

2450

NORTHERN REGION - R-1

FOREST = 14 - Kootenai *

DISTRICT 07 - Cabinet *

Expiration Date = April 1, 2016

V15.1

TIMBER SALE AND
TRANSACTION EVIDENCE
APPRAISAL REPORT

Helwick

(SALE NAME)

Select Contract Type

TIM # 15701

TYPE 6 - Contract Form 2400-6

UOM TON

Prepared by (Signature)

(Date)

Prepared by (Signature)

(Date)

Reviewed by (Signature)

(Date)

Recommended 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): *

Sale Area Legal Description (short T & R):

Sale Area Legal Description (long):

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):

Environmental Documentation:

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

<u>NEPA Document Name</u>	<u>Percentage of Sale Volume (CCF)</u>
<input type="text" value="Helwick EA"/>	<input type="text" value="100"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

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.

TSPIRS INFORMATION, SALE OBJECTIVES

TIM, Gate 3, Create Timber Sale (Prep101)

<u>Purpose (TIM -PREP101)</u>	<u>Activity</u>	<u>% of Sale Volume - CCF (TIM - PREP101)</u>
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

<u>Management Areas</u>	<u>Sale Purpose Code</u>	<u>Type of sale</u>
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.
<i>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.</i>		
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
<u>Percentage:</u> 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 assistance 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): % of total volume

FUNDING SOURCE

Funding Source (button on tool bar) - From STAT102

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

(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: # CHECK CRUISE:
Date of Cruise Date of Check:
Cruisers:

Durkin
Krick
Chambers

 Cruisers:

Wiedeman

Method: Results:
SE%:

Method of determining ROW volume:

SSF Volume: All volume in regen harvests for species conversions due to significant root rot. Removal of live/dead LP in INT harvest.

Basis for Percent Defect:

**CUTTING UNIT DESCRIPTION
(TIM GATE 3 - PREP 104)**

**VOLUME - DIRECT ENTRY
(TIM GATE 3 - PREP 103)**

Unit #	P.U.#	CUTTING UNIT DESCRIPTION (TIM GATE 3 - PREP 104)						VOLUME - DIRECT ENTRY (TIM GATE 3 - PREP 103)						
		Cruise Unit Acres	Appraisal Unit Acres	ROW Acres	Logging Method	Harvest Method	Land Suit Class	MA	Unit Volume CCF		Yield Component		Unit TONS	
									Sawtimber	Non-Saw	CL	NL	Saw	Non Saw
ROW units need to be entered last		Enter KNF MAs Here												
1	1	64	64	.	430	117	857	12	1192	967	2159		3622	2225
10	1	12	12		420	210	500	16	255	181	436		775	416
10A	1	23	23		430	117	500	16	429	348	777		1304	801
11	1	11	11		420	117	500	16	205	166	371		623	382
12	1	54	54		430	210	500	16	1136	813	1949		3452	1870
13	1	22	22		430	117	500	16	410	333	743		1246	766
14	1	9	9		420	117	500	16	168	136	304		511	313
15	1	64	64		430	210	500	16	697	921	1618		2118	2119
16	1	11	11		430	210	500	16	236	166	402		717	382
17	1	33	33		430	117	500	16	615	499	1114		1869	1148
18	1	23	23		430	117	500	16	429	348	777		1304	801
19	1	6	6		430	117	500	12	113	91	204		343	209
2	1	13	13		430	117	500	12	243	196	439		738	451
20	1	23	23		430	117	500	12	429	348	777		1304	801
21	1	24	24		430	117	500	12	448	363	811		1361	835
22	1	121	121		430	210	500	12	2534	1822	4356		7700	4192
3	1	29	29		430	117	500	12	540	438	978		1641	1008
4	1	50	50		430	117	500	12	541	719	1260		1644	1654
5	1	17	17		430	117	500	12	317	257	574		963	591
6	1	6	6		430	117	500	16	113	91	204		343	209
7	1	5	5		430	117	500	16	93	76	169		283	175
8	1	14	14		430	210	500	16	296	211	507		899	485
9	1	17	17		430	117	500	16	317	257	574		963	591
IR	1	5	5	5	420	270			90	13			273	30
OR	1	1	1	1	420	270			18	3			55	7
	1			1	420	210								
Totals Sheet 1		657	657	7					11864	9763	21503	0	36051	22462

