

Request for Proposals
Tent Rock Forest Stewardship Project
Boise National Forest, Idaho

NFF Background:

The National Forest Foundation (NFF) is a congressionally chartered nonprofit organization with the simple mission of bringing people together to restore and enhance National Forests and Grasslands. The NFF is the leading organization inspiring personal and meaningful connections to our National Forests, the centerpiece of America's public lands. Working on behalf of the American public, the NFF leads forest conservation efforts and promotes responsible recreation. We believe these lands, and all they provide, are an American treasure and are vital to the health of our communities.

Project Background:

The Tent Rock Forest Stewardship Project is part of the [Upper Mores Project](#), approximately 3 air miles east, northeast of Idaho City, Idaho. The project area is east of State HWY 21 and can be accessed via North Fork Boise River Road (NF-327). Overall goals of the project include:

- Reduce the risk of uncharacteristic and undesirable wildfire;
- Promote more resilient forests; and
- Improve watershed conditions.

Statement of Work:

This Request for Proposals is for forest thinning, removal of biomass, and product delivery on six (6) harvest units, totaling 102.20 acres. These units require a tractor-based harvest system, and each unit is a separate bid item.

Timeline:

This Request for Proposals will close and all proposals will be due on October 30, 2026, by 5:00 PM MDT. The NFF anticipates being able to enter a contract with any selected bidder(s) by December 16, 2026, with a projected contract start date of January 8, 2027. Changes in the closing date for this Request for Proposals will be updated on the NFF website at <https://www.nationalforests.org/rfp> under the link for this project's Request for Proposals. All contract related dates are estimates and subject to change at the NFF's sole discretion.

I. PROJECT OVERVIEW AND REQUIREMENTS

General Specifications

(a) Description of Work – This Request for Proposals is for restoration services related to the Upper Mores Project, located on the Boise National Forest. Work on this project will include forest thinning, removal of biomass, and product delivery to mills or other agreed-upon locations. The selected Contractor(s) will be responsible for performing the following deliverables:

1. **Task 1:** Forest thinning sawtimber on six (6) separate units totaling 102.20 acres. Appendix B: Forest Thinning Specifications and Unit Descriptions provides detailed information on each unit.
 - i. Fell, log, and remove sawtimber. The selected Contractor(s) will deliver sawtimber to mills and other agreed upon locations. **The selected Contractor(s) retains the stumpage value.**
 1. The selected Contractor(s) makes purchase agreements with mills and other parties and retains value less the cost of logging and trucking.
 - ii. The selected Contractor(s) is responsible for the marketing and delivery of merchantable material directly to mills or other agreed-upon places. Loads will be ticketed, and delivery sites will be agreed upon before hauling. Typical unloading sites are described in Appendix D: Hauling and Delivery Specifications.
 - iii. Sawtimber is defined as 8-foot minimum length to a 6-inch diameter inside bark (DIB) at small end.

**In the event market conditions do not allow for marketing and delivery of sawtimber products, the selected Contractor(s) can elect to fell, skid, limb, and deck sawtimber. The selected Contractor(s) may elect this option at the project unit level (Unit 1, 2, 3, 4, 5, 6). Please provide a Unit Cost (\$/Acre) in the pricing schedule below (Task 1 – Optional Haul).*

(b) Specifications – Project work shall be accomplished in accordance with the following:

1. Appendix A: Federal Flowdown Provisions
2. Appendix B: Forest Thinning Specifications and Unit Descriptions
3. Appendix C: Timber Removal Specifications
4. Appendix D: Hauling and Delivery Specifications
5. Appendix E: Project Maps
6. Appendix F: Federal Acceptance of Work

Bidders shall identify in their proposals what they can supply in terms of materials, labor, equipment, supplies, supervision, and incidentals required to complete the work as described. Proposals shall be sufficient to guarantee that the selected contractor shall be able to perform all work in a safe and conscientious manner and in accordance with all industry standards.

- (c) Project Location – The project is located east, northeast of Idaho City in Boise County, Idaho. It is accessed from the south via HWY 21 and North Fork Boise River Road (NF-327) and Hoodoo Creek Road (NF-327A). Units are all in the Hoodoo Creek drainage. Hoodoo Creek runs through the project with Units 1 – 3 to the south and 4 – 6 to the north.
- (d) Pre-Bid Tour – The NFF will host a pre-bid tour for interested contractors on October 14, 2026, at 10:00 AM MDT. RSVP to Mike Dwyer at mdwyer@nationalforests.org. Note that all contractors who RSVP will also receive email updates related to this RFP.
- (e) Work Schedule – The period of performance for this project will be from February 1, 2027, to December 31, 2029. Log hauling is prohibited on weekends and all major holidays, including the day after Thanksgiving and Christmas.

Other Project Requirements

Utilities/Work Site Conditions – In many locations there will be no or limited sanitation, water, electrical or housing services available. Bidders shall consider all relevant factors when submitting proposals for this work. Proposals should account for the need of the selected Contractor(s) to make its own arrangements for temporary facilities if required.

Insurance Requirements

Minimum Insurance. In accordance with the terms of the Services Agreement, prior to the start of any work, the successful bidder (the “Contractor”) will be required to maintain, and ensure that its subcontractors performing work described in the proposal (the “Subcontractors”) maintain, the minimum coverages and comply with the insurance requirements indicated below.

- a. Coverage Requirements
 - i. Commercial General Liability Insurance. Commercial general liability insurance written on an occurrence basis, including bodily injury, property damage, personal injury, advertising injury, products and completed operations and contractual liability in the amount no less than:
 - \$1,000,000 each occurrence;
 - \$1,000,000 products/completed operations limit;
 - \$1,000,000 advertising injury and personal injury limit; and
 - \$2,000,000 general aggregate.
 - ii. Business Automobile Liability Insurance. If using motor vehicles (owned, hired, or borrowed) to deliver or perform the work described in the proposal, business automobile liability insurance with a minimum limit of \$1,000,000 combined single limit each accident for bodily injury and property damage for all owned, rented leased or hired vehicles used in conjunction with the performance of the services.

- iii. **Workers' Compensation Insurance.** Statutory workers' compensation insurance in accordance with all state and local requirements of the state(s) in which services will be performed.
- iv. **Professional Liability Insurance.** Professional or errors and omissions liability insurance with combined single limits of \$1,000,000 per occurrence and \$1,000,000 aggregate, per year, covering the performance of the successful bidder and any of its Subcontractors under the Services Agreement.
- b. **Waiver of Subrogation.** All insurance policies shall include a waiver of any and all rights of subrogation or recovery of the insurers thereunder against, inter alia, the NFF, and its assigns, successors, undertakings and their subsidiaries, affiliates, employees, insurers and underwriters, and of any right of the insurers to any set-off or counterclaim or any other deduction, whether by attachment or otherwise, in respect of any liability of any such person insured under any such policy or in any way connected with any loss, liability or obligation covered by such policies of insurance.
- c. **Primary and non-contributory.** With the exception of Workers' Compensation and Professional Liability insurance (if applicable), all insurance required to be maintained by Contractor shall be primary with respect to all claims arising out of Contractor's performance and/or activities under this Agreement, and any insurance or self-insurance maintained by the NFF shall be excess only and not be required to contribute with it.
- d. **"Claims Made" Coverage.** Any liability insurance purchased on a "claims made" basis must be continuously maintained for a period equal to the applicable statute of repose, but in any case, not less than 3 years, following final performance or termination of Services, either through the continued purchase of insurance or the purchase of an extended reporting period. The retroactive date applicable to such "claims made" insurance, if any, must precede the first date on which Services are to be performed.
- e. **Verification of Coverage.** Contractor, for itself and any permitted Subcontractors, will have furnished to the NFF original certificates of insurance and amendatory endorsements or copies of the applicable policy language effecting coverage required herein prior to or at the time of execution of the Agreement, and shall further provide evidence that the foregoing is in place and will not be cancelled or reduced during the term of the agreement. Contractor's and any Subcontractors' certificates of insurance will list "The National Forest Foundation" as an Additional Insured on its or their commercial general liability policy and business automobile liability policy (as applicable). Contractor and any of its Subcontractors will submit updated certificates of insurance upon expiration of the required policies.

