

Jackson Demonstration State Forest

**West Chamberlain Timber Sale**

SUMMARY OF SALE INFORMATION

Bid Date:	April 9, 2013	Estimated Net Volume:	2,815 MBF
Minimum Bid:		THP Number:	1-12-112 MEN
Redwood	\$325 /Mbf	Information:	Fred Postler
Fixed Price:		Phone:	(707) 964-5674 ext.120
Douglas-fir	\$20 /Mbf	Date:	3/25/2013
whitewoods	\$20 /Mbf		

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

Species	Gross	Net	% Defect & Breakage	% Comp.
Redwood	1,764,801	1,535,380	13%	54.6%
Douglas-fir	1,466,559	1,275,910	13%	45.3%
Whitewoods	3,654	3,250	11%	0.1%
Totals	3,235,015	2,814,540		100%

Table 2a. Estimated Volume, Cable (Bf) 95%

Species	Gross	Net
Redwood	1,588,920	1,382,360
Douglas-fir	1,322,686	1,150,740
Whitewoods	2,517	2,240
Totals	2,914,124	2,535,340

Table 2b. Estimated Volume, Tractor and ROW (Bf) 5%

Species	Gross	Net
Redwood	175,881	153,020
Douglas-fir	143,873	125,170
Whitewoods	1,137	1,010
Totals	320,891	279,200

Table 3. Estimated Acreage

	Plan acres	NSO Buffer	Other No Harvest Buffers	Net acres
Cable	229		10	219
Tractor + Road ROW	14		1	13
WLPZ	48		24	24
Totals	291			256

Table 4. QMD by Species (not including estimated cable corridor volume ~17%)

LSD Selection (includes WLPZ)		Commercial Thin (WLPZ listed separately)	
Species		Species	WLPZ
Redwood	20.0	Redwood	19.2 18.7
Douglas-fir	20.1	Douglas-fir	22.0 15.3

## **GENERAL INFORMATION:**

The list below is not intended to be all inclusive and all requirements of the West Chamberlain Timber Harvest Plan apply. Copies of Sections I and II of the THP are available by request from the State Forest headquarters. One complete copy will be provided to the LTO.

## **TIMBER HARVESTING PLAN:**

Item 14d: Harvest trees (Commercial Thin, Selection, and WLPZ) were marked with pink-glo paint using a horizontal stripe at approximately breast height and a stump mark below the cut line. Individual trees were marked for retention with pink-glow paint with a circle (bull's eye) at breast height and at the base of the tree. Designated retention trees present on geologically sensitive areas were marked with orange paint using a horizontal stripe with a circle (bull's eye) at breast height and a stump mark below the cut line. Proposed harvest of these retention trees requires consultation with the RPF.

No harvesting of downed trees or old logs from previous operations is proposed. See Item 14(g) below.

Unmarked trees may be felled in the following situations:

1. To provide safe operating corridors for skyline cable operations.
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 (R-O-W):

Proposed logging roads are flagged with solid orange Site-Mark® "TRUCK ROAD" in black lettering. The clearing limits are designated with two vertical orange stripes that are painted on trees to be retained and are facing the 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 supervised designee.

The LTO may only fall and harvest unmarked trees subject to the provisions of Item 14 (d) & (g).

Item 14f: Marking of hardwoods to be harvested conforms to the marking guidelines of item 14(d). Tanoak will be harvested to reduce the competition with conifers within the commercial thin area. Tanoak within the selection harvest will only be harvested if they fall within a cluster selection. Madrone and chinquapin are not proposed for harvest except as necessary to facilitate road construction, yarding operations, and for safety.

Slash generated at tractor landings shall be removed from the landing (to the greatest extent feasible) and spread on skid trails within the tractor yarding portions of the harvest area. Slash generated at cable landings shall be spread on the landing, placed in a burn pile or removed in a manner which will leave roads passable by logging trucks.

Item 14g: Wedges, jacks and cable pulling methods shall be used as needed to direct the fall of trees away from watercourses, and sensitive areas, to minimize damage to regeneration and residual timber, to minimize breakage, and to fell to lead. There shall be no trading of trees without pre-approval from the Plan Submitter's designee.

CABLE CORRIDORS: Outside of the WLPZ, to the extent feasible, cable yarding corridors shall be limited to 10 feet in total width, with the understanding that some corridors may be wider as a result of silviculture prescription or harvesting trees that have been substantially damaged by timber operations. Cable corridors shall be pre-planned and pre-located by the LTO.

