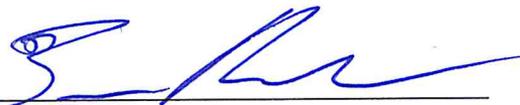


**TIMBER SALE REPORT AND APPRAISAL**  
**LUCKY JACK TIMBER SALE**  
Sale Number - 13501

**REGION TWO**  
**SAN JUAN NATIONAL FOREST (13)**  
**MANCOS-DOLORES RANGER DISTRICT (05)**

Prepared by:   
David Casey – Supervisory Forester

Date: 06-10-16

Recommended by:   
Travis Bruch TMO

Date: 6-10-16

This sale complies with section 6 (g) (3) (E)-(F) of the National Forest Management Act of 1976, 36 CFR 223.1, the San Juan National Forest Land and Resource Management Plan approved 09/29/83, amended 05/12/92, and the Decision Notice for the Rock Springs Fuels Reduction and Forest Health Restoration Project dated 12/14/2010.

Approved by:   
Derek J. Padilla - District Ranger

Date: 6/27/2016

## SUMMARY OF RECOMMENDATIONS

Contract Type: 2400-6T Specified Road Cost: N/A  
 Sale Volume: 1,047 CCF Road Completion Date: N/A  
 Method Of Sale: Sealed Bid, 30-day ad Sale Termination Date: March 31, 2019  
 Normal Operating Season: June 15th to October 31<sup>st</sup> Method of Measurement: Premeasured  
 Deficit Sale: YES Bid Guarantee: \$ 300  
 Minimum Performance Bond: \$ 3,900 Operations Fire Liability: \$2,600  
 Rate Adjustment: 100% up/down

### Advertised Minimum Bid Rates:

SPECIES – PRODUCT	ADVERTISED RATE
Live Ponderosa Pine Sawtimber	\$ 3.00
Live Ponderosa Pine Non-Saw	\$ 1.00
<b>Total Appraised Advertised Value</b>	<b>\$ 2,969.00</b>

### Summary and Location

This Lucky Jack Timber Sale Contract is part of the larger Rock Springs Fuels Reduction and Forest Health Restoration Project area. This project was developed under the Healthy Forest Restoration Act of 2003 to reduce the risk of high severity wildland fire and restore or maintain healthy, diverse, fire adapted ecosystems on several thousand acres of ponderosa pine/Gambel oak forests. As part of this project, commercial timber sale and/or stewardship contracts were planned to treat approximately 1,200 acres. Poor market conditions for ponderosa pine have hindered efforts to implement this aspect of the project, but this contract is designed to harvest and regenerate one unit of about 66 acres in an economically viable way. The unit will be treated using an uneven-aged individual tree selection prescription with conventional ground-based mechanized logging systems.

The Lucky Jack Timber Sale is located on the Mancos-Dolores Ranger District, San Juan National Forest. The sale is approximately 9 miles northeast of Dolores, CO. The primary access route to the Sale is north from Highway 184 on County Road S (Rock Springs Road) and Forest Service roads 556 and 556.G. The gross sale area is an estimated 244 acres.

Legal Description: Portions of Sections 30 & 31, Township 38 North, Range 13 West, New Mexico Principal Meridian, Montezuma County, CO.

## **Decision Notice Summary**

The District Ranger approved the Decision Notice and Finding of No Significant Impact for the Rock Springs Fuels Reduction and Forest Health Restoration Project on December 14, 2010.

The decision as stated in the Decision Notice is:

“...to implement the proposed action as described in the EA. The design criteria and monitoring actions described in the EA will also be carried out as part of this decision.”

- “Approximately 1200 acres of ponderosa pine will be harvested through commercial timber sales. A Multi-cohort prescription using ITS (Individual tree selection) a Restoration prescription or small group selection prescription depending on individual stand dynamics will be implemented on 10 units totalling about 800 ac. A Shelterwood prescription will be used on 2 units, which have had small openings created previously and shown a propensity for regeneration on about 460 ac.”

