



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
U-Falls Incline
Sale 341-09-22

District: Forest Grove

Date: July 07, 2008

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,458,280.92	\$52,265.00	\$1,510,545.92
		Project Work:	\$(271,000.00)
		Advertised Value:	\$1,239,545.92



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timber description

Location: Portions of Sections 3, 4, and 10, T1N, R6W, W.M., and portions of Section 33, T2N, R6W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	98
Western Hemlock / Fir	12	0	98
Alder (Red)	12	0	95

Volume by Grade	2S	3S	4S	Camprur	Total
Douglas - Fir	1,277	2,615	1,898	0	5,790
Western Hemlock / Fir	0	0	16	0	16
Alder (Red)	0	0	0	125	125
Total	1,277	2,615	1,914	125	5,931



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comments: Pond Values Used: 2nd Quarter Calendar Year 2008.

Western redcedar Stumpage Price = Pond Value minus Logging Cost
 $\$893/\text{MBF} = \$1,075/\text{MBF} - \$182/\text{MBF}$

SCALING COST ALLOWANCE = $\$5.00/\text{MBF}$

FUEL COST ALLOWANCE = $\$4.50/\text{Gallon}$

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):

Brand and Paint: $\$1/\text{MBF} \times 5,931 \text{ MBF} = \$5,931$

Tree topping in Areas 2 and 4: $250 \text{ trees} \times \$40/\text{tree} = \$10,000$

TOTAL Other Costs (with Profit & Risk to be added) = $\$15,931$

Other Costs (No Profit & Risk to be added):

Blocking and Waterbarring of skid roads: $10 \text{ hours} @ \$110/\text{hour} = \$1,100.$

OHV Trail Clearing: $10 \text{ stations} @ \$100/\text{station} = \$1,000$

Firewood Sorting: $12 \text{ hours} @ \$110/\text{hour} = \$1,320$

TOTAL Other Costs (No Profit & Risk added) = $\$3,420$

Mechanical Slash Manipulation: $60 \text{ acres} @ \$150/\text{Acre} = \$9,000$



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logging conditions

combination#: 1

	Douglas - Fir	40.46%
	Western Hemlock / Fir	37.50%
	Alder (Red)	54.72%
yarding distance:	Medium (800 ft)	downhill yarding: Yes
logging system:	Cable: Medium Tower >40 - <70	Process: Stroke Delimber
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	10.0	bd. ft / load: 3,800
cost / mbf:	\$110.00	
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)	

combination#: 2

	Douglas - Fir	24.25%
	Western Hemlock / Fir	20.63%
	Alder (Red)	15.12%
yarding distance:	Medium (800 ft)	downhill yarding: No
logging system:	Cable: Medium Tower >40 - <70	Process: Stroke Delimber
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	10.0	bd. ft / load: 3,800
cost / mbf:	\$88.00	
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)	

combination#: 3

	Douglas - Fir	35.29%
	Western Hemlock / Fir	41.88%
	Alder (Red)	30.16%
yarding distance:	Medium (800 ft)	downhill yarding: Yes
logging system:	Track Skidder	Process: Feller Buncher
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	12.0	bd. ft / load: 3,800
cost / mbf:	\$76.40	
machines:	Log Loader (B) Stroke Delimber (B) Feller Buncher w/ Delimber Track Skidder	



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logging costs

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$271,000.00	Other Costs (P/R):	\$15,931.00
Slash Disposal:	\$9,000.00	Other Costs:	\$3,420.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	4.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	3.8
Western Hemlock / Fir	\$0.00	3.0	3.8
Alder (Red)	\$0.00	2.0	3.5



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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									
\$92.81	\$3.35	\$1.48	\$54.46	\$2.69	\$23.22	\$1.52	\$5.00	\$0.58	\$185.11
Western Hemlock / Fir									
\$91.39	\$3.35	\$1.48	\$54.46	\$2.69	\$23.01	\$1.52	\$5.00	\$0.58	\$183.48
Alder (Red)									
\$96.54	\$3.44	\$1.48	\$91.31	\$2.69	\$29.32	\$1.52	\$5.00	\$0.58	\$231.88

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$436.65	\$251.54	\$0.00
Western Hemlock / Fir	\$0.00	\$300.00	\$116.52	\$0.00
Alder (Red)	\$0.00	\$650.00	\$418.12	\$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
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,790	\$251.54	\$1,456,416.60
Western Hemlock / Fir	16	\$116.52	\$1,864.32
Alder (Red)	125	\$418.12	\$52,265.00

Gross Timber Sale Value

Recovery: \$1,510,545.92

Prepared by: J. Sandmann

Phone: 503-359-7473

PROJECT COST SUMMARY SHEET

Timber Sale: U-Falls Incline
 Sale Number: 341-09-22

PROJECT NO. 1: ROAD CONSTRUCTION AND IMPROVEMENT**CONSTRUCTION**

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>	
A to B	6+60	\$2,361.22	
C to D	18+10	\$8,040.91	
G to H	3+50	\$1,089.05	
I to J	15+60	\$3,733.12	
	43+80 stations		
	0.83 miles		
	<u>SUBTOTAL CONSTRUCTION</u>		\$15,224.30

IMPROVEMENTS

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>	
E to F	31+60	\$5,305.12	
	31+60 stations		
	0.60 miles		
	<u>SUBTOTAL IMPROVEMENTS</u>		\$5,305.12

TOTAL PROJECT NO. 1 COST = **\$20,529.42**

PROJECT NO. 2: SURFACING

<u>Road Segment</u>	<u>Amount</u>	<u>Type</u>	<u>Cost</u>
A to B	475 cy	3" - 0	\$7,994.25
C to D	1,194 cy	3" - 0	\$19,951.74
E to F	1,722 cy	3" - 0	\$28,464.66
G to H	275 cy	3" - 0	\$2,389.75
I to J	1,045 cy	3" - 0	\$15,413.75
Total	4,711 cy	3" - 0	

TOTAL PROJECT NO. 2 COST = **\$74,214.15**

PROJECT NO. 3: STOCKPILE

<u>Road Segment</u>	<u>Amount</u>	<u>Type</u>	<u>Cost</u>
Stockpile	16,000 cy	1 1/2" - 0	\$160,890.00
Total	16,000 cy	1 1/2" - 0	

TOTAL PROJECT NO. 3 COST = **\$160,890.00**

SPECIAL PROJECTS**PROJECT NO. 4: GRASS SEEDING**

Grass seed and fertilize areas of disturbed soil. \$692.00

PROJECT NO. 5: TRAIL RECONSTRUCTION

Reconstruct segment E-F into trail.
 240cy of 3"-0, 10cy of 48"-36". \$10,519.30

TOTAL SPECIAL PROJECTS COST = **\$11,211.30**

MOVE IN **\$4,109.55**

TOTAL ALL PROJECTS **\$270,954.42**
TOTAL CREDITS **\$271,000.00**

SUMMARY OF CONSTRUCTION COST

Timber Sale: U-Falls Incline
Road Segment: A to B

Timber Sale No. : 341-09-22
Construction : 6+60 stations
0.13 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.61	acres @	\$980.00	per acre =	\$597.80
Balanced Road Construction	6.60	sta @	\$90.00	per sta =	\$594.00
Construct Turn Around	1.00	ea @	\$75.00	per ea =	\$75.00
Landing	1.00	ea @	\$285.00	per ea =	\$285.00
Grade, Ditch, and Roll	6.60	sta @	\$28.70	per sta =	\$189.42
TOTAL EXCAVATION COSTS=					\$1,741.22

