

TIMBER SALE APPRAISAL APPENDIX (TE) 04-2420-3

1. Sale Name: Templemental

District: Bonners Ferry

Appraisal Point: Bonners Ferry, Idaho

Sale No. 010

STARS # 05713

Compartment: 733, 738, 741

Total Sale Acres: 1,607

2. Species Group	C	DF, L	H, GF, AF	LP, PP, S	Sawlog Total	Non-Sawtimber	Total All Products
Net Volume	409 CCF 178 MBF	3,731 CCF 1,838 MBF	1,854 CCF 945 MBF	1,423 CCF 693 MBF	7,417 CCF 3,654 MBF 25,341 Tons	3,298 CCF 1,649 MBF 10,827 Tons	10,715 CCF 5,303 MBF 36,168 Tons

3. Weighted Averages For Species Grouping

	Net	Gross					Appraisal	WWPA	Esc.	WWPA
Species	Volume	Volume	Percent	Gross	Number	Average	Conv.	Species	Conv.	Index
Group	CCF	CCF	Defect	Logs /ccf	Trees	DBH	Factor	Index	Factor	Name
C	409	468	13	21.5	7,018	8.6	NA	NA	NA	NA

	Net	Gross					Appraisal	WWPA	Esc.	WWPA
Species	Volume	Volume	Percent	Gross	Number	Average	Conv.	Species	Conv.	Index
Group	CCF	CCF	Defect	Logs /ccf	Trees	DBH	Factor	Index	Factor	Name
DF	3,349	3,696	9	15.6	22,465	11.1				
L	382	441	13	25.8	6,777	8.2				
Total (T) Wt. Avg. (A)	T 3,731	T 4,137	A 10	A 16.7	T 29,242	A 10.5	NA	NA	NA	NA

	Net	Gross					Appraisal	WWPA	Esc.	WWPA
Species	Volume	Volume	Percent	Gross	Number	Average	Conv.	Species	Conv.	Index
Group	CCF	CCF	Defect	Logs /ccf	Trees	DBH	Factor	Index	Factor	Name
H	969	1,132	14	17.3	10,917	8.9				
GF	849	1,160	27	14.6	7,144	10.1				
AF	36	43	14	24.1	483	8.0				
Total (T) Wt. Avg. (A)	T 1,854	T 2,335	A 21	A 16.1	T 18,544	A 9.3	NA	NA	NA	NA

	Net	Gross					Appraisal	WWPA	Esc.	WWPA
Species	Volume	Volume	Percent	Gross	Number	Average	Conv.	Species	Conv.	Index
Group	CCF	CCF	Defect	Logs /ccf	Trees	DBH	Factor	Index	Factor	Name
LP	1,287	1,475	13	17.5	13,589	9.0				
PP	120	144	17	16.2	856	11.5				
S	16	17	4	26.8	600	7.4				
Total (T) Wt. Avg. (A)	T 1,423	T 1,636	A 13	A 17.5	T 15,045	A 9.0	NA	NA	NA	NA

Combined Species Sawlog Average DBH: 9.7”
 Sawlog Conversion Factor (MBF/CCF): .4928
 WWPA indices for each species group: NA

4. Skidding

a. Tractor:	Acres 722	Volume 6,629 ccf	Distance 1,250 ft
b. Skyline:	Acres 50	Volume 498 ccf	Distance 500 ft
c. Log Forwarder:	Acres 269	Volume 290 ccf	Distance 1,475 ft

5. Transportation

Haul Route

Appraised to Moyie Springs, Idaho

(a) Road Miles – Sale Center to Appraisal Point:

(1) Paved:

Road Number	Termini	Miles
US95	From road 397 to the junction with road 397A.	4.2
US2	From US95 to the junction with cty road 83.	5.7
Cty83	From US2 to the mill.	0.5
Total		10.4

(2) Unpaved:

Road Number	Termini	Miles
397C	From sale center m.p. 2.0 to the junction with rd 397A.	2.0
397A	From road 397C to the junction with road 397.	1.5
397*	From road 397A to the junction with US95.	3.5
Total		7.0

* The first .3 miles is maintained by the county.

Total Haul Miles (Paved and Unpaved) = 17.4

Road Maintenance

(1) All Haul Roads to be Maintained:

Road No.	Name	Termini	Surface	Miles
397	Camp Nine	From road 397A to county portion.	Gravel	3.2
397A	Eagle	From end of road to the junction with road 397.	Gravel	2.5
397C	Templeman Lake	From m.p.0.8 to the junction with 397A.	Gravel	0.8
		From end of road to the graveled portion.	Native	1.7
397D	National	From the end of road to the junction with 397C.	Native	1.8
940	West Templeman	From the end of road to the junction with C36.	Native	0.9
941	East Templeman	From the end of unit 1 to the junction with C36.	Native	1.0
Total				11.9

(2) Recurrent Maintenance: – Costs are based on 100% volume for the haul route from sale center (m.p. 2.0 rd 397C) to the mill, including Forest Service roads only.