## **Required Mitigation Measures & Design Criteria for Lucky Jack Timber Sale**

The following conditions will be included in the Timber Sale Contract in order to implement the design criteria detailed in the Rock Springs Fuels Reduction and Forest Health Restoration Project Environmental Assessment as well as Forest Plan Standards and Forest Service Timber Sale policy.

### **Timber Harvest /Bio-mass**

In timbered stands where a multi-cohort prescription would be used, retain approximately 45-60 sq. ft/ac basal area and maintain stands at approximately 20 -35% of maximum SDI. Maintain large trees in the stands by allocating at least 30% of the growing space to trees 16” DBH and greater where a multi-cohort prescription is used.

- o *These parameters were incorporated into the stand specific silvicultural prescription which is available in the district pre-sale folder.*

Restrict hydro-mowing and timber harvest activities during periods of spring snowmelt and periods of heavy rain when soils are too wet. Soils are too wet when vehicle ruts exceed 4 inches depth for 10 feet or more.

- o *Equipment shall not be operated when ground conditions are such that excessive damage will result. (reference BT6.6 - Erosion Prevention & Control)*
- o *All hauling and operations will be restricted annually from February 15<sup>th</sup> thru April 30<sup>th</sup> to prevent soil damage during periods of soil saturation associated with seasonal snowmelt/thawing.(reference CT5.12# - Use of Roads by Purchaser; CT6.312# - Sale Operations Restrictions)*

Temporary roads used or created by the timber sale contractor must scarified or ripped, re-seeded (native mix from ecologist), covered with debris, and effectively blocked after treatment. Intermittent streams would be buffered 50 feet both sides of the stream channel from operation of heavy equipment.

- *Purchaser is required to obliterate and/or close all temporary roads, skid trails and landings per our specifications. Purchaser is required to seed bare areas such as skid trails, landings and temporary roads using a specified native seed mixture. (reference CT5.34# - Obliteration of Temporary Roads, Skid Trails & Landings; CT6.601# - Erosion Control Seeding)*

Springs/wetlands/stock ponds would be buffered 100 feet from mechanized equipment. This includes mapped and unmapped sites.

- *The pond in the south end of the unit was avoided during cutting unit layout.*

### **Wildlife Habitat**

Considerations for wildlife and visuals will include Abert's squirrel nest tree clumps designated at one clump per 6 acres and a turkey roost tree clumps at 1 per 20 acres. An Abert's squirrel tree clump is defined as a group of 6-12 ponderosa pine trees (9-22"DBH) with interlocking canopies on about 1/10 ac with a minimum of 1-2 trees 16"DBH trees in that group. Basal area should average 160-220 sq ft/ac. A turkey roost tree clump is similar to the above squirrel clump but would have a minimum of 6 16" DBH pine trees on at least 1/10 ac.

- *These measures were included in the marking guides and squirrel/turkey clumps were marked as prescribed above and a count was tallied. Documentation of the number of clumps marked by unit is included on the marking guide inspection sheet, which is available in the district pre-sale folder.*

Northern Leopard Frog: Riparian vegetation around stock ponds near will be protected by preventing vegetation disturbance from project activities within 50 feet of the high-water mark of the pond.

- *The pond in the south end of the unit was avoided during cutting unit layout.*

Goshawk Nests: Protections would be provided to nesting raptors as per Forest Plan direction to protect nest sites and nesting birds. A wildlife biologist will assess the need for buffers and timing restrictions over the life of the timber sale based on the silvicultural prescription and long-term management of the stand. Many raptors are known to use complexes of nest sites within a nesting territory. Timing restrictions may or may not be required from year-to-year based on current occupation of the nest territory.

- *Pre-sale personnel are trained in Goshawk ID. No goshawks or nests were discovered in pre-sale activities. In the event that sites are discovered after sale award, the Contracting Officer may interrupt the Purchaser's operations. (reference BT6.24 - Protection Measures Needed for Plants, Animals, Cultural Resources, and Cave Resources)*

Snags: Protect all snags (>12" Dbh and >15 feet height) per Forest Plan direction (current direction is two per acre). If these snag densities do not exist prior to treatment, green snag recruits should be reserved for future snags. These green snag recruits may have broken/dead tops, loose bark existing cavities or lightning scars.

