

Jackson Demonstratin State Forest
NORTH FORK SPUR END 2016 Timber Sale
SUMMARY OF SALE INFORMATION

Bid Date:	April 7, 2016	Estimated Net Volume:	2,799 MBF
Redwood	/Mbf (min bid)	THP Number:	1-15-120 MEN
Douglas-fir	\$40.00 /Mbf (fixed rate)	Phone:	(707) 964-5674
Whitewoods	\$40.00 /Mbf (fixed rate)	Information:	Erik Wahl
		Date:	2/11/2016

Table 1. Estimated Total Volume to be Harvested (Bf)

Species	Gross	Net	% Defect & Breakage	% Comp.
Redwood	2,087,207	1,815,870	13%	64.9%
Douglas-fir	1,156,058	982,649	15%	35.1%
Whitewoods	0	0		
Totals	3,243,265	2,798,519		100%

Table 2b. Estimated Volume, Cable and WLPZ (Bf) 93%

Species	Gross	Net
Redwood	1,925,418	1,675,114
Douglas-fir	1,076,825	915,301
Whitewoods	0	0
Totals	3,002,243	2,590,415

Table 2c. Estimated Volume, Tractor and ROW (Bf) 7%

Species	Gross	Net
Redwood	161,789	140,756
Douglas-fir	79,233	67,348
Whitewoods	0	0
Totals	241,022	208,104

Table 3. Estimated Acreage

	Plan acres
Cable	213
Tractor/Road ROW	16
Totals	229

Table 4. Harvest QMD by Species *(not including estimated cable corridor)*

Species	DBH (in.)
Redwood	22.6
Douglas-fir	24.5
Whitewoods	0.0

GENERAL INFORMATION

The list below is not intended to be all inclusive and all requirements of the North Fork Spur End Timber Harvest Plan (1-15-120 MEN) apply. Copies of Sections I and II of the THP are available by request from the State Forest headquarters or available via the internet, [ftp://thp.fire.ca.gov/THPLibrary/North Coast Region/THPs/THPs2015/1-15-120MEN/](ftp://thp.fire.ca.gov/THPLibrary/North_Coast_Region/THPs/THPs2015/1-15-120MEN/) . One complete copy will be provided to the LTO.

TIMBER HARVESTING PLAN

Item 14d

The following are specifications for harvest and retention trees within all areas within the THP.

GROUP SELECTION – HARVEST TREE DESIGNATION (*All Harvest Units*)

Group boundaries are identified with a combination of red/black striped flagging and yellow painted stripes facing the group opening. Within group boundaries, unmarked conifers shall be harvested. Conifers may be selected for retention (see below). Hardwoods within group boundaries will remain standing, with the exception of trees knock over from yarding and those felled to allow for safety. See Item 14(f) below for management of group B species within the GROUP SELECTION silviculture areas.

Harvesting is proposed between group openings. Harvest trees, including hardwoods, shall be marked with blue paint using a horizontal stripe at breast height and a stump mark below the cut line.

RETENTION TREES - All areas within THP

Marking of retention trees is not required; however individual trees may be marked for retention by the RPF or supervised designee with blue or orange paint with a circle at breast height and at the base of the tree.

Retention in Class III ELZs [ref 14 CCR 916.9(h)].

- Retain all large down wood and snags.
- Trees in the ELZ and channel zone which show visible indicators of providing bank or bed stability, excluding sprouting conifers that do not have boles overlapping the channel zone.
- Hardwoods marked for retention shall not be treated with herbicide or felled, except for situations (1-4) discussed below.
- Retention of trees needed to achieve resource conservation standards in 14 CCR 912.7.
- See Section III, Item 26 for explanation and justification for managing hardwoods within Class III ELZ's.

Trees that are identified for retention may be felled in the following situations:

- 1) To provide safe operating corridors for skyline cable operations. See CABLE CLEARANCE TREES below.
- 2) To provide stumps for cable-rigging purposes.
- 3) Compliance with Title 8 CCR, Logging and Sawmill Safety Orders.
- 4) As described in Item 14(g) below.
- 5) Road Right-of-way, see below.

