REQUEST FOR PROPOSALS (RFP) **May 5, 2022**

Summer 2022 Regeneration Exams

Pier and Cedar Fire Scars
Sequoia National Forest, CA

American Forests hereby requests qualifications and proposals for natural regeneration exams associated with American Forests' grant agreement:

Sequoia Wildfire Reforestation and Recovery Project (SQWRR), Sequoia National Forest, California's Department of Forest and Fire Protection's (CAL FIRE) Forest Health Program (FHP), as a part of the California Climate Investments (CCI) Program and American Forests.

All proposals must be emailed no later than June 3, 2022 to kbarton@americanforests.org, CC: jreynolds@americanforests.org.

SCHEDULE OF ITEMS

2022 Natural Regeneration Exams

Pay Item #	Description	Plot Qty	Pay Unit Options	Unit Price
1	Pier Fire Scar	1,406	Daily Crew Rate OR Plot	$
2	Cedar Fire Scar South	5,000	Daily Crew Rate OR Plot	$

Estimated quantities are for the purpose of evaluation of prices only. Western Divide Ranger District and Kern River Ranger District will have an estimated 6,406 plots for regeneration exams. Plots to be surveyed are in high severity burn areas resulting from the Pier (2017) and Cedar (2016) fires, on slopes of 50% or less and within 0.5 miles of a road.

PROJECT INFORMATION

American Forests is seeking an experienced contracting firm or independent contractor to complete regeneration exams on the Western Divide Ranger District and Kern River Ranger District of Sequoia National Forest.

The Contractor shall provide all labor, equipment, incidentals and services necessary to make statistically sound silvicultural examinations with which management determinations for units will be made, provide quantitative estimates of various unit attributes such as seedling distribution by species and height and estimated shrub cover. The Contractor shall also furnish supervision, transportation of supplies (except those designated as furnished by American Forests), and incidentals to perform all work necessary for the areas specified in the contract.

The proposer must demonstrate through their response to this Request for Proposal (RFP), knowledge and experience in the area of expertise and provide a recommendation and quote as to what work should be done during the project term to complete planned treatments. Additional methods will be considered, as appropriate, if approved by the Registered Professional Forester associated with the project. American Forests will consider any proposal that enhances the overall goal stated in the statement of work.

Contractor services shall include at least the following items described above. American Forests understands the RFP may be inadequate to fully describe the work envisioned. Contractor should include additional tasks they deem appropriate. Include written reasons why a task should be included, and the fee required to complete the task. American Forests' intent is to be able to agree upon a scope of work that will meet the needs of the project with a fee package providing fair compensation to the Contractor.

PROJECT BACKGROUND

The 2017 Pier fire started in the Tule River Canyon north of Springville, CA and burned 36,619 acres. The 2016 Cedar fire burned 29,322 acres northwest of Lake Isabella. The objective of this project is to complete regeneration exams to standard protocol to support future project planning, NEPA analysis, and documentation requirements. Specifically, this project aims to determine the status of postfire regeneration within high-severity burn areas in the Pier and Cedar burn footprints.

In 2021, American Forests was awarded a CAL FIRE Forest Health grant as a part of the California Climate Investments (CCI) program. American Forests, in partnership with Sequoia National Forest, Mountain Home Demonstration State Forest and Tule River Reservation, will fund and support reforestation and forest resilience efforts around the southern Sierra Nevada region over the next 3-4 years. Natural regeneration surveys across the Pier (2017) and Cedar (2016) fire scars will track natural forest recovery and support a necessary component of holistic reforestation.

Project Area Maps: attached

1. Pier Regeneration Units – all units are to be included in 2022 regeneration exams.

2. Cedar Regeneration Units – the following units are to be included in 2022 regeneration exams:

5
6
8
9
17
12
14
10
11
13
15

PROPSAL REQUIREMENTS

The proposal shall address all the following items, in the order set forth. In order to be considered, complete proposals will include and address items 1-4 as completely as possible.

