"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Upper Cut
Sale 341-13-83

District: **Tillamook** **Date:** **March 14, 2013**

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$497,083.13	$294,189.76	$791,272.89
		Project Work:	$(200,870.00)
		Advertised Value:	$590,402.89

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District: **Tillamook** **Date:** **March 14, 2013**

timber description

Location: Portions of Sections 21 and 28, T3N, R8W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	95
Western Hemlock / Fir	14	0	95
Alder (Red)	15	0	90

Volume by Grade	10" - 11"	12"+	2S	3S	4S	8" - 9"	Total
Douglas - Fir	0	0	599	1,467	543	0	2,609
Western Hemlock / Fir	0	0	29	207	58	0	294
Alder (Red)	418	212	0	0	0	689	1,319
Total	418	212	628	1,674	601	689	4,222

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comments:

Pond Values Used: 4th Quarter Calendar Year 2012.

Western redcedar & Other Cedars Stumpage Price = Pond Value minus Logging Cost
$677/MBF = $985/MBF - $308/MBF

Pulp (Conifer and Hardwood) Price = $25/MBF

SCALING COST ALLOWANCE = $5.00/MBF

FUEL COST ALLOWANCE = $4.00/Gallon

HAULING COST ALLOWANCE
Hauling cost equivalent to $780 daily truck cost.

Other Costs (with Profit & Risk to be added):
Brand and Paint: $2/MBF x 4,222 MBF = $8,444
TOTAL Other Costs (with Profit & Risk to be added) = $8,444

Other Costs (No Profit & Risk added):
Slash Piling and Sorting: $5/acre x 236(cable) acres = $1,180
Cover Material for Piles: 11 piles x $5/pile = $55
TOTAL Other Costs (No Profit & Risk added) = $1,235

ROAD MAINTENANCE
Maintenance Rock: ($12/cy x 5.0 miles x 20 cy/mile x 4.222 MMBF) / 4222 MBF = $ 1.20/MBF
Interim Maintenance (2 gradings): Grading $250/mile x 5.0 miles x 2 gradings/4,222 MBF = $.59/MBF
Vibratory Roller: ((260 stations x $18/ station) + $111 move-in) / 4,222 MBF = $1.13/MBF
Final Maintenance:
Grading - $500/Mile x 5.0 miles /4,222 MBF = $.59/MBF
TOTAL Maintenance Cost = $3.51/MBF

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Upper Cut
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District: Tillamook **Date: March 14, 2013**

logging conditions

combination#: 1

	Douglas - Fir	67.12%
	Western Hemlock / Fir	65.17%
	Alder (Red)	57.73%

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: 5.0 **bd. ft / load:** 3,900
cost / mbf: $171.49

machines:
Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

combination#: 2

	Douglas - Fir	8.89%
	Western Hemlock / Fir	1.50%
	Alder (Red)	3.56%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process**: Stroke Delimber
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 4.0 **bd. ft / load:** 3,900
cost / mbf: $214.37

machines:
Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

combination#: 3

	Douglas - Fir	13.98%
	Western Hemlock / Fir	12.59%
	Alder (Red)	11.23%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process**: Stroke Delimber
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 7.0 **bd. ft / load:** 3,800
cost / mbf: $106.55

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

combination#: 4

	Douglas - Fir	10.00%
	Western Hemlock / Fir	20.75%
	Alder (Red)	27.48%

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Upper Cut
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District: Tillamook **Date: March 14, 2013**

yarding distance:	Long (1,500 ft)	**downhill yarding:**	No
logging system:	Cable: Medium Tower >40 - <70	**Process**:	Stroke Delimber
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
loads / day:	4.0	**bd. ft / load:**	3,100
cost / mbf:	$269.69		

machines:
Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

"STEWARDSHIP IN FORESTRY"

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Upper Cut
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District: **Tillamook** **Date:** **March 14, 2013**

logging costs

Operating Seasons:	2.00	**Profit Risk:**	10.00%
Project Costs:	$200,870.00	**Other Costs (P/R):**	$8,444.00
Slash Disposal:	$0.00	**Other Costs:**	$1,235.00

Miles of Road

Road Maintenance: $3.51

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	2.0	2.8
Western Hemlock / Fir	$0.00	3.0	3.0
Alder (Red)	$0.00	2.0	2.8

Local Pond Values

Date	Specie	Grade	Value
3/14/13	Alder (Red)	10" - 11"	$635.00
3/14/13	Alder (Red)	12"+	$675.00

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District: **Tillamook** **Date:** **March 14, 2013**

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
$176.05	$3.69	$2.08	$132.95	$2.00	$31.68	$0.00	$5.00	$0.29	$353.74
Western Hemlock / Fir									
$184.33	$3.69	$2.08	$82.73	$2.00	$27.48	$0.00	$5.00	$0.29	$307.60
Alder (Red)									
$192.71	$3.86	$2.08	$139.28	$2.00	$33.99	$0.00	$5.00	$0.29	$379.21

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$529.91	$176.17	$0.00
Western Hemlock / Fir	$0.00	$435.00	$127.40	$0.00
Alder (Red)	$0.00	$602.25	$223.04	$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	2,609	$176.17	$459,627.53
Western Hemlock / Fir	294	$127.40	$37,455.60
Alder (Red)	1,319	$223.04	$294,189.76

Gross Timber Sale Value

Recovery: $791,272.89

Prepared by: Nick Stumpf **Phone:** 503-842-2545

"STEWARDSHIP IN FORESTRY"

PROJECT SUMMARY SHEET

Sale: Upper Cut

CONSTRUCTION

Point	A to B	9+70	stations =	$4,500.67
Point	G to H	5+25	stations =	$7,349.13
Point	I to J	3+00	stations =	$5,549.50
Point	K to L	9+45	stations =	$20,945.33
			SUBTOTAL CONSTRUCTION	**$38,344.63**

IMPROVEMENT

Point	A to B	276+20	stations =	$123,064.12
Point	C to D	50+15	stations =	$4,349.81
Point	E to F	17+00	stations =	$17,826.30
			SUBTOTAL IMPROVEMENT	**$145,240.23**

RECONSTRUCTION

Point	K to L	5+10	stations =	$11,891.92
			SUBTOTAL RECONSTRUCTION	**$11,891.92**

MOVE IN **$5,393.22**

GRAND TOTAL **$200,870.00**

SUMMARY OF CONSTRUCTION COST

Sale: **Upper Cut** Road: **A to B**

Construction -	9+70	stations	Improvement -	276+20	stations	Reconstruction -	0+00	stations
	0.18	miles		5.23	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
280+50		284+00	20%		Outslope	$139	=	$486.50	
285+70		285+90	25%		Outslope	$165	=	$33.00	
								TOTAL	**$519.50**

IMPROVEMENT: CLEARING AND GRUBBING -

Roadside Brushing: A to B, 0+00 to 223+10.	4.23	miles @	$600.00	per mile =	$2,538.00	
Roadside Brushing: A to B, 223+10 to 260+00	0.70	miles @	$800.00	per mile =	$560.00	
Roadside Brushing:A to B, 260+00 to 276+20	0.31	miles @	$600.00	per mile= =	$186.00	
				TOTAL CLEARING AND GRUBBING		**$3,284.00**

IMPROVEMENT: EXCAVATION -

Road Earthwork:223+10 to 276+20	53.10	sta @	$100.00	per sta. =	$5,310.00	
Slope Stabilization Prep.	430	cy. @	$1.40	per c.y.=	$602.00	
				TOTAL EXCAVATION		**$5,912.00**

IMPROVEMENT: ENDHAUL -

Slope Stabilization Prep.	233+25	to	233+75	126	cy. @	$0.93	per c.y.=	$117.18	
Slope Stabilization Prep.	240+65	to	241+35	304	cy. @	$0.93	per c.y.=	$282.72	
Spread & compact				430	cy. @	$0.25	per c.y.=	$107.50	
							TOTAL ENDHAUL		**$507.40**

