



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
John Day/ Walluski
Salvage No. 2
Sale 341-08-91

District: Astoria

Date: March 21, 2008

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$188,826.75	\$0.00	\$188,826.75
		Project Work:	\$0.00
		Advertised Value:	\$188,826.75



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timber description

Location: Portions of Sections 13, 24, 27, 33, and 34, T8N, R9W, and portions of Section 3, T7N, R9W, W.M., Clatsop County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	28	0	92
Western Hemlock / Fir	27	0	94
Sitka Spruce	54	0	87

Volume by Grade	2S	3S	4S	SM	Total
Douglas - Fir	64	29	30	0	123
Western Hemlock / Fir	2,956	212	28	130	3,326
Sitka Spruce	168	54	0	0	222
Total	3,188	295	58	130	3,671



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comments: Pond Values Used: 4th Quarter Calendar Year 2007.

Expected Log Markets: Tillamook, OR and Longview, WA

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
\$720/MBF = \$1,000/MBF - \$280/MBF

Red Alder Stumpage Price = Pond Value minus Logging Cost
\$345/MBF = \$625/MBF - \$280/MBF

OTHER COSTS (Profit & Risk to be added):

Additional Logging Costs:

Felling and Bucking	\$30/MBF x 3,671 MBF = \$110,130
Branding and Painting	\$1/MBF x 3,671 MBF = \$3,671

TOTAL OTHER COSTS (Profit & Risk to be added) = \$113,801

OTHER COSTS (No Profit & Risk included)

Slash Piling in Areas 1 and A: \$120/hour x 15 hours (excavator) or
\$87.50/hour x 20.6 hours (log loader) = \$1,800

Slash Piling in Areas 2, 3, and B: \$120/hour x 85 hours
(excavator) or \$87.50/ hour x 116.6 hours (log loader) = \$10,200
Slash Piling equipment move-in: 2 times x \$1,101/move = \$2,202

TOTAL OTHER COSTS (No Profit & Risk to be included): \$14,202



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logging conditions

combination#: 1 Douglas - Fir 76.00%
 Western Hemlock / Fir 76.00%
 Sitka Spruce 76.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Track Skidder **Process:** Manual Falling/Delimiting

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 8.0 **bd. ft / load:** 4,500

cost / mbf: \$95.57

machines: Log Loader (B)
 Track Skidder

combination#: 2 Douglas - Fir 14.00%
 Western Hemlock / Fir 14.00%
 Sitka Spruce 14.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Track Skidder **Process:** Manual Falling/Delimiting

tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF

loads / day: 5.0 **bd. ft / load:** 3,000

cost / mbf: \$229.36

machines: Log Loader (B)
 Track Skidder

combination#: 3 Douglas - Fir 10.00%
 Western Hemlock / Fir 10.00%
 Sitka Spruce 10.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process:** Manual Falling/Delimiting

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 4.0 **bd. ft / load:** 3,000

cost / mbf: \$225.08

machines: Log Loader (A)
 Tower Yarder (Small)



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logging costs

Operating Seasons:	1.00	Profit Risk:	20.00%
Project Costs:	\$0.00	Other Costs (P/R):	\$113,801.00
Slash Disposal:	\$0.00	Other Costs:	\$14,202.00

Miles of Road

Road Maintenance: \$2.23

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	3.0
Western Hemlock / Fir	\$0.00	2.0	4.5
Sitka Spruce	\$0.00	2.0	5.0



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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$127.25	\$2.41	\$1.19	\$69.99	\$31.00	\$46.37	\$0.00	\$2.00	\$3.87	\$284.08
Western Hemlock / Fir									
\$127.25	\$2.36	\$1.19	\$68.70	\$31.00	\$46.10	\$0.00	\$2.00	\$3.87	\$282.47
Sitka Spruce									
\$127.25	\$2.52	\$1.19	\$65.91	\$31.00	\$45.57	\$0.00	\$2.00	\$3.87	\$279.31

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$419.47	\$135.39	\$0.00
Western Hemlock / Fir	\$0.00	\$328.67	\$46.20	\$0.00
Sitka Spruce	\$0.00	\$362.70	\$83.39	\$0.00



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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Sitka Spruce	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	123	\$135.39	\$16,652.97
Western Hemlock / Fir	3,326	\$46.20	\$153,661.20
Sitka Spruce	222	\$83.39	\$18,512.58

Gross Timber Sale Value

Recovery: \$188,826.75

Prepared by: Jay Morey

Phone: 503-325-5451

subsequent storms. Standing wind-firm trees within intact stream buffers and large contiguous patches of wind-firm standing trees will be reserved.