Road Number	Surface	Miles	Cost/ccf/mile	%Total Vol.	Cost/CCF	
					Purchaser	Forest Service
397	gravel	3.2	.12	100	.38	
397A	gravel	1.5	.12	100	.18	
397C	gravel	0.8	.12	100	.10	
	native	1.2	.10	100	.12	
Snowplowing		(12.6)			.98	
Total		6.7			1.76	

(3) Surface Replacement:

Road Number	Surface	Miles	Cost/CCF/Mile	% Total Vol.	Cost/ CCF
397	gravel	3.2	.10	100	.32
397A	gravel	1.5	.10	100	.15
397C	gravel	0.8	.10	100	.08
	native	1.2	.05	100	.06
Total		6.7			.61

(4) Roadside Vegetative Brushing:

Road Number	Miles	Cost/CCF/Mile	% Total Vol.	Cost/ CCF
397	3.2	.06	100	.19
397A	1.5	.06	100	.09
397C	2.0	.06	100	.12
Total	6.7			.40

(5) Road Maintenance Summary:

	Cost/CCF	Cost/Ton
Recurrent Maintenance (Purchaser)	1.76	
Recurrent Maintenance (FS)		
Surface Replacement (FS)	.61	
Roadside Vegetative Brushing (FS)	.40	
Total Deposit	1.01	.30
Total Road Maintenance	2.77	

6. Slash Disposal

	Cost/CCF	Cost/Ton
Forest Service	23.00	6.73
Purchaser	8.39	
Total	31.39	

7. Erosion Control

(See Erosion Control Plan in Timber Sale Report) \$ **.22/CCF**

8. Other Environmental Protection Costs

Description	Costs	Cost/CCF
Mobile Tailholds for Unit 4a	\$85/hr x 8 hr/day x 15 days = \$10,200	\$1.38

9. Small Product Adjustment - See attachment

\$ 16.40/CCF

10. Temporary Road Costs

Reference: Cost estimating procedures taken from the R1 Cost Estimating Guide for Road Construction, dated 2/07.

(a) Construction: 0.2 miles - Unit 4a

Average Side Slope: 20 %		
Average Timber Volume: 15 Mbf/Acre		
	Cost/Mile	Cost
1. Clearing and Grubbing (Table T-1)	2,730	
2. Excavation (Table T-1)	1,370	
3. Seeding (Table T-1)	620	
4. Obliteration (Table T-3) level	1,000	
5. Total Unit Cost (1+ 2 + 3 + 4)	5,720	
6. Basic Cost (5) x Length		1,144
7. Drainage:		
<u>3</u> dips x \$125/dip (Section 157)		375
<u>0</u> CMP x Cost/CMP (Table T-2)		
8. Subtotal (6 + 7)		1,519
9. Mobilization (Table T-4) (8 + 7%)		106
10. Subtotal (8 + 9)		1,625

(b) Reconstruction: 0.5 miles Units 3, 5

	Miles	Unit Cost	Total Cost
Reconstruction: brush & blade	0.5 miles	\$845/mile	423
Obliteration: Unit 5 temp	0.2 miles	\$2,500/mile	500
Subtotal			923
Plus Mobilization			988
Total (Minus Profit)			932

Total Temporary Road Miles = 0.7

Total Temporary Road Cost = \$ 2,557

Cost Estimate per CCF (All Species) = \$.34 /CCF

11. Specified Roads - (See Schedule of Items for more detailed information)

Road No.	Miles Construction	Miles Reconstruction	Purchaser Costs	
			Construction	Reconstruction
397		1.45		2,058.56
397A		2.50		53,197.03
397C		2.50		35,243.27
397D		1.82		10,368.02
940		0.88		2,433.38

941		1.00		1,453.01
TOTAL		10.15		104,753.27

Total Purchaser Costs: **\$ 104,753.27**
Estimated Cost per CCF (All Species): **\$ 14.12/CCF**

12. Base Rates

Adjustments of Base Rates (to protect regeneration costs)	Costs
Min NFF: -0-	0
Regeneration Costs	93,867
Regeneration Costs plus min NFF	93,867
Total value at minimum rates *	46,618
Amount of increase needed	47,249
Increase per CCF	6.37

* Total Value at Minimum Rates:

Species	Rate/ccf	Volume	Total Value
C	10.00	409	4,090
DF,L	6.00	3,731	22,386
LP, S	6.00	1,303	7,818
PP	10.00	120	1,200
H,GF,AF	6.00	1,854	11,124
Total		10,715	46,618

Species Group	C	DF, L	H, GF, AF	LP, PP, S	Non-Sawtimber
Base Rate	16.37/CCF	12.37/CCF	12.37/CCF	12.71/CCF	1.00/CCF

13. Base Indices

Base Indices	NA		
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