Total Sale Area: **800** Sale Area Acres
 Total Cutting Area: **657** Acres
 (Sheet 1)

Total Sawtimber (Sheet 1) **11864** CCF
 Total Saw + Non-Saw (Sheet 1) **21627** CCF

Additional Volume Worksheet 1

Unit #	Leave Volume by Species CF				% of area
	DF	L	PP	WW	

Enter CF Volumes - Totals in CCF

1	3472				100%
Totals	35	0	0	0	

10	1031				100%
Totals	11	0	0	0	

10A	1247				100%
Totals	13	0	0	0	

11	596				100%
Totals	6	0	0	0	

12	3793				100%
Totals	38	0	0	0	

13	1193				100%
Totals	12	0	0	0	

14	488				100%
Totals	5	0	0	0	

15	2415				100%
Totals	25	0	0	0	

16	1170				100%
Totals	12	0	0	0	

17	1790				100%
Totals	18	0	0	0	

18	1247				100%
Totals	13	0	0	0	

19	325				100%
Totals	4	0	0	0	

2	705				100%
Totals	8	0	0	0	

20	1247				100%
Totals	13	0	0	0	

21	1302				100%
Totals	14	0	0	0	

Unit #	Leave Volume by Species CF				% of area
	DF	L	PP	WW	

Enter CF Volumes - Totals in CCF

22	7378				100%
Totals	74	0	0	0	

3	1573				100%
Totals	16	0	0	0	

4	1574				100%
Totals	16	0	0	0	

5	922				100%
Totals	10	0	0	0	

6	325				100%
Totals	4	0	0	0	

7	271				100%
Totals	3	0	0	0	

8	1053				100%
Totals	11	0	0	0	

9	922				100%
Totals	10	0	0	0	

Totals	0	0	0	0	
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Totals	0	0	0	0	
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IR					
Totals	0	0	0	0	

OR					
Totals	0	0	0	0	

Totals	0	0	0	0	
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Totals	0	0	0	0	
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Totals	0	0	0	0	
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DF	L	PP	WW
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(Sheet 1)

Total by Species CCF

371	0	0	0
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If leave trees are other than DF, WL, PP then combine volume and input under WW column.

APPRAISAL CCF TO TON WORKSHEET

SAWTIMBER - CCF

<u>Species</u>	<u>Defect %</u>	<u>Net Volume</u>	<u>Total Additional</u>	<u>Total Net</u>	<u>Tons Per CCF</u>	<u>Total Tons</u>
017-GF	13	1803	0	1803	3.1275	5639
019-AF	0	0	0	0	2.4735	0
073-L	9	494	371	865	3.1935	2762
093-S	0	0	0	0	2.7040	0
108-LP	10	1797	0	1797	3.0210	5429
119-WP	0	0	0	0	3.2230	0
122-PP	12	55	0	55	3.2230	177
204-DF	9	7185	0	7185	3.0160	21670
242-C	10	159	0	159	2.3540	374
263-H	0	0	0	0	3.2425	0
TOTAL =	10	11493	371	11864	3.0387	36051

Net MBF/CCF Ratio For
Sawtimber From NCS
Report CS1 **.50638**

TIM	Prep 105
Conversion	Factors
MBF	CCF
.16660	.32910

NON-SAWTIMBER - CCF

<u>Species</u>	<u>Net Volume</u>	<u>Additional Non-Saw</u>	<u>Total Net</u>	<u>Tons Per CCF</u>	<u>Total Tons</u>
GF	383		383	2.9470	1129
AF	0		0	2.3340	0
L	387		387	3.0785	1191
S	0		0	2.6330	0
LP	7529		7529	2.1371	16090
WP	0		0	3.1500	0
PP	19		19	3.1510	60
DF	1388		1388	2.7885	3870
C	57		57	2.1400	122
H	0		0	3.0590	0
TOTAL =	9763	0	9763	2.3007	22462

90% %Dead

Net MBF/CCF Ratio For
Non-Sawtimber From NCS
Report CS1 **.53971**

TIM	Prep 105
Conversion	Factors
MBF	CCF
.23460	.43460

TOTALS =	<u>Gross</u> 0	<u>Net</u> 21627	<u>Tons</u> 58513
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APPRAISAL SUMMARY