CULVERTS - MATERIALS & INSTALLATION

Culverts

26 LF of 18" \$442.00
\$442.00

Half Rounds

10 LF of 21" \$168.00
\$168.00

Culvert Markers

1 markers \$10.00

TOTAL CULVERT COSTS = \$620.00

PROJECT NO. 1 TOTAL COST = \$2,361.22

PROJECT NO. 2:

SURFACING

	10	" deep =	58 cy/sta			
A to B	383	cy of	3" - 0	@	\$16.83 per cy =	\$6,445.89
Junction	20	cy of	3" - 0	@	\$16.83 per cy =	\$336.60
Turn Around	16	cy of	3" - 0	@	\$16.83 per cy =	\$269.28
Landing	56	cy of	3" - 0	@	\$16.83 per cy =	\$942.48
Total =	475	cy of	3" - 0			

PROJECT NO. 2 TOTAL COST = \$7,994.25

PROJECT NO. 4:

Grass seed and fertilize areas of disturbed soil. 0.31 acres @ \$200.00 per acre = \$61.00

PROJECT NO. 3 TOTAL COST = \$61.00

TOTAL COST = \$10,416.47

SUMMARY OF CONSTRUCTION COST

Timber Sale: U-Falls Incline
 Road Segment: C to D

Timber Sale No. : 341-09-22
 Construction: 18+10 stations
0.34 miles

PROJECT NO. 1**EXCAVATION**

Clearing and Grubbing (Scatter)	1.66	acres @	\$784.00	per acre =	\$1,301.44
Balanced Road Construction	18.10	sta @	\$90.00	per sta =	\$1,629.00
Construct Turnouts	1.00	ea @	\$60.00	per ea =	\$60.00
Construct Turn Around	1.00	ea @	\$75.00	per ea =	\$75.00
Excavate landing approach	15.00	hrs @	\$145.00	per hr =	\$2,175.00
Drift	3.00	sta @	\$150.00	per sta =	\$450.00
Landing	1.00	ea @	\$285.00	per ea =	\$285.00
Grade, Ditch, and Roll	18.10	sta @	\$28.70	per sta =	\$519.47
TOTAL EXCAVATION COSTS=					\$6,494.91

CULVERTS - MATERIALS & INSTALLATION**Culverts**

70 LF of 18" \$1,190.00
\$1,190.00

Half Rounds

20 LF of 21" \$336.00
\$336.00

Culvert Markers

2 markers \$20.00

TOTAL CULVERT COSTS = \$1,546.00

PROJECT NO. 1 TOTAL COST = \$8,040.91

PROJECT NO. 2:**SURFACING**

	10	" deep =	58 cy/sta			
C to D	1,050	cy of	3" - 0	@	\$16.71	per cy = \$17,545.50
Junction	20	cy of	3" - 0	@	\$16.71	per cy = \$334.20
Curve Widening	24	cy of	3" - 0	@	\$16.71	per cy = \$401.04
Turnouts	28	cy of	3" - 0	@	\$16.71	per cy = \$467.88
Turn Around	16	cy of	3" - 0	@	\$16.71	per cy = \$267.36
Landing	56	cy of	3" - 0	@	\$16.71	per cy = \$935.76
Total =	1,194	cy of	3" - 0			

PROJECT NO. 2 TOTAL COST = \$19,951.74

PROJECT NO. 4:

Grass seed and fertilize areas of disturbed soil. 0.83 acres @ \$200.00 per acre = \$166.00

PROJECT NO. 3 TOTAL COST = \$166.00

TOTAL COST = \$28,158.65

SUMMARY OF CONSTRUCTION COST

Timber Sale: U-Falls Incline
Road Segment: E to F

Timber Sale No. : 341-09-22
Improvement: 31+60 stations
0.60 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	2.90	acres @	\$464.00	per acre =	\$1,345.60
Balanced Road Construction	31.60	sta @	\$70.00	per sta =	\$2,212.00
Construct Turnouts	4.00	ea @	\$60.00	per ea =	\$240.00
Construct Turn Around	1.00	ea @	\$75.00	per ea =	\$75.00
Landing	2.00	ea @	\$285.00	per ea =	\$570.00
Grade and Roll (outslope)	29.60	sta @	\$27.20	per sta =	\$805.12
Grade, Ditch, and Roll	2.00	sta @	\$28.70	per sta =	\$57.40
TOTAL EXCAVATION COSTS=					\$5,305.12

PROJECT NO. 2:

SURFACING

	8	" deep =	46 cy/sta			
E to F	1,454	cy of	3" - 0	@	\$16.53 per cy =	\$24,034.62
Junction	20	cy of	3" - 0	@	\$16.53 per cy =	\$330.60
Curve Widening	36	cy of	3" - 0	@	\$16.53 per cy =	\$595.08
Turnouts	84	cy of	3" - 0	@	\$16.53 per cy =	\$1,388.52
Turn Around	16	cy of	3" - 0	@	\$16.53 per cy =	\$264.48
Landing	112	cy of	3" - 0	@	\$16.53 per cy =	\$1,851.36
Total =	1,722	cy of	3" - 0			

PROJECT NO. 2 TOTAL COST = \$28,464.66

PROJECT NO. 4:

Grass seed and fertilize areas of disturbed soil. 1.45 acres @ \$200.00 per acre = \$290.00

PROJECT NO. 3 TOTAL COST = \$290.00

TOTAL COST = \$34,059.78

SUMMARY OF CONSTRUCTION COST

Timber Sale: U-Falls Incline
Road Segment: G to H

Timber Sale No. : 341-09-22
Construction: 3+50 stations
0.07 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.32	acres @	\$980.00	per acre =	\$313.60
Balanced Road Construction	3.50	sta @	\$90.00	per sta =	\$315.00
Construct Turn Around	1.00	ea @	\$75.00	per ea =	\$75.00
Landing	1.00	ea @	\$285.00	per ea =	\$285.00
Grade, Ditch, and Roll	3.50	sta @	\$28.70	per sta =	\$100.45
TOTAL EXCAVATION COSTS=					\$1,089.05

PROJECT NO. 1 TOTAL COST = \$1,089.05

PROJECT NO. 2:

SURFACING

	10	" deep =	58 cy/sta		
G to H	203	cy of	3" - 0	@	\$8.69 per cy = \$1,764.07
Turn Around	16	cy of	3" - 0	@	\$8.69 per cy = \$139.04
Landing	56	cy of	3" - 0	@	\$8.69 per cy = \$486.64
Total =	275	cy of	3" - 0		

PROJECT NO. 2 TOTAL COST = \$2,389.75

PROJECT NO. 4:

