BUCK T.S.

Unit Volumes

Unit #	Acres	MBF	CCF	Tons	DXD	DTR's	Logging Systems
1	7	117	231	655	17'	NA	S
11	1	17	33	94	17'	NA	S
2	15	250	496	1406	17'	NA	S-9ac, GB-6ac
3	28	467	926	2627	21'	NA	GB - 12 ac, S-16 ac
40	13	265	517	1467	17'	Yes - 1	S-9ac, GB-4ac
41	1	27	51	145	NA - GAP	NA	GB
42	3	80	152	431	NA - GAP	NA	S
43	2	53	101	286	NA - GAP	NA	S-1ac, GB-1ac
50	16	902	1441	4088	27'	Yes-6	S
51	2	112	180	511	NA - GAP	NA	S
60	31	321	640	1815	15'	Yes-4	S
61	3	80	152	431	NA - GAP	NA	S
62	2	53	101	286	NA - GAP	NA	S
70	15	156	309	877	13'	NA	S
Totals	**139**	**2900**	**5330**	**15119**			

Avg. DBH 12.0"
205 - 91%
263 - 9%

S -115 acres
GB - 24 acres

USDA - FOREST SERVICE
Stewardship: N

REPORT OF TIMBER SALE
APPRAISAL SUMMARY CCF

R6-FS-2400-17 (04/10)
Version 1341 (TEA 10-13)

Region: 06
Forest: 18 Willamette
District: 01 McKenzie River
Salvage: N

Sale Name: Buck
Sale Number: 38293
Appraise to: Springfield
Appraiser: Shadie Nimer

Appraisal Date: 11/13/13
Base Period Ending: 09/30/13
Competition Factor: 10%
Essential KV Cost: 36,490

SELLING PRICES	1	2	3	4	5	6	7	Average	Total
1. Species	D-fir								
2. Species Code	205								
3. Product/Unit	01-03								
4. Volume	5,330								5,330
5. Base Period Price	52.52*							52.52	
6. Base Period Index	208.30							208.30	
7. Current Index	208.30							208.30	
8. Rapid Market Adj	5.20							5.20	
9. Market Adj BP Price	57.72							57.72	
10. Unusual Adjustment									
11. GBCv-Nonsaw Adj									
12. Product Quality Adj	12.53							12.53	
13. Adj Base Period Price	70.25							70.25	374,432.50

COSTS	Zone Avg Cost/UM	Est Sale Cost/UM	Adj to BP Cost
14. Stump to Truck	144.52	135.62	8.90
15. Haul/Scale	33.34	41.44	-8.10
16. Road Maintenance	9.72	4.71	5.01
17. Contract	11.76	17.40	-5.64
18. Development & Other	3.03	10.60	-7.57
19. Road Const & Recon		11.34	-11.34
20. Total (lines 14-19)	202.37	221.11	-18.74

ROADS	Km	Miles	Cost
Specified Road Con			
Specified Road Rec	7.81	4.85	60,416
Temporary Road Con			
Haul Miles		60	

	Br Disp/UM	Rd Mtc/UM	C(T)5.213#
DEPOSITS:	12.75	.54	7,835.00

ADVERTISED RATES	1	2	3	4	5	6	7	Average	Total
21. Predicted Bid Rate	51.51							51.51	274,548.30
22. Competition Adjustment	5.15							5.15	27,449.50
23. Property Value									
24. Indicated Adv Rate	46.36							46.36	247,098.80
25. Base Rate	7.10							7.10	37,843.00
26. Adjustment									
27. Advertised Rate	46.36							46.36	247,098.80

CCF to MBF Rate Factors:	1.8379	1.8379	
CCF to MBF Volume Factors:	.5441	.5441	
MBF to CCF Index Factors:	.52		
CCF Base Index for A(T)5a:			
CCF Wtd Avg Del Log Price:	338.05		
MBF Volume:	2,900		2,900
Total Tons Removed:	15,119		15,119

Net CCF to Tons Conversion Factor for C8.3#(Option 1) or K-I.3.1#: 2.8366 DEPOSITS/Ton BD: 4.49 RM: .19

Conversion of CCF "tea.tim" file to TONS, for use in TIM when TONS is the Unit of Measure in A2

(rev. 2-11-05)