Additional Insurance Requirements. In addition to the minimum insurances set-forth above, the NFF reserves the right to request additional coverage as reasonably necessary based on the scope, nature, and risks associated with the services to be performed, including, but not limited to:

- a. Commercial/Contractor's Pollution Liability Insurance covering clean-up costs, legal fees, and third-party damages from environmental contamination.
- b. Loggers Broad Form Endorsement restoring liability protection for specific property damage and operational risk inherent to forestry operations to Contractor's CGL policy.
- c. Umbrella/Excess Liability Insurance raising the limit on existing primary policies if the primary insurance limits are reasonably considered insufficient.

Payment/Performance Security

If selected to contract with the NFF, Bidder(s) shall post cash, a letter of credit, bond, or other financial security that is easily convertible into cash in a form acceptable to the NFF, in its sole determination. The security will be used to ensure completion of the work required under any subsequent agreement and payment of all amounts lawfully due to all persons. All persons shall include, but not be limited to, those supplying or furnishing to the Bidder or Bidder's subcontractors with labor, laborers, materials, rental machinery, tools or equipment used or to perform the work. Bidders may incorporate required associated costs into mobilization costs or other approved expenses. Payment or Performance security will be required in the following amounts as applicable:

- a. For work that is classified as construction in accordance with the Miller Act or Little Miller Act or if required per conditions of the funding source, payment and performance bonding will be required in the full amount of any Agreement. For the purposes of this Request for Proposal, construction is defined as "any contract greater than \$100,000 for the construction, alteration, or repair of any public building or public work where the federal government is the owner"; or
- b. If Contractor is subcontracting 15% or more of the total contract value, or if the cost of materials is in excess of the larger of \$100,000 or 50% of the contract total, payment and performance bonding will be required in the full amount of the agreement; or
- c. If the value of the agreement is in excess of \$250,000, Contractor will be required to post financial security in a form acceptable to the NFF in the amount of 5% of the total agreement value up to \$250,000 in total financial security.

The NFF will not provide blanket waivers of payment/performance security requirements though reserves the right to negotiate payment and performance security terms and conditions with selected contractors based upon legal requirements and organizational needs and policies.

Prohibited Telecommunications Services and Equipment

NFF contractors are responsible for compliance with the prohibition on certain telecommunications and video surveillance services or equipment identified in 2 CFR 200.216.

Federal Exclusion Verification

The selected Contractor will be required to affirm that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

Federal Flowdown Provisions

NFF funding for projects may vary but will frequently include federal funds. As such, any Agreement associated with this RFP may be subject to flowdown requirements under associated federal or state funding agreements, which are included and made part of by this reference. Federal flowdown requirements are not negotiable by the NFF and will not be removed or edited. Federal flowdown provisions can be found in Appendix A.

Identified Flowdown Provisions

While flowdown provisions may change depending on funding, the NFF has identified the following non-negotiable federal flowdown provisions as currently being required for this work:

Appendix A: Federal Flowdown Provisions

II. REQUIRED COMPONENTS

Technical Proposal

Bidders shall submit a technical proposal for the work described in this RFP. At a minimum, each proposal **must** include the following:

1. An overview and description of the services provided by the Bidder that align with the requests in this RFP.
2. A description of the project management or administration approach that will be followed by the Bidder to ensure that the identified work is completed on time and within budget.
3. A project work plan and schedule that lists in detail the stages of work expected to be completed in this project, all identifiable deliverables, and the dates on which the Bidder would anticipate being able to complete delivery of the work.
4. A project personnel overview identifying key personnel to be utilized if selected to perform the work described in this RFP and any relevant or required credentials or certifications held by the key personnel.

Bidders may also include the following items in proposals as applicable:

1. Any change or risk management approaches utilized by the Bidder when completing projects of the type described in this RFP.

Bidder Qualifications

Bidders shall submit a statement of their qualifications for the work described in this RFP. The statement should include the following items in narrative format:

1. Experience –
 - i. Please provide a brief explanation of previous work experience with land management agencies, noting specifically any work performed on National Forests or Grasslands.
 - ii. Please provide a listing of relevant projects of similar size, scope, and total value performed by the Bidder within the past 5 years.
2. References –
 - i. Please provide three professional references, identifying as applicable any government or conservation nonprofit references.
 - ii. Provide the name, email address, and telephone number for each reference, as well as the dates of the projects during which the Bidder worked with each reference.

Required Bidder Information

Successful bidders will be required to provide a Unique Entity Identifier (UEI). If your organization already has a UEI, please include it in your proposal or quote. If you do not currently have a UEI, one will be required prior to contract execution.

Failed Projects or Legal Actions

Bidders shall identify any past failed projects and the reasoning behind the failure or incompleteness. Bidders shall also identify any and all current or pending legal matters in which the Bidder or any of its principals is involved.

Pricing Schedule

Bidders shall price work according to the schedule below. If Bidders believe that an alternative method of pricing is more applicable, they may also provide an alternative pricing schedule in addition to the format requested below. The NFF, in its sole discretion, reserves the right to utilize any alternative pricing schedule proposed by any Bidders.

Prevailing wages are not required per conditions of the funding source. Due to the dynamic and changing nature of NFF funding, the NFF reserves the right to negotiate an increased cost with the selected Bidder in the event that prevailing wages become required for the work described in this RFP.

All quantities and measurements identified in this RFP are based upon the best knowledge available to the NFF and are subject to change. Payment will only be made for actual work completed. If the opportunity to add additional funding to the work described in this RFP arises, the NFF may increase the quantities of work to be performed as part of this project, as agreed upon by the NFF and the selected Bidder.

Task 1 – Table 1

Task/Item	Unit of Measure	Estimated Quantity	Unit Cost/Rate (\$/Ton)	Extended Cost
Fell, log, and removal of sawtimber in all units	Tons*	2,716		
			Total Bid	

*Quantities of sawtimber will be determined in tons. This is due to the ease of measuring actual quantities of logging truck load weight during sawtimber removal. Please see *Appendix D* for more details.

Task 1 – Optional Haul

In the event market conditions do not allow for marketing and delivery of sawtimber products, the selected Contractor(s) can elect to fell, skid, limb, and deck sawtimber. The selected Contractor(s) may choose this option at the project unit level. Please provide a Unit Cost (\$/Acre).

Cutting Unit	Task/Item	Unit of Measure	Estimated Quantity	Unit Cost (\$/Acre)	Extended Cost
	Fell, skid, limb, and deck sawtimber	Acres	102.20		
				Total Bid	

Task 1 – Table 2

Timber Removal – Please provide a bid to purchase the following products, cover slash disposal, and USFS Road Maintenance Fees. For timber removal specifications, please see Appendix C.

Cutting Unit	Species	Product	Estimated Quantity	Rate of Payment (\$/Ton) (Minium Bid Rate \$4.98/ton)
All	Ponderosa Pine & Other Sawtimber	Sawtimber	2,716 tons	
			Total Bid	

III. SUBMISSION, EVALUATION, AND CONTACTS

Bidder Selection Process:

Bid Submission

Bidders shall submit proposals containing all of the required information described above via email at the address specified below by the stated deadline:

Submission Address: mdwyer@nationalforests.org

Submission Deadline: 5:00 PM MDT on October 30, 2026.

Proposals submitted after this RFP closes will not be considered unless approved by the NFF. The NFF will review all proposals determined to be responsive using the evaluation factors listed below. Proposals may be deemed non-responsive for failure to submit any required information or for failure to comply with any terms of this RFP. Non-responsive proposals may be disqualified from evaluation in the sole discretion of the NFF.

Notification

If a proposal is selected by the NFF to advance to the contracting stage, the NFF will notify the successful Bidder via email by November 16, 2026. Once the selected Bidder has been notified, the NFF project representative will coordinate the drafting and negotiation of an NFF agreement outlining the terms and conditions of the work to be performed.

Unsuccessful Bidders will be notified via email as soon as possible after the closing date of this RFP. Please Note: The NFF **will not** share any information about the organizations submitting proposals nor any information regarding the proposals submitted by other organizations. If a Bidder has questions about its proposal, the Bidder may ask the NFF Point of Contact identified below. If an answer can be provided, the NFF will respond via email as soon as it is able to do so.

Request for Proposals Only

This is a request for proposals only and bids furnished do not bind the NFF in any way. Selection of a bid will result in the opportunity to contract with the NFF but will not guarantee a resulting contract or any amount of work. The NFF reserves the right to disqualify any incomplete or improper proposal submitted as non-responsive. The NFF may also decide not to select any proposals submitted to this RFP for advancement to contract negotiations. This request does not commit the National Forest Foundation to pay any costs incurred in the preparation or submission of the proposal or to contract for supplies or services.