- *All snags ≥12 "DBH and ≥15 ft high and appropriate snag recruits were marked as wildlife trees with a white "W" and a stump mark. These snags as well as green snag recruits will be protected as "reserve" trees in the timber sale contract. Snags were tallied and the tallies are located on the marking inspection form, located in the district pre-sale folder. (reference CT2.3# - Reserve Trees and CT6.32# - Protection of Reserve Trees)*

### **Rangeland Resources**

All range improvements would be protected during harvest. Loggers would be required to keep fences in good repair during operations. Wherever possible, the purchaser should use existing gates for access to cutting areas. No fences are to be cut unless absolutely necessary and agreed to in writing by the Forest Service. In most cases where fences lie within cutting units, design skidding patterns to be parallel to fence lines, to pull timber away from fences, or to go through existing gates. In the event temporary roads and skid trails are needed to cross fences at other than existing gate locations, these breach points must be double H-braced on each side of the cut and closed with wire or a gate. Any fences damaged by loggers would be the responsibility of the timber purchaser to repair immediately.

- *Purchaser is required to protect and/or repair all improvements. Fences shall not be cut unless the fence has been properly braced to prevent loss of tension. (reference BT6.22 - Protection of Improvements; CT6.223 - Protection of Fences)*

### **Noxious Weeds**

All heavy equipment (including hydromowers) will be pressure washed at an offsite location prior to entering the project area. Pickup trucks and passenger vehicles are not subject to this requirement. If heavy equipment is removed from the project area, it will again be pressure washed at an offsite location prior to re-entering the project area. All units and areas of the sale area have KNOWN infestations of invasive weed species.

- *All off-road equipment will be required to be cleaned prior to moving onto the sale area. (reference BT6.35 Equipment Cleaning)*

Landings, staging areas, skid trails, decommissioned and closed roads, fire lines, and temporary trails will be seeded using a native species mix that contains no noxious weed seed and meets certified seed quality. The seed mix species will be approved by the Dolores Public Lands Office.

- *Purchaser is required to obliterate all temporary roads, skid trails and landings per our specifications. Purchaser is required to seed bare areas such as skid trails, landings and*

*temporary roads using a specified native seed mixture. (reference CT5.34# - Obliteration of Temporary Roads, Skid Trails & Landings; CT6.601# - Erosion Control Seeding)*

### **Cultural Resources**

Any 'Eligible' or 'Need Data' sites within the project area will be avoided by project activities. All cultural sites will be flagged with PINK flagging within the sale area if sites are located in the project area, however there are NO currently known sites at this time. If any additional cultural resources are discovered during project activities, activity at that location will cease immediately and the District Archaeologist will be notified. The discovery would then be recorded and assessed, and the appropriate mitigations and consultations would be completed. The decision on whether to continue implementation at that location would be based on this assessment and consultation.

- *In the event that sites are discovered after sale award, the Contracting Officer may interrupt the Purchaser's operations. (reference BT6.24 - Protection Measures Needed for Plants, Animals, Cultural Resources, and Cave Resources)*

### **Recreation/Visuals**

Winter logging may occur, providing that the purchaser leave a minimum of 2" snow on the major roadway (FSR 556, 558).

- *Purchaser is prohibited from removing snow all the way to the road surface. A minimum Two (2") inch snow depth must be left to protect the roadway when plowing. (reference CT5.36# - Snow Removal)*

### **Public Health/Safety**

During contract operations, all appropriate OSHA and other safety precautions would be taken to minimize risks to the public. Adherence to these precautions is a standard requirement in the contract for the successful bidder. In addition, the contractor would post warning signs on the road to alert the public.