Grass seed and fertilize areas of disturbed soil.	0.16	acres @	\$200.00	per acre =	\$32.00
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PROJECT NO. 3 TOTAL COST = \$32.00

TOTAL COST = \$3,510.80

SUMMARY OF CONSTRUCTION COST

Timber Sale: U-Falls Incline
Road Segment: I to J

Timber Sale No. : 341-09-22
Construction: 15+60 stations
0.30 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	1.43	acres @	\$980.00	per acre =	\$1,401.40
Balanced Road Construction	15.60	sta @	\$90.00	per sta =	\$1,404.00
Construct Turnouts	2.00	ea @	\$60.00	per ea =	\$120.00
Construct Turn Around	1.00	ea @	\$75.00	per ea =	\$75.00
Landing	1.00	ea @	\$285.00	per ea =	\$285.00
Grade, Ditch, and Roll	15.60	sta @	\$28.70	per sta =	\$447.72
TOTAL EXCAVATION COSTS=					\$3,733.12

PROJECT NO. 1 TOTAL COST = \$3,733.12

PROJECT NO. 2:

SURFACING

	10	" deep =	58 cy/sta		
I to J	905	cy of	3" - 0	@	\$14.75 per cy = \$13,348.75
Curve Widening	12	cy of	3" - 0	@	\$14.75 per cy = \$177.00
Turnouts	56	cy of	3" - 0	@	\$14.75 per cy = \$826.00
Turn Around	16	cy of	3" - 0	@	\$14.75 per cy = \$236.00
Landing	56	cy of	3" - 0	@	\$14.75 per cy = \$826.00
Total =	1,045	cy of	3" - 0		

PROJECT NO. 2 TOTAL COST = \$15,413.75

PROJECT NO. 4:

Grass seed and fertilize areas of disturbed soil.	0.72	acres @	\$200.00	per acre =	\$143.00
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PROJECT NO. 3 TOTAL COST = \$143.00

TOTAL COST = \$19,289.87

SUMMARY OF CONSTRUCTION COST

Timber Sale: U-Falls Incline Timber Sale No. : 341-09-22
Road Segment: E to F Trail Reconstruction

PROJECT NO. 5:

EXCAVATION

Trail filter	2.00	hrs @	\$125.00	per hour =	\$250.00	
Trail Reconstruction	20.00	hrs @	\$125.00	per hour =	\$2,500.00	
Rolling Dips	16.00	dips @	\$150.00	per dip =	\$2,400.00	
					TOTAL EXCAVATION COSTS=	\$5,150.00
					PROJECT NO. 4 TOTAL COST =	\$5,150.00

PROJECT NO. 5:

Trail Filter	10	cy of	48" - 36"	@	\$7.97	per cy =	\$79.70
Rolling Dip Surfacing	320	cy of	3" - 0	@	\$16.53	per cy =	\$5,289.60
Total =	10	cy of	48" - 36"				
	320	cy of	3" - 0				
					PROJECT NO. 4 TOTAL COST =	\$5,369.30	

TOTAL COST = \$10,519.30

SUMMARY OF CONSTRUCTION COST

Timber Sale: U-Falls Incline Timber Sale No. : 341-09-22
Road Segment: Stockpile

PROJECT NO. 3:

Prepare Stockpile Site	10	hrs @	\$150.00	per hr =	\$1,500.00
Stockpile Site 1	2,500	cy of 1 1/2" - 0 @	\$10.43	per cy =	\$26,075.00
(Lower Saddle Mtn Rd. Stockpile Site)					
Stockpile Site 2	13,500	cy of 1 1/2" - 0 @	\$8.69	per cy =	\$117,315.00
(Brown's Camp Stockpile Site)					
Shape Stockpile	16,000	cy of 1 1/2" - 0 @	\$1.00	per cy =	\$16,000.00
Total =	16,000	cy of 1 1/2" - 0			

PROJECT NO. 3 TOTAL COST = \$160,890.00

TOTAL COST = \$160,890.00

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Timber Sale: U-Falls Incline
 Sale Number: 341-09-22
 Pit Name: Brown's Camp

Swell:	<u>1.30</u>	1-1/2"-0 (trk measure)	<u>16,000 cy</u>
Shrinkage:	<u>1.16</u>	3"-0 (trk measure)	<u>4,951 cy</u>
Drill Pct.:	<u>100%</u>	Total Truck Yardage:	<u>20,951 cy</u>
		Total In Place Yardage:	<u>16,116 cy</u>

Drill & Shoot:	<u>\$2.50 /cy x</u>	<u>16,116 cy</u>	=	<u>\$40,290.38</u>
Push Rock:	<u>\$0.70 /cy x</u>	<u>20,951 cy</u>	=	<u>\$14,665.70</u>
Load Crusher:	<u>\$0.70 /cy x</u>	<u>20,951 cy</u>	=	<u>\$14,665.70</u>
Crushing (1-1/2" - 0):	<u>\$3.00 /cy x</u>	<u>16,000 cy</u>	=	<u>\$48,000.00</u>
Crushing (3" - 0):	<u>\$2.60 /cy x</u>	<u>4,951 cy</u>	=	<u>\$12,872.60</u>
Load Dump Truck:	<u>\$0.70 /cy x</u>	<u>20,951 cy</u>	=	<u>\$14,665.70</u>
		Subtotal		<u>\$145,160.08</u>

Move in 3 Stage Crusher		<u>\$2,987.00</u>
Set up Crusher		<u>\$2,898.00</u>
Move in and set up Drill and Compressor		<u>\$290.00</u>
Move in D-8		<u>\$750.00</u>
Move in Loader		<u>\$570.00</u>
Clean Up Pit		<u>\$300.00</u>
Gradation Tests (\$65/2000 cy)	<u>\$65.00 cy/2000cy x</u>	<u>10 tests</u>
Change Gradation		<u>\$210.00</u>
		Subtotal <u>\$8,685.91</u>

PIT DEVELOPMENT COST \$7.34/cy

TOTAL PRODUCTION COST \$153,845.99

Move-In Calculations

Timber Sale: **U-Falls Incline**

Sale Number: **341-09-22**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
9.0	Main Lines	7
0.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Base Cost	Woods Cost	Pilot Cars	Within Area	Begin Mileage	End Mileage	Total Miles	Within	Total Cost
					Move (\$/mile)				Area Cost	
0	Drill & Compressor	\$0.00	\$0.00		\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0	Brush Cutter	\$0.00	\$0.00		\$4.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	Graders	\$300.00	\$231.43		\$3.65	\$0.00	\$0.00	\$0.00	\$0.00	\$531.43
0	Loader (Small)	\$0.00	\$0.00	1	\$3.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0	Loader (Med. & Large)	\$0.00	\$0.00	1	\$9.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	Rollers (smooth/grid) & Compactors	\$308.59	\$247.25		\$5.00	\$0.00	\$0.00	\$0.00	\$0.00	\$555.84
0	Excavators (Small)	\$0.00	\$0.00		\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	Excavators (Med.)	\$330.44	\$288.33		\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$618.77
1	Excavators (Large)	\$466.14	\$348.95	1	\$44.80	\$0.00	\$0.00	\$0.00	\$0.00	\$815.09
0	Tired Backhoes/Skidlers	\$0.00	\$0.00		\$3.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0	Tractors (D6)	\$0.00	\$0.00	2	\$7.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	Tractors (D7)	\$452.72	\$309.03	2	\$11.30	\$0.00	\$0.00	\$0.00	\$0.00	\$761.75
0	Tractor (D8)	\$0.00	\$0.00	2	\$15.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	Dump Truck (10 cy +)	\$466.67	\$360.00		\$2.85	\$0.00	\$0.00	\$0.00	\$0.00	\$826.67
0	Dump Truck (Off Hiway)	\$0.00	\$0.00	1	\$4.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$0.00	\$0.00		\$2.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0	Water Truck (2500 Gal)	\$0.00	\$0.00		\$2.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