Evaluation Factors and Scoring

The following factors will be used to evaluate any responsive submitted proposals. The factors, as listed, are ordered from highest priority (Level 3) to lowest priority (Level 1). Each factor can receive a score from 1 point to 3 points. The number of points awarded will be multiplied by the priority level to determine the total score for each factor. (Ex: If Price/Cost (level 3) is awarded 2 points, the total score for price would be 6 points).

Level 3 Criteria

- Price / cost
- Equipment and contractor capability
- Technical proposal / proposed approach to project
- Past performance, references, and USFS feedback

Level 2 Criteria

- Timing of when contractor can begin and/or finish the project
- Overall strategic benefits to meeting the NFF goals and grant needs, requirements, and timelines

Level 1 Criteria

- Benefits to the local community
- Relationship to local community

Point of Contact

Any questions about this Request for Proposals shall be submitted in writing to the NFF contact identified below. Questions determined to be of importance to all potential Bidders will be posted as an attachment to an updated version of this RFP at <https://www.nationalforests.org/rfp>.

Mike Dwyer
National Forest Foundation, Boise National Forest Program Coordinator
mdwyer@nationalforests.org

Bid Submission

Submit bids via email to mdwyer@nationalforests.org by 5:00 PM MDT on October 30, 2026.

Equal Opportunity Provider

In accordance with Federal law and U.S. Department of Agriculture policy, the National Forest Foundation is prohibited from discriminating on the basis of race, color, national origin, sex, age, religion, political beliefs, or disability.

APPENDIX A

FEDERAL FLOWDOWN PROVISIONS

NFF Funding Code: 1596093

NFF Funding Name: SW Idaho Wildfire Crisis Landscape

Funder Agreement ID: 23-SA-11041200-037

Flowdown Provisions

DAVIS BACON WAGES FOR CONSTRUCTION.

Following the requirement in Section 41101 of the Bipartisan Infrastructure Law, P.L. 117-58, Davis-Bacon wage rates must be applied for all laborers and mechanics employed by contractors or subcontractors in the performance of construction, alteration, or repair work on a project assisted in whole or in part by funding made available under this Act. Laborers and mechanics shall be paid wages at rates not less than those prevailing on similar projects in the locality, as determined by the Secretary of Labor in accordance with sub-chapter IV of chapter 31 of title 40, United States Code (commonly referred to as the "Davis-Bacon Act").

BUILD AMERICA, BUY AMERICA (OMB Memo M-22-11).

Recipients of an award of Federal financial assistance from a program for infrastructure are hereby notified that none of the funds provided under this award may be used for a project for infrastructure unless:

1. all iron and steel used in the project are produced in the United States-this means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States;
2. all manufactured products used in the project are produced in the United States-this means the manufactured product was manufactured in the United States; and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation; and
3. all construction materials are manufactured in the United States-this means all manufacturing processes for the construction material occurred in the United States. This excludes cement and cementitious materials, aggregates such as stone, sand, or gravel, or aggregate binding agents or additives.

The Buy America preference only applies to articles, materials, and supplies consumed in, incorporated into, or affixed to an infrastructure project. It does not apply to tools, equipment, and supplies, such as temporary scaffolding brought to the construction site and removed at or before completion of the infrastructure project. Nor does a Buy America preference apply to equipment and furnishings, such as movable chairs, desks, or portable computer equipment used at or within the finished infrastructure project, but are not an integral part of the structure or permanently affixed to the infrastructure project.

U.S. FOREST SERVICE ACKNOWLEDGED IN PUBLICATIONS, AUDIOVISUALS AND ELECTRONIC MEDIA.

Award Recipient or Contractor shall acknowledge U.S. Forest Service support in any publications, audiovisuals, and electronic media developed as a result of this agreement.

COPYRIGHTING.

Award Recipient or Contractor is granted sole and exclusive right to copyright any publications developed as a result of this agreement. This includes the right to publish and vend throughout the world in any language and in all media and forms, in whole or in part, for the full term of copyright and all renewals thereof in accordance with this agreement. No original text or graphics produced and submitted by the U.S. Forest Service must be copyrighted. The U.S. Forest Service reserves a royalty-free, nonexclusive, and irrevocable right to reproduce, publish, or otherwise use, and to authorize others to use the work for Federal Government purposes. This right must be transferred to any sub-agreements or subcontracts.

This provision includes:

- The copyright in any work developed by Award Recipient or Contractor under this agreement.
- Any right of copyright to which Award Recipient or Contractor purchase(s) ownership with any Federal contributions.

APPENDIX B

FOREST THINNING SPECIFICATIONS AND UNIT DESCRIPTIONS

B.1 Project Costing Notes

Appendix C includes applicable Boise National Forest timber removal specifications for this project. When costing, note that temporary road recontouring is not part of this project. Temporary roads will be recontoured/decommissioned in a separate contract once all commercial material is removed. However, excavated skid trails will need to be recontoured following harvest operations. Estimated temporary road footage and excavated skid trail footage are included in each unit description below.

There is an estimated 26.58 Tons (4,300 board feet) of sawtimber per acre. In the event market conditions do not allow for profitable haul, Contractor can elect to yard, limb, and deck. This will be considered on a unit-by-unit basis (See *Task 1 – Optional Haul Table*).

B.2 Prescriptions:

Designation by Prescription Units 1, 2, 3, 4, & 5

- Priority Retention – Typically 28" + Diameter Breast Height (DBH) Dominant and Co-dominant PP and DF
 - Remove all trees 8" DBH + that don't meet Priority Retention description within 30 feet from the bole of Priority Retention Trees.
 - See Leave Tree Retention Table in Appendix F.
- Retain 25 to 35 Trees Per Acre (TPA) in a variety of spatial arrangements. Trees less than 8 inches DBH, dead trees, and non-coniferous trees do not count toward the desired TPA.
- Reduce Dwarf Mistletoe – Only retain mistletoe infected trees that have a dwarf mistletoe rating of 2 or less, if needed to achieve target TPA
 - See Hawksworth guide B.5.
- Aspen Clones - Remove all conifer species greater than 8.0 inches DBH, except **Priority Retention Trees**, from within and 30 feet from the outer edge of aspen clones.
 - Aspen clones are defined as a group of 10 stems that are at least 15 feet in height.

Cut Tree Mark Unit 6

- Remove all trees within unit marked with a band of blue paint

B.3 Thinning Unit Descriptions

Unit 1 is 27.80 acres. There is an active subsurface mining claim that can be mined between April and November. The claim extends roughly 250' from Hoodoo Creek Road. Approximately 1,000 feet of temporary road is to be constructed. Average slope is 25%. There are several heavily eroded draws likely due to historic mining. There are pockets of quaking aspen. *Seasonal restriction Apr 15 – Nov 15 See C.3.6.*

Unit 2 is 21.30 acres. There is an active subsurface mining claim that can be mined between April and November. The claim covers most of the flat area of the unit and stops around the terraced plantations. The unit is bounded by a temporary road to the west and the 327A to the east. The terraced plantations average 30% slope. The remaining two thirds of the unit are flat. The western third of the unit is comprised of ponderosa pine terraced plantations. There are pockets of quaking aspen. *Potential seasonal restriction Apr 15 – Nov 15 See C.3.6.*

Unit 3 is 15.40 acres. Most of the unit is comprised of a terraced plantation. Approximately 1,500 feet of temporary road is to be constructed on an existing template. Average slope is 30%.

Unit 4 is 10.70 acres. It is like Unit 1 but north of Hoodoo Creek. Average slope is 20%.

Unit 5 is 13.10 acres. It is like Unit 2 but north of Hoodoo Creek. Logs will need to be skidded roughly 200 feet outside the unit to reach landings on the 327A. The western half is terraced ponderosa pine plantation and roughly 25% slope. The eastern half is roughly 10% slope.

Unit 6 is 13.90 acres. It is a more mature natural ponderosa pine stand that is cut tree marked. Average slope is 25%. It is the northernmost unit and is accessed by the 327A and 327A3.

