

Jackson Demonstration State Forest

Orchard 2013

SUMMARY OF SALE INFORMATION

Bid Date:	June 27, 2013	Estimated Net Volume:	2,646,800	Bf
Minimum Bid:		THP Number:	1-13-007 MEN	
Redwood	\$335 /Mbf	Information:	Dave Derby	
Fixed Price:		Phone:	(707) 964-5674	ext. 113
Douglas-fir	\$20 /Mbf	Date:	5/28/2013	
Whitewoods	\$20 /Mbf			

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

Species	Gross	Net	% Defect & Breakage	% Comp.
Redwood	1,487,142	1,293,810	13%	48.9%
Douglas-fir	1,250,355	1,087,810	13%	41.1%
Whitewoods	297,960	265,180	11%	10.0%
Totals	3,035,457	2,646,800	13%	100%

Table 2a. Estimated Volume, Cable & WLPZ (Bf) 65%

Species	Gross	Net
Redwood	900,859	783,750
Douglas-fir	839,383	730,260
Whitewoods	243,967	217,130
Totals	1,984,209	1,731,140

Table 2b. Estimated Volume, Tractor & ROW (Bf) 35%

Species	Gross	Net
Redwood	586,283	510,070
Douglas-fir	410,972	357,550
Whitewoods	53,993	48,050
Totals	1,051,248	915,670

Table 3. Estimated Acreage less existing roads

	Net acres
Cable	120
Tractor	56
WLPZ	60
Roads and powerline	4
Totals	240

Table 4. Quadratic Mean Diameter by Species

Species	DBH in inches
Redwood	19
Douglas-fir	22
Whitewoods	20

GENERAL INFORMATION

The list below is not intended to be all inclusive and all requirements of the Orchard Timber Harvest Plan (1-13-007 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/THPs2013/1-13-007MEN/](ftp://thp.fire.ca.gov/THPLibrary/North_Coast_Region/THPs2013/1-13-007MEN/) Orchard THP (1-13-007 MEN). One complete copy will be provided to the LTO.

TIMBER HARVESTING PLAN

Item 14.d: Harvest trees within the alternative prescription area will not be marked. Only eucalyptus shall be cut or girdled in this area. The RPF or his designee shall instruct the LTO in the proper identification of the trees to be cut. The RPF or his designee shall supervise the falling.

Harvest trees within the Selection area are marked with blue paint. This includes hardwoods which must be harvested.

Unmarked trees 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) Any eucalyptus tree located within the Special Treatment silvicultural area as directed by the RPF.
- 6) Any tree located within the clearing limits of the road right-of-way. Boundaries of the right-of-way are designated in orange paint with two vertical stripes.

Item 14.f: All hardwoods marked within the selection silvicultural area are to be felled, topped, and may be removed on request. Eucalyptus located within the alternative prescription area shall be cut or girdled.

There are 18 eucalyptus trees that have been located within the Selection silvicultural area (refer to the Eucalyptus Stump Treatment map). All of these trees shall be felled to prevent further invasion of this exotic species and to maintain relative site occupancy of group A species. Slash from these trees shall not be moved off-site. The stumps of these trees shall be cut to within 3" of the soil and covered with a heavy plastic barrier extending at least 24" out from the outside edge of the stump. The plastic barrier material shall be secured around the edge. Slash or soil shall be placed on the barrier material to prevent it from being blown off by the wind. Care shall be taken to prevent tears in the barrier material during installation. The State shall be responsible for installation of the plastic barrier.

Slash generated at tractor and 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 truck. For tractor landings, slash may be spread along skid trails within the tractor yarding portions of the harvest area. Slash generated at any location may also be treated by chipping with permission of the RPF.

Item 14.g: 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.

Outside of the WLPZ, to the extent feasible, cable yarding corridors shall be limited to 10 feet in total width. Cable corridors shall be pre-planned and pre-located by the LTO.

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 WPLZ shall not be felled for cable corridors unless they directly impact the safety of cable-yarding operations; trees felled for safety may be harvested.