CONTRACT VOLUME (CCF)	<u>21627</u>
APPRAISAL VOLUME (CCF)	<u>11864</u>
CONTRACT VOLUME (TONS)	<u>58513</u> (Note: Total Tons to be used for Rd. Maintenance Appr.)
WTD TONS/CCF	<u>2.7100</u>

LOGGING METHOD SUMMARY

Sawlog Volume

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder	Horse	TOTAL	Swing Not Included in Totals
Acres	38	0	619	0	0	0	657	0
Volume	736	0	11128	0	0	0	11864	0
AEYD	486	0	981	0	0	0		
% Acres	6%	0%	94%	0%	0%	0%		
% Vol	6%	0%	94%	0%	0%	0%		

HARVEST METHOD SUMMARY

	ClearCut	Seed Tree	Shelter Wood	Final Seed Tree	Intermed	Final Shelter wood	Selection	Other Changes
Acres	375	0	0	0	276	0	0	6
Volume	6602	0	0	0	5154	0	0	108
% Acres	57%	0%	0%	0%	42%	0%	0%	1%
% Vol	56%	0%	0%	0%	43%	0%	0%	1%

CCF

TOTAL

657
11864

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)		Minimum Specifications					
		MBF	CCF	DBH	Number of Pieces	Length	DIB	Merch. Factor	
<input checked="" type="checkbox"/> X	Live and Dead	LP & Other	0.1666	0.3291	7	1	8.0	5.6	10.67
					0	0	0.0	0	0
					0	0	0.0	0	0
<input checked="" type="checkbox"/> #	CS	Live and Dead	0.2346	0.4346	4	1	8.0	2.5	N/A
<input type="checkbox"/>	C14	Cedar Products - Net Merch. Factor - Refer to C(T)6.804#			0	0	0.0	0	0

Select Non-Sawtimber Products description from the following:

X Non-Sawtimber products include (C(T)2.2): Primary product includes all trees 5.0" 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 least 50% pulpable woodfiber

NON-SAWTIMBER ADJUSTMENTS

Appraisal Point: **Bonnors Ferry (Fodge)**

DATA INPUT

Delivered Log Price (\$/Ton, Nonsawtimber material)	\$34.69	
Total Nonsawtimber Volume (CCF) (Primary + Secondary)	9,763	<i>Use LP NonSaw page for High Value Non-Saw Products of Any Species, not just Lodgepole Pine</i>
Total Nonsawtimber Volume (Tons) (Primary + Secondary)	22,462	
Tons / CCF for nonsawtimber material	2.30	
Total Appraised Sawlog Volume (CCF)	11,864	
Total One Way Weighted Haul Miles	95	

Haul Adjustment
No Adjustment Needed if using LP Non-Saw

Logging System	All Ground Based	All Cable	Forwarder
Nonsawtimber Primary Product (CCF)	408	7,899	
Net MBF / Acre Harvested for nonsawtimber primary product	5.8	6.9	0.0
Average DBH Harvested for nonsawtimber primary product	7.1	7.1	0.0
Average Yarding Distance (Feet)	486	981	0
Nonsawtimber Primary Product (Tons)	939	18,173	0
Net Tons / Acre Harvested for nonsawtimber primary product	13.3	15.8	0.0

Nonsawtimber Adjustment	
Final Nonsawtimber Value (\$/CCF) A positive number is a negative value.	-\$23.09
Final Nonsawtimber Adjustment to enter into TE appraisal program (\$/CCF)	\$23.09

LP Non-Saw

Report CS 4 - Nonsaw					
Live LP Nonsaw Pri. and Sec. (CS4)	Dead LP Primary Nonsaw (CS4)	Total LP Live and Dead Pri/Sec Nonsaw	Total LP Primary Nonsaw (R101)	Total LP Secondary Nonsaw	Total Live LP Primary Nonsaw
84426	669136	753562	725618	27944	56482
<u>844</u>	<u>6691</u>	<u>7536</u>	<u>7256</u>	<u>279</u>	<u>565</u>
% of Tot	% of Tot				
0.1120	0.8880				
Tons/CCF	Tons/CCF				
3.0200	2.0390				
Average Tons/CCF					
<u>2.1489</u>					
Enter on Species Appraisal (Tons)					
				LPD Prim	6691
				LPL Prim	565
				LP Sec	279
				Total	7536
% LPD Prim. Post Material			50%	→	7190 Tons
LPL Prim. and LP Secondary			→	1814 Tons	
Total LP Post and Pole Material			→	9004 Tons	
Entered from Appraisal CCF to Ton Worksheet					
Total Nonsaw Tons			→	22462 Tons	
Other Nonsaw Material			→	13458 Tons	

LP Non-Saw page can be used for any Species of High Value Non-Saw Products, not just Lodgepole Pine.