ROAD RIGHT-OF-WAY

Clearing limits for Proposed Seasonal Roads are designated on retention trees with two vertical orange painted stripes facing the flagged centerline. All trees between the clearing limits are proposed for harvest. If necessary to provide adequate clearance for road construction, additional trees may be harvested upon approval of the responsible RPF or designee. Proposed Seasonal Roads are centerline flagged with solid orange Site-Mark® "TRUCK ROAD" in black lettering.

Item 14g

CABLE CLEARANCE TREES: Any tree (within the THP area only) may be harvested/felled if necessary for cable clearance, except for trees located within a WPLZ. Trees located within a WLPZ shall not be felled for cable corridors unless they directly impact the safety of cable-yarding operations; trees felled for safety may be harvested. Compliance with all other applicable Forest Practice Rules and requirements in the THP is required.

TREES SUBSTANTIALLY DAMAGED BY LOGGING OPERATIONS: Merchantable young growth trees damaged during timber operations shall be felled as approved and directed by the Plan Submitter. Damaged trees may not be felled if marked for retention if damaged tree has a cavity potentially used for wildlife.

DOWNED TREES: There shall be no cutting or removal of existing unmarked down trees or logs. These logs may be moved if necessary for clearing truck road rights-of-way and as otherwise necessary to harvest the designated timber. If windthrow of merchantable trees occurs in the logging area prior to completion of operations, windthrown trees outside of the WLPZ may be harvested upon approval of the Plan Submitter.

Item 16

No cable corridors shall be situated such that logs are yarded directly up or down watercourse channels.

With prior approval of the Plan Submitter's designee, the LTO may cable yard any area designated for ground based yarding provided it will afford equal or greater protection to the soil and residual stand.

Item 20

Tractors may be used on slopes up to 20 percent to construct fire lines around concentrations of slash at cable landings provided there are no other limitations on tractor use.

Ground based equipment may be used within the area designated for cable yarding to long-line trees from cable areas with tracks/tires resting in the area designated for ground based equipment including roads.

To assist cable yarding operations, ground based equipment may be used to yard logs within the cable yarding area. New skid trail locations were flagged along ridges, as shown on the Timber Harvest Map, end of Section II. Ground based equipment shall be confined to the new skid trail and on adjacent slopes <50% as needed. The new skid trail has been pre-flagged by the RPF with yellow flagging. See Section III, Item 20 for further discussion.

Item 23

Year-round wet weather restrictions apply and shall be adhered to. A winter operating plan is included in Item 23.

Item 25

New road construction is proposed.

Where new road construction is proposed on slopes greater than 50 percent, the following shall apply: Roads shall be built using full bench construction utilizing an excavator with end-hauling. Sidecast shall be minimized to the extent feasible. Spoils not utilized in road construction shall be disposed of in stable areas with less than 30 percent slopes and outside of any WLPZ, EEZ or ELZ. Message flagging indicates the extent of new road construction on slopes > 50%. Timber Harvest Plan Map Point 1 identifies a location where road construction is proposed on slopes > 50% (and under 65%).

Item 26

All WLPZ's are identified with blue and white stripe "WLPZ" flagging. With the exception of WLPZ width, all protection measures applicable to Class II's apply to springs and wet areas.

There is water drafting 1603 permit approved for use of site WD7.

Item 30

Slash created and trees knocked down by timber operations within 100 feet of the edge of JDSF Road 330 adjacent to the plan area shall be treated for fire hazard reduction. Treatment shall consist of lopping as defined in 14 CCR 895.1: *Severing and spreading of slash so that no part of it remains more than 30 in. (76.2 cm) above the ground (Ref. Sec. 4551.5, PRC).*

See Timber Harvest Map in back of Section II, illustrating the numbered road system.

Other than JDSF Road 330 described above, an alternative to 14 CCR 917.2 (b) is proposed for all other roads within or adjacent to the plan area. Guidance for the LTO to comply with this alternative practice is as follows:

The alternative slash treatment is proposed to reduce the treatment distance from the standard of 100 feet to the proposed alternative distance of 50 feet where all other treatment defined in 14 CCR 895.1 described above shall apply. See Section III, Item 30(b) for an explanation and justification.

