

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
Skyline	ccf	7,694	113.98	3
Mechanized <i>Mech biomass</i>				
Tractor	ccf	2,822	108.27	3
Shovel				
Helicopter				
Sale-as-a-whole		10,516	112.45	← sawtimber basis

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

Bio stump-truck \$	Estimated total number <i>operating</i> days for sale	221
Include bio stump-truck in mech sys?	Variable shutdown cost (all systems, if any) \$/vol	
	Include variable shutdown in system costs?	
Biomass haul cost		

Include Chipper?

Hours Used

Haul-\$'s

Select helicopter alternative

Sale: HyWah
Date: 7/3/13

LogCost ver 13.1
8/1/2013

Report summary
table above in tons?



Estimated Purchaser Cost:

The total estimated purchaser cost is estimated at \$16,636.68 or \$75.97 per acre for the 219 acres. This was estimated by the following and calculated on the spread sheet below.

Covering and re-piling of the landing piles with one laborer at \$19.92 at 1 hour per day for 304 days for hand piling, covering, redistribution and restacking is \$6,055.68. One Loader with operator at \$95.00 per hour for 100 hours is \$9,500. Pile covering, chain saw fuel, 2 cycle oil and bar oil is estimated at \$925.00. With 32 rolls of visqueen at \$26.00 per roll for \$832.00, 10 gallons saw fuel at \$4.00 a gallon for \$40.00, 1- 6/2.6 fl oz of 2 cycle mix at \$14.00 per 6 for \$14.00 and 3 gallons of bar oil at \$13.00 per gallon for \$39.00.

Direction felling for was calculated at \$156.00 for an estimated 30 acres.

Road Name	new const	reconst	reopen	total ft	Subdivision	Travel Way	Rock Depth	CY Rock	Culverts
T1	315		355	670	49B	12	9	251	1
T2		320		320	49D	12	6	77	1
T3		350		350	49H	12	12	181	2
T4	300			300	S9C	12	12	156	1
T5			280	280	49	12	6	67	1
Safety	329		84	413	48A, S9	12	12	214	4
	615	670	635	1920			Totals =	733	10
Miles	0.12	0.13	0.12	0.36					

Average Rock Haul for pit run one way is 4.0 miles(2900015, milepost 0.1)
Average Rock Haul for crushed one way is 0 miles, na

New construction - as shown in above table. Use cost of \$45,000/mi from past district experience.

Reconstruction of existing grade includes some removal of timber , debris removal, drainage restoration, culvert placement, blading and shaping. Rock as shown in above table. Use cost of 70 % of new const

Reopening of existing grade includes some removal of brush, debris removal, drainage restoration, pit run and/or crushed rock placement as shown in above table, blading and shaping Use cost of 50 % of new const

Clearing limits will not exceed 16 feet unless otherwise designated.

New construction temp 0.12 miles			
0.12 miles X \$	45,000	\$5,400	
crushed x \$	0	\$0.00	
Reconstruction of temp rd 0.13 miles			
0.13 miles x \$	31,500	\$4,095	
Reopening of temp rd 0.12 miles			
0.12 miles x \$	22,500	\$2,700	
Total =		\$12,195	

Estimated CY of Rock Needed

Temp. roads:	Pit Run	Crushed	
All	733	0	
other	67		Landings & short access spurs
Total	800		

Culverts \$450/culvert \$4,500.00
10 culverts may be needed as relief culverts and will be of varying sizes
Placement of the culverts will be determined as described in
Sensitive Construction of temp roads (C5.1, Option 1)

Rock Haul

	yards	loads	\$/load	Cost
HLndg Pit Run	800	80	\$82.00	\$6,560.00
Pit Run	0	0	\$82.00	\$0.00
Crushed	0	0	\$82.00	\$0.00
Total				\$6,560.00

\$/load = 8 miles RndTrip, 8 @ 20 mph = 24 minutes RndTrip
round to 30 minutes
2 loads every 1 hour
dump + excavator (half time) = \$164/hr
\$164/2 = \$82/load

Close Temp Roads - includes culvert removal, barrier placement, scarification on new construction only. Seeding and fert is included in the erosion control appraisal:

Approximately 2000 feet per day estimated.