Nonsaw Value and Weighted Haul						
Appraisal Point (P&P Material)		Libby, MT				
Species	Weighted Haul Miles					
LPL, LPD	Gravel	Paved	Total Haul	Qty (Tons)	Value/Ton	
	11	75	86	9004	align="right">\$50.00	
Appraisal Point		Bonners Ferry, ID				
Species	Weighted Haul Miles					
All Other	Gravel	Paved	Total Haul	Qty (Tons)	Value/Ton	
	11	90	101	13458	align="right">\$25.00	
Total Nonsaw (Tons)		22462				
Weighted Haul Miles		95.0		Weighted Value/Ton		\$35.02

RIGHTS - OF - WAY

(Include Cost share Agreements)

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

Check Box to use Small Sale RM Rates.

Check Box to use Small Sale RM Rates plus Kooacanusa

(From Road Maintenance Appraisal Summary, sheets are attached)

Contract Rates

	\$/CCF	\$/TON	
Total Performance Recurrent Maintenance (Part A)			
C(T)5.31 - Recurrent Maintenance	\$2.17	\$0.81	
C(T)5.312 - Reconditioning	\$0.00	\$0.00	
Total Performance (Part A)	\$2.17	\$0.81	(A)
Total Required Deposits (Recurrent and Deferred) (Part B)	\$0.00	\$0.00	Recurrent
(Enter appropriate rate in TIM - Gate 4 - Road Maint. Plan - ADVR105)	\$0.86	\$0.32	Deferred
C(T)5.32# - Total Required Deposits (Part B)	\$0.86	\$0.32	(B)
C(T)5.314 - Total Dust Abatement (Part C)	\$2.05	\$0.76	(C)
TOTAL MAINTENANCE COST (Parts A-B-C)	\$5.08	\$1.89	

Appraisal Rates

(Entries for 2400 - 17)

Total Required Deposits	\$ \$1.57 CCF
Total Road Maintenance Costs (Performance + Deposits)	\$ \$9.27 CCF

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

Specified Road Construction

LOGGING METHOD SUMMARY

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder	TOTAL
Acres	38	0	619	0	0	657
Volume	736	0	11128	0	0	11864
EYD	486	0	981	0	0	

IDENTIFY FACILITIES (ADVR102)

Attach completed "IDENTIFY FACILITIES FORM"

<O:\NFS\Kootenai\Program\2400TimberMgmt\SO\2420TimberAppraisals\TIMBER SALE REPORT>

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

TRUE

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

SPECIFIED ROAD COST

	<u>Miles</u>	<u>Total Cost</u>
Construction	3.6	\$148,176
Reconstruction	0.0	\$0
Total Cost	\$148,176	11864 CCF = \$12.49 \$ / CCF

BASE RATE ADJUSTMENT FOR REGENERATION COST

Total Required Regeneration Costs - FACTS Line 21 Remarks \$183,012.00
 (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)	21,627	\$0.25	\$5,406.75		
Select Either (A) or (B)					% Adjustment For Partial Cut Stands
(A) Green Sale - Required Regen Cost \$ 100% Sawtimber Vol. =	\$183,012.00	100%	\$183,012.00	(d)	0%
(B) Salvage Sales enter % Live Sawtimber Volume;					
For Partial Cut Stands Use Previously Cut Worksheet.					
Total:			\$188,418.75	(a)	

<u>Species Groups</u>	<u>Volume (CCF)</u>	<u>Minimum Rates 1/</u>		<u>Base Rates 2/</u>	
		Per CCF	Total	Per CCF	Total
WP, PP, C	214	\$5.00	\$1,070.00	\$17.02	\$3,642.83
All other species (list)	11650	\$3.00	\$34,950.00	\$15.02	\$175,012.92
Nonsawtimber (all species)	9763	\$1.00	\$9,763.00	\$1.00	\$9,763.00
TOTALS	21627	XXXXX	\$45,783.00	XXXXX	\$188,418.75
			(b)		
Sawtimber (Appraisal) Volume	11864				
			Weighted Average Minimum Rate		\$3.04

