2450
NORTHERN REGION - R-1
FOREST = 14 - Kootenai * DISTRICT 01 - Rexford *
Expiration Date = April 1, 2014
V13.2

# TIMBER SALE AND TRANSACTION EVIDENCE APPRAISAL REPORT

Little Lookout
(SALE NAME)

**Select Contract Type**

TIM # 13103

TYPE 6 - Contract Form 2400-6 UOM TON

Prepared by (Signature) (Date)

Prepared by (Signature) (Date)

Approved by (Signature) (Date)

Reviewed by (Signature) (Date)

All attached documents and specifications for this timber sale have been completed in accordance with regulations at 36 CFR, Part 223, Subpart B, and the applicable Forest Service Manual and Handbook requirements and standards related to timber sales. Furthermore, the environmental documentation and NEPA decision have been reviewed; no significant new information or changed circumstances relating to the environmental impacts of this proposed action exist that require a correction, supplement, or revision to the documentation or decision; and implementation (advertisement) should continue.

Certification Reports for Gates 3 and 4 from TIM are attached to this timber sale report.

Timber Sale Final Package Approved By: (Date)

## TIMBER SALE INFORMATION

**TIM, Gate 3, Create Timber Sale (Prep101)**

**Sale Area Description:**

Primary County Name (FIPS Code): 053 - Lincoln *

Sale Area Legal Description (short T & R): T33N, R30W, PMM

Sale Area Legal Description (long):

Portions of Sections 19, 34, 35, T34N, R30W, and Portions of Sections 2,3,4, T33N, R30W Lincoln County, State of Montana, PMM

***The format that the description is entered here and inputted to TIM is exactly the way it will print out in the Contract, Ad and prospectus at Gate 4.***

Compartment (s): 33

**Environmental Documentation:**

Project Association: List NEPA Project(s) that approved the timber sale.

| NEPA Document Name | Percentage of Sale Volume (CCF) |
|---|---|
| Lower Big | 100 |
| | |
| | |
| | |

***The above NEPA Document(s) shall be included in the Prospectus, General Narrative, TIM Gate 4 - Prospectus (ADVR115). Include the following statement in the Prospectus: The environmental document(s) that approved this sale:_____***

Briefly describe additions or changes made to project design during timber sale preparation.

Dropped unit 108 long road work, part old growth, not economical. Swapped a portion of 54 with adjecent area because of Old growth concerns. Went to top of ridge on unit 17 to facilitate better underburning.

## TSPIRS INFORMATION, SALE OBJECTIVES

**TIM, Gate 3, Create Timber Sale (Prep101)**

| Purpose **(TIM -PREP101)** | | Activity | | % of Sale Volume - **CCF (TIM - PREP101)** |
|---|---|---|---|---|
| TC - Timber Commodity Purpose | * | 01 - Timber Purpose | * | 100 |
| | * | | * | |
| | * | | * | |

### KOOTENAI SALE PURPOSE CODING INSTRUCTIONS

www.fs.fed.us/im/directives/fsh/2409.18/2409.18_20.doc

| Management Areas | Sale Purpose Code | Type of sale |
|---|---|---|
| All suitable MA's (MA 11,12,14,15,16,17) | TC/01 | All sawtimber, non-sawtimber and fuelwood sales on all contract forms including permits. |
| Non suitable MA's | FS/___ | All sawtimber sales, select the most appropriate activity based on documented sale purpose. |

***In the absence of documented sale purpose reasons for nonsuitable MA'S, the following codes, based on stated goals and objectives in the Forest Plan, will be used.***

| | | |
|---|---|---|
| MA 3, 5, 19 | FS/10 | General salvage |
| MA 6 | FS/20 | Hazard tree removal |
| MA 10 | FS/30 | Wildlife Habitat Improvement |
| MA 18 | FS/90 | Test Regen Techniques |

**Percentage:** The percentage distribution will be 100% EXCEPT when an individual sale includes a mix of suitable and nonsuitable MA's. In this circumstance, the percentage split between TC and FS coding will be based on the sawtimber volume in the MA's. DO NOT distribute the percentage for nonchargeable product volume that may be included on sawtimber sales in suitable MA's. Code these as 100% TC/01.

| | | |
|---|---|---|
| Convertible product permits and non timber commercial sale contracts or permits. | FS/70/100% | Commercial sale of post, poles, Christmas trees, mushrooms, etc. |
| Firewood or Christmas Permits | PP/80/100% | Intent is personal use. |

## SALVAGE SALE FUND INFORMATION

**TIM, Gate 4, Salvage Sale Fund Plan (ADVR112)**
*Reference to FSH 2409.19 - 71.12 - for assitance with SSF collections*
https://fs.usda.gov/FSI_Directives/wo_2409.19_70.doc

**SSF Silviculture Treatment Type (Pick one)**

Salvage Component with Sanitation, Stand Improvement, or Regeneration *
(Use for all other sales - stand(s) that include a salvage component)

**SSF Volume (CCF):** **1964** **23%** **% of total volume**

## FUNDING SOURCE

Funding Source (button on tool bar) - From STAT102

Sale Preparation Funding Source ---SSSS **(Salvage Fund) %** **0%**

*(Contact SO for percentage to enter into Funding Source form. Funding Source percentage must be equal to or less than* % of salvage in the SSF Plan.)