TOTAL MOVE-IN COSTS: \$4,109.55

TIMBER SALE SUMMARY
U-Falls Incline
341-09-22

1. **Type of Sale:** Modified Clearcut, Moderate Partial Cut with *Phellinus* root-rot treatment, sealed bid auction
2. **Revenue Distribution:** 100% BOF Tillamook County (Tax Code 9-2), with 100% Rehab Obligation.
3. **Sale Acreage:** : Area 1 is 106 acres, Area 2 is 96 acres, Area 3 is 56 acres, and Area 4 is 29 acres, all determined using ArcGIS. Area 5 R/W is 4 acres of the timber sale area (determined using ArcGIS).

4. **Volume:**

SPECIES		2 SAW	3 SAW	4 SAW	CAMPRUN	SPECIES TOTAL
Douglas-fir	MBF	1,277	2,615	1,898	0	5,790
	%MBF	22	45	33	0	
Hemlock/fir	MBF	0	0	16	0	16
	%MBF	0	0	100	0	
Red Alder	MBF	0	0	0	125	125
	%MBF	0	0	0	100	
Total						5,931

5. **Cruise Data:** The area was variable plot cruised for the Stand Level Inventory (SLI) by IRM contract cruisers. Portions of nine different stands make up the sale. The stands were cruised using a variety of basal area factors. Take trees and saw grades were assigned based on the height, diameter and damage measurements provided by the SLI cruise. Data from plots within each area was combined using the Superace 2004 program.

ODF right of way is 4 acres estimated using ArcGIS. The volume was obtained using take and leave tree information derived from Superace 2004.

Cruise statistics for Areas 1, and 3 take trees are CV 62.6% and SE 11.8% and leave trees are CV 44.7%, SE 8.4. Cruise statistics for Areas 2 and 4 are CV 39.7%, SE 6.6.

6. **Timber Description:** Variable 35-55 year old Douglas-fir, western hemlock, and red alder. The average take DBH is 12 inches in the partial cuts and 13 inches in the clearcut. Take volume per acre in the clearcut averages 31.8 MBF per acre for Douglas-fir. Take volume per acre in the thinning averages 11.4 MBF per acre for Douglas-fir. Although no western hemlock was cruised, some was seen in visual reconnaissance during sale layout and was added to the volume summary.

7. **Topography and Logging Method:** Area 1 is 50% cable based yarding and 50% ground based yarding. Area 2 is 70% downhill cable yarding, 15% uphill cable yarding, and 15% ground based yarding. Area 3 is 40% cable yarding, and 60% ground based yarding. Area 4 is 90% cable yarding, and 10% ground yarding. Slopes range from 10% to 75%.

8. **Access:** Access is from the Wilson River Hwy to University Falls Road.

9. **Projects:**

Project No. 1 consists of constructing 0.83 miles of road costing \$15,224.30 and improving 0.6 miles of road costing \$5305.12

Project No. 2 consists of surfacing 1.43 miles of road costing \$74,214.15

Project No. 3 Stockpile construction costing \$160,890.00

Project No. 4 consists of grass seeding and fertilization in areas of disturbed soil costing \$692.00

Project No. 5 consists of trail reconstruction on road segments E-F costing \$10,519.30

Move in cost is \$4109.55

Total credit for all projects is \$271,000.00

10. Other Costs:

Costs with (P/R):

Brand and paint (5,931 MBF @ \$1/MBF): \$5,931

Top 250 trees @ \$40/Tree: \$10,000

Total (P/R): \$15,931

Costs (NO P/R):

Blocking and Waterbarring of skid roads (10 hours @ \$110/hour): \$1,100

OHV Trail clearing (10 stations @ \$100/station): \$1,000

Firewood Sorting (12 hours @ \$110/hour): \$1,320

Total (NO P/R) \$3,420

Mechanical Slash Manipulation (60 acres @ \$150/acre): \$9,000

CRUISE REPORT

U-Falls Incline

341-09-22

1. Acreage Calculation: Area 1 is 106 acres, Area 2 is 96 acres, Area 3 is 56 acres, and Area 4 is 29 acres, all determined using ArcGIS. Area 5 R/W is 4 acres of the timber sale area (determined using ArcGIS). 9.5 acres of existing road, 4.3 acres of stream buffer, and 10.8 acres of green tree retention and 1.4 acres of non-thinnable area within the sale were removed from the 317 gross acre measurement.

2. Cruise Method: The timber sale area was variable plot cruised using a 30, 40, and 47 BAF and full plots by SLI. Take trees and saw grades were assigned based on the height, diameter, and damage measurements provided by the SLI cruise. Two percent was deducted for hidden defect and breakage. Twenty-five percent was added to the volume in the partial cut areas in order to account for *Phellinus weirii* cut-out.

3. Sampling Intensity:

Areas 1,3	Estimated	Actual
CV	65%	62.6%
SE	12%	11.8%
No. of Plots	25	29

Areas 2, 4	Estimated	Actual
CV	43%	39.7%
SE	11%	6.6%
No. of Plots	15	36

4. Form Factors: Form factors were assigned based on adjacent cruise data, and reconnaissance of the timber sale area.

5. Height Standards: Conifer and hardwood merchantable heights were estimated to the nearest foot.

6. Diameter Standards: Diameters were measured outside bark at breast height to the nearest inch.

7. Grading System: All trees were graded favoring 40 foot segments.

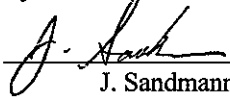
8. Merchantable Top: Conifer and hardwood merchantable tops were calculated in SuperAce 2004 to 6 inches and 7 inches, respectively, or 25% of DBH inside bark.

9. Computation Procedures: Volumes were computed using the Super Ace program. Although no hemlock was cruised, it was observed during sale layout and added to volume reports.

10. Deductions: Two percent of the conifer and five percent hardwood volume was subtracted from the computed volumes to account for hidden defect and breakage. Twenty-five percent was added to Area 1 and 3 volume to account for *Phellinus* cut-out.