CULVERTS - MATERIALS & INSTALLATION

Culverts					
200	LF of 18"	$3,500.00	40	LF of 24"	$1,080.00
		$3,500.00			$1,080.00
Culvert Stakes & Markers					
6 markers		$48.00			
		$48.00		**TOTAL CULVERTS**	**$4,628.00**

ROCK

50+75 to	60+35	720	cy. of	Crushed	@	$7.66	per c.y.=	$5,515.20	
223+10 to	260+00	630	cy. of	Crushed	@	$5.22	per c.y.=	$3,288.60	
223+10 to	285+90	3,460	cy. of	Crushed	@	$12.00	per c.y.=	$41,520.00	
Culvert Backfill	As Marked in Field	250	cy. of	Crushed	@	$3.27	per c.y.=	$817.50	
Landing Rock	As Marked in Field	875	cy. of	Crushed	@	$11.53	per c.y.=	$10,088.75	
Slope Stabilization	233+50/241+05	130	cy. of	Riprap	@	$10.50	per c.y.=	$1,365.00	
Embankment Fill	233+50/241+05	80	cy. of	Crushed	@	$11.55	per c.y.=	$924.00	
							TOTAL ROCK		**$63,519.05**

SPECIAL PROJECTS

Grade, shape and roll existing rock on Sibley Road:0+00 to 223+10	223.10	stations @	$28.70	per station	$6,402.97	
Pull Ditch & End Haul Waste Material on Sibley Road: 0+00 to 223+10	223.10	stations @	$50.00	per station	$11,155.00	
Construct Landings: 236+75/TBD	2.00	lump sum @	$250.00	each	$500.00	
Construct Waste Area on A to B @ 271+15	2.00	hours @	$130.00	per hour	$260.00	
Construct Turnarounds: 272+00 & 284+45	2.00	lump sum @	$75.00	each	$150.00	
Constr. Ditch & End Haul Mat. on A-B (U. Lost Crk. Rd):232+30 to 233+50	1.20	stations @	$100.00	per station	$120.00	
Constr. Ditch & End Haul Mat. on A-B (U. Lost Crk. Rd):240+20 to 241+95	1.75	stations @	$100.00	per station	$175.00	
Constr. Ditch & End Haul Mat. On A-B (U. Lost Crk. Rd):244+85 to 248+65	3.80	stations @	$100.00	per station	$380.00	
Grade and Shape Improvement on A-B:223+10 to 276+20	53.10	stations @	$15.50	per station	$823.05	
Roll Subgrade w/ Vibratory Roller Prior to Rocking:A-B:223+10 to 276+20	53.10	stations @	$13.20	per station	$700.92	
Constr. Ditch & End Haul Mat. On A-B (U. Lost Crk. Rd):253+65 to 254+40	0.75	stations @	$100.00	per station	$75.00	
Clear & Grub Landing on A-B:275+10 to 276+10	0.20	acres @	$1,500.00	per acre	$300.00	
Excavate Material to Build Landing on A-B:275+10 to 276+20	965	c. y's.	$1.85	per c. y.	$1,785.25	
End Haul Material from Landing to Waste Area on A-B:271+15	965	c. y's.	$1.17	per c. y.	$1,129.05	
Compact Material @ Waste Area on A-B:271+15	965	c. y's.	$0.25	per c. y.	$241.25	
Clear & Grub Road Constuction on A-B:276+20 to 280+50	0.35	acres @	$1,500.00	per acre	$525.00	
Excavate Material for Road Construction on A-B:276+20 to 280+50	2765	c. y's.	$1.85	per c. y.	$5,115.25	
End Haul Material for Road Construction on A-B:275+20 to 280+50	2765	c. y's.	$1.32	per c. y.	$3,649.80	
Compact Material @ Waste Area on A-B:271+15	2765	c. y's.	$0.25	per c. y.	$691.25	
Clear & Grub for Rd. & Landing Constuction on A-B:284+00 to 285+70	0.23	acres @	$1,500.00	per acre	$345.00	
Excavate Material for Rd. & Landing Construction on A-B:284+00-285+70	2340	c. y's.	$1.85	per c. y.	$4,329.00	
End Haul Material for Rd. & Landing Construction on A-B: 284+00-285+70	2340	c. y's.	$1.66	per c. y.	$3,884.40	
Compact Material @ Waste Area on A-B:271+15	2340	c. y's.	$0.25	per c. y.	$585.00	
Grade and Shape New Construction on A-B:276+20 to 285+70	9.50	stations @	$15.50	per station	$147.25	
Roll Subgrade w/ Vibratory Roller Prior to Rocking:A-B:276+20 to 285+70	9.50	stations @	$13.20	per station	$125.40	
Grass seed and fertilize -	20	acres @	$220.00	per acre	$4,400.00	
Mulching -	2	acres @	$600.00	per acre	$1,200.00	
				TOTAL SPECIAL PROJECTS		**$49,194.84**

GRAND TOTAL **$127,564.79**

SUMMARY OF CONSTRUCTION COST

Sale: **Upper Cut** Road: **C to D**

Construction -	0+00	stations	Improvement -	50+15	stations	Reconstruction -	0+00	stations
	0.00	miles		0.95	miles		0.00	miles

SPECIAL PROJECTS

Grade, shape and roll existing rock on Sibley Road:223+10 to 273+25	50.15	stations @	$28.70	per station	$1,439.31	
Pull Ditch & End Haul Waste Material on Sibley Road: 223+10 to 273+25	50.15	stations @	$50.00	per station	$2,507.50	
Grass seed and fertilize -	1.15	acres @	$220.00	per acre	$253.00	
Mulching -	0.25	acres @	$600.00	per acre	$150.00	
				TOTAL SPECIAL PROJECTS		**$4,349.81**

GRAND TOTAL **$4,349.81**

SUMMARY OF CONSTRUCTION COST

Sale: **Upper Cut** Road: **E to F**

Construction -	0+00	stations	Improvement -	17+00	stations	Reconstruction -	0+00	stations
	0.00	miles		0.32	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -										
Roadside Brushing: 0+00 to 14+00					0.27	miles @	$600.00	per mile =	$162.00	
								TOTAL CLEARING AND GRUBBING		**$162.00**
IMPROVEMENT: EXCAVATION -										
Road Earthwork					17.00	sta. @	$100.00	per sta. =	$1,700.00	
ROCK										
0+00 to	17+00	940	cy. of	Crushed		@	$11.40	per c.y.=	$10,716.00	
Landing Rock	13+00 /17+00	350	cy. of	Crushed		@	$10.58	per c.y.=	$3,703.00	
Junction Rock	0+00	30	cy. of	Crushed		@	$4.64	per c.y.=	$139.20	
									TOTAL ROCK	**$14,558.20**
SPECIAL PROJECTS										
Construct 2 Landings: TBD & 17+00					2.00	lump sum @	$250.00	each	$500.00	
Construct Turnaround @ 14+00					1.00	lump sum @	$75.00	each	$75.00	
Grade and shape road -					17.00	stations @	$15.50	per station	$263.50	
Roll Road Segment Prior to Rocking					17.00	stations @	$13.20	per station	$224.40	
Grass seed and fertilize -					1.56	acres @	$220.00	per acre	$343.20	
								TOTAL SPECIAL PROJECTS		**$1,406.10**
								GRAND TOTAL		**$17,826.30**

SUMMARY OF CONSTRUCTION COST

Sale: **Upper Cut** Road: **G to H**

Construction -			Improvement -			Reconstruction -		
	5+25	stations		0+00	stations		0+00	stations
	0.10	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station				
0+00		5+25	20%		Outslope	$139	=		$729.75	
								TOTAL		**$729.75**

