

USDA - FOREST SERVICE  
Stewardship: N

REPORT OF TIMBER SALE  
APPRAISAL SUMMARY CCF

R6-FS-2400-17 (04/10)  
Version 1431 (TEA 07-14)

Region: 06  
Forest: 06 Mt Hood  
District: 06 Hood River  
Salvage: N

Sale Name: Mule Thin SBA  
Sale Number: 61402  
Appraise to: Odell, OR  
Appraiser: E.Kidwell

Appraisal Date: 08/13/14  
Base Period Ending: 06/30/14  
Competition Factor: 40%  
Essential KV Cost: 0

SELLING PRICES	1	2	3	4	5	6	7	Average	Total
1. Species	D-fir	W Hem	GBCvNS						
2. Species Code	205	263	2						
3. Product/Unit	01-03	01-03	20-03						
4. Volume	7,909	752	281						8,942
5. Base Period Price	110.68	30.11	68.86*					102.59	
6. Base Period Index	214.41	198.40	78.00					208.78	
7. Current Index	214.41	198.40	78.00					208.78	
8. Rapid Market Adj	10.40	10.40						10.07	
9. Market Adj BP Price	121.08	40.51	68.86					112.66	
10. Unusual Adjustment									
11. GBCv-Nonsaw Adj			-164.20					-5.16	
12. Product Quality Adj									
13. Adj Base Period Price	121.08	40.51	-95.34					107.50	961,294.70

COSTS	Zone Avg Cost/UM	Est Sale Cost/UM	Adj to BP Cost	ROADS	Km	Miles	Cost
14. Stump to Truck	112.62	266.89	-154.27	Specified Road Con			
15. Haul/Scale	30.24	17.59	12.65	Specified Road Rec	10.95	6.80	48,565
16. Road Maintenance	9.82	7.38	2.44	Temporary Road Con	.18	.11	1,574
17. Contract	5.90	2.69	3.21	Haul Miles		23	
18. Development & Other	5.62	.18	5.44				
19. Road Const & Recon		5.43	-5.43				
20. Total (lines 14-19)	164.20	300.16	-135.96	DEPOSITS:	Br Disp/UM 1.71	Rd Mtc/UM 1.98	C(T)5.213# 4,500.00

ADVERTISED RATES	1	2	3	4	5	6	7	Average	Total
21. Predicted Bid Rate	-14.88	-95.45	-231.30					-28.46	-254,459.62
22. Competition Adjustment	-5.95	-38.18	-92.52					-11.38	-101,768.03
23. Property Value									
24. Indicated Adv Rate	-8.93	-57.27	-138.78					-17.08	-152,691.59
25. Base Rate	3.00	3.00	.25					2.91	26,053.25
26. Adjustment	11.93	60.27	139.03					19.99	178,744.84
27. Advertised Rate	3.00	3.00	.25					2.91	26,053.25

CCF to MBF Rate Factors:	1.8078	1.8341	1.6337					1.8039	
CCF to MBF Volume Factors:	.5532	.5452	.6121					.5544	
MBF to CCF Index Factors:	.52	.52	.52						
CCF Base Index for A(T)5a:	237.09D	200.30C							
CCF Wtd Avg Del Log Price:	249.39	207.46							
MBF Volume:	4,375	410	172						4,957
MBF Base Index for A(T)5a:	412.33	381.53							
MBF Advertised Rate:	5.42	5.50	.41					5.25	26,038.02
						DEPOSITS/MBF	BD:	3.08	RM: 3.57

**PRODUCT QUALITY ADJUSTMENT - OREGON EASTSIDE**

Use with Appraisal Update #7-14

Sale Name: **Mule SBA**

Date: **04-Aug-14** (mm/dd/yy)

Species Group #1	Minimum Dia - dib		Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
122	5.0" - 7.99"		250.00				
	8.0" - 11.99"		340.00			176.80	0.00
	12.0" - 19.99"		360.00				
	20.0" - 24.0"		430.00				

