

Jackson Demonstration State Forest
Riley Ridge 2012 Timber Sale
SUMMARY OF SALE INFORMATION

Bid Date:	February 28, 2012	Estimated Net Volume:	4,965 mbf
Minimum Bid:		THP Number:	1-11-012 MEN
Redwood	\$297 /Mbf	Information:	David Ahmadi
<i>Fixed Price:</i>		Phone:	(707) 964-5674
Douglas-fir	\$20 /Mbf	Date:	01/05/12
Whitewoods	\$20 /Mbf		

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

Species	Gross	Net	& Breakage	% Comp.
Redwood	4,646,922	4,042,820	13%	81.4%
Douglas-fir	1,047,827	911,610	13%	18.4%
Whitewoods	11,795	10,500	11%	0.2%
Totals	5,706,544	4,964,930	13%	100%

* Volume includes 80,000 BF of redwood and 10,000 BF of Douglas-fir to be delivered to Parlin Fork

Table 2a. Estimated Volume, Cable (Bf) (55%)

Species	Gross	Net
Redwood	2,420,255	2,105,620
Douglas-fir	700,370	609,320
Whitewoods	10,846	9,650
Totals	3,131,471	2,724,590

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

Species	Gross	Net
Redwood	285,553	248,430
Douglas-fir	140,628	122,350
Whitewoods	949	840
Totals	427,130	371,620

Table 2c. Estimated Volume, Helicopter (Bf) (38%)

Species	Gross	Net
Redwood	1,941,115	1,688,770
Douglas-fir	206,828	179,940
Whitewoods	0	0
Totals	2,147,943	1,868,710

Table 3. Estimated Acreage

	Plan acres	NSO Buffer	Net acres
Cable	211	13	198
Helicopter	145	2	143
Tractor	25		25
Right-of-Way	3		3
WLPZ	74		74
Totals	458		443

Table 4. QMD by Species (not including estimated cable corridor volume ~12%)

Species	
Redwood	24.4
Douglas-fir	25.5
Whitewoods	21.8

GENERAL INFORMATION:

The list below is not intended to be all inclusive and all requirements of the Riley Ridge 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: All harvest trees are marked with blue paint. This includes hardwoods which must be harvested.

Right-of-way boundary trees are painted with two vertical orange stripes. Trees to be felled within the right-of-way are not marked.

Logical landing sites have been marked the same as the road right-of-way. Additional landings will need to be approved by the Timber Sale Officer.

Item 14f: All hardwoods marked within the plan area are to be felled, topped, and may be removed on request.

Slash at tractor landings is to be spread on skid trails and packed with tractors. Slash at cable landings will be disposed of as directed by the Timber Sale Officer.

Item 14g: Unmarked trees located in a WLPZ may only be felled if they directly impact the safety of cable operations. No trees located within the channel zone of a class I or II watercourse may be felled for cable clearance. Trees felled as allowed above may be harvested.

Unmarked trees within a WLPZ that are Damaged, marked for retention, or trees that have cavities shall be left.

Item 15b: 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: Helicopter restrictions and mitigations apply.

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.

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

Restrictions for geology map points 2, 3, 4, 7, 8, 10, 12, 14, 15, 16, 18, 20 and 21. Geology map point 8 requires RPF and geologist approval of cable corridors.

Item 20: A skid trail has been flagged and approved in unit A to facilitate long lining from the ridge to facilitate cable yarding if needed. Ground Based equipment shall not be used in any other cable areas except for long lining from areas designated for ground based equipment.

Item 21: All tractor operation restrictions apply.

Item 23: Year round wet weather restrictions apply.

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

Item 25: Mitigations for Geology points 18 and 21.

Road construction on slopes over 50% is full bench end haul.

Waterbar spacing for Roads with grades greater than 15% is specified.

There is one road point which requires a rock ford.

Item 26: See item 14 for cable corridor trees.
There is a water drafting plan and a 1603 permit.

Item 30: Slash treatments are required within 100 feet of roads.

Item 32: No timber operations shall occur after February 1st until a current letter of technical assistance is received from USFWS.

Marbled murrelet mitigations apply for helicopter landings during the breeding season (March 24 through September 15).

Humboldt Milk vetch is located along appurtenant roads 330 and 345.

Item 33: Retain all snags unless they pose a safety hazard.

Item 36: A meeting is required prior to operations.

Item 38: The LTO shall pre-flag skid trails.
The primary road drainage shall be outsloping and rolling dips on grades of 7% and less and waterbreaks will be used on grades greater than 7%.

TIMBER SALE AGREEMENT

<u>Page</u>	<u>Section/item</u>	
2	2	A deposit of \$35,000 must be submitted with the bid.
3	3	At least 1.5 MMbf of timber to be paid for, cut and delivered by November 15, 2012, and at least 2.5 MMbf felled and paid for by June 30, 2013. All remaining timber removed and all operations completed by November 15, 2013.
3	4	All trees marked for cutting, whether merchantable or not, shall be felled.
4	4	Production and cost data with respect to all timber harvesting operations, slash treatments and road work are required.
4	5	All logs are to be branded prior to removal from the sale area.
5	6	The minimum log dimensions for utilization purposes will be 8 feet in length and 6 inches in small-end diameter.
5	7	All timber scaled by "third party" scaling organization.
5, 6	7b	Purchaser is responsible for payment of scaling and reporting. The use of a STATE approved third party log and load reporting service (LLRS) is required. PURCHASER shall ensure that log volume measurement data is received by the LLRS within one business day of logs being measured. All expenses associated with this service shall be paid by the PURCHASER.
8	7o	Paint the last three digits of the load number on the rear end of each of the two outside bunk logs of each load.
9	7p	Weekly reports of falling scale by unit are required.
10	9	Notification and permission is required for operations on weekends or State holidays. Active helicopter operations are not permitted on weekends. The fueling and routine maintenance of logging equipment and the watering of logging roads are permitted between the hours of 7:00 a.m. and 11:00 p.m., without restriction to days of the week or holidays.
11	10	All terms, provisions and requirements of the timber harvesting plan (1-11-012 MEN) and Forest Practice Rules for the Coast Forest District apply.