11. Cruisers: The sale was cruised by SLI in 2003 and 2004. J. Sandmann prepared office calculations in January 2008.

12. Signatures: Preparer:

 5/8/08
J. Sandmann Date

Unit Forester:

 5/21/08
Erik Marcy Date

Residual Stand Specifications
U-Falls Incline
341-09-22

Area 1 Moderate Partial Cut

Residual QMD assumption (from cruise leave tree information) - 16 inches.
 Target Relative Density - 35

	Minimum	Target	Maximum
Relative Density	33	35	38
Basal Area	130	140	150
Trees per Acre	93	100	107

Area 3 Moderate Partial Cut

Residual QMD assumption (from cruise leave tree information) - 17 inches.
 Target Relative Density - 35

	Minimum	Target	Maximum
Relative Density	32	35	37
Basal Area	130	140	150
Trees per Acre	82	89	95

$$RD = BA / \sqrt{DBH}$$

$$BA = \sqrt{DBH} (RD)$$

$$BA/tree = (\pi r^2) / (144)$$

$$TPA = (BA/acre) / (BA/tree)$$

U-Falls Incline
341-09-22
Volume Summary
May 2008

Area 2 and 4: Modified Clearcut

SPECIES		2 SAW	3 SAW	4 SAW	CAMPRUN	SPECIES TOTAL
Douglas-fir	Take Volume	991	1801	1188		3980
	Right of Way ¹	1	2	1		4
	Phellinus	0	0	0		0
	Total - 2% Defect	972	1767	1165		3904
	% Total	24.9	45.3	29.8		
Hemlock	Take Volume	0	0	10		10
	Right of Way ¹	0	0	1		1
	Phellinus	0	0	0	0	0
	Total - 2% Defect	0	0	10	0	10
	% Total	0.0	0.0	100.0		
Red Alder	Take Volume				117	117
	Right of Way ¹				3	3
	Total - 5% Defect					114

Area 1 and 3: Moderate Partial Cut

SPECIES		2 SAW	3 SAW	4 SAW	CAMPRUN	SPECIES TOTAL
Douglas-fir	Take Volume	233	669	585		1487
	Right of Way ¹	20	29	17.5		66.5
	Phellinus ²	58	167	146		371
	Total - 2% Defect	305	848	733		1886
	% Total	16.1	45.0	38.9		
Hemlock	Take Volume	0	0	5		5
	Right of Way ¹	0	0	1		1
	Phellinus ²	0	0	1	0	1
	Total - 2% Defect	0	0	6	0	6
	% Total	0.0	0.0	100.0		
Red Alder	Take Volume				3.8	3.8
	Right of Way ¹				8	8
	Total - 5% Defect					11

¹ ODF right of way in partial cut is estimated to be 3.6 acres obtained using ArcGIS. Seventy percent of R/W acres are new construction, the remainder is improvement with little to no volume removed. R/W Volumes were established using volume per acre estimates (SuperAce 2004) multiplied by 0.7.

² Twenty-five percent was added to partial cut volume to account for Phellinus cut-out.

TC PSTATS			PROJECT STATISTICS					PAGE	1		
			PROJECT		UFALLINC		DATE	2/26/2008			
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
01N	06	04	U FALLS INC	PCPH	162.00	29	138	S	W		
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			29	138	4.8						
CRUISE			29	138	4.8	29,335	.5				
DBH COUNT											
REFOREST											
COUNT											
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE TREES			TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF LEAVE			85	85.5	16.1	93	121.0	17,296	17,296	4,173	4,173
DF TAKE			52	93.1	12.0	81	73.3	9,179	9,179	2,128	2,128
R ALDER			1	2.5	10.0	78	1.4	126	126	36	36
TOTAL			138	181.1	14.1	87	195.7	26,601	26,601	6,336	6,336
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DF LEAVE			59.4	11.2	76	85	95				
DF TAKE			65.4	12.3	82	93	105				
R ALDER			538.5	101.7		3	5				
TOTAL			49.3	9.3	164	181	198	101	25	11	
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DF LEAVE			44.4	8.4	111	121	131				
DF TAKE			51.7	9.8	66	73	80				
R ALDER			538.5	101.7		1	3				
TOTAL			31.3	5.9	184	196	207	41	10	5	
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DF LEAVE			44.7	8.4	15,835	17,296	18,756				
DF TAKE			62.6	11.8	8,093	9,179	10,264				
R ALDER			538.5	101.7		126	255				
TOTAL			29.2	5.5	25,136	26,601	28,065	35	9	4	
CL	68.1	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DF LEAVE			44.6	8.4	3,821	4,173	4,524				
DF TAKE			62.3	11.8	1,877	2,128	2,378				
R ALDER			538.5	101.7		36	72				
TOTAL			30.4	5.7	5,973	6,336	6,700	38	10	4	

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page 1								
		Project: UFALLINC										Date	2/26/2008							
												Time	9:24:24AM							
T01N R06W S04 TPCPH										T01N R06W S04 TPCPH										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
01N	06W	04	U FALLS INC	PCPH	162.00	29	138	S	W											
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
			Def%	Gross	Net	Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf				
DL	DO	2S		37	6,562	6,562	1,063			74	26			1	99	40	305	1.70	21.5	
DL	DO	3S		43	7,403	7,403	1,199			89	11		1	0	10	89	39	119	0.75	62.0
DL	DO	4S		20	3,331	3,331	540			98	2		14	19	12	55	28	41	0.40	80.7
DL	Totals			65	17,296	17,296	2,802			57	33	10	3	4	7	86	34	105	0.75	164.2
DT	DO	2S		15	1,438	1,438	233			86	14				100	40	274	1.49	5.3	
DT	DO	3S		45	4,131	4,131	669			99	1				10	90	39	111	0.68	37.3
DT	DO	4S		40	3,609	3,609	585			100			20	30	18	32	25	36	0.32	101.3
DT	Totals			35	9,179	9,179	1,487			84	14	2	8	12	11	69	30	64	0.50	143.9
RA	DO	4S		100	126	126	20			100					100		33	50	0.43	2.5
RA	Totals			0	126	126	20			100					100		33	50	0.43	2.5
Type Totals					26,601	26,601	4,309			66	27	7	5	7	9	80	32	86	0.64	310.6