- *The Purchaser has responsibility for compliance with safety requirements for Purchaser's employees. Purchaser is also required to furnish and maintain temporary traffic controls sufficient to warn of potentially hazardous conditions. (reference BT6.33 - Safety)*

## **CONDITIONS OF SALE**

### **Silvicultural Prescriptions:**

The silvicultural prescription and marking guide for this sale was prepared by Matt Rathbone, a certified Forest Service silviculturist. The signed prescription is included in the pre-sale folder. The selected management method for this stand is an uneven-aged individual tree selection system. The prescription was developed to meet objectives related to density management, fire behavior mitigation and timber production.

### **Marking and Volume Determination Summary:**

This sale implements one planned timber sale unit under the Rock Springs Fuels Reduction and Forest Health Restoration Project consisting of ±66 acres. The cutting unit was flagged with orange flagging, marked in Orange tracer paint, and GPS'd to determine the area. A detailed GPS acreage determination report is included in the presale folder and includes the specifications that were used to ensure the accuracy of the GPS data since this is used to determine the final sale volume.

The unit boundaries were marked with Orange tracer paint using procedures specified in the marking guide and R2 Timber Cruising Handbook. Paint used for this marking was **Orange Lot # W0347**. The included timber was designated with a "Leave Tree" (LTM) system. Leave trees within the unit were designated by using Orange tracer paint (Orange Type-A Lot # **W0347**) marks at or above eye level with one additional mark below stump height. Wildlife reserve trees were marked with a "W" using White tracer paint (White Type-D Lot #**T0823**). All marking was completed during the summer and fall of 2012. Merchantable volume was then plot cruised from the unmarked trees. The Lucky Jack Timber Sale Cruise Plan contains detailed information about the cruise design and implementation. Matt Rathbone, a certified cruise designer, prepared the plan. Kevin McAlpin, a qualified cruiser was the Responsible Cruiser for the sale. The sale was estimated to have a value less than \$5,000. Sampling error standards do not apply to sales of this value, however, the volume must still be determined in an economical and defensible manner (R2 Supp. FSH 2409.12, Section 41.1). To meet the requirements to produce a "defensible" cruise, the inventory for this sale was designed to meet a target Sale-as-a-Whole sampling error standard of less than 40.0% at the 95% confidence interval. The sampling error of the final cruise is 20.25%. A detailed cruise printout is included in the pre-sale folder.

### **Method of Measurement:**

The Lucky Jack Timber Sale Cruise Plan contains detailed information about the cruise design and implementation. Matt Rathbone, a certified cruise designer, prepared the plan. Kevin McAlpin, a qualified cruiser was the Responsible Cruiser for the sale. The sale was estimated to have a value less than \$5,000. Sampling error standards do not apply to sales of this value, however, the volume must still be determined in an economical and defensible manner (R2 Supp. FSH 2409.12, Section 41.1). To meet the requirements to produce a "defensible" cruise, the inventory for this sale was designed to meet a target Sale-as-a-Whole sampling error standard of less than 40.0% at the 95%

confidence interval. The sampling error of the final cruise is **20.25%**. A detailed cruise printout is included in the pre-sale folder.

### **Harvest Operations:**

All the sale units can be harvested with ground mechanized equipment. The area is well roaded so no new permanent roads will be built as part of the sale. The volume can be efficiently removed by using NFSR 556 and NFSR 556.G as well as several existing unauthorized roadbeds that traverse the area. The existing closed roadbeds and any new short spurs or temporary roads that are constructed will be treated as temporary roads in the contract and closed by the Purchaser after use. A detailed logging plan and map are included in the presale folder.

### **Regeneration:**

All the units will be prescribed burned after harvest to reduce the natural and created fuels, as well as to create conditions more favorable for the establishment of grass and pine seedling regeneration. The regeneration in the pine restoration units may be monitored after harvest and burning is completed, in order to determine if the objectives of the treatments were met. However, the harvest prescriptions for this sale do not create a reforestation need and any surveys would not be considered essential KV projects.

### **Associated Plans:**

Brush Disposal Treatment Plan (FS-2400-62) - This BD plan describes slash treatment obligations and costs incurred by the Forest Service. Deposits will be collected from the Purchaser to cover the Forest Service cost of burning the resulting slash piles.