Merchantable young growth trees damaged during timber operations shall be felled as approved and directed by the RPF.

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.

Item 15: 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 16: 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 18: Soil stabilization treatments required under item 18 will be accomplished with weed free straw. In the THP the coverage rate states at least 90% of the surface to a depth of at least three inches. However, the requirement stated in the Timber Sale Contract shall be met: 95% surface coverage to a depth of at least four inches unless stated otherwise.

Traveled surfaces of logging roads shall be treated for dust abatement and kept in firm condition.

Detailed requirements for geology map points 1, 2, 3. A pre-work meeting with the Geologist, the RPF, and the LTO is required prior to performing work at these points.

All waterbreaks shall be installed no later than the beginning of the winter period of the current year of timber operations.

Installation of drainage facilities and structures is required from October 15 to November 15 and from April 1 to May 1 on all constructed skid trails and tractor roads prior to sunset if the National Weather Service forecast is a "chance" (30% or more) of rain within the next 24 hours.

Item 21: All tractor operation restrictions apply.

Item 23: Year-round wet weather restrictions apply and shall be adhered to.

A winter operating plan is included in item 23 and shall be adhered to.

Item 25: The THP contains road related map points which include Geology map points associated with the abandonment of a jeep road.

Item 26: There is a water drafting plan and a 1603 permit. Water drafting sites approved for use include a water tank on Road 600 and a manmade pond on Road 500. The manmade pond is not subject to the 1603 permit. In addition to the Road 600 draft site, the 1603 permit addresses the removal of the jeep road fill and the replacement of two Class II culverts.

Item 32: No timber operations shall occur until Northern Spotted Owl (NSO) protocol surveys have been completed for the current, and/or immediately preceding survey period, the results have been provided to CAL FIRE to be evaluated for consistency with the plan and the protocol, and the results have been amended into the plan.

Item 33: 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.

Item 36: A meeting is required prior to operations.

TIMBER SALE AGREEMENT

<u>Page</u>	<u>Item</u>	<u>Description</u>
3	2B	The final total value (i.e. based on 100% mill scale) may exceed the estimated total shown above by 15%.
3	2D	All timber scaled by "third party" scaling organization, using Revised Scribner Decimal C Log Rule.
3	3A	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.
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. Daily water use data with respect to water drafting activities shall be provided.
5	8	Domestic Processing of timber required.
6	10	The minimum log dimensions for utilization is 10 feet in length and 8 inches in small-end diameter.
6	11B	Payment for scaling and reporting services performed by the scaling organization shall be made by the Purchaser.
7	11I	At least three loads scaled within the previous five operating days shall be left rolled out in the mill yard where scaled to facilitate check scaling, unless otherwise approved by the Sale Officer.
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.
9	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	All terms, provisions and requirements of the Forest Practice Rules and the Timber Harvesting Plan (1-13-007 MEN) are made part of the Timber Sale Agreement. Upon 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.
10	13A1	A pre-work conference to be attended by representatives of the State and the Purchaser, including subcontractors is required before operations can begin. A logging plan is required to be submitted to the Timber Sale Officer at least two working days prior to the pre-work conference.
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 required at least two weeks in advance and notify the Timber Sale Officer for approval.

