

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

**1. Sale Name: Northern Prairie**  
 District: Bonners Ferry RD  
 Appraisal Point: Moyie Springs, ID

Sale No. 011      TIM # 05604  
 Compartment: 727  
 Total Sale Acres: 1,230

<b>2. Species Group</b>	DF, L, C	LP, AF, GF, H, S, PP	Sawlog Total	Non-Sawlog Total	<b>Total All Products</b>
Net Volume	2,288 CCF 1,091 MBF	3,471 CCF 1,735 MBF	5,759 CCF 2,826 MBF	750 CCF 492 MBF	<b>6,509 CCF 3,318 MBF 21,186 Tons</b>

**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
DF	1,802	1,916	6	22.5	17,213	9.9				
L	458	479	4	24.7	3,959	9.6				
C	28	28	2	20.1	201	11.1				
Total (T) Wt. Avg. (A)	T 2,288	T 2,423	A 6	A 22.9	T 21,373	A 9.9	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	2,524	2,771	9	16.8	13,492	10.9				
AF	508	548	7	18.9	4,162	10.2				
GF	215	238	9	10.3	774	12.3				
H	111	126	13	14.2	628	12.7				
S	109	113	4	15.5	575	11.5				
PP	4	8	37	17.3	44	11.4				
Total (T) Wt. Avg. (A)	T 3,471	T 3,804	A 9	A 16.6	T 19,675	A 10.9	NA	NA	NA	NA

Combined Species Average DBH: 10.4"  
 Sale Wide Conversion Factor (MBF/CCF): .5098

**4. Skidding**

<b>a. Tractor:</b>	Acres 308	Volume 3,012 ccf	Distance 575 ft
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<b>c. Skyline:</b>	Acres 215	Volume 2,747 ccf	Distance 530 ft
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**5. Transportation**

Haul Route

Appraised to: Moyie Springs, Idaho

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

**(1) Paved:**

Road Number	Termini	Miles	Adjusted Miles
2573	From m.p. 1.0 to the junction with US95.	1.0	0.2
US95	From m.p. 20.5 to the junction with US2.	20.5	20.5
US2	From US95 to Cty 83.	5.7	5.7
Cty 83	From US2 to the mill.	0.5	0.5
Total			<b>26.9</b>

**(2) Unpaved:**

Road Number	Termini	Miles	Adjusted Miles
2573	From m.p. 5.1 to the pavement m.p.1.0.	4.1	0.8
2587	From m.p. 1.7 to the junction with road 2228.	1.7	0.4
2228	From road 2587 to the junction with US95.	0.3	0.1
2481	From m.p. 9.9 to the junction with road 272.	9.9	5.5
272	From road 2481 to the junction with US95.	3.3	1.8
Total			8.6

Total Haul Miles (Paved and Unpaved) = **35.5**

**(b) Road Maintenance**

**(1) Roads to be Maintained (total miles):**

Road No.	Name	Termini	Surface	Miles
2481	Mission Mountain	From the end of unit 80 to the junction with road 272.	Gravel	11.1
2229	Harvey Creek	From Unit 73 to the junction with road 2481.	Native	3.0
272	Hall Mountain	From road 2481 to the junction with US95.	Paved	3.3
272E	Hall Mountain E	From unit 136 to the junction with road 272.	Native	0.7
2228	Miller Creek	From the end of unit 137 to the junction with road US95.	Native	1.4
2587	Ross	From the end of unit 96 to the junction with road 2228.	Native	2.0
2573	Hogue Mountain	From the end of unit 103 to the junction with US95.	Paved Native	1.0 4.3
Total				26.8

**(2) Recurrent Maintenance (average haul to sale center):**

Road Number	Miles	Cost/ccf/mile	%Total Vol.	Cost/CCF	
				Purchaser	Forest Service
2481 gravel	9.9	.13	56	.72	
272 paved	3.3	.08	56		.15
2587 native	1.7	.10	25	.04	
2228 native	0.3	.10	25	.01	
2573 paved	1.0	.08	19		.02
gravel	4.1	.13	19	.10	
Snowplowing				1.12	
Total				1.99	.17

**(3) Surface Replacement:**

Road Number	Miles	Cost/CCF/Mile	% Total Vol.	Cost/ CCF
2481 gravel	9.9	.11	56	.61
272 paved	3.3	.06	56	.11
2587 native	1.7	.11	25	.05
2228 native	0.3	.11	25	.01
2573 paved	1.0	.06	19	.01
gravel	4.1	.11	19	.09
Total				.88

**(4) Roadside Vegetative Brushing:**

Road Number	Miles	Cost/CCF/Mile	% Total Vol.	Cost/ CCF
2481	9.9	.06	56	.33
272	3.3	.06	56	.11
2587	1.7	.06	25	.03
2228	0.3	.06	25	.01
2573	5.1	.06	19	.06
Total	20.3			.54

**(5) Road Maintenance Summary:**

	Cost/CCF	Cost/Ton
Recurrent Maintenance (Purchaser)	1.99	
Recurrent Maintenance (FS)	.17	
Surface Replacement (FS)	.88	
Roadside Vegetative Brushing (FS)	.54	
Total Deposit	1.59	.43
Total Road Maintenance	3.58	

**6. Slash Disposal**

	Cost/CCF	Cost/Ton
Forest Service	18.97	<b>5.16</b>
Purchaser	8.99	
Total	<b>27.96</b>	

**7. Erosion Control**

(See Erosion Control Plan in Timber Sale Report) **\$ 0.57/CCF**

**8. Other Environmental Protection Costs**

Description	Unit Costs	Total Cost
Mobile Tailholds for Unit 72	\$85/hr x 8 hr/day x 14 days	9,520
Total		<b>1.65/CCF</b>

**9. Small Product Adjustment - See attachment**

**\$ 6.29/CCF**

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

Road No.	Miles	Miles	Purchaser	Costs
	Construction	Reconstruction	Construction	Reconstruction
272		3.25		4,677.40
2481		11.10		55,424.55
2228		1.40		7,445.8
2587		1.95		6,615.12
<b>TOTAL</b>		<b>17.70</b>		<b>74,162.87</b>

Total Purchaser Costs: \$ 74,162.87  
 Estimated Cost per CCF (All Species): \$ 12.88/CCF

**11. Base Rates**

Adjustments of Base Rates (to protect regeneration costs)	Costs
Min NFF: Sale volume 6509 CCF x \$0.25/CCF	1,627
Regeneration Costs	181,828
Regeneration Costs plus min NFF	183,455
Total value at minimum rates *	35,432
Amount of increase needed	148,023
Increase per CCF	25.70

\* Total Value at Minimum Rates:

Species	Rate/ccf	Volume	Total Value
C	10.00	28	280
PP	10.00	4	40
LPAF,GF,H,S	6.00	3,467	20,802
DF,L	6.00	2,260	13,560
Nonsaw	1.00	750	750
<b>Total</b>		<b>5,759</b>	<b>35,432</b>

Species Group	DF,L,C	LP,AF,GF,H,S,PP	Non-Sawlog Total	Total Rate/Ton
Base Rate/CCF	6.05 + 25.70= 31.75/CCF	6.00 + 25.70= 31.70/CCF	1.00/CCF	8.66/Ton

**12. Base Indices**

Base Indices	NA
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