Item 33

The California Logging and Sawmill Safety Orders, Title 8 CCR 6259(a), require that “all ... snags which appear to be dangerous to any operation shall be felled.”

All snags within the timber harvest area shall be retained with the exception of snags that pose a fire or safety hazard. If the LTO determines a snag to be a hazard, the LTO has the option to fall the snag for safety purposes.

TIMBER SALE AGREEMENT

<u>Page</u>	<u>Item</u>	<u>Description</u>
3	2D	All timber scaled by "third party" scaling organization, using Revised Scribner Decimal C Log Rule.
3	3A	Unless written extension of time is granted by the Director of Forestry and Fire Protection, at least 2.7 MMBF, shall be paid for by June 30, 2017. This date may be extended or the required volume may be adjusted mutually by the STATE and the PURCHASER due to unforeseen circumstances. All remaining merchantable timber designated for cutting shall be paid for and felled, and all other timber operations shall be completed by November 15, 2017. This Agreement shall terminate on May 15, 2018, by which date all requirements of the Agreement must be completed.
5	7	Production and cost data with respect to all timber harvesting operations and other forestry activities. Required data includes person-hours and equipment-hours spent on each activity, and applicable rates for employees, machines and supervision, and costs for any materials or services needed for completion of activities.
6	10	<p>The minimum log dimensions for utilization is 10 feet in length and 8 inches in small-end diameter.</p> <p>Any log segment presented for scaling shall be scaled as merchantable which has a net volume of at least 10 board feet, providing a net merchantable scale of at least 25 percent of the total volume.</p>
6	11B	Payment for scaling and reporting services performed by the scaling organization shall be made by the Purchaser.
7	11J	Conduct a minimum of one check scale per month per scaler by the scaling organization, during the operating season, to document scaler proficiency.
8	11P	Weekly reports of faller days and volume by unit. This information to be available for collection by the Timber Sale Officer or delivered to State Forest HQ no later than the following Tuesday.
10	13A	<p>All terms, provisions and requirements of the Forest Practice Rules and the Timber Harvesting Plan (1-15-120 MEN) are made part of the Timber Sale Agreement.</p> <p>On completion of operations satisfactory to the Timber Sale Officer, the operator shall certify by letter to the STATE, all operations are complete and comply with Forest Practice Rules and THP.</p>
10	13A1	<p>A pre-work conference to be attended by representatives of the State and the Purchaser, including subcontractors is required before operations can begin.</p> <p>The Purchaser is responsible to ensure all contractors are provided with relevant applicable documentation.</p>
10	13A2	No timber operations shall be conducted after January 31 of any year until the State or the Purchaser has completed required surveys for northern spotted owls, and extension of the No-Take determination has been received from the appropriate reviewing agency.

<u>Page</u>	<u>Item</u>	<u>Description</u>
11	13A3	Flagging of all skid trails required at least two weeks in advance and notify the Timber Sale Officer for approval.
11	13A5	Minimum distance between new skid trails is 100 feet, unless waived by the Sale Officer.
11	13A7	Merchantable trees felled and bucked to log lengths, limbed to the 6-inch top, and the top bucked at the time of felling.
12	13A8	All slash created by timber operations within 100 feet of JDSF Road 330 shall be lopped to the extent that no portion shall remain over 12 inches above the ground for the first 50 feet and 24 inches above the ground for the remaining 50 feet. Slash created by timber operations within 50 feet of all other seasonal and permanent roads shall be lopped to the extent that no portion shall remain over 24 inches above the ground.
12	13A9	Maximize the extent of spreading slash to avoid or minimize the need for piling and isolating slash for burning. Logging wastes on landings on permanent and seasonal roads shall be segregated into large materials which can be utilized by firewood cutters. Material at least 8 inches in diameter and 6 feet in length is considered suitable for firewood.
12	13A11	Cable yarding system requirements are given.
12	13A12	Location of cable corridors will be flagged, mapped and approved by Sale Officer prior to rigging. Distance between cable corridors, no less than 200 feet measured from the back of cable road.
13	13A16	No permanent painted messages. Use temporary signs to be removed once their function is complete.
13	13A19	Mulching standard is at least 95% coverage to a minimum depth of four inches.
14	14A	A total of 13 groups are located within harvest units A, C, E and F, as illustrated on the North Fork Spur End Timber Sale Agreement Map 1 of 2 (Exhibit A, Attachment 2) and described in the Timber Harvest Plan (THP 1-15-120 MEN). Group boundaries are identified with black and red striped flagging combined with trees marked with yellow vertical striped paint. The PURCHASER shall fell, buck and yard all merchantable conifers within group boundaries, with the exception of any tree marked for retention. All hardwoods are to remain standing, with the exception of trees that need to be felled to allow for safe falling and yarding operations and where elsewhere described in this agreement. The PURCHASER shall slash and lop all created group openings. Slashing shall be accomplished by felling all unmerchantable conifers that remain after logging which has a stem diameter of at least one inch (stump height) and a height of at least six feet. Slashing of hardwoods is not required. All slash created by timber operations and slashing of Unmerchantable conifers within boundaries of groups shall be lopped to the extent that no portion shall remain over 30 inches above the ground. Lopping and slashing shall be complete no later than December 15, 2017.
15	17A3	Road width is 14 feet including 1 foot shoulder on each side of a 12 foot traveled surface. Width may be wider on curves.