INSTRUCTIONS FOR USE

Net CCF to TONS Conversion Factor for use in C8.3# (Opt 1) **2.8366**

Forest: **Willamette**
District: **McKenzie River**

Sale Name: **Buck**
Date: **November 1, 2013**

Volume or Rate Category	Appraisal Species or Groups from Appraisal Summary							Total or Weighted Average
NET CCF Vol.	5,330							5,330
Total TONS Rem.	15,119							15,119
CCF Advertised Rate	46.36							
TONS Advertised Rate	16.34							16.34

Convert BD and Rd Mtn Deposits to TONS

LOAD THE CONVERTED TEA.TIM FILE INTO TIM, OR direct enter FOR ALL SPECIES AND PRODUCTS the following data into the "Display/Enter Appraisal Results (ADVR109)" screen in TIM:

Ind. Adv Rates	Base Rates	Advertised Rates	Fixed Rates (N or Y)	Specified Road Cost	Escalation Type	TSA Index Code	TSA Species	Base Index	Timber Prpty Rate	Rollback Rate
16.34	2.51	16.34	N	3.48	FLAT RATE	205	DF	NA	0.00	1.82

INSTRUCTIONS FOR USE **(see cell comments for more information)**

1. Fill out header information, Forest, District, Sale Name, Date.
2. Click on the "Load TEA.TIM File" button to load the tea.tim file for the sale. The file needs to be on the "L" drive to load, not in a file on the "L" drive.
3. Enter NET CCF volume from line 4 on the Appraisal Summary.
4. Enter Total Tons Removed by species and products from data in NATCRS.
5. Click on the "Create New TEA.TIM File" button to create the "TONS" tea.tim file. This loads to the users' "L" drive. Copy the file to the location on the "J" drive, or other default location, for loading into TIM.
6. LOAD THE CONVERTED TEA.TIM FILE INTO TIM, OR direct enter FOR ALL SPECIES AND PRODUCTS the converted data from the table into the "Display/Enter Appraisal Results (ADVR109)" screen in TIM.
7. Print screen for documentation and place in sale folder.

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Conversion Factor

Total TONS Removed / Total Net CCF Volume = Conversion Factor (x.xxxx format)

VOLUME CONVERSION

CCF to TONS: Total NET CCF volume X Conversion Factor = # of TONS
TONS to CCF: Total TONS Removed / Conversion Factor = CCF NET Volume

RATE OR COST CONVERSION

$/CCF to $/TONS: $/CCF / Conversion Factor = $/TON Cost or Rate
$/TON to $/CCF: $/TON X Conversion Factor = $/CCF Cost or Rate

Conversion of DEPOSITS from $/CCF to $/TON

$/CCF Rate / Conversion Factor = $/TON Rate

Brush Disposal Rate $/CCF:	$12.75	Brush Disposal Rate $/TON:	$4.49
Road Mtn Rate $/CCF:	$0.54	Road Mtn Rate $/TON:	$0.19