## CRUISE INFORMATION

CRUISE: # 1303

Date of Cruise 6/28/2013

Cruisers: Ira Lehman
Pamela Cooper

Method: PNT

SE%: 19.54

CHECK CRUISE:

Date of Check: Jul-13

Cruisers: John Craig

Results: Passed

Method of determining ROW volume:

Basis for Percent Defect:

## TOTAL CF VOLUME BY UNIT --- NCS REPORT

ROW units need to be entered last

| Unit # | Acres | Sawtimber | CCF | Non-Saw | CCF |
|---|---|---|---|---|---|
| 17 | 27 | 49402 | **494** | 45810 | **458** |
| 21 | 44 | 55104 | **551** | 66134 | **661** |
| 50 | 35 | 64040 | **640** | 59383 | **594** |
| 52 | 25 | 52278 | **523** | 42716 | **427** |
| 54 | 39 | 60411 | **604** | 57889 | **579** |
| 98 | 40 | 83645 | **836** | 68346 | **683** |
| 100 | 37 | 77371 | **774** | 63220 | **632** |
| | | 442251 | **Sawtimber** | 403498 | **Non-Saw** |
| **TOTAL SALE UNIT VOLUME (CCF)** | | | **4422** (Sheet 1) **4422** (Sheet 1&2) | | **4034** (Sheet 1) **4034** (Sheet 1&2) |

**NET MBF/CCF Ratio from NCS Report CS1**

**Sawtimber (Product 01)** 0.4972

**Non-Saw (Product 08)** 0.5935

## TOTAL SALE CF VOLUME BY SPECIES --- NCS REPORT (R101)

| Species | Saw | Rounded | %Defect | Av. DBH | Logs/Unit | NCS REPORT (UC5) Non-Saw | Rounded |
|---|---|---|---|---|---|---|---|
| AF | 92226 | **922** | 11 | 10 | 17.2 | 43366 | **434** |
| C | 2816 | **28** | 15 | 11.8 | 14.6 | 335 | **3** |
| DF | 37715 | **377** | 15 | 13.4 | 14 | 3996 | **40** |
| GF | | **0** | | | | | **0** |
| H | 1073 | **11** | 12 | 9.3 | 12.6 | 2442 | **24** |
| L | 41640 | **416** | 11 | 10.2 | 21.1 | 16080 | **161** |
| LP | 196345 | **1964** | 12 | 8.6 | 25.3 | 315409 | **3153** |
| PP | | **0** | | | | | **0** |
| S | 68041 | **680** | 11 | 10.1 | 16.4 | 21805 | **218** |
| WP | 2395 | **24** | 22 | 18.6 | 7.7 | 65 | **1** |
| | 442251 | | | | | 403498 | |
| **TOTAL VOLUME** | | **4422** CCF | | | | | **4034** CCF |

*ROUNDED VOLUME IS THE DIFERENCE BETWEEN UNIT VOLUME AND SPECIES VOLUME (AFTER ROUNDING TO CCF) ADDED TO THE SPECIES WITH THE LARGEST VOLUME*

| | | CUTTING UNIT DESCRIPTION (TIM GATE 3 - PREP 104) | | | | | | | VOLUME - DIRECT ENTRY (TIM GATE 3 - PREP 103) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Cruise | Appraisal | ROW | Logging | Harvest | Land Suit | | Unit Volume CCF | | Yield Component | |
| Unit # | P.U.# | Unit Acres | Unit Acres | Acres | Method | Method | Class | MA | Sawtimber | Non-Saw | CL | NL |
| ROW units need to be entered last | | | | | | | Enter KNF MAs Here | | | | | |
| 17 | | 27 | 27 | | 420 | 183 | 500 | 12 | 494 | 458 | 952 | |
| 21 | | 44 | 44 | | 420 | 220 | 500 | 12 | 551 | 661 | 1212 | |
| 50 | | 35 | 35 | | 420 | 183 | 500 | 12 | 640 | 594 | 1234 | |
| 52 | | 25 | 25 | | 420 | 183 | 500 | 12 | 523 | 427 | 950 | |
| 54 | | 39 | 39 | | 420 | 210 | 500 | 15 | 604 | 579 | 1183 | |
| 98 | | 40 | 40 | | 420 | 183 | 500 | 15 | 836 | 683 | 1519 | |
| 100 | | 37 | 37 | | 420 | 183 | 500 | 15 | 774 | 632 | 1406 | |
| Totals Sheet 1 | | 247 | 247 | 0 | | | | | 4422 | 4034 | 8456 | 0 |

Total Sale Area: 358 Sale Area Acres

Total Cutting Area: 247 Acres (Sheet 1)