Allow 2 days to use shovel to close roads at \$1500/day includes pr and r etc

\$3,000

2 days allowed due to distance between roads

total \$26,255.00

cost per CCF = \$2.50

USDA - FOREST SERVICE
Stewardship: N

REPORT OF TIMBER SALE
APPRAISAL SUMMARY CCF

R6-FS-2400-17 (04/10)
Version 1331 (TEA 07-13)

Region: 06
Forest: 09 Olympic
District: 05 Soleduck
Salvage: N

Sale Name: HyWah
Sale Number: 35100
Appraise to: Beaver, WA
Appraiser: McNealy

Appraisal Date: 08/25/13
Base Period Ending: 06/30/13
Competition Factor: 20%
Essential KV Cost: 0

SELLING PRICES	1	2	3	4	5	6	7	Average	Total
1. Species	D-fir	W Hem	Alder						
2. Species Code	205	263	350						
3. Product/Unit	01-03	01-03	01-03						
4. Volume	4,310	6,011	195						10,516
5. Base Period Price	51.38	26.39	85.13					37.72	
6. Base Period Index	200.86	176.05	88.40					184.59	
7. Current Index	200.86	176.05	88.40					184.59	
8. Rapid Market Adj	5.20	2.60						3.62	
9. Market Adj BP Price	56.58	28.99	85.13					41.34	
10. Unusual Adjustment	-.09	-.11						-.10	
11. GBCv-Nonsaw Adj									
12. Product Quality Adj	15.00	11.26	-15.00					12.31	
13. Adj Base Period Price	71.49	40.14	70.13					53.54	563,078.79

COSTS	Zone Avg Cost/UM	Est Sale Cost/UM	Adj to BP Cost	ROADS	Km	Miles	Cost
14. Stump to Truck	117.68	112.45	5.23	Specified Road Con	2.50	1.55	398,094
15. Haul/Scale	29.89	24.71	5.18	Specified Road Rec			
16. Road Maintenance	9.76	7.89	1.87	Temporary Road Con	.58	.36	26,255
17. Contract	4.67	7.51	-2.84	Haul Miles		20	
18. Development & Other	4.93	6.83	-1.90				
19. Road Const & Recon		37.86	-37.86				
20. Total (lines 14-19)	166.93	197.25	-30.32	DEPOSITS:	Br Disp/UM 4.07	Rd Mtc/UM 1.28	C(T)5.213# 14,995.16

ADVERTISED RATES	1	2	3	4	5	6	7	Average	Total
21. Predicted Bid Rate	41.17	9.82	39.81					23.22	244,233.67
22. Competition Adjustment	8.23	1.96	7.96					4.64	48,805.06
23. Property Value									
24. Indicated Adv Rate	32.94	7.86	31.85					18.58	195,428.61
25. Base Rate	3.00	3.00	1.00					2.96	31,158.00
26. Adjustment									
27. Advertised Rate	32.94	7.86	31.85					18.58	195,428.61

CCF to MBF Rate Factors: 1.7951 1.8304 1.9898 1.8184
 CCF to MBF Volume Factors: .5571 .5463 .5026 .5499
 MBF to CCF Index Factors: .52 .52 .52
 CCF Base Index for A(T)5a:
 CCF Wtd Avg Del Log Price: 376.88 302.86 321.66
 MBF Volume: 2,401 3,284 98 5,783
 Total Tons Removed: 12,760 19,390 575 32,725
 Net CCF to Tons Conversion Factor for C8.3#(Option 1) or K-I.3.1#: 3.1119 DEPOSITS/Ton BD: 1.31 RM: .41