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:

Damaged trees may not be felled if within a WLPZ, if marked for retention, or if the damaged tree has a cavity potentially used by wildlife. Otherwise, merchantable young growth trees damaged during timber operations shall be felled and yarded as approved and directed by the Plan Submitter.

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 15a: SOD Compliance: LTO is responsible for ensuring all vehicles are free from regulated host material. If logs will be delivered to a destination other than stated a minor amendment is required.
- Item 18: Soil stabilization treatments required under item 18 will be accomplished using native grass seed or benign non-native grass species and weed free straw mulch.
- Item 23: Wet weather road use plan (applies year round).
- Item 26: Class II watercourses will have 50 foot no-cut WLPZ inner band (except for harvest of cable corridor trees where needed). Except for the necessary removal of trees for safe cable yarding operations, no trees shall be harvested from within the bed and bank zone of the watercourse. There is a water drafting plan and JDSF has an approved 1600 permit for the drafting sites. **Note: McGuire's pond (WD8) will likely be unavailable for water drafting. Water may be available at a well currently under construction near the Forest Learning Center.**
- Item 30: Slash created and trees knocked down by timber operations within 100 feet of the edge of JDSF Road

330 shall be treated for hazard reduction. All other seasonal roads have an alternative slash treatment distance of 50 feet.

Item 32: There are no known Northern Spotted Owl (NSO) activity centers located within the plan area. No timber operations shall occur after February 1<sup>st</sup> until a current letter of technical assistance is amended into the THP.

Item 33: Retain all snags within the timber harvest area, with the exception of snags that pose a fire or safety hazard, or are within the alignment of roads proposes for construction.

Copies of Sections I and II of the THP are available by request from the State Forest headquarters.

**TIMBER SALE AGREEMENT**

Page Section Item

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, all merchantable timber designated for cutting shall be paid for and cut on or before June 30, 2014. This date may be extended or the required volume may be adjusted mutually by the STATE and the PURCHASER due to unforeseen circumstances. All merchantable timber designated for cutting must be removed, and all other timber operations must be completed by November 15, 2014. This Agreement shall terminate on April 15, 2015, by which date all requirements of the Agreement must be completed.

3 3B Notification and permission is required for operations on weekends or State holidays. There shall be no log hauling on weekends or holidays between Memorial Day weekend and Labor Day.

5 7 The Purchaser shall provide 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, machine and supervision, and costs for any materials or services needed for completion of activities.

Daily water use data with respect to water drafting activities shall be provided.

6 10 The minimum log dimensions for utilization is 10 feet in length and 8 inches in small-end diameter.

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.

7 11B Payment for scaling and reporting services performed by the scaling organization shall be made by the Purchaser.

<u>Page</u>	<u>Section</u>	<u>Item</u>
8	11J	Conduct a minimum of one check scale per month per scaler by the scaling organization, during the operating season, to document scaler proficiency.
9	11P	The Purchaser shall provide weekly reports of faller days and volume felled. This information is to be available for collection by the Timber Sale Officer or delivered to State Forest HQ no later than the following Tuesday.
10	13A	All terms, provisions and requirements of the Forest Practice Rules and the Timber Harvesting Plan (1-12-112 MEN) are made part of the Timber Sale Agreement.  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.
11	13A1	A pre-work conference to be attended by representatives of the STATE, the Purchaser, and all subcontractors is required before operations can begin.  The Purchaser is responsible to ensure all contractors are provided with relevant applicable documentation.
11	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.
11	13A3	Flagging of all skid trails is required at least two weeks in advance and the Timber Sale Officer will be notified for approval.
12	13A5	Minimum distances permitted between new skid trails is 100 feet, unless waived by the Sale Officer.  Erosion control requirements apply year-round. Erosion control structures shall be installed on all skid trails and temporary or seasonal truck roads within 30 days of completion of their use, or at the end of day if the U.S. Weather Service forecast is a "chance" (30% probability or more) of

Page Section Item

rain before next working day or at any time that the equipment needed to install such structures leaves the sale area. All wet weather and winter period operations of the THP apply. Timber operations may be suspended by the sale officer if damage is occurring.

- 12 13A7 Merchantable trees felled and bucked to log lengths, limbed to the 8-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.
- 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.

- 13 13A11 Cable yarding system requirements are given.
- 13 13A12 Locations of cable corridors will be flagged, mapped and approved by Sale Officer prior to rigging. The distance between cable corridors shall be no less than 200 feet measured from the back of cable road.
- 14 13A16 No permanent painted messages. Use temporary signs to be removed once their function is complete.
- 14 13A20 Mulching standard is at least 95% coverage to a minimum depth of four inches.
- 15 13A22 Camp 6, Waldo North and Waldo South study plot treatments: Each of the three study areas is located in recently logged areas - Camp 6 THP (completed) and Waldo THP (active) - and consists of three ½ acre plots.

