. A and	THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE									
Estimated Acres: 277 Source:  OI  GPS  Other										
Payment will be n	nade on the basis	of these es		TMENT & OR IECTIV	-					
STAND #	COVER TYPE	ACRES	BA	TMENT & OBJECTIV	=	MANAGEMENT OBJECTIVE				
					0-1- 0					
17	09		80-100	crown thinning	Oak Sawti					
18	09		100-120	Crown thinning	Oak Sawti					
43	09	122	80-110	Crown thinning	Oak Sawti	ımber				
<ol> <li>Stand 17 - Thin stand to 60 BA and target suppressed and poor formed oak. Favor growth on quality sawtimber oak crop trees.</li> <li>Stand 18 - Thin stand down to 80 BA by targeting suppressed and poor formed oak and red maple. Favor growth on quality sawtimber oak and maple. All aspen will be spec cut. Where large clones of aspen exist, remove most oak except for a few mast trees and manage for aspen.</li> <li>Stand 43 - Thin stand down to 70 BA by targeting suppressed and poor formed oak and red maple. Favor growth on quality sawtimber oak and maple. All aspen will be spec cut. Some areas contain lower quality black oak.</li> </ol>										
Access  DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK  ESTIMATED DATE										
		12/1/2012								
Boundary line and acreage determination. 12/1/2012										
CONTRACT WORK CAN BEGIN  Immediately										

TYPE OF LINE		WORK TO BE D	OONE NOT APPLICABLE	NOT APPLICABLE		
rivate boundary			$\boxtimes$	☐ Blue ☐ Other:		
ale boundary				Red	Other:	
Sale cutting unit			$\boxtimes$	☐ Yellow	Other:	
Stand type line   Exclusions to mark and why			$\boxtimes$		Other:	
andards for mark	ing lines a	against priva	ate land AREA CALCUI	_ATION		
This is included	in the bid	⊠ This is	s not included in th	e bid		
UNIT	METHO	DD			STANDARD	
Sale	☐ GP	☐ GPS ☐ String Chain ☐ Other				
Payment Unit						
T dyfficit Offic	☐ GP:	S U String	Chain  Other			
Stand	☐ GP:	S String	Chain ☐Other	ECIEICATIONS		
•	in the bid	S String  This is	Chain Other  IMBER CRUISING SP s not included in the			
Stand  Stand  Special Instructions  This is included  equired Basal Are  cruise Line Directions	in the bid	S String  This is  10	Chain Other  IMBER CRUISING SP s not included in the 20 Other:	e bid	SDACING	: (CHVING)
Stand pecial Instructions  This is included equired Basal Are ruise Line Directions	in the bid	S String  This is  10	Chain Other  IMBER CRUISING SP s not included in the 20 Other:  Orth/South	e bid OTS PER ACRE		i (CHAINS)
Stand pecial Instructions  This is included equired Basal Are ruise Line Direction  CRUIS	in the bid	S String  This is  10	Chain Other  TIMBER CRUISING SP is not included in the orth/South  NUMBER OF PL 1/acre (3	e bid  OTS PER ACRE 32 total)	3.3 X 3	(CHAINS)
Stand pecial Instructions This is included equired Basal Are ruise Line Direction CRUIS	in the bid	S String  This is  10	Chain Other  IMBER CRUISING SP s not included in the 20 Other:  orth/South  NUMBER OF PL 1/acre (3 .57/acre (1)	OTS PER ACRE 32 total) 70 total)	3.3 x 3 3.5 x 5	i (CHAINS)
Stand pecial Instructions This is included equired Basal Are ruise Line Direction CRUIS	in the bid	S String  This is  10	Chain Other  TIMBER CRUISING SP is not included in the orth/South  NUMBER OF PL 1/acre (3	OTS PER ACRE 32 total) 70 total)	3.3 X 3	(CHAINS)
Stand  Stand  Special Instructions  This is included  equired Basal Are  cruise Line Directions	in the bid ea Factor: ons East,	S String  This is  10  West or No	Chain Other  IMBER CRUISING SP s not included in the 20 Other:  orth/South  NUMBER OF PL 1/acre (3 .57/acre (1)	OTS PER ACRE 32 total) 70 total) 70 total)	3.3 X 3 3.5 X 5 3.5 X 5	(CHAINS)