1. **Applicant or Firm Name and Qualifications**:
    a. Type of Organization, size (local office and total firm size), professional registrations and/or affiliations, number of years as a firm/independent contractor.

    b. Names and qualifications of personnel assigned to Project. Include principal-in-charge, project manager, and all professional staff expected to take responsible roles.

    c. Outline of recent projects completed that may be similar to this project and that are local to the project area. Client references from recent projects, including name, address and telephone of individuals to contact.

    d. Contractor is required to demonstrate expertise relating to the requirements of the Project Scope.

2. **Plan of Operations:** and method to be used to accomplish the project as described in project information above and in the attached Statement of Work.

    Deliverables:
    a. Collect data from plots including slope, aspect, latitude and longitude, tree counts, shrub cover (%) and other visual observations on potential environmental issues.

    b. Establish a plan for quality assurance of data collected.

    c. Develop a report structure for summary of data collected.

3. **Timeline:** Project work will start as soon as ground conditions allow and will conclude by the end of summer 2022.

4. **Itemized fee schedule and/or bid sheet:** as a basis for all proposed services and any optional services not included above, if applicable. Costs as a per unit cost for each item; use either Daily Crew Rate or Plots. A bid sheet has been provided.

SITE VISIT

In order to provide potential bidders familiarity with the proposed work site, and ensure the quality of bids, American Forests is available to schedule a general site visit. Please contact Kat Barton, kbarton@americanforests.org to schedule a site visit.

PROJECT UNDERSTANDING AND APPROACH

Work to be considered under this proposal includes, but not limited to the following tasks:

1. Contractor will work directly with the American Forests and Forest Service specialists to develop preliminary plans for surveying, availability, final schedule of implementation, and an invoicing/reimbursement schedule.

2. Contractor will furnish all materials and equipment along with staffing.

3. Contractor shall provide, within 10 calendar days after the notice of the award is issued; 1) a copy of the appropriate insurance requirements specified in the Statement of Work, 2) Illness and Injury Prevention Plan, and 3) a W-9.

    a. The Contractor shall obtain all necessary licenses and insurances as required by federal, state and local laws to complete the scope of work. Such insurance coverage shall be maintained in full force and effect for the duration of the Contract and must be in form satisfactory to American Forests.

4. Contractor shall complete all work according to the schedule and specifications agreed upon.

5. Contractor shall confer regularly with American Forests and Forest Service specialists to ensure projects are completed according to specification, and modified as needed based on site conditions.

PROPOSAL SUBMITTAL

1. All proposals must be emailed no later than 5 P.M. PST on June 3, 2022 to kbarton@americanforests.org, CC: jreynolds@americanforests.org.

2. Any questions or correspondences can be sent to the above emails. Any mail correspondences or inquiries should be directed to:

American Forests
Attn: Kat Barton
40675 Crystal Dr.
Three Rivers, CA 93271

SELECTION TERMS AND CONDITIONS:

1. Proposals are considered complete if they include all items requested in the proposal requirements section.

2. All costs for preparation of proposals shall be borne by the proposer.

3. Staff will review the proposals and will select the one that they believe is most advantageous for project results and coincides with American Forest's mission – to promote the quality and aesthetic values of our cultural, environmental, and recreational resources by improving the quality of life through diverse sustainable economic development.

4. The fee proposal and/or bid sheet will be used as a basis for negotiations with the selected Contractor of a final scope of work and proposed fee arrangement. If no acceptable arrangement can be negotiated, American Forests may terminate talks with the highest-ranked Contractor and initiate negotiations with the next-ranked Contractor, and so forth until a final agreement is reached.

5. American Forests may make the final selection and award. American Forests may or may not choose to interview the recommended Contractor prior to award.

6. This request does not constitute an offer of employment or to contract for services.

7. American Forests reserves the option to reject any or all proposals received in response to this request for Proposals, wholly or in part.