Total Sawtimber (Sheet 1) 4422 CCF

Total Saw + Non-Saw (Sheet 1) 8456 CCF

APPRAISAL CCF TO TON WORKSHEET

## SAWTIMBER - CCF

| Species | Defect % | Net Volume | Total Additional | Total Net | Tons Per CCF | Total Tons |
|---|---|---|---|---|---|---|
| AF | 11 | 922 | 0 | 922 | 2.4735 | 2281 |
| C | 15 | 28 | 0 | 28 | 2.3540 | 66 |
| DF | 15 | 377 | 0 | 377 | 3.0160 | 1137 |
| GF | 0 | 0 | 0 | 0 | 3.1275 | 0 |
| H | 12 | 11 | 0 | 11 | 3.2425 | 36 |
| L | 11 | 416 | 0 | 416 | 3.1935 | 1328 |
| LP | 12 | 1964 | 0 | 1964 | 3.0210 | 5933 |
| PP | 0 | 0 | 0 | 0 | 3.2230 | 0 |
| S | 11 | 680 | 0 | 680 | 2.7040 | 1839 |
| WP | 22 | 24 | 0 | 24 | 3.2230 | 77 |
| TOTAL = | 12 | 4422 | 0 | 4422 | | 12697 |

Net MBF/CCF Ratio For Sawtimber From NCS Report CS1: 0.4972

| | TIM Conversion | Prep 105 Factors |
|---|---|---|
| | MBF | CCF |
| = | 0.1732 | 0.3483 |

## NON-SAWTIMBER - CCF

| Species | | Net Volume | Additional Non-Saw | Total Net | Tons Per CCF | Total Tons |
|---|---|---|---|---|---|---|
| AF | | 434 | | 434 | 2.3340 | 1013 |
| C | | 3 | | 3 | 2.1400 | 6 |
| DF | | 40 | | 40 | 2.7885 | 112 |
| GF | | 0 | | 0 | 2.9470 | 0 |
| H | | 24 | | 24 | 3.0590 | 73 |
| L | | 161 | | 161 | 3.0785 | 496 |
| LP | 26% %Dead | 3153 | | 3153 | 2.7649 | 8718 |
| PP | | 0 | | 0 | 3.1510 | 0 |
| S | | 218 | | 218 | 2.6330 | 574 |
| WP | | 1 | | 1 | 3.1500 | 3 |
| TOTAL = | | 4034 | 0 | 4034 | | 10995 |

Net MBF/CCF Ratio For Non-Sawtimber From NCS Report CS1: 0.5935

| | TIM Conversion | Prep 105 Factors |
|---|---|---|
| | MBF | CCF |
| = | 0.2178 | 0.3669 |

| TOTALS = | Gross | Net | Tons |
|---|---|---|---|
| | 0 | 8456 | 23692 |

### APPRAISAL SUMMARY

| | |
|---|---|
| CONTRACT VOLUME (CCF) | 8456 |
| APPRAISAL VOLUME (CCF) | 4422 |
| CONTRACT VOLUME (TONS) | 23692 (Note: Total Tons to be used for Rd. Maintenance Appr.) |
| WTD TONS/CCF | 2.80 |

**ASSIGN CONTRACT SPECIES**
TIM Gate 3 - Prep 105

**Contract Species Association**

Contract species shall be grouped to reflect differences in utilization and/or how species shall be grouped in A(T) 2 of the Timber Sale Contract.

All Non-sawtimber shall be grouped as Combined Softwood (CS) under Contract Species

**UTILIZATION STANDARDS**
TIM Gate 4 - Contract Prep Information ADVR114

Fill out Minimum Specifications below to reflect how sawtimber & non-sawtimber were cruised.

From the list below select the description of non-sawtimber products that reflect how the products were cruised and input in NCS.
The description below is to be included in A(T)2 of timber sale. (Refer to non-sawtimber appraisal guide for more details & instructions).

| | Contract Species (Major Species Group) | Full Name for Contract | Conversion Factors (only applicable to weight scale sales) (Enter from Species Volume Summary) MBF | CCF | Minimum Specifications DBH | Number of Pieces | Length | DIB | Merch. Factor |
|---|---|---|---|---|---|---|---|---|---|
| x | Live and Dead | ole Pine and other | 0.1732 | 0.3483 | 7 | 1 | 8.0 | 5.6 | 10.67 |
| | | | | | | | | | |
| | | | | | | | | | |
| ☑ | CS | Live and Dead | 0.2178 | 0.3669 | 4 | 1 | 8.0 | 2.5 | N/A |
| ☐ | C14 | Cedar Products - Net Merch. Factor - Refer to C(T)6.804# | | | | | | | |

**Select Non-Sawtimber Products description from the following:**

x Non-Sawtimber products include (C(T)2.2): Primary product includes all trees 4.0" to 6.9" DBH (less than minimum Sawtimber specifications shown in A(T)2); secondary product include tops of Sawtimber trees less than diameter inside bark at small end shown in A(T)2;and all trees not meeting minimum Sawtimber specifications but containing at least 50% pulpable woodfiber in terms of gross cubic volume. (C(T)6.801)

☐ Non-Sawtimber products include (C(T)2.2): secondary product which are the tops of Sawtimber trees less than diameter inside bark small end shown in A(T)2; and any portion of a Sawtimber tree not meeting minimum Sawtimber specifications shown in A(T)2 but containing at least 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).

