

Jackson Demonstration State Forest  
**23 Gulch Timber Sale**

SUMMARY OF SALE INFORMATION

Bid Date:	February 5, 2019	Estimated Net Volume:	<b>6,343 MBF</b>
Minimum Bid:		THP Number:	1-18-029 MEN
Redwood	\$700 /MBF	Information:	Julie Rhoads
Douglas-fir & all other whitewoods	\$40 /MBF	Phone:	(707) 964-5674
		Date:	12/20/2018

**Table 1. Estimated Total Volume to be Harvested (BF)**

Species	Gross	Net	% Defect & Breakage	% Species Comp.
Redwood	4,488,589	3,905,070	13%	62%
Douglas-fir	2,695,563	2,345,140	13%	37%
Whitewoods	103,925	92,490	11%	1%
<b>Totals</b>	<b>7,288,077</b>	<b>6,342,700</b>		<b>100%</b>

**Table 2a. Estimated Volume, Cable (BF)**

Species	Gross	Net
Redwood	2,961,890	2,576,840
Douglas-fir	1,502,673	1,307,330
Whitewoods	61,363	54,610
<b>Totals</b>	<b>4,525,926</b>	<b>3,938,780</b>

**Table 2b. Estimated Volume, Tractor (BF)**

Species	Gross	Net
Redwood	1,526,700	1,328,230
Douglas-fir	1,192,890	1,037,810
Whitewoods	42,561	37,880
<b>Totals</b>	<b>2,762,151</b>	<b>2,403,920</b>

**Table 3. Estimated Acreage**

	Plan acres	Utility ROW	VR Ret.	STA	CC, VR WLPZ	Net acres
Cable	141	0	2	15	6	118
Tractor	214	16	0	13		185
<b>Totals</b>	<b>355</b>					<b>303</b>

**Table 4. QMD by Species (from 100% tally only)**

Species	QMD
Redwood	26"
Douglas-fir	29"
Whitewoods	23"

## GENERAL INFORMATION

The list below is not intended to be all inclusive and all requirements of the 23 Gulch Timber Harvest Plan (# 1-18-029 MEN) apply. One complete copy will be provided to the LTO. 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/THPs2018/1-18-029MEN/](ftp://thp.fire.ca.gov/THPLibrary/North_Coast_Region/THPs/THPs2018/1-18-029MEN/)

### TIMBER HARVESTING PLAN

Item 14d: The sale includes both a cut and leave tree mark.

In the Selection and Commercial thin units, trees will be marked with blue paint. This includes hardwoods.

In the Variable Retention and Clearcutting units, conifers and hardwoods will be either marked with orange paint or flagged with Special Treatment Flagging for retention. In these units' WLPZ and ELZ areas, trees will be marked for harvest with blue paint.

Unmarked trees may be felled in the following situations:

- 1) To provide safe operating corridors for skyline cable operations. See CABLE CLEARANCE TREES below, Item 14g.
- 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 for damaged trees.

Item 14f: All hardwoods designated 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: Trees Substantially Damaged by Logging Activities: 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.

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 WLPZ. Trees located within a WLPZ shall not be felled for cable corridors unless they directly impact the safety of cable yarding operations. These trees felled for safety may be harvested. No trees located within the channel zone of a Class I or II watercourse may be felled for cable clearance. Compliance with all other applicable Forest Practice Rules and requirements in the THP is required.

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.

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

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.

Refer to Geologic Recommendations for avoidance of unstable areas, specific site recommendations, and Special Treatment Areas.

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

A winter and extended wet weather operating plan is included in Item 23 and shall be adhered to.

Item 25: JDSF temporary roads and associated landings shall be deactivated annually prior to the winter period and upon completion of timber operations.

Item 26: A limited number of trees have been marked for harvest within Class I and II WLPZs. See Item 14 for cable corridor trees.

Item 30: Slash created within 100 feet of Highway 20, and within 50 feet of gated JDSF seasonal roads shall be lopped to within 30 inches of the ground.

Woody debris greater than 1 inch and less than 8 inch within 100 feet of permanently located structures maintained for human habitation shall be removed or piled and burned. All slash created between 100-200 feet of these structures shall be lopped, removed, chipped, or piled and burned.

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	All timber removed be reason of this sale shall be 100 percent scaled by a recognized, independent, third party scaling organization at the PURCHASER's expense.
3	3A	All merchantable timber south of the 60kV transmission lines shall be paid for, cut, and delivered by October 15, 2019. In addition, at least 4.0 MMBF shall be paid for, cut, and delivered by June 30, 2020. These dates 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, 2020. This Agreement shall terminate on May 15, 2021, 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	6	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, machines and supervision, and costs for any materials or services needed for completion of activities.
5	7	Domestic Processing of timber is required.
6	9	The minimum log dimensions for utilization is 10 feet in length and 8 inches in small-end diameter.
6	10B	Payment for scaling and reporting services performed by the scaling organization shall be made by the Purchaser.  The PURCHASER shall make a single payment of \$3,100.00, regardless of the level of harvest activity on this sale; this payment shall be made to the Mountain Western Log Scaling and Grading Bureau of Roseburg, Oregon within 7 days of contract approval.
8	10I	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.
8	10J	Conduct a minimum of one check scale per month per scaler by the scaling organization, during the operating season, to document scaler proficiency.
9	10P	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	11H	Within the Clearcutting and Variable Retention Units A, B, and C, all tanoak trees between 14" and 30" DBH - outside the WLPZ and not marked or flagged for retention - shall be felled and whole-tree yarded. These trees shall be bucked, limbed, and topped at the landing.
10	12A	All terms, provisions and requirements of the Forest Practice Rules and the Timber Harvesting Plan (#1-18-029 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.