ROCK

0+00	to	5+25	290	cy. of	Crushed	@	$12.44	per c.y.=	$3,607.60		
Landing Rock		5+25	175	cy. of	Crushed	@	$11.46	per c.y.=	$2,005.50		
									TOTAL ROCK		**$5,613.10**

SPECIAL PROJECTS

Drift Material Back from 0+00 to 2+00	2.00	stations @	$250.00	per station	$500.00	
Grade and Shape New Construction	5.25	stations @	$15.50	per station	$81.38	
Roll subgrade w/ vibratory roller prior to rocking -	5.25	stations @	$13.20	per station	$69.30	
Construct Landing @ 5+25	1.00	lump sum @	$250.00	each	$250.00	
Grass seed and fertilize -	0.48	acres @	$220.00	per acre	$105.60	
				TOTAL SPECIAL PROJECTS		**$1,006.28**

GRAND TOTAL **$7,349.13**

SUMMARY OF CONSTRUCTION COST

Sale: **Upper Cut** Road: **I to J**

Construction -			Improvement -			Reconstruction -		
	3+00	stations		0+00	stations		0+00	stations
	0.06	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station				
0+00		3+00	20%		Outslope	$139	=		$417.00	
								TOTAL		**$417.00**

ROCK

0+00	to	3+00	180	cy. of	Crushed	@	$12.61	per c.y.=	$2,269.80		
Landing Rock		3+00	175	cy. of	Crushed	@	$11.60	per c.y.=	$2,030.00		
									TOTAL ROCK		**$4,299.80**

SPECIAL PROJECTS

Rip Rock Sill	1.00	lump sum @	$435.00	each	$435.00	
Grade and shape road -	3.00	stations @	$15.50	per station	$46.50	
Construct Landing @ 3+00	1.00	lump sum @	$250.00	each	$250.00	
Roll subgrade w/ vibratory roller prior to rocking -	3.00	stations @	$13.20	per station	$39.60	
Grass seed and fertilize -	0.28	acres @	$220.00	per acre	$61.60	
					TOTAL SPECIAL PROJECTS	**$832.70**

GRAND TOTAL **$5,549.50**

SUMMARY OF CONSTRUCTION COST

Sale: **Upper Cut** Road: **K to L**

Construction -	9+45	stations	Improvement -	0+00	stations	Reconstruction -	5+10	stations
	0.18	miles		0.00	miles		0.10	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		
1+00		1+55	25%		Outslope	$165	=	$90.75
6+75		7+75	20%		Outslope	$139	=	$139.00
8+75		9+45	20%		Outslope	$139	=	$97.30
							TOTAL	**$327.05**

RECONSTRUCTION: CLEARING AND GRUBBING -

Clear and Grub from 9+45 to 13+55	0.38	acres @	$980.00	per acre =	$372.40	
Clear and Grub Landing from 13+55 to 14+55	0.14	acres @	$980.00	per acre =	$137.20	
				TOTAL CLEARING AND GRUBBING		**$509.60**

RECONSTRUCTION: EXCAVATION -

Road Earthwork from 9+45 to 14+55	5.10	sta. @	$50.00	per sta. =	$255.00	
				TOTAL EXCAVATION		**$255.00**

CULVERTS - MATERIALS & INSTALLATION

Culverts							
100	LF of 18"	$1,750.00		0	LF of 24"	$0.00	
		$1,750.00				$0.00	
Culvert Stakes & Markers							
2	markers	$16.00					
		$16.00			**TOTAL CULVERTS**		**$1,766.00**

ROCK

0+00 to	14+55	800	cy. of	Crushed	@	$11.37	per c.y.=	$9,096.00
Culvert Backfill	5+50	20	cy. of	Crushed	@	$3.47	per c.y.=	$69.40
Landing Rock	14+55	175	cy. of	Crushed	@	$10.51	per c.y.=	$1,839.25
							TOTAL ROCK	**$11,004.65**

SPECIAL PROJECTS

Clear and Grub from 0+00 to 1+00 for Junction Construction	0.10	acres @	$1,500.00	per acre	$150.00
Excavate & Load End-Haul Mat. to Constr. Junction from 0+00 to 1+00	124.00	c. y.	$1.40	per c. y.	$173.60
Haul End-Haul Material to Construct Junction from 0+00 to 1+00	124.00	c. y.	$1.04	per c. y.	$128.96
Compact End-Haul Material from Junction Construction from 0+00 to 1+00	124.00	c. y.	$0.25	per c. y.	$31.00
Clear and Grub No Sidecast Construction from 1+55 to 6+75	0.60	acres @	$1,500.00	per acre	$900.00
Excavate and Load End-Haul Material from 1+55 to 6+75	5140.00	c. y.	$1.40	per c. y.	$7,196.00
Haul End-Haul Material from 1+55 to 6+55	5140.00	c. y.	$1.22	per c. y.	$6,270.80
Compact End-Haul Material from 1+55 to 6+55	5140.00	c. y.	$0.25	per c. y.	$1,285.00
Drift Material from 7+60 to 7+85 for fill back to 6+70 to 7+60	85.00	c. y.	$0.75	per c. y.	$63.75
Compact Material for Fill from 6+70 to 7+60	85.00	c. y.	$0.45	per c. y.	$38.25
Clear and Grub No Sidecast Construction from 7+55 to 8+75	0.11	acres @	$1,500.00	per acre	$165.00
Excavate and Load End-Haul Material from 7+55 to 8+75	300.00	c. y.	$1.40	per c. y.	$420.00
Haul End-Haul Material from 7+55 to 8+75	300.00	c. y.	$1.47	per c. y.	$441.00
Construct waste areas -	2.00	lump sum @	$250.00	each	$500.00
Construct Turnaround @ 12+55	1.00	lump sum @	$75.00	each	$75.00
Construct Landing from 13+55 to 14+55	1.00	@	$250.00	each	$250.00
Grade and Shape Road prior to Rocking	14.55	stations @	$15.50	per station	$225.53
Roll Subgrade w/ Vibratory Roller prior to Rocking	14.55	stations @	$13.20	per station	$192.06
Grass seed and fertilize -	1.45	acres @	$220.00	per acre	$319.00
Mulching Waste Areas	0.25	acres @	$600.00	per acre	$150.00
				TOTAL SPECIAL PROJECTS	**$18,974.95**

GRAND TOTAL **$32,837.25**

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Stockpile	Location:	Stockpile 1	
Sale:	**Upper Cut**		Road: Sibley, M.P. 3.5	720 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	720 c.y.
Drill Pct.:	0%		In Place Total:	514 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. $100.00

Load Dump Truck: $0.70 /cu.yd. x 720 cu.yds. = $504.00

Subtotal $604.00

TOTAL PRODUCTION COSTS $604.00

Base Cost= $0.84 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
A to B 5075 6035 (Crushed)	4.37	2.45	0.84	7.66	720		$5,515.20
				Total C.Y.	720	Sub Total	$5,515.20

TOTAL ROCKING COSTS $5,515.20

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Stockpile	Location:	Stockpile 2	
Sale:	**Upper Cut**		Road: Sibley, M.P. 3.9	930 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	930 c.y.
Drill Pct.:	0%		In Place Total:	664 c.y.