8. American Forests reserves the right to retain all proposals, whether selected or rejected.

9. All proposals shall remain firm for sixty (60) working days following the closing date for receipt of proposals.

10. The successful Contractor will be expected to enter into a contract with American Forests.

11. American Forests, and its associated partners, will award a contract resulting from this solicitation to the responsible offer or whose offer conforming to the solicitation will be most advantageous to American Forests, funder, and overall project - price and other factors will be considered. The following factors will be used to evaluate offers; equipment description, technical approach, qualifications and past performance, the proposed fee-for-service, and proximity to the project site.

12. The Technical Proposal is equally important to price when performing evaluation of proposals.

13. Please note American Forests is an equal opportunity provider and employer.

STATEMENT OF WORK **May 5, 2022**

Summer 2022 Regeneration Exams
Pier and Cedar Fire Scars
Sequoia National Forest, CA

Contents

SECTION I: SCOPE OF CONTRACT, LOCATION, DESCRIPTION OF WORK 6
SECTION II: TECHNICAL SPECIFICATIONS 9
SECTION III: INSPECTIONS AND ACCEPTANCE 13
APPENDICES 17
Appendix I, Exhibit A: Regeneration Unit Cover Sheet (Template) 17
Appendix I, Exhibit B: Plot Data Collection Sheet (Template) 18

SECTION I: SCOPE OF CONTRACT, LOCATION, DESCRIPTION OF WORK

A. SCOPE OF CONTRACT

Description of Work: The intent of this contract is to secure services for field data collection to assess natural regeneration potential on the Western Divide Ranger District and Kern River Ranger District of the Sequoia National Forest, California.

The main features of this contract are:

a. Regeneration Exam units to be surveyed will be issued through the Schedule of Items.

b. Payment will be based upon verification of Contractor's completed field forms and verification of data accuracy through inspection.

B. PROJECT LOCATION AND ACCESSIBILITY:

Location: All project locations lie entirely within the Sequoia National Forest on the Western Divide Ranger District and Kern River Ranger District. Project locations are provided on area maps attached.

Accessibility: It is the Contractor's responsibility to reach the work site when it is ready for surveying. It is the responsibility of the Contractor to thoroughly acquaint himself/herself of road conditions for gaining access to surveying sites. American Forests will not be responsible for any excess costs attributable to the Contractor's failure to make inspection of road conditions and satisfy himself/herself as to the type of transportation needed. Forest roads are generally accessible by standard two-wheel drive pick-up (with snow tires and chains, if needed) during normal operating seasons.

a. No vehicles will be permitted to operate off roads without approval of the American Forests or USFS Staff.
b. If road access is blocked, then American Forests may: (a) provide an alternate route, (b) exclude the inaccessible plots, or (c) pay for a walk-in access.

Locked Gates: Some of the Regeneration units will be located behind locked gates. The Contractor will be allowed behind those gates during the performance of the Contract, subject to the following provisions:

a. No firearms or hunting will be permitted behind the locked gates.
b. The Government will provide and install a combination lock for Contractor access behind locked gates. The Contractor will be supplied necessary combinations.
c. When permitted, the Contractor shall drive from the locked gate to the unit access point with only the minimum number of vehicles necessary for efficient transport of the crew.
d. No vehicular traffic beyond that which is necessary to accomplish contract work will be permitted.
e. The Contractor is responsible for keeping gates locked.
f. Trees blocking roads shall be initially cleared by the government. Removing down trees subsequent to the initial clearing shall be the responsibility of the Contractor.

Camping: The Contractor will not be allowed to camp behind closed gates. It is anticipated that allowable camp site locations can be found near the exam units. It is the Contractor's responsibility to acquaint themselves with allowable camping spots and to confirm acceptability of camping spots and any rules and regulations with the Forest Service during the pre-work meeting.

C. ESIMATED TIMELINE

Estimated Start Date: As early as June 2022. American Forests will issue a notice to proceed prior to the Estimated Start Date.

Estimated Completion Date: When environmental conditions prevents access to units and/or all items listed in the schedule of work have been completed.