DEVELOPMENT AND OTHER									**5330**	**CCF**	11/13/13
					Buck						7:48:23
			$/HR.								
DIRECTIONAL CUTTER			**36.27**								
TREE PULLER OPERATOR			**17.26**								
HIGH CLIMBER			**18.27**						**$/ROCK COST**		
RIGGING PERSON			**15.51**						25	# OF LANDINGS	
FLAGGER			**10.96**						4	# CU. YD./LANDING	
DUMP TRUCK			**75.00**						36.65	$/CU.YD. DELIVER.	
LOADER (WHEELED)			**61.54**						3,665	TOTAL	
CLAMSHELL			**120.00**					>>>	**0.69**	$/CCF	
GRADER			**120.00**								
FRONT-END LOADER			**92.00**						**$/TEMP. SPUR COST**		
HOOK TENDER			**19.47**						15,000	COST/MI. TEMP. SPUR	
RIGGING SLINGER			**18.11**						1.78	TEMP. SPUR MI.	
CHASER			**16.75**						26,700	TOTAL	
LOADING COST			**79.51**					>>>	**5.01**	$/CCF	
$/Filter clothe&Rock	*	**$/ TREE**	*********	*	**$/FLAGGERS**			****	**********	**********	**********
									$/END HAUL 1/		
26.65	$/cu.yd.dlvd	**79.51**			**10.96**				0	units of landing slash	
1.00	$/sqyd/clothe								5.00	LOADS (1 Units each)	
					8	hr/day			4	MI. AVE. HAUL	
					30	days			1	TRIPS/LOAD	
0	cu.yd.								**0.00**	TRIPS@1HR/ea.	
0	sq.yd									(& sorting of product)	
									55.00	COST/HR. CLMSHL	
									16.75	COST/HR. OPER.	
									35.00	COST/HR. DTRUCK	
									106.75	TOTAL COST/HR.	
									0.00	TOTAL	
								>>>	**0.00**	$/CCF	
**********		**********	**********	*	**********	**REHAB. O**			**f Skid Roads**		**********
									120.00	OBILTER. MINS.	
1/ (THESE COSTS REFLECT A SEEDING AND FERTILIZATION,									240.00	REHAB. MINS. 1/	
COST OF $600.00 PER ACRE BASED ON AN AVERAGE									310	MOVE IN/OUT MINS.	
CALCULATION OF THE SKIDTRAILS THAT MAY NEED TO BE									670.00	TOTAL MINS.	
REHABILITATED FOR THIS SALE AND THE TIME ALLOWED.									11.17	TOTAL HRS.	
									1192.40	TOTAL COST	
		0	LOGS*		**2**	FLAGGERS					
0								>>>	**0.22**	$/CCF	
0		**79.51**			**10.96**						
0.00		**0.00**			**5260.80**						
0.00		**0.00**			**0.99**						
								>>>	**6.91**	**TOTAL COST/CCF**	

Sale Name: **Buck TS**

Truck Assist Worksheet

Approximately 2514 ccf from units 50 and 60 will need truck assist due to the 25% road grade.

2514	ccf vol ÷	8	ccf/load =	314	Total # of Loads		
20	RTM/mle X	0.7	miles assist is needed =	14	minutes of actual assist		
				10	minutes to hookup/unhook		
				24	total minutes/load		
24	min/load X	314	total loads ÷	60	min/hour =	125.6	hours
125.6	hours X	$50.00	/hr assist equipment =	$6,280.00	Truck assist		
Move-in and move-out @ $500 each way X 3 seasons =				$3,000.00			
				$9,280.00	**Total Truck Assist Costs**		

9280 ÷ 2514 CCF = 3.69 /CCF

to be added to the Develop and Others worksheet

PRODUCT QUALITY ADJUSTMENT - OREGON WESTSIDE

Use with Appraisal Update #09-13

Sale Name: **Buck Timber Sale** Date: 30-Oct-13 (mm/dd/yy)

Species Group #1	Minimum Dia - dib	Representative Grade*	Log price $/mbf avg**	Volume MBF	Volume CCF	Log price $/ccf avg	Adjustment Dollars
205	5.0" - 7.99"	#4 sawmill	557.00	523	1,061	274.56	-44.36
	8.0"-11.99"	#3 sawmill	635.00	1,123	2,236	318.92	0.00
	12.0"-17.99"	#2 sawmill	644.00	652	1,069	392.79	73.87
	18.0" - 30.0"	special mill	746.00	341	471	540.10	221.18

Chip Values, $/ccf

$/ton Avg	Avg lb per cf	Volume CCF
25.00		

BPP for chips = **0.00** /ccf

(insert as override on TEA input screen under BPP/CCF for products 08 and 20)

Weighted average Product Quality Adjustment (PQA) for Species Group #1 = **15.00** /ccf

Weighted average delivered log price for Species Group #1 = **347.05** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #2	Minimum Dia - dib	Representative Grade*	Log price $/mbf avg**	Volume MBF	Volume CCF	Log price $/ccf avg	Adjustment Dollars
263,264,108	5.0" - 7.99"	#4 sawmill	439.00	90	182	217.09	-41.27
true firs	8.0"-11.99"	#3 sawmill	519.00	113	227	258.36	0.00
spruces	12.0"-17.99"	#2 sawmill	521.00	33	61	281.85	23.50
	18.0" - 24.0"	special mill	521.00				

Weighted average Product Quality Adjustment (PQA) for Species Group #2 = **-12.93** /ccf

Weighted average delivered log price for Species Group #2 = **245.43** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #3	Minimum Dia - dib	Representative Grade*	Log price $/mbf avg**	Volume MBF	Volume CCF	Log price $/ccf avg	Adjustment Dollars
242	< 12.0"	#4 sawmill	camprun				
	12.0"-23.99"	#3 sawmill	767.00			398.84	0.00
	24.0"+	#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 = **0.00** /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)

* Industry grade used to associate minimum dib and delivered log price. Volume comprises mostly the representative grade, but also may include material of other grades.