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		2/26/2008	
T01N R06W S04 TyPCPH 162.00				Project UFALLINC										Time:		9:24:22AM	
				Acres 162.00										Grown Year:			
S Spc	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DL		10	2	86	70	5.943	3.24	5.94	11.5	60.0	1.60	68	357	260	111	58	
DL		11	4	87	75	9.457	6.24	9.46	14.8	60.0	3.30	140	567	534	227	92	
DL		12	3	88	102	5.269	4.14	10.54	13.1	56.7	3.24	138	597	525	223	97	
DL		13	7	87	85	10.999	10.14	22.00	13.1	50.9	6.79	289	1,120	1,100	468	181	
DL		14	4	88	93	5.161	5.52	10.32	17.0	70.0	4.13	176	723	668	284	117	
DL		15	8	88	91	9.301	11.41	18.60	19.1	75.1	8.37	356	1,398	1,356	577	226	
DL		16	9	88	99	8.915	12.45	17.83	24.4	102.5	10.21	434	1,827	1,653	704	296	
DL		17	6	88	96	5.710	9.00	11.42	27.0	110.5	7.24	308	1,262	1,172	499	204	
DL		18	10	88	101	7.688	13.59	15.38	32.4	128.0	11.71	498	1,969	1,898	807	319	
DL		19	6	88	113	4.151	8.17	11.93	27.8	119.6	7.78	331	1,426	1,260	536	231	
DL		20	7	88	101	4.378	9.55	9.39	37.5	146.6	8.27	352	1,377	1,340	570	223	
DL		21	4	88	96	2.495	6.00	4.99	42.9	161.2	5.03	214	804	814	346	130	
DL		22	4	89	105	2.181	5.76	5.50	40.2	172.2	5.19	221	947	841	358	153	
DL		23	1	86	115	.478	1.38	1.43	37.7	166.7	1.27	54	239	206	88	39	
DL		24	2	88	112	.768	2.41	2.31	41.8	184.3	2.26	96	425	367	156	69	
DL		25	1	89	145	.405	1.38	1.21	58.1	276.7	1.66	71	336	269	114	54	
DL		27	2	88	111	.755	3.00	2.26	52.9	238.2	2.81	120	539	455	194	87	
DL		28	1	84	98	.323	1.38	.97	51.3	203.3	1.17	50	197	189	80	32	
DL		30	1	88	115	.330	1.62	.99	70.6	340.0	1.64	70	337	266	113	55	
DL		32	1	84	102	.290	1.62	.58	103.9	410.0	1.42	60	238	230	98	39	
DL		34	2	87	120	.476	3.00	1.17	108.3	522.7	2.98	127	612	483	205	99	
DL		Totals	85	88	93	85.472	121.00	164.21	25.4	105.3	98.06	4,173	17,296	15,885	6,760	2,802	
DT		8	3	84	61	13.929	4.86	13.93	4.2	20.0	1.37	58	279	221	94	45	
DT		9	6	86	70	19.045	8.41	19.04	8.1	37.0	3.62	154	704	586	249	114	
DT		10	4	87	77	9.926	5.41	11.82	10.3	52.0	2.87	122	615	465	198	100	
DT		11	6	87	79	12.749	8.41	20.59	9.9	42.7	4.77	203	880	772	329	143	
DT		12	4	88	90	7.332	5.76	14.66	11.6	49.8	4.00	170	730	647	275	118	
DT		13	4	88	88	6.247	5.76	12.49	13.7	55.0	4.01	171	687	650	277	111	
DT		14	8	88	98	9.580	10.24	19.16	17.7	75.3	7.96	339	1,443	1,289	548	234	
DT		15	2	88	95	2.248	2.76	4.50	19.4	75.0	2.05	87	337	332	141	55	
DT		16	3	88	107	2.964	4.14	6.92	22.2	95.7	3.61	154	662	585	249	107	
DT		17	4	88	97	3.807	6.00	7.61	27.5	113.6	4.91	209	865	796	339	140	
DT		18	3	88	105	2.615	4.62	5.23	33.1	130.0	4.07	173	680	660	281	110	
DT		19	2	87	115	1.401	2.76	4.20	26.9	116.7	2.66	113	490	430	183	79	
DT		23	2	89	115	.956	2.76	2.87	40.9	190.0	2.75	117	545	446	190	88	
DT		30	1	85	120	.281	1.38	.84	68.5	310.0	1.36	58	261	220	94	42	
DT		Totals	52	87	81	93.080	73.28	143.87	14.8	63.8	50.00	2,128	9,179	8,101	3,447	1,487	
RA		10	1	75	78	2.529	1.38	2.53	14.1	50.0	.98	36	126	159	58	20	
RA		Totals	1	75	78	2.529	1.38	2.53	14.1	50.0	.98	36	126	159	58	20	
Totals			138	87	87	181.080	195.66	310.61	20.4	85.6	149.04	6,336	26,601	24,145	10,265	4,309	

TC PLOGSTVB				Log Stock Table - MBF																
T01N R06W S04 TyPCPH 162.00				Project: UFALLINC Acres 162.00										Page 1 Date 2/26/2008 Time 9:24:24AM						
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DT		DO	2S	40	233		233	15.7					139		62		32			
DT		DO	3S	32	66		66	4.4				44	22							
DT		DO	3S	40	604		604	40.6			62	340	193	9						
DT		DO	4S	12	9		9	.6			9									
DT		DO	4S	13	7		7	.5			7									
DT		DO	4S	14	9		9	.6			9									
DT		DO	4S	15	7		7	.4			7									
DT		DO	4S	16	9		9	.6			9									
DT		DO	4S	17	11		11	.7			11									
DT		DO	4S	18	54		54	3.6			54									
DT		DO	4S	20	11		11	.8			11									
DT		DO	4S	21	5		5	.3			5									
DT		DO	4S	22	22		22	1.5			9	14								
DT		DO	4S	23	10		10	.7			10									
DT		DO	4S	25	19		19	1.3			19									
DT		DO	4S	26	5		5	.3			5									
DT		DO	4S	27	11		11	.7			11									
DT		DO	4S	28	59		59	4.0			51	8								
DT		DO	4S	29	7		7	.4			7									
DT		DO	4S	30	40		40	2.7			40									
DT		DO	4S	32	59		59	4.0			59									
DT		DO	4S	33	14		14	1.0			14									
DT		DO	4S	34	24		24	1.6			24									
DT		DO	4S	35	8		8	.5			8									
DT		DO	4S	36	59		59	4.0			59									
DT		DO	4S	38	49		49	3.3			49									
DT		DO	4S	40	77		77	5.2			51	26								
DT		Totals			1,487		1,487	34.5			599	431	214	148	62		32			
DL		DO	2S	32	12		12	.4						12						
DL		DO	2S	40	1,051		1,051	37.5					480	249	173	113	36			
DL		DO	3S	20	6		6	.2					6							
DL		DO	3S	21	2		2	.1			2									
DL		DO	3S	32	118		118	4.2				60	49	9						
DL		DO	3S	34	5		5	.2			5									
DL		DO	3S	39	13		13	.5			13									
DL		DO	3S	40	1,040		1,040	37.1			73	411	440	117						

TC PLOGSTVB				Log Stock Table - MBF																
T01N R06W S04 TyPCPH 162.00				Project: UFALLINC				Page 2												
				Acres 162.00				Date 2/26/2008												
				Time 9:24:24AM																
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DL		DO	3S	41	15		15	.5			15									
DL		DO	4S	12	6		6	.2			6									
DL		DO	4S	15	5		5	.2			5									
DL		DO	4S	16	17		17	.6			17									
DL		DO	4S	17	8		8	.3			8									
DL		DO	4S	18	14		14	.5			14									
DL		DO	4S	19	13		13	.5			13									
DL		DO	4S	20	13		13	.5			13									
DL		DO	4S	22	4		4	.1			4									
DL		DO	4S	23	5		5	.2			5									
DL		DO	4S	24	31		31	1.1			22		10							
DL		DO	4S	25	23		23	.8			23									
DL		DO	4S	26	12		12	.4			12									
DL		DO	4S	27	27		27	1.0			27									
DL		DO	4S	29	1		1	.1			1									
DL		DO	4S	32	7		7	.3			7									
DL		DO	4S	33	29		29	1.0			29									
DL		DO	4S	34	28		28	1.0			28									
DL		DO	4S	36	106		106	3.8			106									
DL		DO	4S	37	7		7	.3			7									
DL		DO	4S	40	175		175	6.2			128	47								
DL		DO	4S	41	9		9	.3			9									
DL		Totals			2,802		2,802	65.0			590	517	489	622	261	173	113	36		
RA		DO	4S	33	20		20	100.0			20									
RA		Totals			20		20	.5			20									
Total		All Species			4,309		4,309	100.0			1210	949	703	770	261	235	145	36		