D. RESTRICTIONS ON WORK

Work may be performed at any time during the period of the contract, except as outlined here. Restrictions are as follows:

a. When American Forests staff determines that adverse weather has made access too dangerous or that continued vehicular travel would cause unacceptable road damage.

b. The work schedule will be subject to change depending accessibility, weather, and other unforeseeable factors emergency closures due to wildfire. Data collection and therefore work may cease for periods of time or indefinitely due to any of these events occurring.
c. Work may not be performed on federal holidays, and daily before 06:00 AM or after 06:00 PM.
d. In certain areas that may have an increased drive time, collections will end at 1700 (5:00 pm) or at the discretion of American Forest Staff. This is due to driving safety to and from the project site and to ensure work/rest ratios are met for American Forest employees.
e. American Forest Staff and Contractors will follow all specific Forest fire restrictions and any local, regional or national U.S. Forest Service Orders.

E. LICENSES AND INSURANCE

1. Contractor will provide prior to award:

    a. The Contractor shall obtain all necessary licenses and insurances as required by federal, state and local laws to complete the scope of work. Such insurance coverage shall be maintained in full force and effect for the duration of the Contract and must be in form satisfactory to American Forests.

    b. The selected firm shall take our and maintain during the life of the Agreement Workers Compensation Insurance for all it's employees on the project. In lieu of evidence of Workers Compensation Insurance, American Forests will accept a Self-Insured Certificate from the state of California. The Contractor shall require any subcontractor to provide it with evidence of Worker's Compensation Insurance.

2. Contractor shall possess all permits, licenses and professional credentials necessary to perform services as specified in this RFP.

SECTION II: TECHNICAL SPECIFICATIONS

a. The Contractor shall follow all Federal, State, and local safety laws and regulations applicable to the contract work to be performed. This includes following all proper safety protocol unless alternate methods are approved by the American Forests Staff.

b. American Forests may determine the order in which plots are visited for selection purposes.

c. The Contractor shall take all precautions to prevent damage to any seedlings or live trees. If American Forests determines that excessive damage is occurring, the Contractor's right to proceed shall be suspended until the proper corrections have been made.

A. PROCEDURE

1/50th acre plots shall shall be determined following the instructions (a-c) below.

Plot Locations:

a. Plots should be evenly spaced. In most cases a three chain grid (one plot per acre) will cover a unit well.

b. All plots should be at least one chain inside the unit boundary. No plot shall be established in roads or trails.

Flagging and Plot Center Marking: Flagging is used to facilitate the location of plot centers in order to check the accuracy of recorded data. No green flagging shall be used. Biodegradable flagging is recommended.

a. Flagging shall be a minimum of 12 inches to a maximum of 24 inches long after tying.

b. Plots shall be marked as follows:

1. Approximate Plot Center - Two ribbons located approximately 3-4 feet above or as near as possible above plot center.

2. Plot Center - Plot centers shall be clearly marked with a 12 inch wire stake flag. The plot center shall be marked on the stake with a permanent marker.

Plot centers must be marked on a georefereneced project map, and will include the following information in labeling: (Fire scar initial)(U unit ID#)(P plot #). For example, the first plot in unit 3 on the Cedar fire scar could be labeled as: CU3P1.

Plot centers must be named the same on wire staked flags, in data collection documentation, and on project maps.

Regeneration Unit Cover Sheet *(*Appendix I, Exhibit A*):* the fields on the cover sheet shall be accurately and completely filled out for each surveyed unit. The Regeneration Unit Cover Sheet serves as an example of the format that can be used to record required information.

American Forests will supply the following information:

Unit ID #
Unit Acres

The following fields **must** be included:

a. The date(s) the unit was surveyed, total number of plots surveyed in the unit, and the total TPA calculated from plot data.

b. A map representing the unit that accuratlely displays all plot locations and uses plot naming standards specified in this contract. A shapefile is the prefered format to be submitted to American Forests.

c. Description of unit attributes such as seedling growth and survival, competing vegetation, or unplantable areas. Unit attributes can be submitted as a narrative or included on the unit map.