**Weighted average Product Quality Adjustment (PQA) for species group #1 = 0.00 /ccf** under BPP/CCF for products 08 and 20  
**Weighted average delivered log price for Species Group #1 = 0.00 /ccf** (enter on TEA input screen as Log Pr/CCF)

\$/ton Avg	Avg lb per cf	Volume CCF
22.00	62.6	280.00

**BPP for chips = 68.86 /ccf**  
 (insert as override on TEA input screen)

Species Group #2	Minimum Dia - dib		Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
D-fir/Larch	8-11"		camprun				
	#3 sawmill		440.00	4,375.00	7,909.00	243.39	0.00
	#2 sawmill		0.00				

**Weighted average Product Quality Adjustment (PQA) for species group #2 = 0.00 /ccf**  
**Weighted average delivered log price for Species Group #2 = 243.39 /ccf** (enter on TEA input screen as Log Pr/CCF)

Species Group #3	Minimum Dia - dib		Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
Hem-Fir	8-11"		camprun				
	#3 sawmill		380.00	410.00	751.00	207.46	0.00
	#2 sawmill		0.00				

**Weighted average Product Quality Adjustment (PQA) for species group #3 = 0.00 /ccf**  
**Weighted average delivered log price for Species Group #3 = 207.46 /ccf** (enter on TEA input screen as Log Pr/CCF)

Species Group #4	Minimum Dia - dib		Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
		If this table is used, → entry needed here				0.00	

**Weighted average Product Quality Adjustment (PQA) for species group #4 = 0.00 /ccf**  
**Weighted average delivered log price for Species Group #4 = 0.00 /ccf** (enter on TEA input screen as Log Pr/CCF)

Species Group #5	Minimum Dia - dib		Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
		If this table is used, → entry needed here				0.00	

**Weighted average Product Quality Adjustment (PQA) for species group #5 = 0.00 /ccf**  
**Weighted average delivered log price for Species Group #5 = 0.00 /ccf** (enter on TEA input screen as Log Pr/CCF)

Species Group #6	Minimum Dia - dib		Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
		If this table is used, → entry needed here				0.00	

**Weighted average Product Quality Adjustment (PQA) for species group #6 = 0.00 /ccf**  
**Weighted average delivered log price for Species Group #6 = 0.00 /ccf** (enter on TEA input screen as Log Pr/CCF)

\*\* Oregon Log Market Report, July 15, 2014, delivered log prices.



# VOLUME SUMMARY SHEET

Version 4.1-100

Sale name: **Mule Thin SBA**  
 Forest/district: **Hood River RD**

Cruise basis: **CCF**  
 Volume type: **16-ft logs**

Date: **06/05/14**  
 Avg tree dbh:  
 Avg volume/tree:

Cutting Unit #	Paymt Unit #	Cutting Type Design	Yarding System	Unit Acres	Species or Species Groups								Total Saw Volume	Total Nonsaw Volume	Total Unit Volume
					noble fir		P. silver fir		W. Doug-fir		W. hemlock				
					saw	n-saw	saw	n-saw	saw	n-saw	saw	n-saw			
6	6		Heli	42	54	1	48	6	1,866	38	229	20	2,197	65	2,262
7	7		Heli	8	10	0	9	1	355	7	44	4	418	12	430
9	9		Sky	22	3	1	0	0	540	23	33	2	576	26	602
12	12		Heli	16	21	0	18	2	711	14	87	8	837	24	861
15	15		Sky	15	2	1	0	0	368	16	23	1	393	18	411
44	44		Heli	58	7	2	0	0	1,423	61	87	6	1,517	69	1,586
44B	44B		GB	8	1	0	0	0	196	8	12	1	209	10	219
44C	44C		Sky	29	4	1	0	0	711	31	44	3	759	35	794
501	501		Heli	41	0	0	0	0	1,739	22	16	1	1,755	23	1,778
<b>Sale Totals</b>				239	102	7	75	9	7,909	219	575	46	8,661	281	8,942