(a) - (b) = (c) amount need in addition to base rates (plus \$.25/CCF) \$142,635.75 (c)

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

Adjustment To Minimum Rate:
 \$ _____ (c) / (Total Sawtimber Volume) CCF = \$ ____/CCF \$142,635.75 11,864 \$12.02

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 Available for Protected KV at Base Rates = \$183,012.00
 (The only stumpage available for KV at advertised rates is when KV is protected by base rates)

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 rationale for deviation from the standard seed mix.

Species of Seed	Pounds per Acre
-----------------	-----------------

Blue Wildrye	8
Blue bunch Grass	4
Slender Wheatgrass	4
Mountain Brome	4
Annual Rye	6

TOTAL	26
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Type of Fertilizer	Pounds per Acre
--------------------	-----------------

25-10-10 or 27-12-12 or 34-16-10	240
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TOTAL	240
-------	-----

Crossdrains

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

Scarification - Landings and Skid Trails ONLY

acres @ per acre =

Seed and Fertilizer

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

Temporary Roads feet = acres
 Firelines feet = acres

Skid Trails

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

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

Landings

Number of landings X acres per landing = acres

TOTAL acres

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder	Horse
Acres	38	0	619	0	0	0

Seed mix, fert., labor costs:

	<u>Lbs / Acre</u>		<u>\$ / Lb</u>	=	<u>\$ per Acre</u>
Blue Wildrye	8	X	\$6.25	=	\$50.00
Blue bunch Grass	4	X	\$16.00	=	\$64.00
Slender Wheatgrass	4	X	\$3.35	=	\$13.40
Mountain Brome	4	X	\$3.75	=	\$15.00
Annual Rye	6	X	\$1.40	=	\$8.40
Fertilizer	240	X	\$0.00	=	\$0.00
*Labor per Acre				=	\$249.00

\$ per acre **\$399.80**

Total cost for

SEEDING	21.2	acres	X	\$150.80	\$/acre =	\$3,196.96
FERTILIZER	21.2	acres	X	\$0.00	\$/acre =	\$0.00
LABOR	21.2	acres	X	\$249.00	\$/acre =	\$5,278.80
SCARIFICATION						\$0.00
TOTAL						\$8,475.76

\$8,475.76 COST / **11864** CCF = **\$0.71** PER CCF

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

Document Rational for Changes to Standard Seed Mix.

Used Standard Native Cultivar and Annual Rye Seed Mix. KNF Seed Mix guidelines states native seed mix should not require addition of a fertilizer.

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
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 / **11864** 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 documentation; 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 K-G.2.7# under Technical Spraying Specifications.

<u>Herbicide</u> (Common name)	<u>Application Rate oz</u> per acre	<u>Cost</u> Per oz	<u>Cost per</u> <u>UOM</u>
Milestone	5	\$2.81	\$50.58 mile
2,4 - D	16	\$0.14	\$8.06 mile
		\$0.00	\$0.00 mile
		\$0.00	\$0.00 mile

Price quote for herbicide obtained from: Sanders County Weed Control Department

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: 43.42 miles

<u>Herbicide to be applied:</u>	<u>Miles</u>	<u>\$ UOM</u>	<u>Tot Cost</u>
Milestone	21.71	\$50.58	\$1,098.09
2,4 - D	21.71	\$8.06	\$174.98
		\$0.00	\$0.00
		\$0.00	\$0.00

Sufactant & dye:	43.42	\$2.45	\$106.38
Application Cost (Labor):	43.42	\$10.00	\$434.20
Misc. Expense:	43.42		\$0.00

TOTAL WEED TREATMENT: \$1,813.65 cost / 11864 CCF = \$0.15 CCF

ON-SITE EQUIPMENT WASHING K-G.3.5.1#

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

Number (pieces of equipment)	0	Number of seasons	0
Cleaning costs per piece	\$0.00	CCF	11864

Total cost for washing equipment per CCF \$0.00 CCF

Subtotal Other Contractual Requirements (B) \$0.15 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 per stump =