Plot Data Collection Sheet: (Appendix I, Exhibit B)- the fields on the plot data collection sheet shall be accurately and completely filled out for each surveyed plot in each unit. The Plot Data Collection Sheet serves as an example as a format for recording required unit plot data.

a. The following fields **must** be included in the data collection:

Field 1 – Fire scar
Field 2 – Name or initials of person(s) collecting data
Field 3 – Date data was collected
Field 4 – Unit ID #
Field 5 – Plot ID # (must be labeled the same as on map)
Field 6 – Aspect
Field 7 – Slope (%)
Field 8 – Latitude and longitude of plot center
Fields 9-15 – *Count of trees by species between 6 inches and 4.5' tall
Fields 16-22 – *Count of trees by species 4.5' tall and greater
Field 23 – **Residual Seed Trees
Field 24 – Shrub cover range – 0-25%, 25-50%, 50-75%, 75-100%
Field 25 – ***Other visual observations / environmental information (continue on back of sheet if needed).

*For Oak, count by the entire root crown, not by individual sprouts.

** For the purpose of this contract, Residual Seed Trees (see Section B.2 Definitions) are within 100 feet of plot center. Distance to plot center may be estimated. Do not count a seed tree in more than one plot.

*** Examples include unplantable areas, live tree health, animal damage, soil conditions, or any information that will assist in the evaluation of tree survival potential of the plot.

Fixed Radius Plot: (see Figure 1)

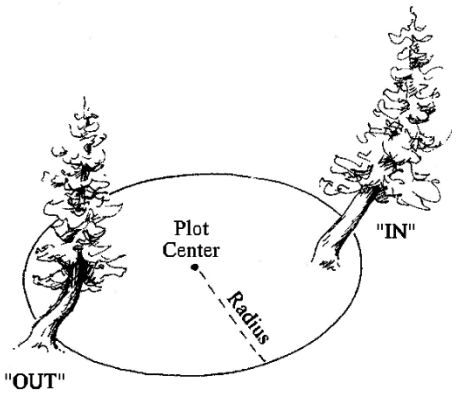
Tally all established seedlings 6" in height and greater that fall within the 1/50th acre fixed plot radius from plot center. Tally shall start at 0 degrees azimuth and proceed in a clockwise direction.

1/50th acre (16.7 foot radius on level ground) plot will be located at each plot center. However; on steep ground it is necessary to adjust the plot radius as the percent of slope increases. Use the following table.

TABLE OF VARIOUS SLOPES ON 1/50TH ACRE PLOTS

0-9	16.7
10-17	16.7
18-22	16.8
23-26	16.9
27-30	17.0
31-33	17.1
34-36	17.1
37-39	17.2
40-42	17.3
43-44	17.4
45-47	17.5
48-49	17.5
50-51	17.6

Figure 1: Trees "in" and "out" of a fixed radius plot.



All completed field forms and a detailed copy of the project map showing the location of transect lines and plot center will be submitted to an American Forests or Forest Service representative.

B. DEFINITIONS

Chain: unit of length equal to 66 feet (22 yards).

Established Tree: All live trees 6" tall and greater.

Naturals: trees that have grown from seed and have become established since fire.

Plot: 1/50th acre area surveyed.

Residual Seed Tree: Trees established pre-fire that are of cone-bearing age, have a DBH of 12 inches or greater, and are disease-free. For the purpose of this contract, they must be within 100 feet of the plot center.

SQF: Sequoia National Forest.