Sale Area Improvement (K-V Collection) Plan (FS-2400-50) – describes improvement projects within the Sale Area that may be funded through timber sale receipts. In this sale, the projects to be completed with K-V funds are described in the Sale Area Improvement Plan Narrative Statement. Adequate K-V funding for all non-essential K-V work is unlikely due to the low value of ponderosa pine timber and these tasks may be supplemented with other funding if available.

Salvage Sale Fund Plan (FS-2400-51) – This sale was designed to harvest only live products, so no SSF Plan will be prepared and no stumpage receipts will be collected into the Forest Fund.

# TIMBER APPRAISAL

## Current Appraisal Base Data

<b>BULLETIN NO. BU230416 (effective May 2nd, 2016)</b>			
BASE DATA PERIOD: 2 <sup>nd</sup> QTR CY15 – 1 <sup>st</sup> QTR CY16			
APPRAISAL BASE PERIOD: 6-16			
BASE INDEX (per MBF) White Woods: 345.37			
BASE INDEX Adjusted to CCF: 141.78			
<b>BASE PRICE/COSTS</b>			
SPECIES:	PP Saw	PP Non-Saw	
<b>Adjusted Base Period Price ("Standard Rate<sup>1</sup>"):</b>	<b>3.00</b>	<b>1.00</b>	
Base Skid-Yard Cost	104.71	n/a	
Base Haul	84.06	n/a	
Base Road Maintenance	4.30	4.30	
Base Slash	1.36	1.36	
Base Temp Roads	2.39	2.39	

## Cruised Timber Volume Summary (CCF)

	Units	Sale Total or Avg.	PS (Sawlog)	PP (Non-Saw)
Gross Volume	CCF	<b>1189</b>	1097	92
Average Total Defect/Breakage	%	<b>11%</b>	13%	6%
Contract Volume(Net)	CCF	<b>1047</b>	961	86
% Net Volume By Species/Group	%	<b>100%</b>	92%	8%
Avg. Net Volume/Tree	CF	<b>16.2</b>	28.3	3.5
Avg. Net Volume/Acre	CCF	<b>18</b>	16.6	1.39
Net BF/CF Ratio	n/a		4.76	6.06
Quad Mean DBH/Species	Inch	<b>12.6</b>	15.1	7.4
Total Number of Trees	Trees	<b>6,463</b>	2,587	3,875

**APPRAISAL ADJUSTMENTS**

**Road Maintenance**

The basic unit cost rates used to calculate road maintenance are from the San Juan National Forest Road Maintenance and Temporary Road Cost Guide prepared by the forest engineering staff. These rates include applicable contractor overhead on both labor and equipment.

**Pre-Haul Maintenance** will be performed by the contractor on the following roads per contract provision CT5.31# specifications. It is assumed these maintenance items will be performed once, before hauling is begun.

<b>Level II Roads:</b>				
NFSR 556.G (Rock Springs – G Spur)	Ditch Cleaning(T802), Surface Blading(T803), Drainage Structures(T805), Roadway Vegetation(T807)	\$ 635/mile	0.8 miles	\$ 508
<b>Level III Roads:</b>				
NFSR 556 (Rock Springs Road)	Ditch Cleaning(T802), Surface Blading(T803), Drainage Structures(T805), & Misc. Structures (T808)	\$ 900/mile	4.5 miles	\$ 4,050
Total Pre-Haul Maintenance:			5.3 miles	\$ 4,558

**During Haul Maintenance** will be performed by the contractor on the following roads per contract provision CT5.31# specifications. For appraisal purposes, it is assumed these annual maintenance items will be performed during just **one** season of active hauling.

<b>Level II Roads:</b>				
NFSR 556.G (Rock Springs – G Spur)	Ditch Cleaning(T802), Surface Blading(T803), Drainage Structures(T805)	\$ 490/mile	0.8 miles	\$ 392
<b>Level III Roads:</b>				
NFSR 556 (Rock Springs Road)	Ditch Cleaning(T802), Surface Blading(T803), Drainage Structures(T805), & Misc. Structures (T808)	\$ 490/mile	4.5 miles	\$ 2,205
Total During-Haul Maintenance:			5.3 miles	\$ 2,597

**Post Haul Maintenance** will be performed by the contractor on the following roads per contract provision CT5.31# specifications. It is assumed these maintenance items will be performed once, after hauling is completed.