<u>Page</u>	<u>Item</u>	<u>Description</u>
11	12C1	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	12C2	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	12C3	Flagging of all skid trails required at least two weeks in advance and notify the Timber Sale Officer for approval.
11	12C5	Minimum distances 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 rain before next working day or at any time that the equipment needed to install such structures leaves the sale area.
12	12C7	Merchantable trees felled and bucked to log lengths, limbed to the 8-inch top, and the top bucked at the time of felling.
12	12C8	All slash created by timber operations within 100 feet of Highway 20 and within 50 feet of seasonal and permanent JDSF roads shall be lopped to 30 inches above the ground. All woody debris created by timber operations greater than one inch but less than eight inches in diameter within 100 feet of permanently located structures maintained for human habitation shall be removed or piled and burned; all slash created between 100-200 feet of permanently located structures maintained for human habitation shall be lopped for fire hazard reduction, removed, chipped or piled and burned.
12	12C9	Maximize the extent of spreading slash to avoid or minimize the need for piling and isolating slash for burning.
13	12C12	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	12C13	Corridor width not to exceed 10 feet.
14	12C16	No permanent painted messages. Use temporary signs to be removed once their function is complete.
14	12C20	Mulching standard is at least 95% coverage to a minimum depth of four inches.
14	13C	All hardwoods over 30 inches DBH 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. All tanoak greater than 14" outside of WLPZ's, STA's and Class III ELZ's shall be felled and yarded. All tanoak less than 6 inches DBH shall be felled within Class III's ELZ's. Class III ELZ's are identified with a combination of solid red and white flagging. In a location in the Clearcutting units to be designated by the Timber Sale Officer, totaling approximately 10 acres, redwood stems shall be fell and lopped.

<u>Page</u>	<u>Item</u>	<u>Description</u>
15	13D	Fall and lop hardwoods not logged less than 14" in Units A - C. All slash created by timber operations within Units A-C shall be lopped to the extent that no portion shall remain over 30 inches above the ground.
15	14	Pay \$15,000.00 to Green Diamond Resource Company for the propagation of redwood plug reforestation seedlings by December 15, 2020.
17	17D	Buried water and electrical lines connect water systems associated with the Whiskey Springs Residence. Prior to operations in this area, the purchaser shall coordinate with the Timber Sale Officer to minimize interruption and impacts to the infrastructure.
17	17E	All required culvert installations to be complete prior to log hauling on existing roads prior to October 15 of the first year of operations.
18	17I	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.
19	17J	Construct and maintain approximately 0.7 miles of new seasonal and temporary truck road.
19	17K	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 \$270/mile that the Purchaser supplied water from an alternative source.
19	17N	Deactivate roads and crossings as prescribed.
19	17O	Masticate roadside brush on JDSF Roads 321, 322, and road segments in the Hare Creek watershed including 400, 450, 452, 456, 462 and 463. Masticate or otherwise remove vegetation from three helicopter landings.
19	17P	Remove existing gates and provide and install a new "heavy" iron pipe gate on Road 321 at the intersection of Road 320.
20	17R	Prepare and paint three existing gates.
21	20	In addition to required fire tools complement, the purchaser shall 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. The "water wagon" shall be located within a 60 minute drive to the sale area.
22		Materials list.
23		Map Points.
40	1	A deposit of \$70,000 must be submitted with the bid.
41	3	Furnish copies of Timber Yield Tax calculations and reporting forms to the state.
45	4	Performance security of \$70,000 required prior to contract approval.

## 23 Gulch Flagging Code

DESIGNATED ACTIVITY	FLAGGING COLOR
Timber harvesting boundary	Pink-glo Site-Mark® "TIMBER HARVEST BOUNDARY" in black lettering
MAMU Potential Habitat x THP boundary	Pink-glo Site-Mark® "TIMBER HARVEST BOUNDARY" in black lettering & Orange/white stripe Site-Mark® "SPECIAL TREATMENT AREA" in black lettering
Class I, II, and Springs WLPZ	Blue/white stripe Site-Mark® "LAKE AND WATERCOURSE PROTECTION ZONE" in black lettering & solid orange
Class II watercourse	Blue/white stripe
Class III watercourse	Blue/white polka-dot
Tractor road (skid trail)	Yellow Site-Mark® "SKID TRAIL" in black lettering
Road grade centerline	Orange Site-Mark® "TRUCK ROAD" in black lettering
Landing at end of road	Three solid orange flags
Map Points	Solid orange and solid yellow
Equipment Exclusion Zone (EEZ)	
Equipment Limitation Zone (ELZ)	Solid red and solid white
Silviculture Boundary	Green-glo Site-Mark® "SILVICULTURE BOUNDARY" in black lettering & solid pink-glo
Tractor road (skid trail)	Solid yellow "SKID TRAIL" in black lettering
Message/note	Pink/black stripe & lime green (combination)
Unstable areas, protection zones	Orange/white stripe Site-Mark® "SPECIAL TREATMENT AREA" in black lettering & solid orange