<u>Page</u>	<u>Item</u>	<u>Description</u>
15	17A5	Full bench road construction on slopes exceeding 50%.
16	17A6	Seasonal roads will be outsloped (2-5%) without a berm or ditch. Rolling dips will be constructed on road grades of 10% or less during road construction at locations proposed by the Purchaser, approved by the Timber Sale Officer. The Sale Officer will specify the location for drainage structures on roads greater than 10% prior to final road grading.
17	17H	Maintenance work to be done within 15 days of end of hauling operation on each road and immediately on completion of hauling on any road after October 15.
18	17M	Within no less than 15 days prior to the anticipated completion of log hauling, rolling dips shall be installed by the PURCHASER on approximately 2.3 miles of Road 330.
18	17P	The PURCHASER shall, to the satisfaction of the Timber Sale Officer, provide and apply primer and paint on an existing bare metal gate located on JDSF Road 1000, just west of the intersection with JDSF Road 200 and apply paint on an existing gate located on JDSF Road 330, at the intersection of JDSF Road 1000.
20	20	In addition to required fire tools complement, have available to the sale area for fire suppression purposes a "Park wagon" or similar self-propelled vehicle of at least 1,000 gallon capacity.
31	1	A deposit of \$25,000 must be submitted with the bid.
32	3	Furnish STATE copies of Timber Yield Tax calculations and reporting forms.
36	4	Performance security of \$50,000 required prior to contract approval.

NORTH FORK SPUR END THP FLAGGING CODE

/ = Striped • = Polka dot ■ = Checkered

DESIGNATED ACTIVITY	FLAGGING COLOR
Timber harvesting boundary	pink-glo Site-Mark® "TIMBER HARVEST BOUNDARY" in black lettering
Class I watercourse (centerline)	solid blue
Class II watercourse (centerline)	blue/white stripe
Wet Area/Seep/Spring	blue/white stripe & white (combination)
Class II/Spring/Seep/Wet Area WLPZ	blue/white stripe Site-Mark® "LAKE AND WATERCOURSE PROTECTION ZONE" in black lettering
Class I WLPZ	blue/white stripe Site-Mark® "LAKE AND WATERCOURSE PROTECTION ZONE" in black lettering & solid blue (combination)
Class III watercourse (centerline)	blue•white polka-dot
Tractor/Cable boundary	red/white stripe
Tractor road (skid trail)	solid yellow
Message flag	pink/black stripe & yellow (combination)
Survey stations, Cruise stations	red•white polka-dot
Cable Road	solid red, unless otherwise approved by the RPF
Equipment Limitation Zone (ELZ) & Equipment Exclusion Zone (EEZ)	solid red & solid white (combination)
Proposed Road grade & centerline	solid orange Site-Mark® "TRUCK ROAD" in black lettering
Faller Stripe	solid white
Special Treatment	orange/white stripe Site-Mark® "SPECIAL TREATMENT ZONE" in black lettering
Research/Demonstration	Solid purple