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- 11 10a A pre-work conference and logging plan are required.
- 12 10b No timber operations after January 31 of any year until a current northern spotted owl NO TAKE Certification is amended into the THP.
- 12 10c Flaggging of skid trails required at least two weeks in advance.
- 12 10e Erosion control requirements apply year-round.
- Tractors shall not be used to forward logs on well established truck roads (bed and grade established) unless specifically approved.
- Hauling restrictions apply any time of year that it rains 1/4" as measured in Fort Bragg. All wet weather and winter period operations of the THP apply. Timber operations may be suspended by the sale officer if damage is occurring.
- 13 10g Limbing and bucking of timber immediately after felling.
- Hardwoods to be topped at the time of felling.
- All slash created by timber operations within 100 feet of permanent and seasonal roads shall be lopped or otherwise treated.
- 13 10h Slash will be disposed of as directed by the sale officer. Slash packing of skid trails is preferred.
- A 10 foot wide fire line is required around slash piles, waterbarred at time of construction. 80 lb kraft paper is required to cover a portion of each burn pile.
- 14 10j Cable yarding system requirements are given.
- Unmarked trees may not be cut in the channel zone of Class I and II watercourses. Unmarked trees may only be cut for cable corridors within the WLPZ of a class I watercourse with permission from the Sale Officer.
- 15 10l No permanent painted messages. Use temporary signs to be removed once their function is complete.
- 16 10n Warnings signs are required for cable lines across roads.. Warning signs are required when a helicopter carrying logs crosses a road. The Sale Officer may request that the road be blocked and/or flaggers used.

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- 16 10r Provide, deliver and unload 80,000 BF of redwood, 10,000 BF of Douglas-fir and 10,000 BF of hardwood to the State's sawmill at Parlin Fork Conservation Camp.
- 18 14a(3) Road width is 14 feet including 1 foot shoulder on each side of a 12 foot traveled surface. Width may be wider on curves.
- 19 14a(5) Balanced cut and fill on slopes 50% and less. Full bench end haul on slopes greater than 50%.
- 19 14a(6) Seasonal roads will be outsloped (2-5%) without a berm or ditch. Rolling dips will be constructed on road grades of 7% or less prior to hauling. Waterbars will be installed on roads greater than 7% prior to final road grading.
- 20 14d Stream crossing upgrade and other armoring work is required prior to hauling on those roads (See Exhibit C). Materials are specified in Exhibit B.
- 21 14f Water drafting for dust abatement shall be done according to the guidelines specified in the THP and DFG 1600 permit.
- 22 14g Dust Abatement Treatment of lignin or other surfacing chemicals is required on approximately 5.5 miles of road once during each operating season.
- 23 14h There are approximately 1.2 miles of cut and fill road construction and .3 miles of full bench construction.
- 23 14i The Purchaser shall pull outside berm and shoulder on approximately 0.3 miles of existing forest roads (see Exhibit A) prior to hauling.
- 23 14k Construct one new gate at the intersection of Road 1000 and new Road 1090.
- 23 14m The PURCHASER shall provide, haul, place 75 tons of 1-3" crushed rock for road stabilization at locations specified by the Timber Sale Officer.
- 24 14n The PURCHASER shall provide, haul, place and compact 375 tons of 1-3" crushed rock on Road 360 within 2 weeks of the start of hauling on the road.
- 24 14p With two weeks notice the roads shall be made available for events or

tours.

Page Section/Item

- 25 17 “Water wagon” capable of carrying 1000 gallons with 150 feet of 1 ½” hose with national standard thread fittings and nozzle shall be readily available.
- 27 26 Performance security of \$70,000 required.

RILEY RIDGE THP FLAGGING CODE

<i>Designated Activity</i>	<i>Flagging Color</i>
<i>Timber harvest unit boundary</i>	<i>Pink flagging with “Timber Harvest Boundary</i>
<i>Proposed road-grade and centerline</i>	<i>Orange with “Truck Road”</i>
<i>Skid trail</i>	<i>Yellow with “Skid Trail”</i>
<i>Equipment limitation zone</i>	<i>Red flag with white flag</i>
<i>Change in yarding methods</i>	<i>Red and white diagonal stripes</i>
<i>WLPZ-Class II and springs</i>	<i>Blue and white stripe with “Watercourse and Lake Protection Zone”</i>
<i>WLPZ-Class I</i>	<i>Solid blue flagging with Blue and white stripe with “Watercourse and Lake Protection Zone”</i>
<i>Class I Watercourse</i>	<i>Solid blue</i>
<i>Class II Watercourse</i>	<i>Blue and white diagonal stripes</i>
<i>Class III Watercourse</i>	<i>Blue and white polka dots</i>
<i>Intersection (i.e. road, skid trail)</i>	<i>Two flags together</i>
<i>End of trail, road or watercourse</i>	<i>Three flags together</i>
<i>Unstable areas, protection zones</i>	<i>Special treatment zone flagging</i>
<i>1000’ NSO buffer</i>	<i>Special treatment zone flagging and pink flagging</i>
<i>Existing Culvert</i>	<i>Yellow flag with a orange flag</i>
<i>Road Point</i>	<i>Orange flag with a white flag</i>
<i>Message/note</i>	<i>Pink and black diagonal stripe with a bright colored flag</i>