B.4 Cruise Volume Reported by Contract Species

Contract Species	Sale Net CCF	Sale Net MBF	Sale Net Tons	CCF/ac	MBF/ac	Tons/ac
Ponderosa Pine & DF	911.29	441.4	2,716	8.92	4.3	26.58

Data from Tent Rock NFF Cruise, #27301. Sampling error of 22.27%. Sawtimber minimums defined as 8' length to 6" diameter inside bark (DIB) at small end.

B.5 The 6-class mistletoe rating system ([Hawksworth 1961](#))

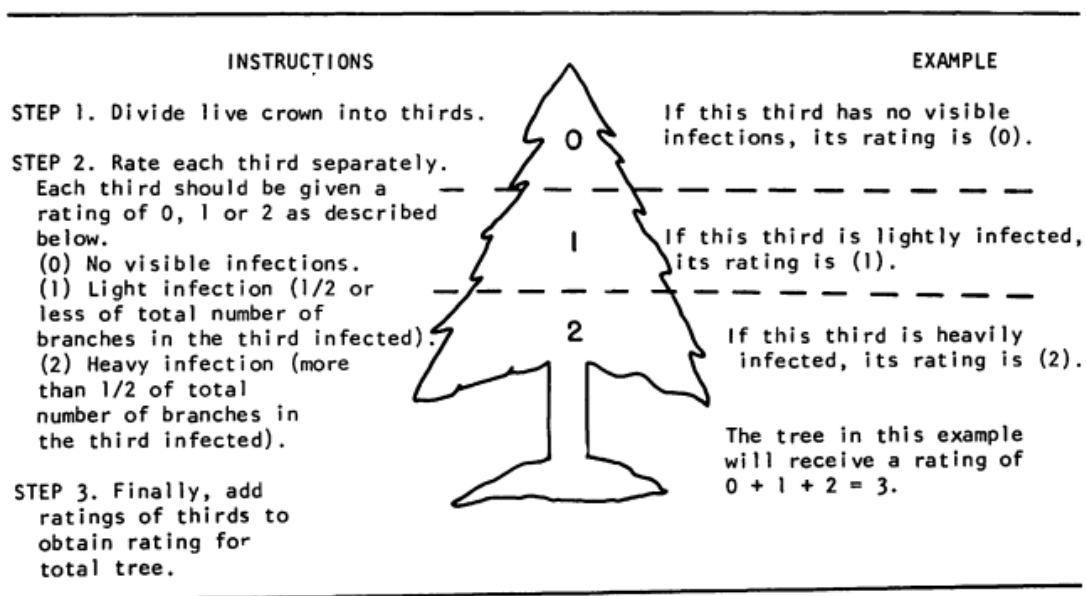


Figure 1—The 6-class mistletoe rating system (Hawksworth 1961).

APPENDIX C

TIMBER REMOVAL SPECIFICATIONS

The contractor shall follow *all applicable federal and state regulations related to forest practices and fire prevention*.

C.1 Volume Estimate and Utilization Standards

Species	Product	Estimated Quantity	Unit of Measure	Merchantable Tree			
				Diameter Breast Height (DBH) (inches)	Number of Minimum Pieces per Tree	Length (feet)	Diameter Inside Bark at Small End (inches)
Ponderosa pine & Other	Sawtimber	2,716	Tons	8.0	1	8.0	6.0

C.2 High Stumps

Species	Product	Maximum Stump Height (inches)
ALL	ALL	12

C.3 Control of Work

Work may be done any time during the term of the contract, except under the following conditions:

1. When conditions are such that operations shall be restricted or ceased due to increased fire risk.
2. When soil moisture conditions create excessive risk of damage to the soil.
3. Pine engraver beetle: Unless permitted in writing by the NFF, there shall be **no felling or bucking of ponderosa pine from December 1 to June 30**. If written permission is granted, it may be conditioned upon a requirement that the Contractor provide a continuous food chain of green ponderosa pine material, logs, and slash from July 1 to September 15, following the cutting. The NFF may allow periodic removal of logs from this chain of green material. Such green material shall be provided from periodic cutting or tree felling operations from Included Timber within the cutting units, or where such material is inadequate or not available, green material may be provided by the thinning of non-included trees within the project area upon approval by the NFF. If the NFF determines it necessary, it may direct the order and location of cutting to provide the necessary green material.

4. During the public closure period posted on all gates, or as directed by the NFF, the Contractor shall close and lock existing gates after each passage. During the closure period, when the Contractor's operations are in areas otherwise closed to motorized vehicles, the Contractor shall not hunt, discharge firearms, or transport any harvested big game animals with vehicles within the closed area.
5. Notify the NFF if new Threatened, Endangered, Proposed and Candidate and Region 4 Sensitive (TEPC/S) denning, nesting or roosting sites are discovered during implementation.
6. **Units 1 & 2: No operations from April 15th to November 15th** unless agreed to by USFS. The USFS expects to reach an agreement between the permit holder (mining), NFF/logging contractor, and USFS that would allow for operations within the period stated above. The restriction is in place to reduce operational conflicts between multi-use operations.

C.4 Timber Designations

Timber designated for cutting shall be confined to the Project Area. No undesignated timber shall be cut without prior notification to and approval of the NFF.

Prescriptions/timber designations are included in Appendix B, also see Appendix E, project maps.

C.5 Tree Designation/Prescriptions

See *Designation by Prescription (DxP) Cutting Guide* in B.2.

Cut Tree Marking Table

Cutting Unit	Paint Color
6	Blue

C.6 Road Maintenance Requirements

Contract Road Maintenance Requirements Summary Table

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications									
	From	To		T-801	T-802	T-803	T-804	T-805	T-806	T-807	T-808	T-809	T-810
327A	MP 0.0	MP 1.62	1.62	P	P	P		P	P	P	P		
327AA	MP 0.0	MP 0.20	0.20	P	P	P		P	P	P			
327A3	MP 0.0	MP 0.20	0.20	P	P	P		P	P	P			

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications									
	From	To		T-801	T-802	T-803	T-804	T-805	T-806	T-807	T-808	T-809	T-810
327A	MP 0.0	MP 1.62	1.62		P	P		P	P	P	P		
327AA	MP 0.0	MP 0.20	0.20		P	P		P	P	P			
327A3	MP 0.0	MP 0.20	0.20		P	P		P	P	P			

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications									
	From	To		T-801	T-802	T-803	T-804	T-805	T-806	T-807	T-808	T-809	T-810
327A	MP 0.0	MP 1.62	1.62	P	P	P		P	P	P	P	P	
327AA	MP 0.0	MP 0.20	0.20	P	P	P		P	P	P		P	
327A3	MP 0.0	MP 0.20	0.20	P	P	P		P	P	P		P	

P = Purchaser Performance Item D = Deposit to Forest Service D3 = Deposit to Third Party

T-801 Slide and Slump Removal

- Slide and slump repair shall be performed before and after Contractor's use, and as often as necessary to facilitate use of the road and proper drainage.
- The maximum volume of Contractor responsibility for Slide and Slump repair shall be 50 cubic yards per 100 linear feet of roadway.
- No slumps or slides are known to exist. If any occur, a suitable disposal location will be identified for unsuitable material.

T-802 Ditch Cleaning

Ditch cleaning shall be performed before and after Contractor's use, and as often as necessary during use to facilitate proper drainage.

T-803 Surface Blading

- Surface blading shall be performed before and after Contractor's use, and as often as necessary to facilitate traffic and proper drainage.
- Designated water sources are shown on the Sale Area Map, which will be provided upon award.

T-804 Surfacing Repair

Surface repair shall be performed before and after Contractor's use, and as often as necessary during use to reduce further deterioration of the traveled way.

T-805 Drainage Structures

Perform maintenance before and after Contractor's use, and as often as necessary during use to insure proper function.

T-806 Dust Abatement

See T-803 for water source.

Road	Type of Material	Application Rate	Frequency
327A	Water	N/A	As needed
327AA	Water	N/A	As needed
327A3	Water	N/A	As needed

Designated water sources are shown on the Sale Area Map (provided upon award).

<u>Road</u>	<u>Type of Material</u>	<u>Application Rate</u>	<u>Frequency</u>
327A	Water	N/A	As needed
327AA	Water	N/A	As needed
327A3	Water	N/A	As needed

T-807 Roadway Vegetation

Performance of this work shall be before and after Contractor's use, and as often as necessary during use to maintain adequate sight distance and operational capability of roads used during the life of this contract.