Load Dump Truck: $0.70 /cu.yd. x 930 cu.yds. = $651.00

Subtotal $651.00

TOTAL PRODUCTION COSTS $651.00

Base Cost= $0.70 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
A to B 22310 26000 (Crushed)	2.07	2.45	0.70	5.22	630		$3,288.60
A to B Culvert Backfill (Crushed)	1.97	0.60	0.70	3.27	250		$817.50
E to F Junction Rock (Crushed)	1.49	2.45	0.70	4.64	30		$139.20
K to L Culvert Backfill (Crushed)	2.17	0.60	0.70	3.47	20		$69.40
				Total C.Y.	930	Sub Total	$4,314.70

TOTAL ROCKING COSTS $4,314.70

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed	Location:	NW 1/4, Sec. 22, T03N, R08W, W. M.	
Sale:	**Upper Cut**		Road: Sibley, M. P. 5.1	7630 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	7630 c.y.
Drill Pct.:	0%		In Place Total:	5450 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.							$1,000.00
Rip Rock:	$1.90	/cu.yd.	x	5450	cu.yds.	=	$10,355.00
Push Rock:	$0.60	/cu.yd.	x	7630	cu.yds.	=	$4,578.00
Load Crusher:	$0.60	/cu.yd.	x	7630	cu.yds.	=	$4,578.00
Crush Rock:	$2.35	/cu.yd.	x	7630	cu.yds.	=	$17,930.50
Load Dump Truck:	$0.70	/cu.yd.	x	7630	cu.yds.	=	$5,341.00
					Subtotal		$43,782.50

Move In/Set-up Crusher	1		$3,196.00		$3,196.00
Move in Roller and Compactor	1	@	$569.25	=	$569.25
Move in Grader	1	@	$229.95	=	$229.95
Move in D-8	1	@	$1,042.56	=	$1,042.56
Move in Loader	1	@	$877.53	=	$877.53
Move in Excavator	1	@	$1,162.16	=	$1,162.16
Move in Trucks	4	@	$187.29	=	$749.16
Move in Water Truck	1	@	$220.14	=	$220.14
				Subtotal	$8,046.75

			TOTAL PRODUCTION COSTS	$51,829.25
Base Cost=	$6.79	Per Cu.Yd.		

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
A to B 22310 28590 (Crushed)	2.76	2.45	6.79	12.00	3460		$41,520.00
A to B Landing Rock (Crushed)	3.34	1.40	6.79	11.53	875		$10,088.75
A to B Slope Stabilization (Riprap)	2.31	1.40	6.79	10.50	130		$1,365.00
A to B Embankment Fill (Crushed)	2.31	2.45	6.79	11.55	80		$924.00
E to F 0 1700 (Crushed)	2.16	2.45	6.79	11.40	940		$10,716.00
E to F Landing Rock (Crushed)	2.39	1.40	6.79	10.58	350		$3,703.00
G to H 0 525 (Crushed)	3.20	2.45	6.79	12.44	290		$3,607.60
G to H Landing Rock (Crushed)	3.27	1.40	6.79	11.46	175		$2,005.50
I to J 0 300 (Crushed)	3.37	2.45	6.79	12.61	180		$2,269.80
I to J Landing Rock (Crushed)	3.41	1.40	6.79	11.60	175		$2,030.00
K to L 0 1455 (Crushed)	2.13	2.45	6.79	11.37	800		$9,096.00
K to L Landing Rock (Crushed)	2.32	1.40	6.79	10.51	175		$1,839.25
				Total C.Y.	7630	Sub Total	$89,164.90

	TOTAL ROCKING COSTS	$89,164.90

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Upper Cut**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
30.0	Pavement	30
7.0	Main Lines	7
9.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move ($/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Brush Cutter	$787.75		$4.00	0.00	0.00	0	$0.00	$787.75
1	Graders	$880.71		$3.65	0.00	0.00	0	$0.00	$880.71
1	Rollers (smooth/grid) & Compactors	$569.25		$5.00	0.00	0.00	0	$0.00	$569.25
1	Excavators (Large)	$1,185.16	1	$44.80	0.00	0.00	0	$0.00	$1,185.16
1	Tractor (D8)	$1,088.56	2	$15.10	0.00	0.00	0	$0.00	$1,088.56
3	Dump Truck (10 cy +)	$690.0		$2.85	0.00	0.00	0	$0.00	$690.00
1	Water Truck (1500 Gal)	$191.79		$2.85	0.00	0.00	0	$0.00	$191.79

	TOTAL MOVE-IN COSTS:	$5,393.22

"STEWARDSHIP IN FORESTRY"

Upper Cut

Volume Summary

Area 1-Harvest Type MC				
	56 acres			
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	20.6	1152	5%	1094
Hemlock	1.4	80	5%	76
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	6.3	354	10%	319
TOTAL	28.3	1586		1489

Areas 2-Harvest Type PC				
	88 acres			
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	3.6	316	5%	300
Hemlock	2.3	206	5%	196
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	7.7	678	10%	611
TOTAL	13.6	1200		1106

Areas 3-Harvest Type MC				
	80 acres			
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	15.3	1221	5%	1160
Hemlock	0.3	23	5%	22
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	3.3	262	10%	235
TOTAL	18.8	1505		1417

"STEWARDSHIP IN FORESTRY"

Upper Cut

Volume Summary

Areas 4-Harvest Type MC				
		12 acres		
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	4.8	58	5%	55
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	14.5	174	10%	157
TOTAL	19.3	231		211

"STEWARDSHIP IN FORESTRY"

Upper Cut

Volume Summary

TOTAL SALE VOLUME	**236**	**acres**
SPECIES	Cruised Net (MBF)	Net Sale (MBF)
Douglas-fir	2746	2609
Hemlock	309	294
Spruce	0	0
Noble Fir	0	0
Red Alder	1468	1321
TOTAL	4523	4222

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
Upper Cut

1. Type of Sale
Partial Cut/Regeneration harvest, Recovery.

2. Legal Description
Portions of Sections 21 and 28, T3N, R8W, W.M., Tillamook County, Oregon.

3. Sale Acreage
Sale acreage was determined by GIS.

	ACRES	
	Gross	**Net**
Area 1 (MC)	66	56
Area 2 (PC)	101	88
Area 3 (MC)	112	80
Area 4 (MC)	46	12

Gross Acres
Area within the Timber Sale Boundary signs.

Net acres
Used for calculating the advertised volume.
Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. Cruising Procedures

A. Cruise Method
A total of 47 variable radius plots were used on the sale area. Resulting in an average of 5.5 trees cruised per plot. Plots were spaced on a rectangular grid 350' x 700'. All plots were full cruise plots. All conifer 8 inches DBH and greater containing 20 net board feet and all hardwoods 9 inches DBH and greater containing 30 net board feet were recorded on all plots. Species were recorded on all trees and measured for bole height, diameter, and form factor.

B. Plot size
A basal area factor of 33.61 was used for the sale area. The point of observation was 4.5 feet.

C. Grading System
All trees were graded according to Columbia River Log Scaling and Grading Rules.

5. Computation Procedure

Tree heights were recorded to a 6 inch top outside bark for all conifers; or three tenths (0.3) of DBH, whichever was greater. All diameters were measured outside bark to the nearest inch. All conifers 8 inches DBH and greater containing 20 net board feet and all hardwoods 9 inches DBH and greater containing 30 net board feet were sampled for tree species, DBH, form factor, merchantable height, visible defect and grade.

Log lengths all favored 40 feet. Height and diameter measurement standards were to the nearest foot or inch respectively. The volumes and statistics for the timber cruised were computed using Super ACE 2004, developed by Atterbury Consultants, Inc. The standard error and the coefficient of variation for the cruise as based on net board feet per acre shown in the table below.

Cruise Statistics (Net/BF Volume Per Acre)			
Area	Number of Plots	SE (%)	CV (%)
1	8	21.1	56.0
2	17	12.8	51.1
3	17	9.5	38.0
4	5	31.3	63.0
Total	54	9.0	66.2

6. Hidden Defect and Breakage

A 5% and 10 % hidden defect and breakage was applied to conifers and hardwoods respectively. This was in addition to visual defect deducted during the cruise.