PRODUCT QUALITY ADJUSTMENT
Combining Species into Appraisal Groups
Determining Weighted Average Delivered Log Price for the Sale
Use with Appraisal Update #09-13

Sale Name: **Buck Timber Sale** Date: **30-Oct-13**

Combining Species into Appraisal Groups (for entry into the TEA input screen)

	Type a "1" into desired cells to combine species into an appraisal group							
Geographic Area	Species Group #1	Species Group #2	Species Group #3	Species Group #4	Species Group #5	Species Group #6	Combined Prod Qual Adj	Combined Del Log Price
Ore West	1	1					12.53	338.05
Ore East								
Wash West								
Wash East								

Determining Weighted Average Delivered Log Price for the Sale (for use in analyzing advertised rates)

	Type a "1" into all cells with volume						
Geographic Area	Species Group #1	Species Group #2	Species Group #3	Species Group #4	Species Group #5	Species Group #6	Wt Avg Delivered Log Price for the Sale
Ore West	1	1					338.05
Ore East							
Wash West							
Wash East							

Enter the Combined Product Quality Adjustment on the TEA input screen under PQA/CCF for the main species in the appraisal group. Enter the Del Log Price under Log Pr/CCF on the TEA input screen for the main species in the appraisal group. Use the weighted average delivered log price for the sales to analyze advertised rates, per R6 FSH 2409.22 Appraisal Handbook. **Refer to the PQA User Guide for more information on the calculation and use of delivered log prices.**

***** Click the "Erase" button above to delete all species combination data *****
***** Press the "Delete" key in appropriate cell to erase individual cell input *****

Appraisal Reminder - When combining species, a weighted average Base Period Price needs to be calculated. Use the table below to calculate a weighted average BPP for the appraisal group.

The Erase Data button erases Forest number, Salvage, and Species Code and Species Volume (CCF) in the table.

Forest number = 18
Salvage?? = 1 (1=no, 2=yes)
Appraisal zone = 5

Appraisal Update #09-13

teacost.dat file (TEA 09-13)

The Appraisal Update # and teacost.dat file date **MUST BE THE SAME** in calculating a weighted

Species BPP Weighting Table

Species Code	Species Vol (CCF)	BPP from TEACOST.DAT
205	3,794.00	56.64
263	1,536.00	42.34
Total or Avg	5,330.00	52.52

MBF Volume Table

Species Code	Species Vol (MBF)
205	2,064.00
263	836.00
Total	2,900.00

Enter MBF volume from Species Group

Logging Cost Summary - Estimated Stump To Truck Cost

Summary By Sale And Logging System

Logging System	Vol Type	Total Volume	Stump-truck $/vol	Estimated Seasons
Skyline	*ccf*	4,474	142.47	3
Mechanized		0	0.00	0
Tractor	*ccf*	856	99.84	3
Shovel		0	0.00	0
Helicopter (1)		0	0.00	0
Sale-as-a-whole		5,330	135.62	

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

	$/saw timber		
Est biomass cost		Estimated total number operating days for sale	166
Include biomass in sale-as-a-whole?		Variable shutdown cost (all systems, if any) $/vol	
		Include variable shutdown in sale-as-a-whole?	Yes

Include Chipper?

Hours Used

Haul-$'s

Select helicopter alternative **Helicopter (1)**

Sale: **Buck**
Date: **10/31/13**

LOGCOST Version 12.02

Report summary table above in tons

HaulCost Appraisal - APPRAISAL SUMMARY

Version 8, Excel 2010, 3/19/2012

Sale name: **Buck** Geo. area: ***OR*** Date: **31-Oct-13**

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
w/o scale									
with scale	350.0	6.0	582.0	102.0	9.98	392.74	413.42	41.44	

<<Scaling cost is included in the total haul cost below>>

265 minutes

Include scale cost in final haul cost: **Yes**

Total haul cost, $/ccf = $41.44

Volume Type... **CCF**

Sale or Haul Narrative

Scale cost: $42.70