# VOLUME SUMMARY YARDING SYSTEM REPORT



Sale name: **Mule Thin SBA**  
Date: **06/05/14**

Cruise basis: **16-ft logs**  
Volume type: **CCF**  
Forest/district: **Hood River RD**

Avg tree dbh: **11.7**  
Avg volume/tree: **22.0**

Yarding System	System Acres	noble fir			P. silver fir			W. Doug-fir			W. hemlock			W. hemlock			mtn. hemlock		
		Saw	N-saw	Total	Saw	N-saw	Total	Saw	N-saw	Total	Saw	N-saw	Total	Saw	N-saw	Total	Saw	N-saw	Total
GB	8	1	0	1	0	0	0	196	8	204	12	1	13	0	0	0	0	0	0
Heli	165	92	4	96	75	9	84	6,094	142	6,236	463	39	502	0	0	0	0	0	0
Sky	66	9	3	12	0	0	0	1,619	69	1,688	100	7	107	0	0	0	0	0	0
Totals	239	102	7	109	75	9	84	7,909	219	8,128	575	46	621	0	0	0	0	0	0



Yarding System	System Acres													All Species			Vol Per Acre - All Sp		
		Saw	N-saw	Total	Saw	N-saw	Total	Saw	N-saw	Total									
GB	8	0	0	0	0	0	0	0	0	0	0	0	0	209	10	219	26.1	1.2	27.3
Heli	165	0	0	0	0	0	0	0	0	0	0	0	0	6,724	193	6,917	40.8	1.2	41.9
Sky	66	0	0	0	0	0	0	0	0	0	0	0	0	1,728	79	1,807	26.2	1.2	27.4
Totals	239	0	0	0	0	0	0	0	0	0	0	0	0	8,661	281	8,942	36.2	1.2	37.4

# Other Road Maintenance Items and Summary

Version 8.0

Sale name: Mule SBA Timber Sale



## Pre-Haul Maintenance

*(Open roads, blading, brushing, small slide removal, etc.)*

Type	Mtce By	Total Cost
T-813 - 1340,1811 (300cy @ \$39/cy)	Purchaser	\$11,700.00
T-834 - 1340,16,1811 (12.57mi @ \$160/mi)	Purchaser	\$2,011.20
T-836 - 16 (5.17mi @ \$820/mi)	Purchaser	\$4,239.40
T-838 - 1340,1811 (7.10mi @ \$800/mi)	Purchaser	\$5,680.00
T-839 - 1811(0.30mi @ \$1,650/mi)	Purchaser	\$495.00
T-842 - 18 (8.13mi @ \$1,200/mi)	Purchaser	\$9,756.00
814 - 18 (5.0tn @ \$170/tn)	Purchaser	\$850.00

## Post-Haul Maintenance

*(Road closures, seeding, barriers, etc.)*

Type	Mtce By	Total Cost
T-834 - 1340,16,1811 (12.57mi @ \$160/mi)	Purchaser	\$2,011.20
T-836 - 16 (5.17mi @ \$520/mi)	Purchaser	\$2,688.40
T-838 - 1340,1811 (7.10mi @ \$450/mi)	Purchaser	\$3,195.00
T-839 - 1811(0.30mi @ \$300/mi)	Purchaser	\$90.00

## Miscellaneous Road Maintenance Items

*(Damage to roads from logging or landings, dust abatement, etc.)*

Type	Mtce By	Total Cost
Hazard Trees (T-854) - All Roads (Lump Sum)	Purchaser	\$1,570.00
Mobilization - 9% of Purch Performed Maint	Purchaser	\$3,985.76

## Data and Cost Summary

*(Traveling RTM's, haul maintenance, and fixed costs included from Road Report)*

Data & Cost Summary Item	Value	
Appraisal point (mill or sort yard)	Odell	
District or Forest	Hood River RD	
Sale termination date	3/31/2017	
Analyst name	L. Jimenez	
Total hauled timber volume - CCF	8,940	
Maintenance Summary (all items)	Total \$'s	\$/CCF
Required rd maint deposits, FS (CT5.32)	\$17,675.47	\$1.98
Purchaser maintenance	\$48,271.96	\$5.40
Other maintenance (CT5.32)	\$0.00	\$0.00
Subtotal FS & other (CT5.32)	\$17,675.47	\$1.98
Total for appraisal - Road Maintenance (all)	\$65,947.43	\$7.38