T-808 Miscellaneous Structures

Perform maintenance before and after Contractor's use, and as often as necessary during use to provide safe and efficient use of the road.

<u>Road</u>	<u>Type</u>	<u>Location</u>
327A	Gate	327A at approximately MP 0.12.

T-809 Waterbars

Installing and removing waterbars on temporary roads and skid trails may occur as often as road use is terminated and resumed.

<u>Road</u>	<u>Number of Waterbars to Construct</u>	<u>Locations</u>
327A	17	Place every 500 ft as needed along the length of the road in locations that will drain well, unless otherwise agreed to by the Forest Service.
327AA	2	Place every 500 ft as needed along the length of the road in locations that will drain well, unless otherwise agreed to by the Forest Service.
327A3	2	Place every 500 ft as needed along the length of the road in locations that will drain well, unless otherwise agreed to by the Forest Service.

T-810 Barriers

As an element of final road maintenance Purchaser shall install an earthen berm at the end of operations.

ROAD	EARTHEN BARRIER	LOCATION
N/A	N/A	N/A

Snow Removal

Snow removal shall be done in a manner to preserve and protect the roads to ensure safe and efficient transportation and to prevent unacceptable erosion damage to roads, streams, and adjacent lands.

- Description. Snow removal work by Contractor shall include:
 - Removal of snow from entire road surface width including turnouts.
 - Removal of snow slides, minor earth slides, fallen timber and boulders that obstruct normal road surface width including turnouts.
 - Maintain drainage so that the drainage system will function efficiently.
- Performance. All items of snow removal shall be done currently as necessary to ensure safe, efficient transportation. Work shall be done in accordance with the following minimum standards of performance:
 - Removal of material. All debris, except snow and ice, that is removed from the road surface and ditches shall be deposited away from stream channels at agreed locations.
 - During snow removal operations, banks shall not be undercut nor shall gravel, or other selected surfacing material be bladed off the roadway surface.
 - Ditches and culverts shall be kept functional during and following roadway use.
 - Snow berms shall not be left on the road surface. Berms left on the shoulder of road shall be removed and/or drainage holes shall be opened and maintained. Drainage holes shall be spaced as required to obtain satisfactory surface drainage without discharge on erodible fills.
 - Dozers and skidders shall not be used to plow snow on system roads without written approval of the NFF. Upon approval, dozers and skidders must be equipped with shoes or runners to keep the plow blade a minimum of 6 inches above the road surface unless specifically removed from the requirements in writing.
 - Snow must not be removed to the road surface. A minimum of 6-inch depth must be left to protect the roadway.

- Contractor's damage from, or as a result of, snow removal shall be restored in a timely manner.

C.7 General Logging Specifications

Obliteration of Skid Trails

Unless otherwise agreed in writing, skid trails associated with the cutting unit(s) listed in the following table shall be obliterated using the method described.

Obliteration Table

Cutting Unit(s)	Type of Facility	Closure Method
ALL	Skid Trails	Waterbars, rip compacted surface to a depth of 6-12 inches and scatter slash over 50% of the entire length of the trail. Effectively block access to motorized use where the skid trail intersects a main road or trail. Barriers such as rock, earthen berms, large woody debris, or recontouring an effective distance as directed by the NFF.
ALL	Temporary Roads	Seed per C.10 Soil, Water, Fisheries Seed Application Table. When operations on temporary roads will not be occurring for 7 or more days and at the end of use, Contractor shall block by original closure method or as directed by the NFF.

Felling and Bucking (Special Objectives)

Unless otherwise agreed in writing, silvicultural prescriptions and land management objectives shall be conducted and accomplished by the following requirements, methods and procedures:

Felling and Bucking Table

Cutting Unit(s)	Special Objectives
	Felling shall not be permitted in an operating area until the location of all landings, skid roads/skid trails, and temporary roads have been flagged by the Purchaser and agreed upon by the Forest Service. All timber within the agreed to clearing limits containing a product meeting the minimum piece specifications stated in A2, shall be designated by the Forest Service. Trees meeting merchantability specifications shall be felled and not pushed over.
	Temporary roads shall be posted as "Road Closed" during use.
All	Trees shall be felled insofar as safety, topography, and lean permit, with ends angled toward temporary roads, skid roads and skid trails, to protect existing reproduction and residual trees.
	Trees shall be felled away from Streamside Management Zones.
	Trees shall be felled in such a manner as to protect improvements, and other areas of concern identified by the Forest Service and shown on the Sale Area Map.
	Limbing and topping of trees shall not be permitted.
2 & 6	Directionally fall away from NFS Trail #592. Where directional falling is not feasible, Included Timber and slash shall be removed from the trail by the end of each operating day.

Skidding and Yarding (Special Objectives)

Unless otherwise agreed in writing, silvicultural prescriptions and land management objectives shall be conducted and accomplished by the following requirements, methods and procedures.

Skidding and Yarding Table

Cutting Unit(s)	Special Objectives
All	In addition to the requirements of C.7, skid trails, skid roads, and landings shall be flagged by the Purchaser and agreed upon in advance of their construction and tree felling. Temporary roads shall be posted as "Road Closed" during use. Trees shall be skidded prior to limbing or topping (whole tree yarding), unless excessive damage, as determined by Forest Service, results to residual stand or improvements. All skidding machinery will be required to stay on approved skid trails. The minimum distance between skid trails must be 150 feet except where converging. Skidding equipment must have a minimum of 75 feet winching capacity. Tractor yarding is restricted to slopes of 35% or less. On slopes greater than 35% trees/logs shall first be yarded to an off-road jammer before tractor skidding on approved trails or roads. Off-road jammer shall have a minimum of 300 feet yarding capability. Trees designated for cutting and/or logs will be left as rub trees along skid trails and tractor roads, as needed, to protect young growth and leave trees. Trees shall be tractor skidded with the leading end free of the ground. The grade of constructed skid trails/roads must not exceed 30%. Temporary roads shall be posted as "Road Closed" during use.
2 & 6	Skidding on or across NFS Trail #592 shall be approved in advance by the Forest Service. Trail will be returned to pre-existing width as a condition of use. Slash/logging debris shall be cleared from the trail surface at the end of each operating day.

Slash Responsibility Table

Description of Unit(s)		Type of Slash Disposal
Unit No.	Acres	
1	27.80	Whole Tree Yard Landing Cleanup Lop and Scatter (36")
2	21.30	
3	15.40	
4	10.70	
5	13.10	
6	13.90	
TOTAL ACRES 102.2		Clean System Roads Slash Temporary Road Construction
Sale Area		

Whole Tree Yard

Contractor shall leave tops and limbs of all felled trees attached to Included Timber and yard them to landings. Limbs greater than 3 inches in diameter may have to be lopped and trees bucked to an appropriate length, where the tree falls, if damage during skidding could occur to residual timber.

Landing Cleanup

A landing is defined as a place where any logs or products are gathered and processed for loading. Slash is defined as cull logs, tops, limbs, and woody material created by landing construction or deposited thereon as a result of skidding or other operations.

Logs/pieces over 15 inches diameter on the small end and 15 feet or greater in length, not meeting the utilization standards specified in C.1, shall be returned to units if lacking large course woody debris or decked as directed by the NFF.

Slash piles shall be reasonably compact and free of soil. Piles shall not be less than 6 feet in height and a minimum distance of twice their diameter from any residual timber, facilities, or improvements or as agreed to by the NFF. Pile length will not exceed 40 feet. All piles should have a good base to prevent the pile from toppling. All pieces extending more than 4 feet from the pile shall be lopped off and returned to the pile. Piling of landing slash shall be performed with a grapple-type machine.

Lop and Scatter (36")

Tops, limbs and portions of trees broken during felling operations, and/or lost on the way to the landing site during skidding and yarding operations that do not contain a merchantable piece, as identified in C.1, shall be bucked into lengths shorter than 6 feet and lopped and scattered to a depth of 36 inches in height or less above the ground.

Clean System Roads

Slash created from activities associated with road maintenance shall be piled on the lower side of the road or scattered within the adjacent area as agreed to by the NFF.

Contractor shall dispose of all logging slash 3 inches in diameter on the large end and 12 inches in length which falls on the roadway of any system road shown on the Sale Area Map (provided upon award) and shall be piled on the lower side of the road or scattered within the adjacent area as agreed to in writing by the NFF.