☐ Non-Sawtimber products include (C(T)2.2): secondary product which is the top portion of Sawtimber trees less than diameter inside bark small end shown in A(T)2 and containing at least 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).

☐ Non-Sawtimber products include (C(T)2.2): Primary product includes all trees X.X" to 6.9" DBH (less than minimum Sawtimber specifications shown in A(T)2) and secondary product which are tops of Sawtimber trees less than diameter inside bark at small end shown in A(T)2 and containing at least 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).

☐ Non-Sawtimber products include (C(T)2.2): Primary product includes all trees X.X" to 6.9" DBH (less than minimum Sawtimber specifications shown in A(T)2) and containing at lest 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).

## AVERAGE EXTERNAL YARDING DISTANCE

| Unit # | Volume CCF | AEYD Feet | | % Slope |
|---|---|---|---|---|
| 17 | 494 | 700 | To Calculate % Slope | 28% |
| 21 | 551 | 600 | | 10% |
| 50 | 640 | 600 | Top Elevation | 32% |
| 52 | 523 | 750 | | 23% |
| 54 | 604 | 800 | | 16% |
| 98 | 836 | 1000 | Bottom Elevation | 24% |
| 100 | 774 | 700 | | 26% |
| | | | EYD Distance (ft) | |
| | | | % Slope = | |
| | | | #DIV/0! | |

| Tractor | | | Forwarder | | | Helicopter | | | Ground Lead | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 420 | 4422 | VOL | 492 | 0 | VOL | 480 | 0 | VOL | 450 | 0 | VOL |
| | 770 | AVE EYD | | 0 | AVE EYD | | 0 | AVE EYD | | 0 | AVE EYD |

| Skyline | | |
|---|---|---|
| 430 | 0 | VOL |
| | 0 | AVE EYD |

## AVERAGE EXTERNAL YARDING DISTANCE

| Unit # | Volume CCF | AEYD Feet | | % Slope |
|---|---|---|---|---|
| | | | To Calculate % Slope | |
| | | | Top Elevation | |
| | | | Bottom Elevation | |
| | | | EYD Distance (ft) | |
| | | | % Slope = | |
| | | | #DIV/0! | |

# HAUL

**Appraisal Point:** Moyie Springs **State** Idaho

**Total Sawtimber Tributary Volume:** 4,422

*(The appraisal point is most advantageous when total transportation cost, including road work, are less than other appraisal points. Appraise to a mill where timber product can be processed. SBA Set Aside Sales are appraised the same way; not to the nearest SBA mill)*

***(Haul Appraisal for Sawtimber only. Non-Sawtimber included in Non-Sawtimber Adjustments)***

## WTD HAUL MILES

**WTD Haul Note**

| Segment | Units | | | | | | | | | | | | | | | Segment Miles Paved | Segment Miles Unpaved | Sawtimber Trib Vol | WTD MILES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E. Rooseve | ALL | | | | | | | | | | | | | | | 0.5 | | 4422 | 0.50 |
| HWY 2 | ALL | | | | | | | | | | | | | | | 43 | | 4422 | 43.00 |
| MT 37 | ALL | | | | | | | | | | | | | | | 1 | | 4422 | 1.00 |
| Pipe Creek | ALL | | | | | | | | | | | | | | | 19 | | 4422 | 19.00 |
| 112 | ALL | | | | | | | | | | | | | | | | 11 | 4422 | 11.00 |
| 336 | ALL | | | | | | | | | | | | | | | | 2 | 4422 | 2.00 |
| 753 | 17 | 50 | 52 | 98 | 100 | 54 | | | | | | | | | | | 1 | 3871 | 0.88 |
| 255 | 17 | 50 | 52 | 98 | 100 | 54 | | | | | | | | | | | 7 | 3871 | 6.13 |
| 7183 | 21 | | | | | | | | | | | | | | | | 2 | 551 | 0.25 |
| 254 | 50 | 52 | 54 | | | | | | | | | | | | | | 4 | 1767 | 1.60 |
| 3625 | 21 | | | | | | | | | | | | | | | | 0.75 | 551 | 0.09 |