Within and adjacent the Waldo North and South study areas, up to 50 trees larger than 12 inches DBH and

Page Section Item

up to 100 trees 4 to 12 inches DBH that are marked with pink paint will be felled and bucked to an 8 inch DIB not exceeding 16 feet 6 inches in length. Any marked hardwood shall be topped. All trees located within and adjacent to the Camp 6 study areas that are marked in pink paint will be treated in the same manner.

Retention trees are marked with white paint and have a metal tag at DBH. Minimize damage to retention trees and redwood sprouts by felling away from plot locations towards the seasonal road. This will also protect approximately 180 planted conifer seedlings marked with orange or red pin flag within the Waldo South study area.

Slash treatments within each plot and 10 feet around its boundary shall consist of felling of all unmerchantable vegetation less than 4 inches DBH except green redwood sprouts. Logging slash shall be lopped to maximum height of 24 inches. Slash within one foot of any redwood stump measured 10 inches or larger shall be moved off the stump.

Slash treatments to maximum height of 24 inches within 50 feet from seasonal roads adjacent to Waldo North and Waldo South study areas, and within 100 feet from seasonal roads adjacent to Camp 6 study areas.

ATV shall be used to access all work sites on seasonal roads.

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| 17 | 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.   |
| 17 | 17A5 | Full bench road construction on slopes exceeding 50%, keeping sidecast to less than 3 feet in thickness.  |
| 17 | 17A6 | Seasonal roads will be outsloped (2-5%) without a berm or ditch. Rolling dips will be constructed on road grades of 7% 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 7% prior to final road grading. |
| 18 | 17D  | All required culvert installations to be complete   |

Page Section Item

prior to log hauling on existing roads and concurrent with road construction and prior to use on proposed roads.

Dispose culverts at an off-forest public disposal site.

19 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.

20 17N Install an iron gate located on Road 330D near the 330D/330 intersection, completed within one week of Road 330D construction completion.

20 17O The Purchaser shall provide and apply lignin (or equivalent dust treatment substance acceptable to the STATE) on approximately 5.7 miles on Roads 330 and 310.

22 20 In addition to required fire tools complement, have readily available to the sale area for fire suppression purposes a "water wagon" or similar self-propelled vehicle of at least 1,000 gallon capacity.

33 1 A deposit of \$16,000 must be submitted with the bid.

34 3 Furnish STATE copies of Timber Yield Tax calculations and reporting forms.

38 4 Performance security of \$40,000 required prior to contract approval.

**WEST CHAMBERLAIN 2013 FLAGGING CODE**

<b>DESIGNATED ACTIVITY</b>	<b>FLAGGING COLOR</b>
Timber harvesting area	Pink-glo Site-Mark® "TIMBER HARVEST BOUNDARY" in black lettering.
Silviculture Boundary	Pink/black stripe
Class II watercourse centerline	Blue/white stripe
Class II WLPZ	Blue/white stripe Site-Mark® "LAKE AND WATERCOURSE PROTECTION ZONE" in black lettering.
Class III watercourse centerline	Blue/white polka-dot
Wet Area/Class III WLPZ	Blue/white stripe Site-Mark® "LAKE AND WATERCOURSE PROTECTION ZONE" in black lettering
Tractor/Cable boundary	Red/White stripe
Tractor road	Solid yellow
Proposed road-grade centerline	Solid orange Site-Mark® "TRUCK ROAD" in black lettering
Landing at end of road	Three solid orange flags–Plain or Site-Mark® "TRUCK ROAD" in black lettering
Road construction by excavator	Solid orange and solid white (at uphill side of ROW)
Message flag	Pink/black stripe AND solid color (lime green)
Survey & cruise stations	Red/white polka-dot
Faller Strip	Solid white
Cable road	Solid red
Equipment Limitation Zone (ELZ)	solid red and solid white
Archaeological site boundary	White/orange stripe Site-Mark® "Special Treatment Zone" (STZ) in black lettering

**CAMP 6, WALDO NORTH AND WALDO SOUTH STUDY AREAS FLAGGING CODE**

<b>DESIGNATED ACTIVITY</b>	<b>FLAGGING COLOR / LOCATION MARKER</b>
Plot Boundary	Solid Purple Flagging
Plot Boundary Corner	White PVC Pipe
Planted Redwood Seedling	Orange or Red Pin Flag