<u>Page</u>	<u>Item</u>	<u>Description</u>
11	13A5	<p>Minimum distance between new skid trails is 100 feet, unless waived by the Sale Officer.</p> <p>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 rain before next working day or at any time that the equipment needed to install such structures leaves the sale area.</p>
12	13A7	<p>Merchantable trees felled and bucked to log lengths, limbed to the 8-inch top, and the top bucked at the time of felling.</p> <p>All hardwood trees felled shall be topped at the time of felling.</p>
12	13A8	<p>All slash created by timber operations within 100 feet of JDSF Road 500 lopped to 30 inches above the ground.</p> <p>Slash within 50 feet of all other roads lopped to 30 inches above the ground.</p>
12	13A9	<p>Maximize the extent of spreading slash to avoid or minimize the need for piling and isolating slash for burning.</p> <p>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.</p>
13	13A12	<p>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.</p>
13	13A13	<p>Corridor width not to exceed 10 feet.</p>
13	13A16	<p>No permanent painted messages. Use temporary signs to be removed once their function is complete.</p>
14	13A20	<p>Mulching standard is at least 95% coverage to a minimum depth of four inches.</p>
16	17D	<p>All required culvert installations to be complete prior to log hauling on existing roads prior to October 15 of the first year of operations.</p>
17	17G	<p>Road surface must be treated for dust abatement. The purchaser may use surfacing chemicals for all roads as approved by the Timber Sale Officer.</p>
18	17H	<p>If the STATE cannot provide water for the roads and the Timber Sale Officer directs the purchaser to provide water from an alternative source the STATE will compensate the Purchaser \$200/day that the Purchaser supplied water from an alternative source.</p>
18	17I	<p>The PURCHASER shall provide and apply one application of calcium lignosulfonate (lignin), or an equivalent dust treatment substance acceptable to the STATE as called for by the Timber Sale Officer for dust abatement. The road to be treated is 3.7 miles of Road 500 from the intersection of the Caspar Orchard Road and the Caspar Logging Road to the intersection of Road 500 and Road 513.</p>
18	17J	<p>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.</p>
18	17L	<p>The PURCHASER shall construct approximately 1.4 miles of new temporary truck road.</p>
19	17M	<p>The PURCHASER shall provide any culvert or other material needed during the course of the operation for temporary truck road or skid trail watercourse crossings.</p>

<u>Page</u>	<u>Item</u>	<u>Description</u>
19	17N	A Stream Alteration Permit will be provided for work on replacement of two Class II culverts at map point 6 and the restoration of a stream channel at map point 2.
19	17O	Four new ditch relief culverts shall be installed at map points 4, 5, 11, and 25. Five ditch relief culverts shall be replaced at map points 17, 19, 20, 21, and 24. Four downspouts will be replaced at map points 7, 8, 9, and 10. Four culvert installations will have rock surfacing replace at a rate of 10 cubic yards per installation.
19	17P	Two gates shall be installed at the intersections of Road 500 with Road 521 and Road 513.
19	17R	550 cubic yards of 1.5" minus rock shall be purchased, delivered, and compact on portions of Road 620.
19	17S	Road 521 shall be abandoned from map point 13 to map point 13. The PURCHASER shall block the road and install large waterbars. The road fill will be removed at map point 2 as specified in the THP and the Stream Alteration Agreement.
20	17T	Road fill shall be removed at map point 1 and 10 yards of riprap shall be placed in the reestablished class III watercourse channel.
20	17U	Eucalyptus trees within the Selection silviculture area shall be felled and the stumps cut flush within 3" of the ground. Vegetation and slash within 30" of the stump shall be removed.
20	17V	Timber shall be hauled out Road 500 west to Highway 1.
21	20	In addition to required fire tools complement, have available to the sale area for fire suppression purposes a "water wagon" or similar self-propelled vehicle of at least 1,000 gallon capacity.
22		Materials list.
23		Map Points.
34	1	A deposit of \$12,000 must be submitted with the bid.
35	3	Furnish STATE copies of Timber Yield Tax calculations and reporting forms.
39	4	Performance security of \$28,000 required prior to contract approval.

Orchard Flagging Code

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
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 & white or yellow (combination)
Survey stations, Cruise stations	red/white polka-dot
Cable Road	solid red*
Equipment Limitation Zone (ELZ) & Equipment Exclusion Zone (EEZ)	solid red & solid white (combination)
Property Line	solid red Site-Mark® "PROPERTY LINE" in black lettering
Special Treatment Area	orange/white stripe Site-Mark® "SPECIAL TREATMENT AREA" in black lettering
Special Treatment linear feature	Orange/white stripe
Faller Strip	solid pink*