**WTD Total Paved Miles** (Sheet 1) **63.5**

**WTD Total Unpaved Miles** (Sheet 1) **21.9**

**WDT Total Miles** (Sheet 1) **85.4**

## NON-SAWTIMBER ADJUSTMENTS

### DATA INPUT

| | | | |
|---|---|---|---|
| Delivered Log Price ($/Ton, Nonsawtimber material) | $31.81 | | |
| Total Nonsawtimber Volume (CCF) (Primary + Secondary) | 4,034 | | |
| Total Nonsawtimber Volume (Tons) (Primary + Secondary) | 10,995 | | |
| Tons / CCF for nonsawtimber material | 2.73 | **0.00** | Adjustment |
| Total Appraised Sawlog Volume (CCF) | 4,422 | | |
| Total One Way Weighted Haul Miles | 59 | **-26** | Adjustment |

| **Logging System** | **All Ground Based** | **All Cable** | **Forwarder** |
|---|---|---|---|
| Nonsawtimber Primary Product (CCF) | 3,214 | | |
| Net MBF / Acre Harvested for nonsawtimber primary product | 7.7 | 0.0 | *0* |
| Average DBH Harvested for nonsawtimber primary product | 5.5 | | |
| Average Yarding Distance (Feet) | 770 | 0 | *0* |
| Nonsawtimber Primary Product (Tons) | 8,760 | 0 | *0* |
| Net Tons / Acre Harvested for nonsawtimber primary product | 21.0 | 0.0 | 0.0 |

| **Nonsawtimber Adjustment** | |
|---|---|
| Final Nonsawtimber Value ($/CCF) A positive number is a negative value. | $0.00 |
| Final Nonsawtimber Adjustment to enter into TE appraisal program ($/CCF) | $0.00 |

## RIGHTS - OF - WAY

*(Include Cost share Agreements)*

| Road Name | Road # | Length | Type of Agreement | Agreement with (Names) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## ROAD MAINTENANCE

*(From Road Maintenance Appraisal Summary, sheets are attached)*

☐ Check Box to use Small Sale RM Rates.

☐ Check Box to use Small Sale RM Rates plus Koocanusa Bridge

### Contract Rates

| | $/CCF | $/TON | |
|---|---|---|---|
| **Total Performance Recurrent Maintenance (Part A)** | | | |
| **C(T)5.31 - Recurrent Maintenance** | $3.35 | $1.19 | |
| **C(T)5.312 - Reconditioning** | $0.12 | $0.04 | |
| **Total Performance (Part A)** | **$3.47** | **$1.23** | **( A )** |
| **Total Required Deposits (Recurrent and Deferred) (Part B)** (Enter appropriate rate in TIM - Gate 4 - Road Maint. Plan - ADVR105 | | | |
| **C(T)5.32# - Total Required Deposits (Part B)** | $6.77 | $2.41 | **( B )** |
| **C(T)5.314 - Total Dust Abatement (Part C)** | $5.71 | $2.04 | **( C )** |
| **TOTAL MAINTENANCE COST (Parts A-B-C)** | **$15.95** | **$5.68** | |

### Appraisal Rates

*(Entries for 2400 - 17)*

| | | |
|---|---|---|
| **Total Required Deposits** | $ $12.95 | **CCF** |
| **Total Road Maintenance Costs (Performance + Deposits)** | $ $30.50 | **CCF** |

***Refer to Road Maintenance Appraisal for Road Reconditioning cost per road segment.***
***(Attach worksheets with road costs)***

## LOGGING METHOD SUMMARY

| | Tractor | Ground Lead | Skyline | Aerial Heli | Forwarder | TOTAL |
|---|---|---|---|---|---|---|
| Acres | 247 | 0 | 0 | 0 | 0 | 247 |
| Volume | 4422 | 0 | 0 | 0 | 0 | 4422 |
| EYD | 770 | 0 | 0 | 0 | 0 | |

## IDENTIFY FACILITIES (ADVR102)

**Attach completed "IDENTIFY FACILITIES FORM"**
***J:\fsfiles\office\resources\Timber\Appraisal_Contract\Appraisal***

☑ Check Box if accomplishing road construction or re-construction work under timber sale.

**Appraisal information required for the 2400-17 report is to be summarized from the Identify Facilities**

### SPECIFIED ROAD COST

| | Miles | Total Cost |
|---|---|---|
| Construction | | |
| Reconstruction | 26.3 | $55,386 |

**Total Cost** $55,386 / 4422 CCF = $12.53 $ / CCF

## BASE RATE ADJUSTMENT FOR REGENERATION COST

**Total Required Regeneration Costs - FACTS Line 21 Remarks** **$74,356.00**
*(Subtotal for Required Reforestation with National Program Support Cost Included)*

**Note:** Base Rates may be raised for regeneration on only the Sawtimber component for green sales or % of Live Sawtimber on Salvage sales. In previously partial cut stands that are to be regenerated, protected regeneration cost shall be proportionate to remaining volume in the sale.