7. Timber Description

Areas 1, 2, 3, and 4 are mixed Douglas fir, western hemlock and red alder dominated stands. Areas 1, 3, and 4 tend to be more Douglas fir and alder mix. Area 2 is an alder stand with scattered Douglas-fir.

All areas burned in the 1945 Wilson River/Salmonberry fire. Portions of Area 1 and 4 were seeded in 1965-1966. Portions of Area 3 were seeded in 1963-1964, and 1972-1973.

Portions of Area 3 contain sprayed alder.

Sale Area – Species (% by volume)	**DBH**	**Merchantable Bole Height**	**Merchantable Top**
Area 1 - Douglas-fir (73%)	15.5	68	5”
Area 1 - Alder (21%)	16.1	60	6”
Area 1 – Hemlock (5%)	16.8	79	5”
Area 2 – Douglas-fir (27%)	12.3	60	5”
Area 2 -- Alder (55%)	14.9	65	6”

Area 2 – Hemlock (18%)	13.3	64	5”
Area 3 - Douglas-fir (81%)	15.4	59	5”
Area 3 - Alder (17%)	15.4	36	6”
Area 3 – Hemlock (1%)	11.8	48	5”
			5”
Area 4 – Douglas-fir (26%)	17.1	80	5”
Area 4 – Alder (74%)	14.1	51	6”

8. Cruiser Names/Dates

Areas 1, 2, 3, and 4 cruised under contract in summer 2011. Revenue Distribution FDF 100%

Tax Code: 56-1

Deed Numbers: 96, 70, 146

9. Attachments

Stand Table (partial cut)

Volume Summaries

Log Stock Tables

Logging Plan Map

10. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave
DF – Douglas-fir take
RL – Red alder leave
RA – Red alder take
RC – Western red cedar
SL – Sitka spruce leave
SS – Sitka spruce take
WL – Western hemlock leave
WH – Western hemlock take
OC—snags

TC TLOGSTVB

Log Stock Table - MBF

Project: UPPERCUT

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 1	0100	56.00	8	47

T03N R08W S21 T0100

Date 1/8/2013

Time 8:22:40AM

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+
DF		CO	2	32	27		27	2.3						27						
DF		CO	2	36	62	8.5	57	5.0						30	27					
DF		CO	2	40	191	1.9	188	16.3						154	34					
DF		CO	3	12	9		9	.7						9						
DF		CO	3	32	13	22.2	10	.9				10								
DF		CO	3	36	218	4.6	208	18.1			56	24	128							
DF		CO	3	40	370	2.0	363	31.5			32	129	171	30						
DF		CO	4	12	29		29	2.5		1				12	16					
DF		CO	4	14	11		11	.9		7		3								
DF		CO	4	15	5		5	.5		5										
DF		CO	4	16	33	8.2	30	2.6		14						16				
DF		CO	4	17	4		4	.3		4										
DF		CO	4	19	7		7	.6		7										
DF		CO	4	23	3		3	.3		3										
DF		CO	4	24	4	33.3	3	.2		3										
DF		CO	4	25	7		7	.6		7										
DF		CO	4	26	11		11	1.0		11										
DF		CO	4	27	6		6	.5		6										
DF		CO	4	28	8		8	.7		8										
DF		CO	4	29	8		8	.7		4	4									
DF		CO	4	30	12		12	1.0		12										
DF		CO	4	32	27		27	2.3		5				22						
DF		CO	4	33	7		7	.6		7										
DF		CO	4	34	16		16	1.4		16										
DF		CO	4	36	29		29	2.5		8		21								
DF		CO	4	37	6		6	.5		6										
DF		CO	4	38	6		6	.6		6										
DF		CO	4	40	55		55	4.8		32			24							
DF		Totals			1,185	2.8	1,152	71.0		173	92	188	323	284	77	16				
RA		H	2	24	24	5.9	23	6.4							23					
RA		H	2	26	27		27	7.6							27					
RA		H	2	40	34	4.2	33	9.2						33						
RA		H	3	28	27		27	7.7					27							
RA		H	3	32	57	4.0	55	15.5					30	25						
RA		H	3	40	65	5.6	61	17.2					61							
RA		H	4	15	5		5	1.3			5									
RA		H	4	17	5		5	1.3				5								
RA		H	4	20	9		9	2.6				9								
RA		H	4	22	34		34	9.5			13		21							
RA		H	4	25	4		4	1.2			4									
RA		H	4	26	27		27	7.7					27							
RA		H	4	27	7		7	1.9			7									
RA		H	4	28	19		19	5.4			9	10								
RA		H	4	34	10		10	2.8			10									
RA		H	4	40	9		9	2.4			9									
RA		Totals			363	2.4	354	21.8			56	24	166	58	50					
WH		CO	2	40	32	4.2	31	38.9						31						
WH		CO	3	40	34		34	42.9					34							

TC TLOGSTVB

Log Stock Table - MBF

Project: UPPERCUT

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 1	0100	56.00	8	47

T03N R08W S21 T0100

Date 1/8/2013

Time 8:22:40AM

Spp	S T	So	Grade	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+
WH		CO	4	36	5		5	6.8		5										
WH		CO	4	37	9		9	11.4		9										
WH		Totals			81	1.7	80	4.9		15			34	31						
DL		CO	2	40	31	3.4	30	82.4							30					
DL		CO	3	40	6		6	17.6			6									
DL		Totals			37	2.9	36	2.2			6				30					
Total All Species					1,666	2.7	1,622	100.0		187	154	211	523	373	156	16				

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: UPPERCUT

Page 1
Date 1/8/2013
Time 8:22:40AM

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
03N	08W	21	AREA 1	0100	56.00	8	47	S	W

T03N R08W S21 T0100

Spp	ST	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CO	2	23	3.2	5,010	4,852	272			100				10	90	38	225	1.35	21.6
DF		CO	3	51	3.3	10,886	10,524	589		93	7		1		2	97	37	108	0.71	97.0
DF		CO	4	26	1.4	5,267	5,194	291	59	18	17	6	30	20	17	33	26	39	0.42	132.4
DF	**Totals**			71	2.8	21,163	20,569	1,152	15	52	31	1	8	5	8	79	31	82	0.65	251.0
RA		H	2	23	3.3	1,524	1,473	82			100			60		40	30	193	1.49	7.6
RA		H	3	40	3.9	2,666	2,561	143		82	18			19	38	43	34	147	1.05	17.4
RA		H	4	37		2,287	2,287	128		100			14	71	8	7	25	46	0.51	49.3
RA	**Totals**			22	2.4	6,477	6,321	354		70	30		5	48	18	29	27	85	0.78	74.3
WH		CO	2	38	4.2	579	555	31			100					100	40	230	1.45	2.4
WH		CO	3	43		611	611	34		100						100	40	150	0.89	4.1
WH		CO	4	19		259	259	15	100							100	37	40	0.41	6.5
WH	**Totals**			5	1.7	1,449	1,425	80	18	43	39					100	38	110	0.77	13.0
DL		CO	2	82	3.4	549	530	30			100					100	40	280	1.74	1.9
DL		CO	3	18		114	114	6		100						100	40	60	0.63	1.9
DL	**Totals**			2	2.9	663	644	36		18	82					100	40	170	1.18	3.8
Type Totals					2.7	29,752	28,960	1,622	12	55	33	1	7	14	9	70	31	85	0.69	342.0