Cost / CCF = CCF

Snow Plowing

miles X per mile X # plowings =

Cost / CCF = CCF

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

ITEM	#	X	COST	TOT COST
XXX	<input type="text" value=""/>	X	<input type="text" value="\$0.00"/> per XXX	<input type="text" value="\$0.00"/>
XXX	<input type="text" value=""/>	X	<input type="text" value="\$0.00"/> per XXX	<input type="text" value="\$0.00"/>
XXX	<input type="text" value=""/>	X	<input type="text" value="\$0.00"/> per XXX	<input type="text" value="\$0.00"/>
XXX	<input type="text" value=""/>	X	<input type="text" value="\$0.00"/> per XXX	<input type="text" value="\$0.00"/>
XXX	<input type="text" value=""/>	X	<input type="text" value="\$0.00"/> per XXX	<input type="text" value="\$0.00"/>
XXX	<input type="text" value=""/>	X	<input type="text" value="\$0.00"/> per XXX	<input type="text" value="\$0.00"/>
XXX	<input type="text" value=""/>	X	<input type="text" value="\$0.00"/> per XXX	<input type="text" value="\$0.00"/>
XXX	<input type="text" value=""/>	X	<input type="text" value="\$0.00"/> per XXX	<input type="text" value="\$0.00"/>
XXX	<input type="text" value=""/>	X	<input type="text" value="\$0.00"/> per XXX	<input type="text" value="\$0.00"/>
XXX	<input type="text" value=""/>	X	<input type="text" value="\$0.00"/> per XXX	<input type="text" value="\$0.00"/>

Cost / CCF = CCF

Subtotal Miscellaneous Contractual Requirements (C) CCF

Total Other Contractual Requirements (A+B+C)	<input type="text" value="\$0.15"/> CCF
Brush Disposal (Purchaser and FS)	<input type="text" value="\$23.12"/> CCF
Total Environmental Protection Cost	<input type="text" value="\$23.27"/> CCF

TEMPORARY ROADS

0.29 Miles

If you have more than 5 Temporary Roads, you can lump Roads together.

Temporary Road #1
Temp A (Unit 15) Cost \$ \$905.00

Temporary Road #2
Temp B (Unit 18) Cost \$ \$1,112.00

Temporary Road #3
Temp C (Unit 22) Cost \$ \$896.00

Temporary Road #4
0 Cost \$ \$0.00

Temporary Road #5
0 Cost \$ \$0.00

TOTAL TEMPORARY ROAD COST = \$2,913.00
(Total Temporary Development Costs)

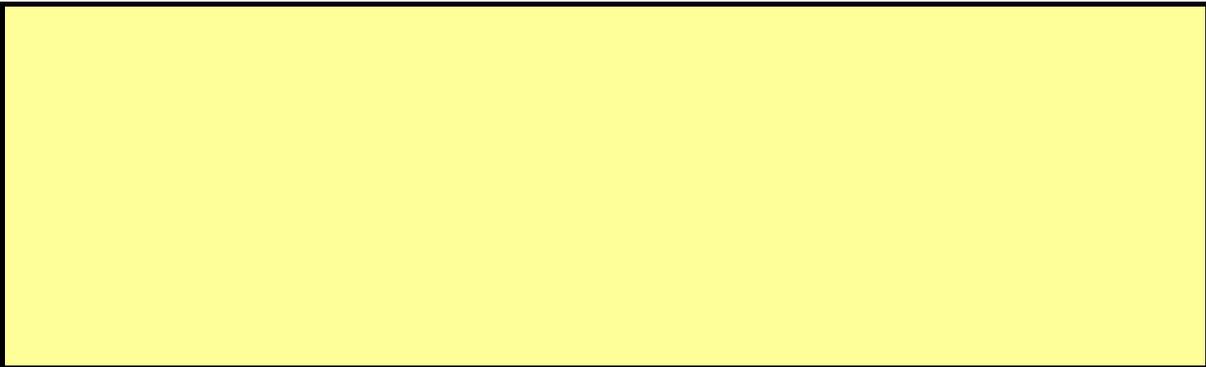
\$2,913.00 Cost \$ / **11864** CCF = **\$0.25** CCF