| | | | | | |
|---|---|---|---|---|---|
| Sale Volume ( ALL Vol./Products) _____CCF X $0.25 (NFF) | 8,456 | $0.25 | $2,114.00 | | |
| Select Either (a) or (b) | | | | | % Sawtimber |
| (A) Green Sale - Required Regen Cost $ 100% Sawtimber Vol. = | $74,356.00 | 100% | $74,356.00 | (d) | 52% |
| (B) Salvage Sales enter % Live Sawtimber Volume; Partial Cut Stands enter % Volume remaining. | | = | | | |
| | Total: | | $76,470.00 | (a) | |

| Species Groups | Volume (CCF) | Minimum Rates 1/ Per CCF | Minimum Rates 1/ Total | Base Rates 2/ Per CCF | Base Rates 2/ Total |
|---|---|---|---|---|---|
| WP, PP, C | 52 | $5.00 | $260.00 | $18.36 | $954.58 |
| All other species (list) | 4370 | $3.00 | $13,110.00 | $16.36 | $71,481.42 |
| Nonsawtimber (all species) | 4034 | $1.00 | $4,034.00 | $1.00 | $4,034.00 |
| TOTALS | 8456 | XXXXX | $17,404.00 (b) | XXXXX | $76,470.00 |
| Sawtimber (Appraisal) Volume | 4422 | | | | |
| | | Weighted Average Minimum Rate | | $3.02 | |

(a) - (b) = (c) amount need in addition to base rates (plus $.25/CCF) **$59,066.00** (c )

**Note: If minimum rate total (b) => (a) no adjustment needed** → **Adjust Base Rate**

**Adjustment To Minimum Rate:**
$_____ (c) / (Total Sawtimber Volume) CCF = $___/CCF

| | | |
|---|---|---|
| $59,066.00 | 4,422 | $13.36 |

**1/ Minimum rates: FSH 2409.22, Chp 80, Sect. 81**
***(Base rates for Sawtimber can be weighted if appraising and advertising as a single species group (DF,O))***

**2/ Minimum rate + adjustment = Base Rate**

**FACTS INFORMATION**
(Enter Sale Information - SAIP100)

Amount of Stumpage Availiable for Protected KV at Base Rates = **$74,356.00**
*( The only stumpage availiable for KV at advertised rates is when KV is protected by base rates)*

## BRUSH DISPOSAL

From FACTS - Detailed Listing of BD and Purchaser Slash Treatment Activities

**Appraisal Rates for 2400-17 (Applied to Sawtimber only)**

| | | | | |
|---|---|---|---|---|
| Forest Service Rate (Fund Code BDBD) | $57,174.00 | Total $ | (a) $12.93 | CCF |
| Purchaser Rate (Fund Code PPPP) | $41,791.00 | Total$ | (b) $9.45 | CCF |
| | | **TOTAL: (a) + (b) =** | $22.38 | CCF |

**Contract Rates (Applied to All Products)**

| | | |
|---|---|---|
| Forest Service Rate Per CCF (Fund Code BDBD) | $6.76 | CCF |
| (Rate Per CCF Converted to Tons for Weight Scale Contracts) | $2.41 | TON |

**Lump Sum BD Deposits for Weight Scaled Sales**

| Cutting Unit Number | Required Deposits |
|---|---|
| 17 | $6,436.80 |
| 21 | $8,194.76 |
| 50 | $8,343.51 |
| 52 | $6,423.29 |
| 54 | $7,998.68 |
| 98 | $10,270.50 |
| 100 | $9,506.46 |

**Total Cost** $57,174.00
(Sheet 1)

# EROSION CONTROL

Seed mix is to be included in C(T)6.601# - Erosion Control Seeding and Special Project Specifications (SPS) 625.05 in Road Package.
***Make sure that the seed mix and fertilizer are the same in both Contract and Road Package.***

Site specific areas, such as gravel pits and very dry sites may call for more and/or different species in the mix. Document below the rational for deviation from the standard seed mix.

| Species of Seed | Pounds per Acre |
|---|---|
| Winter Wheat | 18 |
| Hard Fescue | 6 |
| Orchard Grass | 6 |
| | |
| | |
| TOTAL | 30 |

| Type of Fertilizer | Pounds per Acre |
|---|---|
| 25-10-10 or 27-12-12 or 34-16-10 | 240 |
| TOTAL | 240 |

**Crossdrains**

Installation of crossdrains on temporary roads, skid trails and firelines are included in their respective cost allowance.

**Scarification**

[ ] acres @ [ ] per acre = $0.00

**Seed and Fertilizer**

**If Temp Road seeding is not included in Temp Road worksheet then enter here**

**Temporary Roads** [ ] feet = 0.0 **acres**

**Firelines** [ ] feet = 0.0 **acres**

**Skid Trails**

Number of acres to be skidded using ground based systems times the percentage of area requiring seed and fertilizer. 247 acres X 5 % = 12.4 **acres**

Number of acres to be yarded using cable systems times the percentage of area requiring seed and fertilizer. [ ] acres X [ ] % = 0.0 **acres**

**Landings**

Number of landings 14 X 0.25 acres per landing = 3.5 **acres**

**TOTAL** 15.9 **acres**

| | Tractor | Ground Lead | Skyline | Aerial Heli | Forwarde |
|---|---|---|---|---|---|
| **Acres** | 247 | 0 | 0 | 0 | 0 |