### Approval

Prepared By	7/22/2014
/s/ Lucas Jimenez	Project Engineer
Reviewed By	Road Systems Manager
Reviewed By	Zone Engineer

<b>BRUSH DISPOSAL TREATMENT PLAN</b> (Ref. FSH 2409.19)	<b>1. Forest</b> Mt. Hood			<b>2. District/Unit</b> Hood River		
	<b>3. Sale Name</b> MULE THIN SBA(61402)			<b>4. Award Date</b>		
<b>5. Compartments or GIS Reference</b>	<b>6. Type of Plan</b> [X] Original [ ] Final [ ] Revision #	<b>7. Purchaser</b>			<b>8. Contract Number</b>	
<b>9. List of Projects</b>			<b>10. Work Activity</b>	<b>11. Unit of Work</b>	<b>12. Cost Per Unit</b>	<b>13. No. of Units</b>
Fuel Inventory			HF	Acres	\$21.42	86.5
Burning of Piled Material			HF	Acres	\$325.68	12.5
Burning of Piled Material			HF	Acres	\$66.88	37.0
Burning of Piled Material			HF	Acres	\$65.56	37.0
<b>15. Total Project Cost</b>						<b>\$10,825</b>
<b>16. National Program Support</b>						<b>\$4,469</b>
<b>17. Total Cost of Funded Work (Sum of line 15 and 16) (Required Bid Deposit Amount)</b>						<b>\$15,294</b>
<b>18. Remarks:</b> Combined Total Cost of BD Funded Work: \$15,294 Forest Collection Rate : 8.13% National Collection Rate for Program Support: 41.3% Inflation Rate: 2% Rate Remarks: Mt. Hood Trust Fund Collection Rate Spreadsheet - revised 10/25/10 PPPP does not include the Forest Collection Rate or National Collection Rate for Program Support.						
<b>19. Signature(Prepared by)</b>			<b>Title</b>			<b>Date</b>
<b>20. Signature(Recommended by)</b>			<b>Title</b>			<b>Date</b>
<b>21. Signature (Approved by)</b>			<b>Title</b>			<b>Date</b>

**Brush Disposal Appraisal Allowance**

---

DATE  
8/12/2014

Total Sale Volume CCF **8942**  
Hand Pile Acres **12.5**

Cost to Hand Pile Helicopter Units Per Acre **\$700.00**

Hand Pile Total Cost **\$8,750.00** **Per CCF**  
**\$0.98**

**Deposit** BD PLAN **\$15,294.00** **\$1.71**  
**Appraisal TEA** **\$2.69**

# Logging Cost Summary - Estimated Stump To Truck Cost Results

## Summary By Logging System and Sale

Logging System	Vol Type	Total Volume	Stump-truck \$/vol	Estimated Seasons
<b>Skyline</b>	<i>ccf</i>	1,807	131.81	1
<b>Mechanized</b>				
<i>Mech biomass</i>				
<b>Tractor</b>	<i>ccf</i>	219	128.94	1
<b>Shovel</b>				
<b>Helicopter (1)</b>	<i>ccf</i>	6,916	306.55	2
<b>Sale-as-a-whole</b>		8,942	266.89 ← <i>sawtimber basis</i>	

ovhd=6.18/ccf or 11.89/mbf, p&r=2% of costs included (except helicopter)

<b>Bio stump-truck \$</b>		<b>Estimated total number <i>operating</i> days for sale</b>	132
<b>Include bio stump-truck in mech sys?</b>	<input type="checkbox"/>	<b>Variable shutdown cost (all systems, if any) \$/vol</b>	
		<b>Include variable shutdown in system costs?</b>	<input type="checkbox"/>
<b>Biomass haul cost</b>	<input type="checkbox"/>		