Blade with spacer shoes or equivalent, shall be required on all ground skidding equipment used for moving slash or debris on landings or roads.

Slash Temporary Road Construction

Trees within the clearing limits not meeting minimum piece specifications in A2, and other debris from the clearing and grubbing operations, shall be bucked into lengths not

to exceed 6 feet and piled or scattered into the adjacent area as agreed to in writing by the Forest Service.

C.8 Noxious Weeds

1. Clean to remove all visible plant parts, dirt, and material that may carry noxious weed seeds from all equipment and vehicles prior to entry into the project area. Staging of equipment and/or rehabilitation materials will not be allowed in known infestations sites.
2. Revegetate soil exposed by ground-disturbing activities (e.g., skid trails, landings, cut and fill slopes, culvert removal or replacement sites) to prevent the invasion and/or expansion of noxious weeds.
3. Seed mixes and/or plant materials used during restoration and soil erosion prevention activities will be composed of certified weed-free native or desirable non-native seed mixes and/or native cultivars, as described in the Seed Application Table below (C.10.5.).

C.9 Recreation, Scenic Resources, & Public Safety

1. Post signs along major trails, roads, and staging areas where operations are visible to the public, describing the purpose of the activities.
2. Prohibit log haul on weekends (all day Saturday and Sunday); all major holidays (Memorial Day, Independence Day, Labor Day and Thanksgiving and the day following Thanksgiving).

C.10 Soil, Water, & Fisheries

Streamside Management Zone Table

Cutting Unit	Zone Requirements
All	The Forest Service has identified all known streamside management zones on the Sale Area Map, however, the discovery of additional hydrologic activity or changes in known streamcourses may occur. Discovery, by either the Purchaser or Forest Service, of additional hydrologic activity or a change to previously identified SMZs, shall be promptly reported to the other party and special protection measures shall be agreed upon if needed.
All	Intermittent SMZs - No timber harvest or off-road equipment is allowed within 50 feet slope distance either side of the high-water mark. Road maintenance is permitted.
	Perennial SMZs - No timber harvest or off-road equipment is allowed within 75 feet slope distance either side of the high-water mark. Road maintenance is permitted.
	Intermittent and Perennial SMZs Where yarding is necessary from within a SMZ, equipment shall be confined to existing National Forest System roads. Where included timber cannot be directionally felled away from a SMZ, it shall be removed using a cable system from outside the SMZ. Fuel storage is not permitted. Refueling or servicing vehicles or equipment should not take place unless there is no alternative. Forest Service shall approve such sites if no acceptable alternative is available, and a spill containment kit will be on-site during refueling that is sufficient to contain 1.5x the potential fuel spill. Where necessary to minimize sediment delivery to streams from road management activities, including temporary roads, erosion control devices shall be installed. Landings shall be located outside of SMZs. Log landings may be located within a SMZ or an existing landing within a SMZ may be utilized with Forest Service approval and agreement on erosion control devices. Erosion control devices may include, but are not limited to, certified weed-seed-free straw wattles or bales, slash filter windrows and/or biodegradable erosion cloth. Erosion control devices made entirely of biodegradable material may be left in place at the end of project use. Forest Service will determine the most effective sediment control method.
	Seeps and Springs Known seeps and springs are shown on the Sale Area Map, any new discovery, by either the Purchaser or Forest Service, of a seep or spring shall be promptly reported to the other party. Protection measures will be based upon the zone of influence, identified by the Forest Service, which includes the water feature, and the water influenced vegetation surrounding it. A buffer zone, as identified by the Forest Service, will begin at the outer edge of the zone of influence. No equipment entry will be allowed within the zone of influence or the buffer zone as determined by the Forest Service. Hand felling and cable yarding will be permitted outside the zone of influence. Unless otherwise determined by the Forest Service, skidding will not be permitted within 50 feet of the buffer zone.

1. Store hazardous material outside of Riparian Conservation Areas (RCAs). Do not refuel or service vehicles or equipment within RCAs unless there is no other alternative. Equipment will be inspected prior to work within an RCA to ensure there are no leaks.

2. The NFF in consultation with the Forest Service, shall approve any additional water drafting locations, methods, and timing not shown on the Sale Area Map (provided upon award). The screen opening size for intake hoses shall be the standard 3/32 inch or smaller to prevent fish entrapment and the intake is of sufficient size to reduce the suction force to prevent fish injury.
3. If skid trails are needed within RCAs for timber harvest, the NFF in consultation with the Forest Service, shall approve locations, even if the new routes are on previously known road prisms.

Erosion Prevention and Control

1. All temporary roads approved for this project are shown on the project maps and centerline is identified on the ground with pink and black striped flagging.
2. Skidding with tractors within 75 feet of live streams shall not be permitted except in places designated in advance by the NFF in consultation with the Forest Service, and in no event shall skid roads be located in live or intermittent stream courses. Skid trails shall be located high enough out of draws, swales, and valley bottoms to permit diversion of runoff water to natural undisturbed forest ground cover.
3. Prior to periods of accelerated water runoff, especially during the spring runoff and periods of heavy rainfall, Contractor shall inspect and open culverts and drainage structures, construct special cross ditches for road runoff, and take other reasonable measures needed to prevent soil erosion and siltation of streams.
4. Temporary Road surface width shall be limited to truck bunk width plus four (4) feet, except for needed turnouts which shall not exceed two (2) times the bunk width plus four (4) feet. If shovels or cranes with revolving carriage are used to skid or load, Temporary Road surface width equal to track width plus tail swing shall be permitted.
5. Unless otherwise agreed in writing, Contractor shall keep erosion control work current with operations under the contract and in any case no later than 15 days after completion of skidding on each cutting unit.

Erosion Control Seeding

1. Soil on areas to be seeded shall be left in a roughened condition favorable to the retention and germination of the seed. Scarification of traveled ways on Specified Roads as designated by the NFF on skid trails, landings and Temporary Roads, shall be to a minimum depth of 6 inches and a maximum depth of 12 inches.
2. Seed shall be spread at a rate of **12.5** pounds of seed and N/A pounds of fertilizer per acre.
3. Unless otherwise agreed to in writing, seeding shall be done in the early spring or fall during weather and moisture conditions favorable for quick germination and growth of the plants.

4. All seed purchased will be certified to be free of the noxious weed seeds from weeds listed on the current "All States Noxious Weeds List." Test results from a certified seed analyst and seed analysis labels attached to the bags will be provided to the NFF.
5. The kinds and amounts of seed to be sown in terms of pure live seed (PLS) shall be:

Seed Application Table

Common Name	Scientific Name	Source/Release ¹	PLS Pounds/Acre
1st Choice Bottlebrush Squirreltail	<i>Elymus elymoides</i>	Fish Creek	4.0
2nd Choice Slender Wheatgrass	<i>Elymus trachycaulus</i>	Pryor	
1st Choice Bluebunch Wheatgrass	<i>Pseudoroegneria spicata</i> ssp. <i>Spicata</i>	Goldar, P-7	4.0
2nd Choice Western Wheatgrass	<i>Pascopyrum smithii</i>	Rosana	
1st Choice Sandberg Bluegrass	<i>Poa sandbergii</i> or <i>Poa secunda</i> ssp. <i>ampla</i>	Mtn. Home, Reliable	2.0
2nd Choice Canby Bluegrass	<i>Poa secunda</i> ssp. <i>Canbyi</i>	Canbar	
Idaho fescue	<i>Festuca idahoensis</i>	Joseph	2.0
1st Choice Western Yarrow	<i>Achillea millefolium</i> (suggested rate 0.1 lbs PLS/ac)	Eagle	0.5
2nd Choice Blanket Flower	<i>Gaillardia aristata</i>	N/A	
3rd Choice Sulphur Buckwheat	<i>Eriogonum umbellatum</i>	Sierra	
Or any Combination of the above			
Seed Pure Live Seed			lbs/acre 12.5
*No seed older than 2 years will be accepted. *PLS – Pure Live Seed Only			

C.11 Wildlife Resources

1. If new species, denning, nesting, and roosting sites are discovered during implementation the NFF will be contacted for mitigation measures. The NFF in

consultation with the Forest Service will determine mitigation measures and would coordinate any needed modifications to prescribed treatments or activities to maintain key features of nesting/denning habitat or to avoid disrupting nesting/denning activities.