**Seed mix, fert., labor costs:**

| | Lbs / Acre | | $ / Lb | | $ per Acre |
|---|---|---|---|---|---|
| Winter Wheat | 18 | X | $2.00 | = | $36.00 |
| Hard Fescue | 6 | X | | = | $0.00 |
| Orchard Grass | 6 | X | $2.00 | = | $12.00 |
| 0 | 0 | X | | = | $0.00 |
| 0 | 0 | X | $2.00 | = | $0.00 |
| Fertilizer | 240 | X | | = | $0.00 |
| *Labor per Acre | | | | = | $150.00 |
| | | | | $ per acre | $198.00 |

**Total cost for**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **SEEDING** | 15.9 | acres | X | $48.00 | $/acre | = | $763.20 |
| **FERTILIZER** | 15.9 | acres | X | $0.00 | $/acre | = | $0.00 |
| **LABOR** | 15.9 | acres | X | $150.00 | $/acre | = | $2,385.00 |
| **SCARIFICATION** | | | | | | | $0.00 |
| | | | | | **TOTAL** | | $3,148.20 |

$3,148.20 **COST** / 4422 **CCF** = $0.71 **PER CCF**

* Engineers estimate Page 114 of the Cost Guide Item Labor Rates.

**Document Rational for Changes to Standard Seed Mix.**

## OTHER CONTRACTUAL REQUIREMENTS ( A )

***Other* - Include Contractual Obligations Requiring Performance Bond Coverage (Road closure, Barriers, Trail Restoration, etc.)**

| ITEM | # | X | COST | | = | TOT COST |
|---|---|---|---|---|---|---|
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |

$0.00 Cost / 4422 CCF = $0.00 CCF

**Subtotal Other Contractual Requirements ( A ) = $0.00 CCF**

## OTHER CONTRACTUAL REQUIREMENTS ( B )

The cost allowance for herbicide application has been based on the following assumptions; 300 gallon sprayer with herbicide injectors (not tank mixed); 20 gallon of carrier/ac; one trip will be required for each herbicide per road; labor rate and production includes mix, loading, cleanup and daily documentatiion; misc. expenses include equipment maintenance and depreciation, herbicide storage and handling and licensing fees. One mile of road with an average ROW of 30 feet is equal to 3.6 acres. Herbicides approved for use are listed in C(T)6.27# under Technical Spraying Specifications.

| Herbicide (Common name) | Application Rate oz per acre | Cost Per oz | Cost per UOM |
|---|---|---|---|
| | | $0.00 | $0.00 mile |
| | | $0.00 | $0.00 mile |
| | | $0.00 | $0.00 mile |
| | | $0.00 | $0.00 mile |

Price qoute for herbicide obtained from:

**Sufactant & Dye**
.32 oz/gal H2O **$0.68/acre = $2.45/ mile**

**Labor Rate** **$40/ hour (2 Miles per hour)**

Miles of road to be sprayed: 0 miles

| Herbicide to be applied: | Miles | $ UOM | Tot Cost |
|---|---|---|---|
| | | $0.00 | $0.00 |
| | | $0.00 | $0.00 |
| | | $0.00 | $0.00 |
| | | $0.00 | $0.00 |
| Sufactant & dye: | 0 | | $0.00 |
| Application Cost (Labor): | 0 | | $0.00 |
| Misc. Expensense: | 0 | | $0.00 |

**TOTAL WEED TREATMENT:** $0.00 **cost** / 4422 **CCF** = $0.00 **CCF**

## ON-SITE EQUIPMENT WASHING C(T)6.351#

***Cost allowance for washing off-road equipment Prior To Leaving locations identified in EIS/EA***

| | | | |
|---|---|---|---|
| Number (pieces of equipment) | | Number of seasons | |
| Cleaning costs per piece | $0.00 | CCF | 4422 |

**Total cost for washing equipment per CCF** $0.00 **CCF**

**Subtotal Other Contractual Requirements (B)** $0.00 **CCF**

## MISCELLANEOUS CONTRACTUAL REQUIREMENTS ( C )

***(Contractual Obligations That Would Not Require Coverage Under The Performance Bond)***

**Stump Shoveling** (Not required under normal operating/winter conditions. Include if clippers not allowed)

| | | | | | | |
|---|---|---|---|---|---|---|
| | # stumps | X | $0.00 | per stump | = | $0.00 |
| $0.00 | Cost / | 4422 | CCF | = | $0.00 | CCF |

**Snow Plowing**

| | | | | | | |
|---|---|---|---|---|---|---|
| | # miles X | | per mile X | | # plowings | = | $0.00 |
| $0.00 | Cost / | 4422 | CCF | = | $0.00 | CCF |

**Miscellaneous: (Helicopter Landing Construction, Traffic Control etc...)**

| ITEM | # | X | COST | | = | TOT COST |
|---|---|---|---|---|---|---|
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |
| XXX | | X | $0.00 | per XXX | = | $0.00 |

| | | | | | | |
|---|---|---|---|---|---|---|
| $0.00 | Cost / | 4422 | CCF | = | $0.00 | CCF |