TC TSTNDSUM

Stand Table Summary

Project UPPERCUT

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 1	0100	56.00	8	47

Date: 01/08/201
Time: 8:27:04AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		9	1	88	93	11.318	5.00	11.32	9.7	40.0	3.13	110	453	175	62	25
DF		10	2	90	88	18.335	10.00	36.67	7.0	35.0	7.31	256	1,283	409	144	72
DF		12	1	89	88	6.366	5.00	12.73	11.2	45.0	4.06	142	573	227	80	32
DF		14	1	89	93	4.677	5.00	9.35	17.7	75.0	4.71	165	702	264	93	39
DF		15	1	87	93	4.074	5.00	8.15	17.2	75.0	4.01	141	611	224	79	34
DF		16	9	87	87	32.367	45.00	64.73	21.5	83.2	39.67	1,392	5,387	2,222	780	302
DF		17	4	86	95	12.688	20.00	31.72	21.3	83.0	19.27	676	2,633	1,079	379	147
DF		18	5	87	100	14.147	25.00	28.29	30.6	117.0	24.71	867	3,310	1,384	486	185
DF		19	3	87	106	7.618	15.00	22.85	23.4	98.9	15.27	536	2,260	855	300	127
DF		20	1	88	114	2.292	5.00	6.88	28.7	113.3	5.63	197	779	315	111	44
DF		21	2	86	85	4.158	10.00	8.32	37.4	142.5	8.86	311	1,185	496	174	66
DF		23	1	86	110	1.733	5.00	5.20	33.3	133.3	4.93	173	693	276	97	39
DF		24	1	86	105	1.592	5.00	4.77	34.0	146.7	4.86	162	700	272	91	39
DF		Totals	32	88	93	121.365	160.00	250.99	20.4	82.0	146.42	5,129	20,569	8,199	2,872	1,152
RA		13	1	87	91	5.424	5.00	10.85	14.0	60.0	4.18	152	651	234	85	36
RA		14	1	83	65	4.677	5.00	9.35	13.0	55.0	3.33	121	514	187	68	29
RA		15	2	87	91	8.149	10.00	20.37	16.0	68.0	8.98	327	1,385	503	183	78
RA		16	2	77	70	7.162	10.00	7.16	27.8	110.0	5.48	199	788	307	112	44
RA		18	2	85	78	5.659	10.00	11.32	27.1	97.5	8.44	307	1,103	473	172	62
RA		19	3	85	91	7.618	15.00	15.24	31.2	123.3	13.09	476	1,879	733	267	105
RA		Totals	11	84	82	38.690	55.00	74.29	21.3	85.1	43.51	1,582	6,321	2,436	886	354
WH		15	1	87	102	4.074	5.00	8.15	24.0	95.0	6.27	196	774	351	110	43
WH		20	1	90	92	2.411	5.00	4.82	38.4	135.0	5.93	185	651	332	104	36
WH		Totals	2	88	98	6.485	10.00	12.97	29.4	109.9	12.20	381	1,425	683	213	80
DL		22	1	89	100	1.894	5.00	3.79	47.4	170.0	4.94	180	644	277	101	36
DL		Totals	1	89	100	1.894	5.00	3.79	47.4	170.0	4.94	180	644	277	101	36
OC		22	1	88	39	1.894	5.00									
OC		Totals	1	88	39	1.894	5.00									
Totals			47	87	90	170.328	235.00	342.04	21.3	84.7	207.06	7272	28,960	11,595	4,072	1,622

TC TLOGSTVB

Log Stock Table - MBF

Project: UPPERCUT

T03N R08W S21 T0100

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 2	0100	88.00	17	95

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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		CO	2	16	10		10	.9								10				
DL		CO	2	36	172	5.2	163	13.8						19	116	28				
DL		CO	2	40	621	2.0	608	51.5						209	231	168				
DL		CO	3	32	7		7	.6				7								
DL		CO	3	33	4		4	.3			4									
DL		CO	3	36	34		34	2.9				34								
DL		CO	3	40	243	.3	242	20.5			19	87	137							
DL		CO	4	12	16	15.0	13	1.1						5		9				
DL		CO	4	13	1		1	.1		1										
DL		CO	4	16	5		5	.4		5										
DL		CO	4	17	7		7	.6		7										
DL		CO	4	18	2		2	.2		2										
DL		CO	4	19	5		5	.5		4	1									
DL		CO	4	20	3		3	.3		3										
DL		CO	4	22	9		9	.8		3				6						
DL		CO	4	23	2		2	.2			2									
DL		CO	4	24	3		3	.2		3										
DL		CO	4	25	2		2	.2		2										
DL		CO	4	27	3		3	.2		3										
DL		CO	4	28	26		26	2.2									26			
DL		CO	4	29	2		2	.2		2										
DL		CO	4	31	4		4	.3		4										
DL		CO	4	34	4		4	.4		4										
DL		CO	4	35	8		8	.6		8										
DL		CO	4	40	11		11	1.0		11										
DL		Totals			1,204	2.1	1,180	40.4		63	25	128	137	238	347	215	26			
RA		H	2	12	9		9	1.4						9						
RA		H	2	16	15		15	2.2								15				
RA		H	2	24	16	8.3	14	2.1						14						
RA		H	2	26	17		17	2.5						17						
RA		H	2	30	20		20	2.9						20						
RA		H	2	32	22		22	3.3						22						
RA		H	2	36	23		23	3.4						23						
RA		H	2	40	17	11.1	15	2.3							15					
RA		H	3	16	8		8	1.2					8							
RA		H	3	24	20		20	3.0					20							
RA		H	3	32	68		68	10.1					47	21						
RA		H	3	36	64	2.6	62	9.2					62							
RA		H	3	40	49	2.0	48	7.0					29	19						
RA		H	4	11																
RA		H	4	12	8		8	1.1					8							
RA		H	4	13	6		6	.9			6									
RA		H	4	15	3		3	.5			3									
RA		H	4	16	1		1	.2			1									
RA		H	4	20	18		18	2.6			3	8	6							
RA		H	4	22	12		12	1.7			12									
RA		H	4	24	35		35	5.2			13	10	12							
RA		H	4	25	18	7.4	16	2.4			16									
RA		H	4	27	4		4	.5			4									
RA		H	4	30	6	25.0	4	.7			4									

TC TLOGSTVB

Log Stock Table - MBF

Project: UPPERCUT

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 2	0100	88.00	17	95

T03N R08W S21 T0100

Date 1/8/2013

Time 8:37:51AM

Spp	ST	Sort	Grade	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+
RA		H	4	32	80	15.5	67	9.9				67								
RA		H	4	34	21		21	3.2			21									
RA		H	4	35	10		10	1.4			10									
RA		H	4	36	31	6.3	29	4.3			12	17								
RA		H	4	39	23		23	3.4			23									
RA		H	4	40	79	2.4	77	11.4				48	29							
RA		Totals			703	3.6	678	23.2			129	152	221	146	15	15				
WL		CO	2	32	27		27	5.1							27					
WL		CO	2	36	81	3.9	78	15.1							47	31				
WL		CO	2	40	34		34	6.6							34					
WL		CO	3	16	8		8	1.5						8						
WL		CO	3	32	24	7.1	22	4.2					22							
WL		CO	3	36	131	.9	130	25.2				36	37	57						
WL		CO	3	40	117	.8	116	22.5				35	30	51						
WL		CO	4	12	11		11	2.0							11					
WL		CO	4	15	3		3	.6		3										
WL		CO	4	16	3		3	.6		3										
WL		CO	4	17	2		2	.4		2										
WL		CO	4	18	4		4	.8		4										
WL		CO	4	19	5		5	.9		5										
WL		CO	4	20	4		4	.7				4								
WL		CO	4	21	2		2	.3		2										
WL		CO	4	25	4		4	.7		4										
WL		CO	4	27	14		14	2.7		14										
WL		CO	4	36	11		11	2.1		7						4				
WL		CO	4	40	41		41	7.9			16								24	
WL		Totals			524	1.3	517	17.7		43	16	75	90	115	118	35			24	
DF		CO	2	40	52	4.1	49	15.6						49						
DF		CO	3	32	18	14.3	16	5.0				16								
DF		CO	3	36	23		23	7.2			23									
DF		CO	3	40	176		176	55.6		19	41	20	95							
DF		CO	4																	
DF		CO	4	15	3		3	.8		3										
DF		CO	4	16	8		8	2.4		8										
DF		CO	4	17	6		6	2.0		6										
DF		CO	4	22	13		13	4.1		13										
DF		CO	4	24	3		3	1.0			3									
DF		CO	4	26	5		5	1.6		5										
DF		CO	4	38	7		7	2.1		7										
DF		CO	4	40	8		8	2.5		8										
DF		Totals			321	1.5	316	10.8		68	67	36	95	49						
WH		CO	3	16	8	25.0	6	2.8				6								
WH		CO	3	32	41	4.8	39	18.8				12	27							
WH		CO	3	36	40		40	19.2			23	17								
WH		CO	3	40	79		79	38.5				27	52							
WH		CO	4	13	6		6	2.8		6										
WH		CO	4	18	3		3	1.6		3										
WH		CO	4	20	15		15	7.5					15							