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	TIMBER MARKING	SPECIFICATIONS						
$oxed{\boxtimes}$ This is included in the bid	I ☐ This is not included in	n the bid						
□ Precise specifications to I	be delineated at pre-work me	eeting with DNR staff						
<b>Total Merchantable Residual</b>	BA (Basal Area):							
Stand 17 - 60 (Minimum 50 to								
Stand 18 - 80 (Minimum 70 to								
Stand 43 - 70 (Minimum 60 to Maximum 80)								
`	<u> </u>							
TREAT	MENT	NUMBER	SIZE					
Regeneration Gaps Per Acre								
Girdled Trees Per Acre								
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB					
Sawlogs								
Sawbolts								
Pulpwood								
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR					
Trees marked to leave			☐ Green ☐ Other					
Trees marked to cut	$\boxtimes$		☐ Orange☐ Other					
	TALLY IN	TENSITIES						
SPECIES / I	PRODUCT	RATIO						
		1:						
		1:						
-		1:						
1 :								
CDECIAL MADIZING INICTOLIA	CTIONS							

### SPECIAL MARKING INSTRUCTIONS

Paint marks must be dark enough to last for a three year contract. Stump marks must extend from the tree onto the ground (approx. 2/3 tree & 1/3 ground) and Paint marks must be able to be seen from at least three sides of the tree. Do not thin multi-stemmed trees - cut all stems or leave all stems in multi-stemmed trees.

Gallon or quart paint can be provided but contractor must specify preference with plenty of lead time to make sure desired paint is available.

Documentation of residual BA check plots must be available at time of inspection.

Unless otherwise specified, the tally sheets used must be those provided by the Forest, Mineral and Fire Management Unit.

## **RESTRICTIONS**

- 1. Forest, Mineral and Fire Management Division 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. Call Jason Lewicki at (989) 275 4622, to make arrangements for paint.
- 2. Paint will be supplied from Roscommon Field Office.
- 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).
- 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 for any GPS work.

#### When Cruisina:

- Contractor must follow the cruising guidelines in the Michigan DNR's "Product Standards and Cruising Manual"
- Data must be recorded so volume can be determined by stand.
- Cruise all marked units using the V-Bar Cruise Method.
- Cruise all ash and beech trees along with all marked trees to cut by species that will yield one or more 100" sticks with a
  minimum top diameter of four (4) inches DIB for pulpwood and eight (8) inches DIB for sawlogs.
- Limiting distance for borderline trees should be measured for all trees designated to be cut.
- Within all marked stands, residual basal area (merchantable sized trees) at each plot must also be recorded on the cruise sheets.
- Plot centers must be marked according to contract specifications and correspond to a legible 1:15840 scale cruise map. Cruise specifications may be altered as necessary by the LCA.
- Plot locations must be submitted in a .shp or .way file format
- Cruise data must be submitted in a TSale compatible electronic format (microsoft excel, or a .crl file created by a program such as TSale or T-Cruise, or other electronic format approved by the LCA)
- If data is collected on paper then entered electronically, a copy of the original cruise sheets must also be submitted.

### When marking prioritize selection of trees to be cut in the following order:

- Marking must comply with <u>The Compleat Marker</u>, <u>The Complete Marker Addendum</u>, and <u>Within Stand Retention Guidelines</u> (IC4110.)
- 2. Of the residual trees in the marked stands retain the following when possible:
  - Under-represented species.
  - Mast trees at least 3 trees/acre when available.
  - Leave all super-canopy trees or "Legacy Trees" remnants of the historical stands.
  - · Live cavity trees and snags.
- 3. Mark all stems including non-merchantable stems within the regeneration gaps.
- 4. Release 50 potential crop trees per acre.
  - Manage for best tree in place.
  - For trees less than 8" DBH, release all sides of the crown. For trees greater than 8" DBH remove the two most significant crown competitors. (Refer to The Compleat Marker for crop tree specifications.)
  - Be certain that marked trees can be felled using modern logging equipment.
- 5. Remove high risk and cull trees.
- 6. Thin from below until stocking is reached.
- 7. All marking must be done in dry weather and on dry bark surfaces.
- 8. Stump marks are required, winter marking is allowed providing snow depths are low enough to achieve proper stump marks. Check with the LCA if winter work is possible.

**Reserved Species:** Do not mark within 100' of any raptor nest trees. Report these to the LCA as soon as possible and directions will be given at that time.

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