**Subtotal Miscellaneous Contractual Requirements ( C )** $0.00 CCF

| | | |
|---|---|---|
| **Total Other Contractual Requirements (A+B+C)** | $0.00 | CCF |
| **Brush Disposal (Purchaser and FS)** | $22.38 | CCF |
| **Total Environmental Protection Cost** | $22.38 | CCF |

## TEMPORARY ROADS

0.00 Miles

| | | |
|---|---|---|
| Temporary Road #1 | 0 | Cost $ $0.00 |
| Temporary Road #2 | 0 | Cost $ $0.00 |
| Temporary Road #3 | 0 | Cost $ $0.00 |
| Temporary Road #4 | 0 | Cost $ $0.00 |
| Temporary Road #5 | 0 | Cost $ $0.00 |

**TOTAL TEMPORARY ROAD COST =** **$0.00**
**(Total Temporary Development Costs)**

**$0.00 COST / 4422 CCF = $0.00 CCF**

Cost Guide for Temporary Roads
http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5279261.pdf

**Temporary Road Seeding, Fertilizing and Obliteration Costs per CCF** **$0.00**

## UNUSUAL CONDITION ADJUSTMENTS

$0.00 **Cost $ /** 4422 **CCF =** **$0.00 CCF**

## TIMBER SALE CONTRACT INFORMATION

**Tim Gate 4 - Contract Preparation information (ADVR114)**

**Normal Operating Season**
*(ADVR114, Page 1)*

| | | | | Units |
|---|---|---|---|---|
| First Period : | 1-Jul | to | 30-Sep | |
| Second Period: | | to | | |

***(Note: If sale has more than one NOS - List dates and units for each NOS in A16 or AT13 of Timber Sale Contract)***

**Periodic Payment Schedule**

**Approximate Award Date:** 09/30/13 mm/dd/yy

***(And Road Completion Date if roads are included.)***
**Road Completion Date:** 09/30/15 mm/dd/yy
***(ENTER N/A if no roads)***

**Contract Termination Date:** 09/30/17 mm/dd/yy

*TIM - Input at Gate 4 - Prospectus, Bid and Misc. Information - Page 1 (ADVR115)*

**Approximate Payment Date:** **09/29/17**

***Include the following statement in the Prospectus for sales without a road completion date.***

*As per B(T) 4.213, Periodic Payment Schedule, a periodic payment will be required. The approximate periodic payment date is XXXX. The final date will be based on the award date of this timber sale contract.*

**FIRE LIABILITY CALCULATION (ADVR114, Page 4)**

5 CCF / man day --- 120 operating days / year --- 600 CCF / man year --- 12 hrs / shift --- 5 shifts / week.
AD-C Firefighter wage is updated yearly, ~March (FSH 5109.34 Chp 10). Link below to directive.

| | | | |
|---|---|---|---|
| **( A )** | Total Volume = | 8456 | CCF |
| **( B )** | Sale Duration = | 4 | YEARS (Calculated from Award Date to Termination Date) |
| **( C )** | Operating Days in Sale = | 480 | (Sale Duration X 120 days.) |
| **( D )** | CCF Per Day = | 17.6 | (Total Volume / Operating Days in Sale) |
| **( E )** | Men Needed to Log Sale = | 3.5 | (CCF Per Day / 5 CCF) |

**( F )** Liability = $17.40 (Wage Rate AD-C) X 12 (hrs/shift) X 5 (# shifts) X
http://www.fs.fed.us/r1/fire/nrcg/Committees/business_committee.htm
3.5 (# men) = TOTAL LIABILITY = $3,654

Round up to nearest $50.00 up to $200.00, then round up to nearest $100.00

**ROUNDED TOTAL = $3,700**

***When sale is entered through TIM, Bid Guarantee is calculated and auto-filled during completion of Gate 4 –Prospectus, Bid and Misc. Information – Page 1- (ADVR115)***

## MINIMUM PERFORMANCE BOND:

***TIM Gate 4 - Prospectus, Bid and Misc. Information - Page 3 - (ADVR115)***

The greater of (A) or (B) rounded **UP** to nearest $100.00 if sale is under $10,000.00 stumpage value and up to nearest $1,000.00 if sale is over $10,000 stumpage value.

**( A )** Advertised Value $76,466 X 10% = $7,647

Rounded 10% Advertised Value = **$8,000** **(A)**

**( B )** Purchaser requirements (Performance) - Based on number of seasons.

| | | |
|---|---|---|
| Road Maintenance = | $3.35 | CCF |
| Erosion = | $0.71 | CCF |
| Brush Disposal = | $9.45 | CCF |
| Other = | $0.00 | CCF |
| Total = | $13.51 | CCF |

Total Purchaser Requirements = $13.51 X Tot Vol 4422 CCF = $59,741 Tot Value

divided by 3 # Seasons = $19,914 Performance Bond Value

Rounded Performance Bond Value = **$20,000** **(B)**

**MINIMUM PERFORMANCE BOND** **$20,000**