Cost Guide for Temporary Roads

http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5279261.pdf

Temporary Road Seeding, Fertilizing and Obliteration Costs per CCF **\$0.12**

UNUSUAL CONDITION ADJUSTMENTS



Cost \$ / **11864** CCF = **\$0.00** CCF

TEMPORARY ROAD COSTS #1

Unit or Road Number: **Temp A (Unit 15)**

Reference to Cost estimating procedures for temporary roads from Cost Guide pages 100-104

Average Side Slope	20	%		
Length	420	Feet	0.08	Miles
Volume per Acre	5			

(Note: Do not adjust project costs for inflation or deflation)

Clearing and Grubbing (Table T-1)	=	\$4,090.00 Mile
Excavation (Table T-1)	=	\$2,240.00 Mile
Seeding (Table T-1)	=	\$870.00 Mile
Obliteration (Table T-1) recontouring, and revegetation	=	\$4,000.00 Mile

Total Unit Cost Per Mile = \$11,200.00

Basic Cost Total X Length = \$896.00

Drainage Structures		Dips	X		=	\$0.00
		18" CMP	X		=	\$0.00
		other CMP	X		=	\$0.00

Drainage Cost Total = \$0.00

Other Requirements						
###		###	X	\$0.00	=	\$0.00
###		###	X	\$0.00	=	\$0.00
###		###	X	\$0.00	=	\$0.00
###		###	X	\$0.00	=	\$0.00

Other Cost Total = \$0.00

Subtotal (Basic + Drainage + Other) = **\$896.00**

Mobilization (Table T-4) **7%** = **\$63.00**

Subtotal = **\$959.00**

TOTAL COST \$959.00 / 1.06 Profit = \$905.00

Total Cost to be entered on 2400-17

TEMPORARY ROAD COSTS #2

Unit or Road Number: **Temp B (Unit 18)**

Reference to Cost estimating procedures for temporary roads from Cost Guide pages 100-104

Average Side Slope	10 %		
Length	650 Feet	0.12 Miles	
Volume per Acre	5		

(Note: Do not adjust project costs for inflation or deflation)

Clearing and Grubbing (Table T-1)	=	\$3,220.00 Mile
Excavation (Table T-1)	=	\$1,320.00 Mile
Seeding (Table T-1)	=	\$640.00 Mile
Obliteration (Table T-1) recontouring, and revegetation	=	\$4,000.00 Mile

Total Unit Cost Per Mile = \$9,180.00

Basic Cost Total X Length = \$1,102.00

Drainage Structures					
		Dips	X	\$0.00	= \$0.00
		18" CMP	X	\$0.00	= \$0.00
		other CMP	X	\$0.00	= \$0.00

Drainage Cost Total = \$0.00

Other Requirements					
###		###	X	\$0.00	= \$0.00
###		###	X	\$0.00	= \$0.00
###		###	X	\$0.00	= \$0.00
###		###	X	\$0.00	= \$0.00

Other Cost Total = \$0.00

Subtotal (Basic + Drainage + Other) = **\$1,102.00**

Mobilization (Table T-4) **7%** = **\$77.00**

Subtotal = **\$1,179.00**

TOTAL COST \$1,179.00 / 1.06 Profit = \$1,112.00

Total Cost to be entered on 2400-17

TEMPORARY ROAD COSTS #3

Unit or Road Number: Temp C (Unit 22)

Reference to Cost estimating procedures for temporary roads from Cost Guide pages 100-104

Average Side Slope	20	%		
Length	475	Feet	0.09	Miles
Volume per Acre	5			

(Note: Do not adjust project costs for inflation or deflation)

Clearing and Grubbing (Table T-1)	=	\$3,520.00	Mile
Excavation (Table T-1)	=	\$1,620.00	Mile
Seeding (Table T-1)	=	\$730.00	Mile
Obliteration (Table T-1) recontouring, and revegetation	=	\$4,000.00	Mile

Total Unit Cost Per Mile = \$9,870.00

Basic Cost Total X Length = \$888.00

Drainage Structures					
		Dips	X	\$0.00	= \$0.00
		18" CMP	X	\$0.00	= \$0.00
		other CMP	X	\$0.00	= \$0.00

Drainage Cost Total = \$0.00

Other Requirements					
###		###	X	\$0.00	= \$0.00
###		###	X	\$0.00	= \$0.00
###		###	X	\$0.00	= \$0.00
###		###	X	\$0.00	= \$0.00

Other Cost Total = \$0.00

Subtotal (Basic + Drainage + Other) = \$888.00

Mobilization (Table T-4) 7% = \$62.00

Subtotal = \$950.00

TOTAL COST \$950.00 / 1.06 Profit = \$896.00

Total Cost to be entered on 2400-17

TIMBER SALE CONTRACT INFORMATION

Tim Gate 4 - Contract Preparation information (ADVR114)

Normal Operating Season
(ADVR114, Page 1)

			Units
First Period :	1-Jun	to 15-Oct	All
Second Period:			

(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: mm/dd/yy

(And Road Completion Date if roads are included.)