EK 7/1/14

**Include Chipper?**

**Hours Used**

**Haul-\$'s**

Select *helicopter alternative*

**Helicopter (1)**

Sale: **Mule SBA**  
Date: **6/262014**

LogCost ver **14.0**  
1/14/2014

**Report summary**  
**table above in tons?**



# Trucking Appraisal - APPRAISAL SUMMARY

HaulCost ver 14.0

Sale name: Mule SBA

Geo. area: OR

Date: 04-Aug-14

Cost type	Average trip rtm's	CCF per load	Tot rtm's per day	Total OT rtm's	CCF vol per day	Gross cost per day	Net cost per day	Net cost per ccf	Net \$/ccf w/inflation
<i>w/o scale</i>	185.0	8.0	582.0	102.0	25.17	\$425.66	\$425.66	\$16.91	17.59
<i>with scale</i>									

years inflation = 1.0

Include scale cost in final haul cost

*no scaling selected on DATA INPUT screen*

Total haul cost, \$/ccf = **\$17.59**

*Sale or Haul Narrative*

Haul appraised to Odell, OR

120 minutes

Volume Type...

CCF

# TEMPORARY ROAD COST WORKSHEET

Sale Name : Mule SBA

Sale vol. (CCF) 8942      Total miles 0.11  
 Total cost all roads \$ 1,574.00      Cost per CCF \$ 0.18

**Unit 44 off of rock pit along rd 1340**

LENGTH OF TEMPORARY ROAD CONSTRUCTION: 600 (Feet)

EXCAVATION	<span style="border: 1px solid black; padding: 2px;">\$ 4,000.00</span>	Per Mile	x	<span style="border: 1px solid black; padding: 2px;">0.11</span>	Miles	=	<span style="border: 1px solid black; padding: 2px;">\$ 440.00</span>
CLEARING	<span style="border: 1px solid black; padding: 2px;">\$ 4,000.00</span>	Per Mile	x	<span style="border: 1px solid black; padding: 2px;">0.11</span>	Miles	=	<span style="border: 1px solid black; padding: 2px;">\$ 440.00</span>
SPOT ROCK	<span style="border: 1px solid black; padding: 2px;">\$ 40.00</span>	Per Yard	x	<span style="border: 1px solid black; padding: 2px;">0</span>	Yards	=	<span style="border: 1px solid black; padding: 2px;">\$ -</span>
HAUL	<span style="border: 1px solid black; padding: 2px;"></span>	Per CuYd	x	<span style="border: 1px solid black; padding: 2px;"></span>	Haul Miles	x	<span style="border: 1px solid black; padding: 2px;"></span> \$ per Mile = <span style="border: 1px solid black; padding: 2px;">\$ -</span>
PLACE AND PROCESS	<span style="border: 1px solid black; padding: 2px;"></span>	Per Mile	x	<span style="border: 1px solid black; padding: 2px;"></span>	Miles	=	<span style="border: 1px solid black; padding: 2px;">\$ -</span>
PILING	<span style="border: 1px solid black; padding: 2px;"></span>	Per Mile	x	<span style="border: 1px solid black; padding: 2px;"></span>	Miles	=	<span style="border: 1px solid black; padding: 2px;">\$ -</span>
OTHER	<span style="border: 1px solid black; padding: 2px;">Mobilization</span>						<span style="border: 1px solid black; padding: 2px;">\$ 100.00</span>
SUBTOTAL	.....						<span style="border: 1px solid black; padding: 2px;">\$ 980.00</span>

OH & DEP 0.30 (Factor) x \$ 980.00 Subtotal = \$ 294.00

TEMP ROAD CLOSURES 1 X \$ 300 each = \$ 300.00

OTHER

**Temp road closure costs are covered in the Erosion Control Plan.**  
**Overhead and depreciation are included in the costs per mile.**      **TOTAL COST :** \$ 1,574.00