TC PSTATS				PROJECT STATISTICS				PAGE 1	
				PROJECT U FALL INC				DATE 2/26/2008	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01N	06	04	U FALLS INC	MC	125.00	36	188	S	W
				TREES	ESTIMATED	PERCENT			
				PER PLOT	TOTAL	SAMPLE			
				TREES	TREES	TREES			
				PLOTS	TREES	PER PLOT	TREES	TREES	TREES
TOTAL				36	188	5.2			
CRUISE				36	188	5.2	31,647	.6	
DBH COUNT									
REFOREST									
COUNT									
BLANKS									
100 %									
STAND SUMMARY									
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC
DOUG FIR	178	237.8	13.3	92		228.1	31,876	31,876	7,384
R ALDER	6	8.1	13.3	96		7.8	935	935	270
BL MAPLE	4	7.3	11.5	72		5.2	417	417	128
TOTAL	188	253.2	13.2	91		241.2	33,229	33,229	7,781
CONFIDENCE LIMITS OF THE SAMPLE									
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR									
CL 68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	55.5	9.2	216	238	260				
R ALDER	415.9	69.3	2	8	14				
BL MAPLE	428.6	71.4	2	7	12				
TOTAL	55.8	9.3	230	253	277	124	31	14	
CL 68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	37.0	6.2	214	228	242				
R ALDER	365.7	60.9	3	8	13				
BL MAPLE	358.6	59.7	2	5	8				
TOTAL	36.5	6.1	227	241	256	53	13	6	
CL 68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	40.5	6.7	29,727	31,876	34,026				
R ALDER	360.4	60.0	374	935	1,496				
BL MAPLE	375.4	62.5	156	417	678				
TOTAL	39.7	6.6	31,033	33,229	35,424	63	16	7	
CL 68.1	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	39.0	6.5	6,904	7,384	7,864				
R ALDER	356.5	59.4	110	270	430				
BL MAPLE	343.2	57.2	55	128	201				
TOTAL	38.3	6.4	7,285	7,781	8,278	59	15	7	

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page 1						
		Project: UFALLINC										Date 2/26/2008						
												Time 9:23:25AM						
T01N R06W S04 TMC										T01N R06W S04 TMC								
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt									
01N	06W	04	U FALLS INC	MC	125.00	36	188	S	W									
S So Gr Spp T rt ad		% Net BdFt	Bd. Ft. per Acre		Total Net MBF	Percent 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					
D	DO	2S	24	7,925	7,925	991		90	10				100	40	282	1.57	28.1	
D	DO	3S	46	14,443	14,443	1,805	0	96	3	0	1	9	90	38	108	0.68	133.3	
D	DO	4S	30	9,508	9,508	1,188		100		20	19	24	37	26	38	0.33	251.8	
D Totals		96		31,876	31,876	3,985	0	73	24	2	6	6	11	76	31	77	0.58	413.2
RA	DO	4S	100	935	935	117		87	13	11	11	30	47	27	55	0.58	16.9	
RA Totals		3		935	935	117		87	13	11	11	30	47	27	55	0.58	16.9	
BM	DO	4S	100	417	417	52		54	46				100	40	99	0.76	4.2	
BM Totals		1		417	417	52		54	46				100	40	99	0.76	4.2	
Type Totals				33,229	33,229	4,154	0	74	24	2	6	6	12	76	31	77	0.58	434.2