2. Retain all snags and retain all trees with occupied cavities and identified active bird nests unless they are identified as a threat to motorized and non-motorized routes, or threats to human safety.

APPENDIX D

HAULING AND DELIVERY SPECIFICATIONS

The contractor will be responsible for the marketing and delivery of wood of merchantable size. Merchantable biomass can be directly sent to mills or other agreed-upon places. Loads will be ticketed, and delivery sites will be agreed upon before hauling. Excess biomass such as top wood and small diameter ponderosa pine will be felled, yarded, limbed, and decked at landings.

Typical sawtimber delivery locations:

1. Woodgrain Sawmill
500 W. Main St.
Emmett, ID 83617
2. Tamarack Mill, LLC.
3555 US-95
New Meadows, ID 83654
3. Boise Cascade Elgin Plywood
90 S. 21st Ave.
Elgin, OR 97827
4. Other locations as agreed on by contractor and the NFF.

Scaling as Presented (Scale by Load Count)

Volume for all products removed will be paid for at rates agreed upon with the NFF on the following predetermined conversion factors by truck configuration times the number of loads removed and counted for each configuration:

Log Truck Configuration / Conversion Factor Table

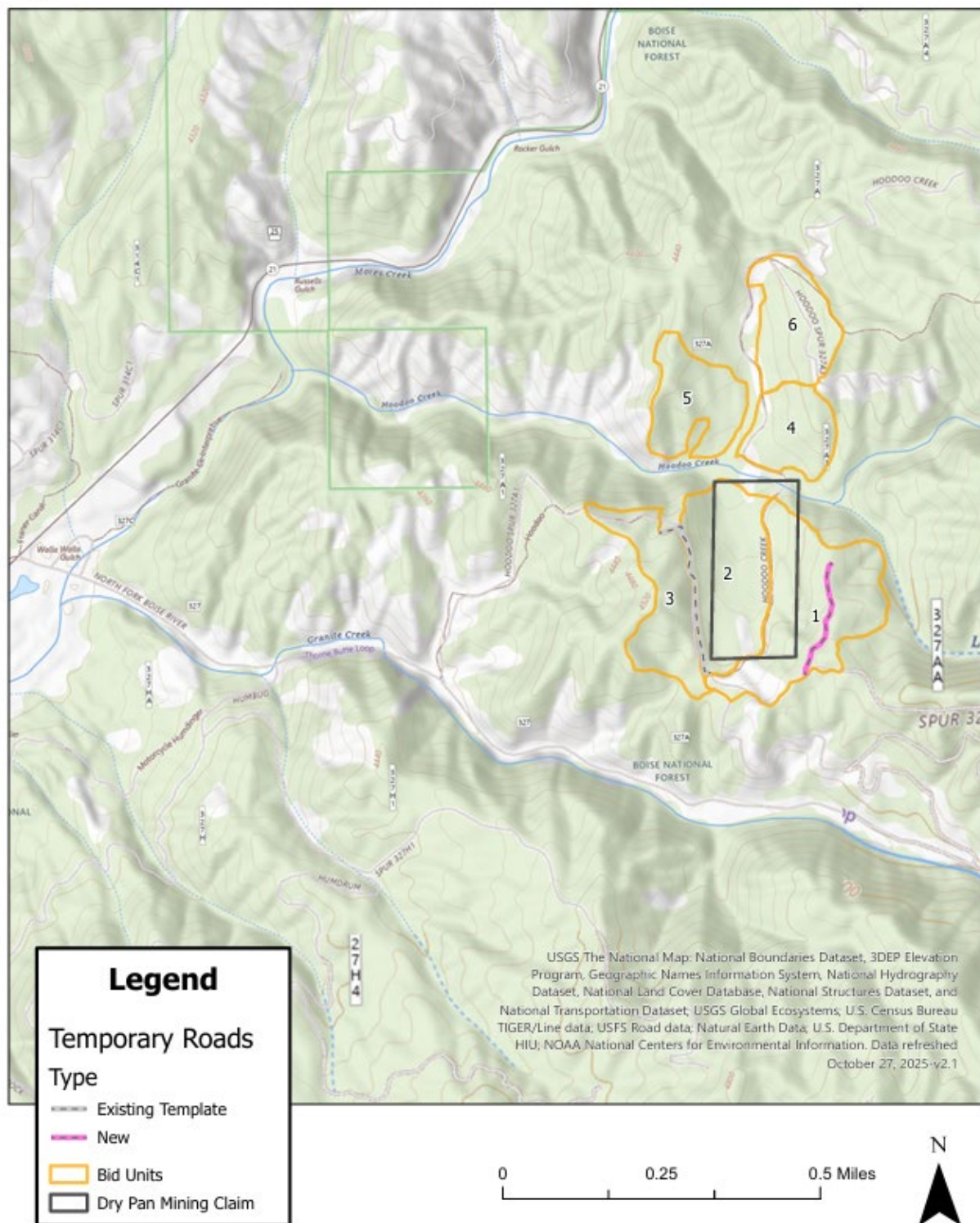
Log Truck Configuration	Tons per Load	Maximum Gross Vehicle Weight
5 axle single trailer/bunk	29.65	80,000
7 axle double (2 trailer/bunk)	36.01	80,000
5 axle self loader	23.72	80,000

Log trucks are restricted to a maximum gross vehicle weight for each log truck configuration shown in the table above, as well as State limits for width and height.

If multiple configurations are used, the Contractor will be issued separate removal receipts books to be used for each configuration.