C. CONTRACTOR FURNISHED EQUIPMENT

The Contractor shall provide all equipment which may include, but not limited to:

1. Loggers tape that measures in inches and contains a hook at the end
2. Clinometer(s)
3. Compass(s)
4. Smartphones or tablets equipped with GPS and a mapping program
5. Flagging tape (not green) – biodegradable recommended
6. Stake flags to mark plot center
7. Permanent marker(s)
8. Notebooks/paper and pens/pencils or electronic data collection program

American Forests shall provide the following equipment:

1. Georeferenced project map
2. Regeneration Exams Cover Sheet and Regeneration Exam Data Collection Sheet (Appendix I: Exhibit I & II) – electronic copy
3. A Field Guide to Identifying Seedlings – electronic copy

Crew Requirements: The Contractor is responsible for the crew(s) and complying with the requirements of the contract including, but not limited to, accuracy of data collected and safety of personnel. The Contractor is fully responsible for the proper collection and recording of data by the crew(s). The Contractor is required to have an approved quality assurance plan in place. American Forests will not provide supervision of the crew(s).

State safety regulations require that crew members shall not work alone and accessibility to emergency transportation shall be provided by the Contractor at all times.

SECTION III: INSPECTIONS AND ACCEPTANCE

Accuracy Standards: The following standards and tolerances are established for recording data. An error will be counted for each deviation from a required accuracy standard. Errors will be added and averaged to determine payment. Certain errors have been identified that, if discovered, will make a unit unacceptable.

A. TECHNICAL ACCURACY STANDARDS

Regeneration Unit Cover Sheet

All fields are to be legible, accurate and complete. Missing information will require American Forests to return the Regeneration Exam Cover Sheet to the Contractor for rework or result in no payment for that unit. Calculations shall accurately reflect data collected. Each calculation error in Total TPA will result in (1) error applied to each plot in that unit. These errors will be added to any found on the Regeneration Exam Data Collection Sheet for payment calculation purposes.

Plot Data Collection Sheet

All fields are to be legible, accurate and complete. Missing information will require American Forests to return the Regeneration Exam Data Collection Sheet to the Contractor for rework or result in no payment for that unit.

A discrepancy in each required field below will result in (1) error:

Field 1 –	Unit ID # (provided by American Forests)	no errors
Field 2 –	Name or initials of person(s) collecting data	no errors
Field 3 –	Date data was collected	no errors
Field 4 –	Plot ID #	no errors
Field 5 –	Aspect	(+/-) 5%
Field 6 –	Slope (%)	(+/-) 5%
Field 7 –	Latitude and longitude of plot center	(+/-) 30 feet
Fields 8-11 –	Total count of trees by species 6”-4.5’	****(+/-) 1 tree
Fields 12-15 –	Total count of trees by species >4.5’	****(+/-) 1 tree
Field 16 –	Shrub cover (%) range	(+/-) 10%
Field 17 –	Other observations/environmental issues	N/A

**** Where total trees per plot exceeds ten, a discrepancy of (+/-) 10% will result in one (1) error.

B. INSPECTION

Quality Assurance. The Contractor is required to have a quality assurance plan, in which a third-party will inspect for compliance with the specifications and the individual tolerance requirements listed by field and/or category in the Technical Accuracy Standards.

Minimum number of plots to be randomly inspected is calculated as follows:

Number of Plots in Unit	Miminmum Percent to be Inspected
500 or less	6%
501 – 1,000	4%

The Contractor must provide information as to work location and progress on a scheduled basis as agreed at the prework conference. An American Forests representative will determine unit acceptance based on inspections completed by a third-party.

Minimum number of plots to be inspected is calculated as follows:

a. Payment will only be made on Completed Acceptable Units.

b. Error Trend of Record Stand Information. If during inspection of selected plots or review of submitted plot sheets, the American Forests representative determines a similar error is occurring in the information being recorded by the Contractor, the American Forests Representative shall notify the Contractor of the findings.

c. Upon request from the Contractor, American Forests will perform one free re-inspection of one plot as an example of inspection procedures and demonstration of problems encountered. This re-inspection will be done on an original inspection plot and the Contractor must accompany the American Forests inspector.

d. Determination of Acceptable Work. Based on inspections by a third-party, American Forests will determine whether the Contractor's work is acceptable or unacceptable (see Section III, D).

e. Unacceptable Units. The unit is determined to be unacceptable if any one of the following conditions occur:

    1. Any plot where plot center location cannot be located because of improper labeling of the plot center or starting point, or for any other reason attributable to noncompliance with specifications.
    2. Any plot that exceeds + 20% on distance between plots or any plot that exceeds + 10° azimuth between plots.
    3. Any form containing illegible handwriting.
    4. Any plot that

C. REWORKING UNITS

a. All plots in a unit will be returned to the Contractor when the unit is determined to be unacceptable. The Contractor may be required to rework all of the plots, including those that were not originally inspected.

b. Due to the time and expense incurred by the American Forests in performing additional inspection, the Contractor will have only one opportunity to rework unacceptable units. Should a unit fail to pass inspection after reworking, refer to Section III, D: Contract Administration.

Inspection of Rework

a. When the Contractor returns the plot sheets after reworking the unit, the third-party will make a new inspection of the unit. The same inspection procedures will be used to inspect the reworked plots. The Contractor may accompany the inspector during the new inspection of the unit. Payment will be based on re-inspection.

b. Any reinspection necessary due to the Contractor reworking a unit, shall be at the Contractor's expense.

D. CONTRACT ADMINISTRATION

A post award conference with the successful offeror is required. It will be scheduled prior to the commencement of work.

Measurement and Payment

a. Method of Measurement. The Contractor is required to have a third-party quality assurance plan in place for all units. Randomly selected plots must be inspected for each unit to check compliance with the Specifications and Technical Accuracy Standards. American Forests will verify inspected units and their compliance with the Specifications and Technical Accuracy Standards to determine acceptability.

b. Method of Payment.

i. After notification of unacceptable units, the Contractor shall not begin work on other units until the unacceptable units have been reworked.

ii. The following reduced payment schedule will be used if there are plot errors within acceptable units 80 percent or greater:

Number of errors per data lines across all inspection plots for a unit.

Equal to or less than .20 = 100% payment
.21 - .40 = 90% payment
.41 - .60 = 80% payment
Less than .60 = 0% payment (Unacceptable)

iii. Payment Calculation: Total number of errors divided by the number of data lines collected equals the average number of errors per line, which is the basis for determining the percent of full payment.

Example: 20 errors found ÷ 80 total data lines = .25 = 90%

c. Inspection and Payment Schedule. Inspection and payment will be made only on completed items deemed acceptable by American Forests. The first 25 plots of data should be submitted to

the third-party inspector and to American Forests as soon as completed. Thereafter, an inspection schedule agreed upon at the prework conference will be followed.

APPENDICES

Appendix I, Exhibit A: Regeneration Unit Cover Sheet (Template)

Regeneration Exams Cover Sheet

Date:	Crew Members Initials:	Plot Size: 1/50th acre
Unit ID #:	Unit Acres:	Number of Plots:
TOTAL TPA:		
Comments:		
Map: Indicate nonplantable, natural regeneration, etc.		

Appendix I, Exhibit B: Plot Data Collection Sheet (Template)

Plot Data Collection Sheet																				
Fire Scar:				Crew Member Initials:							Date:							Residual Seed Trees	Shrub Cover (%) 0-25, 25-50, 50-75, 75-100	Other observations / environmental issues
Unit ID #:				Trees 6 in - 4.5 ft in height							Trees 4.5 ft or greater in height									
Plot #	Aspect	Slope %	Lat and Long	PIJE	PILA	ABMA	ABCO	SEGI	CADE	Oak	PIJE	PILA	ABMA	ABCO	SEGI	CADE	Oak			

SPECIES KEY		
Common Name	**USDA Symbol**	**Scientific Name**
Jeffery Pine	PIJE	Pinus jeffreyi
Sugar Pine	PILA	Pinus lambertiana
Red Fir	ABMA	Abies magnifica
White Fir	ABCO	Abies concolor
Giant Sequoia	SEGI	Sequioadendron giganteum
Incense Cedar	CADE	Calcodedrus decurrens
Oak	Count by the root crown (not individual sprouts)	