Road Completion Date: mm/dd/yy
(ENTER N/A if no roads)

Contract Termination Date: mm/dd/yy

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

Approximate Payment Date: **Tentative Date. TIM will Calculate Official Date Upon Award.**

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 / w
AD-C Firefighter wage is updated yearly, ~March (FSH 5109.34 Chp 10). Link below to directive.

(A) Total Volume = CCF
 (B) Sale Duration = YEARS *(Calculated from Award Date to Termination Date)*
 (C) Operating Days in Sale = (Sale Duration X 120 days.)
 (D) CCF Per Day = (Total Volume / Operating Days in Sale)
 (E) Men Needed to Log Sale = (CCF Per Day / 5 CCF)
 (F) Liability = (Wage Rate AD-C) (hrs/shift) X (# shifts) X
http://www.fs.fed.us/r1/fire/nrcg/Committees/business_committee.htm
 (# men) = TOTAL LIABILITY =

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

ROUNDED TOTAL =

2400-17 Input Sheet for R1 TIMBER SALE APPRAISAL

Create New Sale

Sale Name **Helwick** *
Sale No **15701** *
Forest No **14 - Kootenai**
District No **07 - Cabinet**

Size Class **7 - \$1,000,000.01 thru \$5,000,000** *
Sale Status *
SBA Code **N - No** *
Appraisal Type **TE - Transaction Evidence** *

Basic Information

State **MT - Montana** *
County Code **089 - Sanders** *
Legal Description **T22N, R31W, PMM** *
Appraisal Date **1/18/2016** *
Contract Date *
Term Date **10/15/2020** *
Bid Date **7/12/2016**
Modified By **ljm**
Modified Date **6/8/2016**

Salvage Code **2 - Salv Sale or Salv Component in Regular Program** *
Pricing Method **100D - Escalated 100% up, 100%down** *
SAI Collection **\$183,012.00**
Contract No *
Contract Form **6 - Contract Form 2400-6** *
CO Authority **S - Forest Supervisor** *
Sale Method **S - Sealed Bids** *
Regulation Code **12 - 36 CFR 223.86** *

Area & Volume

Total Sale Area Acres **800**
Clearcut Acres **375**
Seed Tree Acres **0**
Right Of Way Acres **7**
Final Seed Tree Acres **0**
Shelter Wood Acres **0**
Cedar Poles: Volume *
Count *
Length *
Percent Salvage **69%**

Cut Acres **657**
Clearcut Volume **6602**
Seed Tree Volume **0**
Right Of Way Volume **1192**
Final Seed Tree Volume **0**
Shelter Wood Volume **0**

Costs / CCF

Slash FS **\$11.68**
Slash Total **\$23.12**
Erosion **\$0.71**
Misc **\$0.15**
Temp Roads **\$0.25**
Other Temp Dev **\$0.00**
Unusual Cond Adj **\$0.00**
Road Maint Dep **\$1.57**
Road Maint Total **\$9.27**
Non-sawtimber Adj **\$23.09**

Comments

Includes other (A), weeds (B), Misc (C)
 Includes Tons/CCF Adjustment

Use this sheet to calculate advertised value and to convert \$/CCF to \$/Tons.

Attach this sheet to the 2400-17 for Documentation.

Sawtimber Rate from the 2400-17 \$16.73

Conversion to Tons

	<u>Adv. Rate</u>	<u>CCF Vol</u>	<u>Tons</u>	<u>Weighted Average Bidding</u>	<u>Total Value Bidding</u>
Sawtimber	\$16.73	11864	36051	\$5.51	\$5.78
Non_Saw	\$1.00	9763	22462	\$0.43	\$5.78
Base Rate (Sawtimber)	\$15.06	11864	36051	\$4.96	\$4.96
Total Sale Value				\$208,247.72	