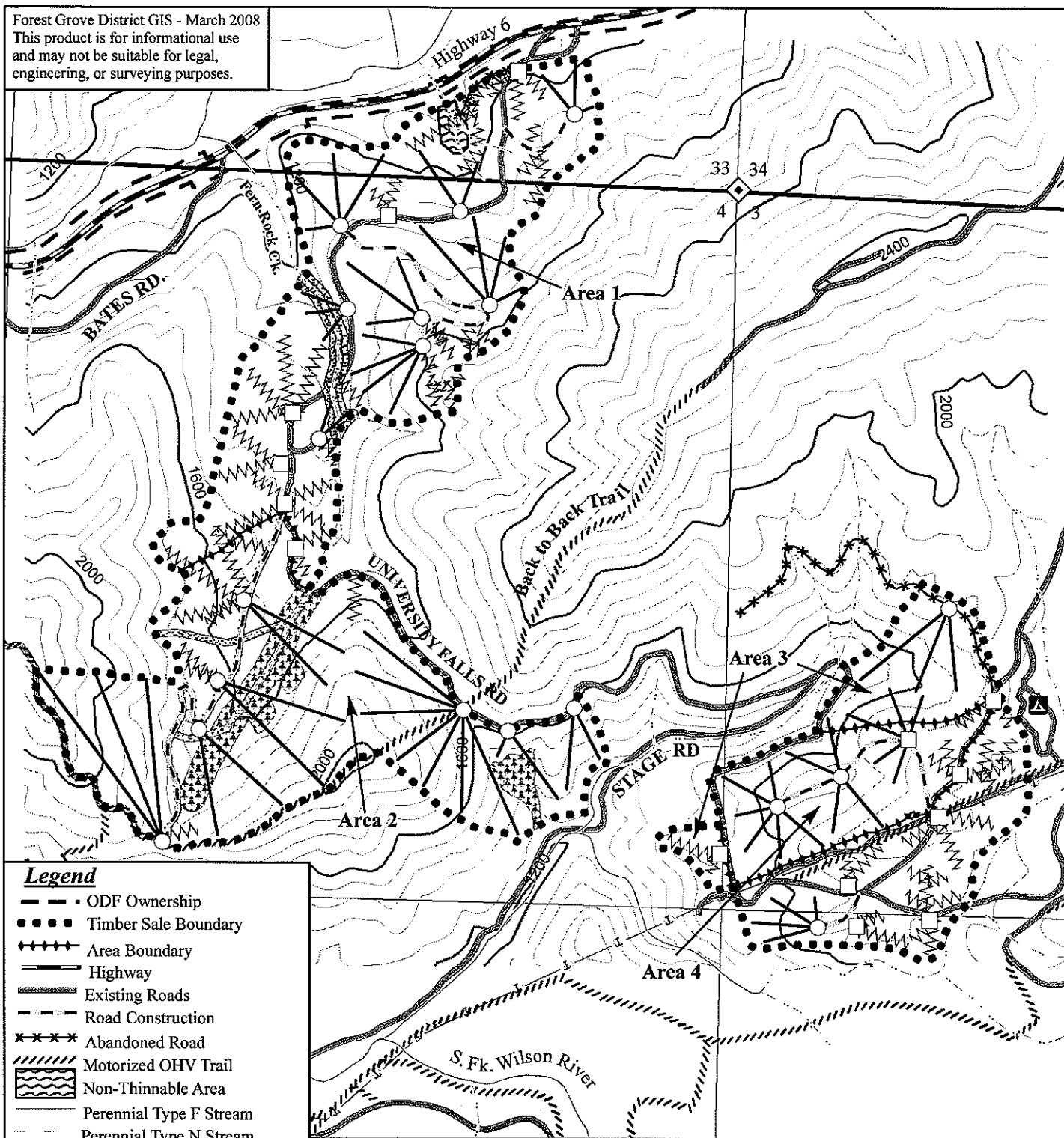
TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		2/26/2008	
T01N R06W S04 TyMC 125.00				Project UFALLINC										Time:		9:23:24AM	
				Acres 125.00										Grown Year:			
S Spc	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Net		Totals		
		DBH	Trees	FF	Av				Ht	Net	Net	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
D		8	8	86	72	29.921	10.44	29.92	4.9	25.0	4.15	146	748	519	182	94	
D		9	12	87	82	34.142	15.08	34.14	8.8	47.1	8.56	301	1,606	1,071	376	201	
D		10	7	87	82	16.756	9.14	23.94	8.7	43.0	5.95	209	1,029	744	261	129	
D		11	12	88	86	23.444	15.47	38.98	10.5	47.2	11.71	411	1,839	1,463	513	230	
D		12	17	88	94	28.259	22.19	56.52	11.7	49.1	18.88	662	2,776	2,360	828	347	
D		13	14	88	96	19.407	17.89	38.81	14.7	62.6	16.27	571	2,431	2,033	713	304	
D		14	21	88	102	25.283	27.03	50.57	18.2	79.6	26.21	920	4,027	3,276	1,149	503	
D		15	11	88	93	11.069	13.58	22.14	19.9	81.2	12.55	440	1,799	1,569	550	225	
D		16	12	88	103	10.942	15.28	22.82	24.6	106.0	15.97	560	2,418	1,996	700	302	
D		17	10	88	102	8.159	12.86	17.15	26.5	110.0	12.95	454	1,886	1,619	568	236	
D		18	11	89	107	7.687	13.58	19.07	27.0	107.2	14.66	514	2,044	1,833	643	255	
D		19	10	89	118	6.631	13.06	19.23	28.1	120.7	15.41	541	2,321	1,926	676	290	
D		20	6	88	98	3.501	7.64	7.00	38.1	140.6	7.61	267	985	952	334	123	
D		21	7	88	99	3.800	9.14	8.14	40.6	155.3	9.41	330	1,265	1,177	413	158	
D		22	10	89	110	4.798	12.67	13.06	38.4	167.3	14.28	501	2,185	1,785	626	273	
D		23	5	90	124	2.262	6.53	6.79	42.4	191.3	8.21	288	1,299	1,026	360	162	
D		24	2	89	116	.831	2.61	2.49	44.2	198.3	3.14	110	495	392	138	62	
D		26	1	88	115	.354	1.31	1.06	51.8	233.3	1.57	55	248	196	69	31	
D		28	1	88	105	.305	1.31	.92	55.9	253.3	1.46	51	232	183	64	29	
D		34	1	85	115	.207	1.31	.41	126.3	590.0	1.49	52	244	186	65	31	
D		Totals	178	88	92	237.759	228.11	413.15	17.9	77.2	210.43	7,384	31,876	26,304	9,230	3,985	
RA		11	2	78	90	3.957	2.61	7.91	10.0	40.0	2.19	79	317	273	99	40	
RA		13	1	75	97	1.416	1.31	2.83	15.4	45.0	1.20	44	127	150	55	16	
RA		14	1	78	99	1.221	1.31	2.44	19.2	60.0	1.29	47	147	161	59	18	
RA		16	1	74	104	.935	1.31	1.87	25.3	85.0	1.30	47	159	163	59	20	
RA		20	1	78	112	.598	1.31	1.80	29.1	103.3	1.44	52	186	180	65	23	
RA		Totals	6	77	96	8.128	7.83	16.85	16.0	55.5	7.41	270	935	927	337	117	
BM		8	1	74	60	3.740	1.31										
BM		12	1	75	79	1.662	1.31	1.66	22.4	60.0	.99	37	100	123	46	12	
BM		14	1	74	85	1.221	1.31	1.22	29.9	70.0	.97	37	85	121	46	11	
BM		19	1	99	98	.663	1.31	1.33	41.0	175.0	1.44	54	232	180	68	29	
BM		Totals	4	77	72	7.287	5.22	4.21	30.4	99.1	3.39	128	417	424	160	52	
Totals			188	87	91	253.173	241.17	434.21	17.9	76.5	221.24	7,781	33,229	27,655	9,727	4,154	

Log Stock Table - MBF

T01N R06W S04 TyMC 125.00

Project: UFALLINC
Acres 125.00Page 2
Date 2/26/2008
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S T Spp	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
D	DO	4S	39	4		4	.1			4									
D	DO	4S	40	289		289	7.3			199	91								
D	Totals			3,985		3,985	95.9	3	1352	987	589	560	265	204	24				
BM	DO	4S	40	52		52	100.0			28			24						
BM	Totals			52		52	1.3			28			24						
RA	DO	4S	14	10		10	8.5			10									
RA	DO	4S	18	4		4	3.0			4									
RA	DO	4S	22	6		6	5.1					6							
RA	DO	4S	24	2		2	1.9			2									
RA	DO	4S	25	5		5	3.9			5									
RA	DO	4S	32	36		36	30.4			36									
RA	DO	4S	40	55		55	47.2			12	28		15						
RA	Totals			117		117	2.8			68	28	6	15						
Total	All Species			4,154		4,154	100.0	3	1448	1015	595	575	289	204	24				



Legend

- ODF Ownership
- Timber Sale Boundary
- Area Boundary
- == Highway
- == Existing Roads
- - - Road Construction
- x x x Abandoned Road
- /// Motorized OHV Trail
- ~~~~ Non-Thinnable Area
- Perennial Type F Stream
- - - Perennial Type N Stream
- Posted Stream Buffer
- Posted Green Tree Retention
- Cable Landing
- Ground Landing
- Cable Setting
- Ground Setting
- Transmission Lines
- 400' Contour Index
- 80' Contour Intervals
- ▲ Stagecoach Horse Campground

LOGGING PLAN
of Timber Sale Contract No. 341-09-22
U-Falls Incline
Portions of Sections 3, 4, and 10
T01N, R06W, W.M. and Portions of
Section 33, T02N, R06W, W.M.
Tillamook County, OR

Scale 1:12,000
1 inch = 1,000 feet

1,000 500 0 1,000
Feet



APPROXIMATE NET ACREAGE

Area 1	(PC-M)	106
Area 2	(MC)	96
Area 3	(PC-M)	56
Area 4	(MC)	29
Area 5	(R/W)	4
TOTAL:		291