<b>Level II Roads:</b>				
NFSR 556.G (Rock Springs – G Spur)	Ditch Cleaning(T802), Surface Blading(T803), Drainage Structures(T805), Roadway Vegetation(T807)	\$ 490/mile	0.8 miles	\$ 392

<b>Level III Roads:</b>				
556 (Lucky Jack Springs Road)	Ditch Cleaning(T802), Surface Blading(T803), Drainage Structures(T805), & Misc. Structures (T808)	\$ 490/mile	4.5 miles	\$ 2,205
Total Post-Haul Maintenance:			5.3 miles	\$ 2,597

**Total Contractor Maintenance Cost: \$4,558 + \$2,597 + \$2,597 = \$9,752 (\$9.31/CCF)**

**Surface Rock Replacement Deposits**

*FOREST PRIMARY TIMBER SALE HAUL ROADS WITH AGGREGATE SURFACE*

(a) Road Number	(b) Road Length (Miles)	(c) Base Rate/CCF/mile	(d) Rate/CCF/mile w/ F.S. OH @ 26%	(e) Deposit Rate/CCF	(f) Segment CCF	(g) Total Deposit per Segment
FSR 556 (mp 6.5 - 11.0)	4.5	0.3	0.378	1.701	1,047	\$1,780.95
		0.3	0.378	0.000		\$0.00
			0.000	0.000		\$0.00
			0.000	0.000		\$0.00
			0.000	0.000		\$0.00
<b>TOTAL LUCKY JACK TIMBER SALE</b>						<b>\$1,780.95</b>
<b>COST PER CCF (1047 CCF)</b>						<b>\$1.70</b>

**Maintenance Summary:**

	<b>Total Cost</b>	<b>Volume</b>	<b>\$/CCF</b>
Purchaser Required Performance	\$ 9,752.00	1,047 ccf	\$ 9.31
Surface Rock Replacement Deposits	\$ 1,780.95	1,047 ccf	\$ 1.70
<b>TOTAL ROAD MAINTENANCE COST</b>	<b>\$ 11,532.95</b>	<b>1,047 ccf</b>	<b>\$ 11.01</b>

## Temporary Roads Construction & Decommissioning

Temporary road costs include clearing & grubbing if applicable, excavation, obliteration, seeding and mobilization costs. The basic unit cost rates used to calculate road maintenance are from the San Juan National Forest Road Maintenance and Temporary Road Cost Guide prepared by the forest engineering staff. These rates include applicable contractor overhead on both labor and equipment. See the Temporary Road Cost Estimate spreadsheet for additional details.

Temporary Road	Miles	Access Unit	Cost per Per Mile	Cost per Per Road
New Construction Temp Roads	--		--	--
Existing Non-system Roads	0.9	1	\$ 4,786	\$ 4,307
<b>TOTAL MILES:</b>	<b>0.9</b>			
		TOTAL TEMP ROADS:		\$ 4,307
		PROJECT MOVE IN:		\$ 932
		TOTAL TEMP ROAD COST:		\$ 5,239
		TOTAL COST PER CCF (1047 ccf):		<b>\$5.00/ccf</b>

## Haul Costs

### Sawtimber Haul Table to Montrose, CO

HAUL ROAD	CLASS	GRADE	MILES	MIN./ MI.	ADJ. FACTOR	% VOLUME	ROUND TRIP MIN.
FSR 556.G to FSR 556	5C3	0	0.8	6.5		100%	5
FSR 556 to Intersection w/ Forest Boundary	3C2	-3%	4.5	5.8	--	100%	26
Cty. Rd. S to HWY 184	3C2	-4%	6.5	5.8	--	100%	38
CO HWY 184 to HWY. 145	2C1	-1%	3.5	4.2	--	100%	15
CO HWY 145 to Rico, CO	2C1	+3%	38	4.5	--	100%	171
CO HWY 145 to Lizard Head Pass	2C1	+4%	9.9	5.0	--	100%	50
CO HWY 145 to CO Hwy 62	2C1	-4%	24.4	4.2	--	100%	102