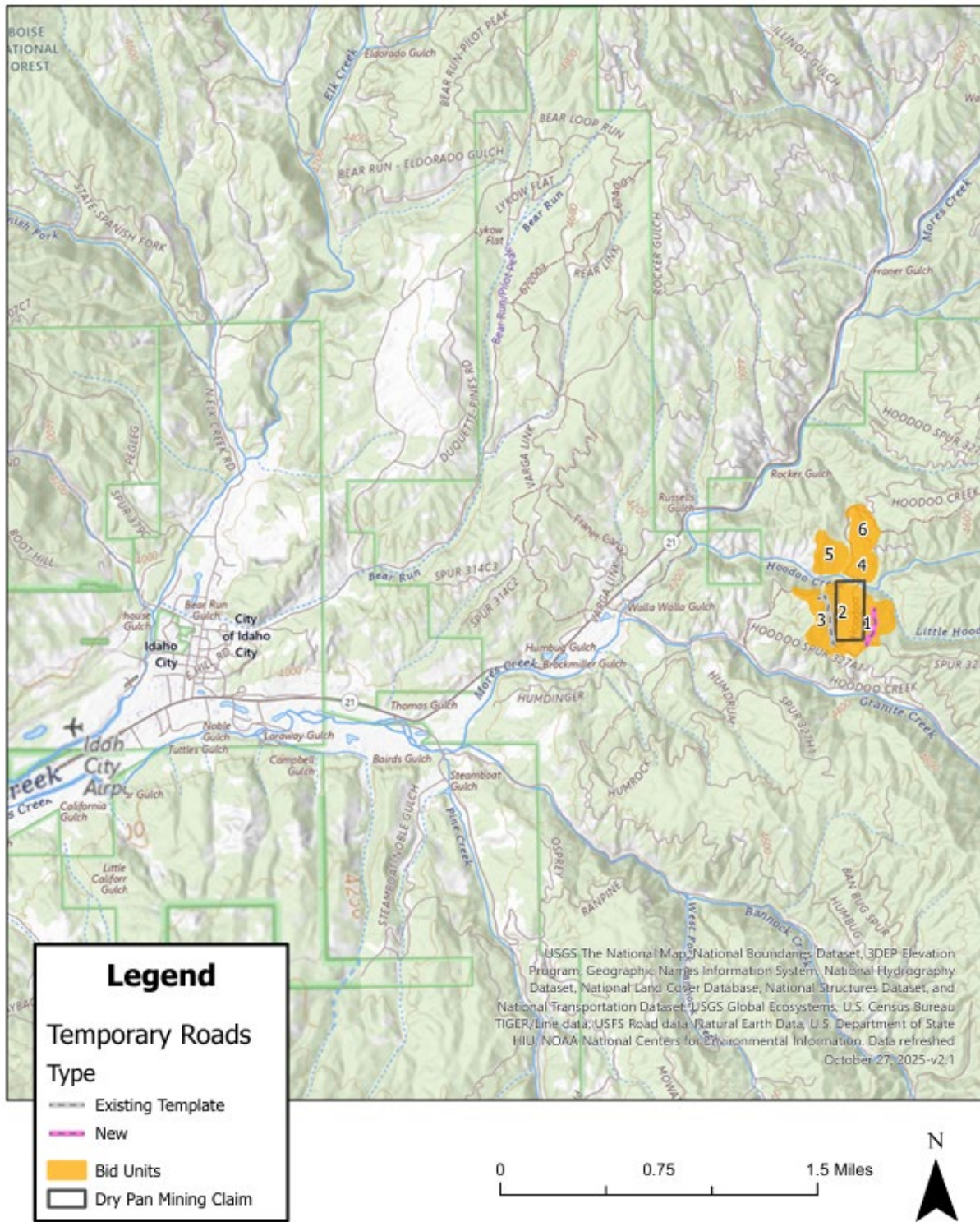
APPENDIX E
PROJECT MAPS

Project Map: Tent Rock Stewardship





Vicinity Map: Tent Rock Stewardship



* Georeferenced maps viewable in [Avenza PDF App](#) available upon request

APPENDIX F

FEDERAL ACCEPTANCE OF WORK

Within Cutting Units 1, 2, 3, 4, and 5 as shown on the Sale Area Map, the following criteria shall be used by the Forest Service to evaluate compliance and determine if Purchaser's tree selection under C2.355# is acceptable.

- A) Purchaser shall provide written notice 5 days prior, excluding weekend and Federal holidays before starting of cutting operations in Cutting Units **1, 2, 3, 4, and 5**. The Forest Service and the designated Purchaser Representative will meet with the Purchaser's faller(s) at the first Cutting Unit to be cut. The requirements of this provision and C2.355# will be reviewed before cutting commences. The Forest Service Sale Administrator and Harvest Inspector, for the first Cutting Unit to be cut, will stay in the immediate vicinity of the work being done for the first 6 hours so prompt feedback can be provided and adjustments in cutting can occur so as not to delay unnecessarily the cutting operations.
- B) The Forest Service and the designated Purchaser Representative will conduct ongoing visual inspections to determine compliance with all the criteria in this provision and C2.355# so that prompt feedback can be provided and adjustments in cutting can occur. Feedback will be documented in writing in an inspection report which will be acknowledged by signature of the designated Purchaser's Representative. Failure by the Purchaser to follow sound judgement regarding leave tree factors may result in B9.3 Breach.
- C) The Forest Service will conduct a **final inspection** with acceptance based on compliance with trees per acre.

Inspection criteria are as follows:

1. Forest Service will use 10th acre plots (37.2 feet) as the method to determine compliance with trees per acre.
2. There will be one plot measured for every 3 acres in a Cutting Unit with a minimum of 4 plots being measured in any individual Cutting Unit. Plot locations will be determined by a computer-generated program that randomly distributes plot locations within cutting units.

a) The desired end-result and acceptance range of Trees Per Acre is as follows:

Cutting Units	Desired End-Result Trees Per Acre	Acceptable Range Trees Per Acre
1-5	25 to 35	25 to 35

- The overall Trees Per Acre score will be determined using the following formula:
Trees Per Acre Score = (sum of trees on all plots/total # of plots) multiplied by a factor of 10
- The overall Trees Per Acre score for each cutting unit shall be within the acceptable range listed above.

D) Forest Service will use Visual Surveys as the method of determining Priority Retention trees, desirable/acceptable leave trees, large tree retention, spatial arrangement and conifer removal from aspen clones.

a) **The desired end-result for the largest, best formed, most vigorous, and healthy trees is as follows:**

The following table will be used as a guide for determining acceptable leave trees. **FACTORS ARE LISTED IN ORDER OF PREFERENCE.**

- Trees meeting the description of **Priority Retention** shall always be retained regardless of any other factors.
- Trees meeting the factors for **Desirable** leave trees shall always be chosen as leave trees where available.
- Trees meeting the factors for **Acceptable** leave trees shall be chosen where Desirables are unavailable.

Factors	Desirable	Acceptable	Non-Desirable
Crown Class	Dominants & Co-dominants	Intermediates reaching into upper canopy	Suppressed and/or overtopped
PRIORITY RETENTION	ponderosa pine which are significantly larger than other trees within the stand and have all the following characteristics: colorful bark plates greater than or equal to 10 inches wide, have no knots visible on bole below main crown.	ponderosa pine which are significantly larger than the other trees within the stand and have all the following characteristics: colorful bark plates between 6 and 10 inches wide, old knots may or may not be visible below main crown.	N/A
Live & Dead	Douglas-fir which are significantly larger than other trees within the stand and have all the following characteristics: hard bark with fissures greater than or equal to 4 inches on lower 1/3 of tree, no knots visible on lower 1/3 of tree, crown has large and/or gnarly epicormic branching, crown does not extend to the ground and is relatively flat/stunted or dead/dying top. Typically, these characteristics are present in trees 28 inches DBH and greater.	Douglas-fir which are significantly larger than the other trees within the stand and have all the following characteristics: hard bark with moderately deep fissures, old knots may or may not be visible on lower 1/3 of tree, may have small or large/gnarly epicormic branching, crown stunted or flat, top dead/dying. Typically, these characteristics are present in trees 28 inches DBH and greater.	
Species	1. ponderosa pine 2. Douglas-fir	1. ponderosa pine 2. Douglas-fir	N/A
Tree Size Class	Large Tree 20.0" and greater	Medium to Small Trees 19.9" to 8.0"	N/A

(inches DBH)		That meets all other Desirable Factors	
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Factors	Desirable	Acceptable	Non-Desirable
Spatial Arrangement	Variable Spacing Groups or clumps with interlocking crowns. Groups, clumps and trees shall have crown separation from other individual groups, clumps and trees by at least 25 feet. Creation of small openings (between a ¼ and ½ acre in size)	Variable Spacing Groups or clumps with interlocking crowns. Groups, clumps and trees shall have crown separation from other individual groups, clumps and trees by at least 25 feet. Creation of small openings (between a ¼ and ½ acre in size)	Uniform spacing Groups or Clumps with more than 6 trees.
Crown Ratio Percent Live Crown of total tree height	100% to 50%	50% to 30%	Less than 30%
Biotic Factors: Insect & Disease	None	Minor defoliation; gall or canker affecting less than 50% of the entire tree or its branches.	Successful bark beetle attack, or defoliation; gall, or canker affecting more than 50% of the entire tree or its branches; conks on stem indicating rot, dead top.
Dwarf Mistletoe Rating (DMR)	None	1-2	3 or greater
Abiotic Factors: Form Defects	None	Minor crooks, sweeps, tight forks less than 30% of total tree height on dominant or co-dominant trees with good vigor; some weakening of the tree.	Crook, sweep, multiple forks affecting 30% or greater of the total tree height; multiple defects on a single tree.

- Forest Service will determine that Purchaser is following the criteria in the above table when selecting leave trees.
- Forest Service will discuss with Purchaser and document in writing where corrective action is needed by the Purchaser.

b) The desired end-result for PRIORITY RETENTION trees and removal of other trees within 30 feet of the bole:

- Forest Service will determine that Purchaser is retaining and accurately identifying priority retention trees.
- Forest Service will determine that the Purchaser has not left any conifer trees greater than or equal to 8.0 inches DBH within 30 feet from the bole of priority retention trees.
- Forest Service will discuss with Purchaser and document in writing where corrective action is needed by the Purchaser.

c) The desired end-result for spatial arrangement of Trees Per Acre:

- Forest Service will determine that Purchaser's selection of groups, clumps, and individual trees is spatially arranged throughout each unit to retain the largest, best formed, most vigorous and healthiest leave trees while maintaining the desired TPA range.
- Selection of leave trees shall be no closer than 25 feet crown spacing to the next individual group, clump or tree.
- Forest Service will discuss with Purchaser and document in writing where corrective action is needed by the Purchaser.

d) The desired end-result for conifer removal in and around aspen clones:

- Forest Service will determine that the Purchaser has not left any conifer trees greater than 8.0 inches DBH, except "priority retention" trees, from within and 30 feet from the outer edge of aspen clones.
- Forest Service will discuss with Purchaser and document in writing where corrective action is needed by the Purchaser.