TC TLOGSTVB

Log Stock Table - MBF

Project: UPPERCUT

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 2	0100	88.00	17	95

Date 1/8/2013
Time 8:37:51AM

Spp	ST	Sort	Grade	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+
WH		CO	4	24	6		6	2.8		6										
WH		CO	4	30	5		5	2.6		5										
WH		CO	4	35	7		7	3.3		7										
WH		Totals			210	1.8	206	7.1		27	23	61	95							
RL		H	4	13	3		3	15.4			3									
RL		H	4	40	20	8.3	19	84.6				19								
RL		Totals			24	7.1	22	.8			3	19								
Total All Species					2,986	2.2	2,919	100.0		200	265	470	639	549	481	266	26		24	

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: UPPERCUT

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T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
03N	08W	21	AREA 2	0100	88.00	17	95	S	W

T03N R08W S21 T0100

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
DL		CO	2	66	2.7	9,121	8,875	781			95	5	1			99	39	285	1.55	31.2
DL		CO	3	24	.2	3,274	3,266	287		100					4	96	39	115	0.76	28.4
DL		CO	4	10	2.1	1,289	1,263	111	56	3	10	31	34	42	14	10	24	41	0.45	31.1
DL	**Totals**			40	2.1	13,684	13,403	1,180	5	25	64	6	4	4	2	90	34	148	1.00	90.7
RA		H	2	20	2.3	1,587	1,550	136			89	11	18	38	16	28	26	157	1.44	9.9
RA		H	3	30	1.3	2,378	2,348	207		81	19		4	10	33	53	32	134	0.97	17.5
RA		H	4	50	5.4	4,028	3,811	335		100			11	21	29	39	28	54	0.48	70.4
RA	**Totals**			23	3.6	7,993	7,709	678		74	24	2	10	21	28	41	28	79	0.67	97.8
WL		CO	2	26	2.3	1,614	1,578	139			100				19	81	36	307	1.63	5.1
WL		CO	3	54	1.4	3,180	3,137	276		58	42		3		8	89	36	135	0.83	23.2
WL		CO	4	20		1,159	1,159	102	42	20	15	24	30	19		51	24	47	0.47	24.8
WL	**Totals**			18	1.3	5,954	5,874	517	8	35	52	5	7	4	9	79	31	111	0.79	53.1
DF		CO	2	15	4.1	585	561	49			100					100	40	209	1.20	2.7
DF		CO	3	68	1.2	2,465	2,435	214	9	91					7	93	39	85	0.49	28.8
DF		CO	4	17		592	592	52	94	6			32	40		28	19	20	0.27	29.2
DF	**Totals**			11	1.5	3,642	3,589	316	21	63	16		5	7	5	83	29	59	0.47	60.7
WH		CO	3	79	2.3	1,903	1,859	164		100			4		24	73	34	96	0.62	19.4
WH		CO	4	21		484	484	43	64	36			58	26	16		21	29	0.34	16.8
WH	**Totals**			7	1.8	2,386	2,342	206	13	87			15	5	22	58	28	65	0.52	36.2
RL		H	4	100	7.1	268	249	22		100			15			85	27	65	0.65	3.8
RL	**Totals**			1	7.1	268	249	22		100			15			85	27	65	0.65	3.8
Type Totals					2.2	33,928	33,167	2,919	7	47	42	4	7	8	11	74	30	97	0.74	342.3

TC TSTNDSUM

Stand Table Summary

Project UPPERCUT

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 2	0100	88.00	17	95

T03N R08W S21 T0100

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Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DL		15	1	89	108	1.917	2.35	3.83	23.0	95.0	2.42	88	364	213	77	32
DL		17	1	89	126	1.493	2.35	4.48	23.5	96.7	2.89	105	433	254	93	38
DL		18	5	90	117	6.657	11.76	17.31	28.2	115.4	13.40	487	1,997	1,179	429	176
DL		19	3	88	115	3.585	7.06	9.56	29.7	116.3	7.82	284	1,111	688	250	98
DL		20	2	90	117	2.157	4.71	6.47	30.5	135.0	5.44	198	874	478	174	77
DL		21	8	89	119	7.826	18.82	22.50	35.7	160.4	22.08	803	3,610	1,943	707	318
DL		22	4	89	114	3.565	9.41	11.59	32.0	148.5	10.34	370	1,720	910	326	151
DL		23	3	89	125	2.447	7.06	7.34	42.0	187.8	8.48	308	1,378	746	271	121
DL		24	2	88	123	1.530	4.71	4.59	42.2	183.5	5.32	194	842	468	170	74
DL		25	1	91	142	.690	2.35	2.07	57.2	276.7	3.26	118	573	287	104	50
DL		28	1	88	115	.550	2.35	2.20	41.5	227.5	2.51	91	501	221	80	44
DL		68	1	89	191	.093	2.35									
DL		Totals	32	89	118	32.511	75.29	91.94	33.1	145.8	83.97	3,048	13,403	7,389	2,682	1,180
RA		10	1	86	80	4.314	2.35	4.31	14.5	60.0	1.72	62	259	151	55	23
RA		12	2	87	104	5.992	4.71	11.98	12.1	47.5	4.00	146	569	352	128	50
RA		13	3	89	97	7.658	7.06	15.32	15.0	65.0	6.30	229	996	554	202	88
RA		14	5	89	105	11.005	11.76	19.81	20.1	85.6	10.92	397	1,695	961	350	149
RA		15	3	87	100	5.752	7.06	15.34	16.4	72.5	6.94	252	1,112	611	222	98
RA		16	1	86	91	1.685	2.35	3.37	24.9	95.0	2.31	84	320	203	74	28
RA		17	5	87	87	7.464	11.76	16.42	17.5	76.4	8.05	287	1,254	708	253	110
RA		18	2	88	89	2.450	4.33	4.90	30.8	114.6	4.14	151	561	365	133	49
RA		19	2	84	80	2.390	4.71	3.59	40.7	143.3	4.02	146	514	353	128	45
RA		23	1	83	71	.816	2.35	1.63	28.9	145.0	1.30	47	236	114	41	21
RA		28	1	83	67	.550	2.35	1.10	61.0	175.0	1.85	67	193	162	59	17
RA		Totals	26	87	95	50.076	60.80	97.77	19.1	78.8	51.54	1,869	7,709	4,535	1,644	678
WL		9	1	90	43	5.326	2.35	5.33	6.6	30.0	1.12	35	160	98	31	14
WL		15	3	94	108	5.752	7.06	13.42	21.7	98.6	9.33	292	1,323	821	257	116
WL		16	2	94	117	3.370	4.71	10.11	21.2	98.3	6.85	214	994	603	189	87
WL		18	1	84	94	1.331	2.35	3.99	18.2	83.3	2.33	73	333	205	64	29
WL		19	2	88	110	2.390	4.71	5.98	30.1	126.0	5.75	180	753	506	158	66
WL		20	3	88	103	3.236	7.06	9.71	24.0	114.4	7.46	233	1,111	657	205	98
WL		21	1	92	112	.978	2.35	2.93	35.5	173.3	3.33	104	509	293	92	45
WL		23	1	83	115	.816	2.35	2.45	34.6	150.0	2.71	85	367	238	74	32
WL		56	1	89	117	.138	2.35	.28	247.8	1180.0	2.18	68	325	192	60	29
WL		Totals	15	91	94	23.337	35.29	54.19	23.7	108.4	41.06	1,283	5,874	3,614	1,129	517
DF		9	1	90	89	5.326	2.35	10.65	4.9	20.0	1.47	52	213	130	46	19
DF		10	2	88	60	8.628	4.71	12.94	6.8	33.3	2.52	88	431	222	78	38
DF		11	1	89	91	3.565	2.35	7.13	9.8	45.0	2.00	70	321	176	62	28
DF		12	1	89	80	2.996	2.35	5.99	10.7	40.0	1.83	64	240	161	57	21
DF		14	1	91	112	2.201	2.35	4.40	21.5	95.0	2.70	95	418	237	83	37
DF		15	3	88	102	5.752	7.06	11.50	21.7	91.7	7.11	249	1,055	626	220	93
DF		17	1	89	123	1.493	2.35	4.48	22.6	96.7	2.88	101	433	254	89	38
DF		19	1	88	143	1.195	2.35	3.59	30.7	133.3	3.13	110	478	276	97	42
DF		Totals	11	89	88	31.156	25.88	60.69	13.7	59.1	23.65	830	3,589	2,081	730	316
WH		10	1	93	80	4.314	2.35	8.63	7.7	35.0	2.12	66	302	187	58	27
WH		13	1	93	94	2.553	2.35	2.55	24.5	120.0	2.00	63	306	176	55	27
WH		14	2	91	102	4.402	4.71	13.21	12.4	58.3	5.25	164	770	462	144	68
WH		15	3	90	87	5.887	7.06	11.77	19.9	81.9	7.49	234	964	659	206	85