Inflated to 2017 =  $\$660 * 1.02 = \$673.20$

National Collection Rate (Program Support) =  $\$673.20 * 1.41 = \$949.21$   
or,  $\approx \$0.91/CCF$

## **Purchaser Performance Items**

### **Erosion Control Work**

CT6.601# *Erosion Control Seeding* will require the contractor to seed exposed areas of raw soil on landings and temporary roads. Costs for temporary road decommissioning is included in the Temporary Road costs section. This section will estimate the cost of seeding landings.

Number of landings needed is estimated on the Logging Plan Map at 7. The disturbed area of a landing is approximately 1/3 acres.

(7 Landings x 0.33 acres/landing = 2.31 acres or approximately 2 acres)

Per the R2-3-4 Road Construction Cost Guide, the cost for erosion control seeding & fertilizing is approximately \$360/acre with a 40% labor percentage. The reduction for Davis-Bacon wages would be:  $\$360 - (\$360 * .40 * .25) = \$324/acre$ .

This rate is further reduced by approximately 1/3 because fertilization will not be required:  
 $\$324/acre * (2/3) = \$217/acre$

$\$217/acre * 2 acres = \$434.00$  or  $\$434/1047 CCF = \$0.41/CCF$

## **Unusual Adjustments**

Unusual adjustments are sale adjustments made necessary for cost or value items that are not reflected in the appraisal database. (FSH 2409.22, 51.6)

### **A. Sorting and Handling Adjustment:**

Non-saw size material (5.0"-9.9") represents approximately 8% of the volume in the sale and is distributed evenly throughout the cutting unit. FSH 2409.22, sec. 51.6 provides guidance regarding development of a sorting and handling adjustment. An adjustment factor of 5% will be applied to the average Load Cost.

The average loading cost from 2409.22, sec. 42 of  $\$5.43/CCF$

This loading cost is considered to be increased by a 5% adjustment factor: which =  $\$ 0.27/CCF$

**B. Hauling Fuel Cost Adjustment:**

Per Region 2 Appraisal Bulletin effective October 30, 2015 (Bulletin #BU231015), no special appraisal adjustment representing the increased cost of fuel required for log hauling will be developed.

**C. Logging Fuel Cost Adjustment:**

Per Region 2 Appraisal Bulletin effective October 30, 2015 (Bulletin #BU231015), no special appraisal adjustment representing the increased cost of fuel used in ground based logging systems will be developed.

**Summary of Unusual/Other Adjustments (per CCF)**

	<b>Pond. Pine</b>	
Erosion Control Seeding	\$ 0.41	
Sorting & Handling	\$ 0.27	
Hauling Fuel Cost	\$ 0.00	
Logging Fuel Cost	\$ 0.00	
<b>TOTAL:</b>	<b>\$ 0.68</b>	

**Purchaser Liability Limit per Operations Fire** (reference AT14 & BT7.41)

Firefighter Type 2 (crewmember)

AD-C Wage rate (FSH id5109.34-2012) = \$17.40/hr.

Estimated number of persons needed to operate the sale = 4

\$17.40/hr. x 12hr. day x 4 persons x 3 days = \$ 2,505.60

Rounded up to **\$2,600**

**Performance Bond**

The minimum Performance Bond for this sale shall be the greater of either the estimated performance bond amount based on the appraised value or the calculated cost of the estimated work required assuming the Purchaser quit operations before completing the entire sale.

The estimated Performance Bond Amount Is:

Appraised Value = \$2969 x 0.1 = \$ 296 (rounded up to \$ 300.00)

The minimum Performance Bond amount for this sale will be **\$300.00**

**Bid Guarantee**

The minimum bid guarantee shall not be less \$500 or 10% of the advertised value of the timber required to be removed (FSH 2409.18, Sec. 56.31).

**= \$ 400 Bid Guarantee**