Area B – These stands were a reforestation progeny site, approximately 30 to 35 years old, consisting of mainly Douglas-fir with a minor component of western hemlock and other mixed conifer. Wind storms have damaged these stands in several isolated contiguous patches. These stands will be harvested removing blown down timber and root sprung trees which will be whole tree yarded and processed at a common landing location. Trees within intact stream buffers and contiguous patches of wind-firm standing trees will be reserved.

7. **Statistical Analysis and Stand Summary:** A statistical analysis was not calculated. See attached spreadsheet.

8. **Volumes by Species and Sale Areas:** Volumes do not include "in-growth". The total net MBF volumes by species and grade are as follows:

Species	DBH	Net. Vol.	SM	2 Saw	3 Saw	4 Saw	Sale%
Douglas-fir	28"	123	0	64	29	30	3
W. Hemlock / True Fir	27"	3,326	130	2,956	212	28	91
S. Spruce	54"	222	0	168	54	0	6
Totals		3,671					

Defect and breakage was estimated at 25 percent.

9. **Approvals:**

Prepared by: Jay Morey
Dan Goody

Date: February 20, 2008
3/12/08

10. **Attachments:**

Volume Calculation Spreadsheet (1 page)
Species, Sort Grade Report (1 page)

Cruise Volume Calculations John Day/ Walluski Salvage No. 2 (341-08-91)
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Volumes (MBF)

Area 1 (John Day Point Thinning Area 1) - Leave ¹	2,551
Volume Previously Salvaged (John Day Point Thinning Area 1) ²	-700

Area 1 Existing Volume (Blow down, leaning, and scattered standing trees)	1,851
Area A Estimated Salvageable Volume	20

Area 2 (Walluski SI Areas II, III, and IV) - Leave ¹	4,042
Area 3 (Walluski SI Area I) - Leave ¹	502
Volume Previously Salvaged (Walluski SI Areas I, II, III, and IV) ²	-1,550

Areas 2 and 3 Existing Volume (Blow down, leaning, and scattered standing trees)	2,994
Area B Estimated Salvageable Volume	30

Total Volume	4,895
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Total Volume (Less Damage and Breakage -25%)	3,671 MBF
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¹ Original cruise data taken from the John Day Point Thinning (341-04-03) and Walluski Stand Improvement (341-00-03) timber sales

² Taken from ODF log accountability data of previous salvage sales conducted within these areas

TC PSCPSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
T08N R09W S13 TyJD1A 26.00		Project: JDWSALV		Page 1															
T08N R09W S13 TyJD01 48.00		Acres 228.00 N/A		Date 3/1/2007															
T08N R09W S13 TyWA01 154.00				Time 3:32:31PM															
Spp	S So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log			Logs Per /Acre	
			Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf		
							4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
H	DOCU		100.0	1,583											13		0.00	7.7	
H	DO2S	88	81.6	27,953	5,155	1,175		0	35	65		3	60	37	34	75	2.48	68.3	
H	DO3S	7	81.9	2,036	368	84		100				3	29	52	16	31	14	0.90	26.6
H	DO4S	1	81.1	266	50	11		7	93			52	48		19	6	0.64	7.9	
H	DOSM	4	81.2	1,218	229	52				100				100	34	117	2.93	1.9	
H Totals		89	82.4	33,055	5,802	1,323		0	7	31	61	1	5	61	34	31	52	1.96	112.4
S	DOCU		100.0	231											6		0.00	.4	
S	DO2S	96	81.8	2,604	475	108			0	100		0	13	23	64	34	288	8.86	1.6
S	DO3S	4	82.6	98	17	4			100			15	44	42	25	39	3.00	.4	
S Totals		8	83.2	2,932	492	112			4	96		1	14	24	61	28	198	7.63	2.5
D	DO2S	90	81.1	909	172	39			37	63			37	63	35	84	2.68	2.1	
D	DO3S	10	81.1	95	18	4		100					100		33	18	0.91	1.0	
D Totals		3	81.1	1,004	190	43		9	33	57			43	57	34	62	2.11	3.1	
Totals			82.5	36,991	6,484	NA 1,478		0	7	29	64	1	5	57	37	31	55	2.08	118.0

Percentages used for distribution of Species and sort grade, used from John Day/Walluski Salvage (341-07-86)