TC TSTNDSUM

Stand Table Summary

Project UPPERCUT

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 2	0100	88.00	17	95

Date: 01/08/201
Time: 8:37:53AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
WH		Totals	7	91	90	17.155	16.47	36.16	14.6	64.8	16.87	527	2,342	1,485	464	206
RL		15	1	85	87	1.917	2.35	3.83	17.2	65.0	1.81	66	249	159	58	22
RL		Totals	1	85	87	1.917	2.35	3.83	17.2	65.0	1.81	66	249	159	58	22
OC		10	1	66	50	4.314	2.35									
OC		12	1	65	37	2.996	2.35									
OC		45	1	88	74	.213	2.35									
OC		Totals	3	66	46	7.523	7.06									
Totals			95	88	95	163.676	223.15	344.58	22.1	96.3	218.90	7623	33,167	19,263	6,708	2,919

TC TLOGSTVB

Log Stock Table - MBF

Project: UPPERCUT

T03N R08W S21 T0200

T03N R08W S21 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 3	0200	80.00	17	98

Page 1
Date 1/24/2013
Time 9:28:41AM

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+
DF		CO	2	36	139	2.1	136	11.1						22	23	70	21			
DF		CO	2	40	209	8.4	191	15.7						90	43	19	40			
DF		CO	3	18	10		10	.8							10					
DF		CO	3	20	14		14	1.2								14				
DF		CO	3	32	22		22	1.8			22									
DF		CO	3	36	106	1.7	104	8.5			33	30	17	14	10					
DF		CO	3	40	564	4.8	537	44.0			199	135	147	20	37					
DF		CO	4	12	6		6	.5		6										
DF		CO	4	13	5		5	.4		3	1	1								
DF		CO	4	14	11		11	.9		11										
DF		CO	4	15	18		18	1.4		15	1		2							
DF		CO	4	16	4		4	.4		4										
DF		CO	4	17	2		2	.2			1	1								
DF		CO	4	18	11		11	.9		11										
DF		CO	4	19	9		9	.7		9										
DF		CO	4	20	19	3.8	18	1.5		17	1									
DF		CO	4	24	9		9	.7		9										
DF		CO	4	26	8	17.7	6	.5		6										
DF		CO	4	28	4		4	.3		4										
DF		CO	4	30	12		12	1.0		12										
DF		CO	4	32	20		20	1.6		17	3									
DF		CO	4	35	5	25.0	4	.3		4										
DF		CO	4	36	31	14.0	27	2.2		22	4									
DF		CO	4	37	7		7	.5		7										
DF		CO	4	39	3		3	.2		3										
DF		CO	4	40	31		31	2.5		23	8									
DF		Totals			1,278	4.5	1,221	79.5		182	274	168	166	146	122	103	61			
RA		H	2	22	14	18.2	12	4.4						12						
RA		H	3	8																
RA		H	3	16	11		11	4.3					11							
RA		H	3	24	14	11.1	13	4.9					13							
RA		H	3	36	20	7.1	18	7.0					18							
RA		H	4	9																
RA		H	4	12	5		5	2.0			2	4								
RA		H	4	14	3	50.0	1	.5			1									
RA		H	4	16	9	40.1	6	2.1			2	4								
RA		H	4	19	8		8	3.1			8									
RA		H	4	22	5	33.3	4	1.4			4									
RA		H	4	24	21		21	8.1			21									
RA		H	4	25	4	33.3	3	1.0			3									
RA		H	4	26	4		4	1.5				4								
RA		H	4	28	13	33.3	9	3.3			9									
RA		H	4	30	11	25.0	8	3.0			8									
RA		H	4	32	19	18.1	16	6.0			16									
RA		H	4	36	73	24.8	55	21.1			31	24								
RA		H	4	40	88	21.6	69	26.3			30	39								
RA		Totals			323	19.0	262	17.0			133	75	42	12						
BM		H	2	16	16	12.5	14	45.7						14						
BM		H	4	12	7		7	24.7			7									

TC TLOGSTVB

Log Stock Table - MBF

Project: UPPERCUT

T03N R08W S21 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 3	0200	80.00	17	98

T03N R08W S21 T0200

Page 2
Date 1/24/2013
Time 9:28:41AM

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+
BM	H	4		26	6	33.3	4	13.1			4									
BM	H	4		40	7	28.6	5	16.5			5									
BM		Totals			36	16.4	30	2.0			16			14						
WH	CO	3		32	20		20	87.5				20								
WH	CO	4		14	3		3	12.5		3										
WH		Totals			23		23	1.5		3		20								
Total All Species					1,660	7.5	1,536	100.0		185	423	263	208	171	122	103	61			

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: UPPERCUT

Page 1
Date 1/8/2013
Time 8:52:49AM

T03N R08W S21 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
03N	08W	21	AREA 3	0200	80.00	17	98	S	W

T03N R08W S21 T0200

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CO	2	26	5.9	4,345	4,088	327			74	26				100	38	301	2.23	13.6
DF		CO	3	57	4.1	8,956	8,593	687		85	15		4		3	93	39	95	0.76	90.8
DF		CO	4	17	3.6	2,675	2,578	206	88	12			41	15	12	33	23	24	0.33	107.0
DF	**Totals**			79	4.5	15,976	15,259	1,221	15	50	29	7	9	3	4	85	31	72	0.71	211.3
RA		H	2	4	18.2	177	145	12			100			100			22	90	1.48	1.6
RA		H	3	16	6.6	566	528	42		100			27	30		43	19	60	0.99	8.7
RA		H	4	80	21.2	3,294	2,597	208		100			10	23	7	60	28	37	0.86	69.5
RA	**Totals**			17	19.0	4,036	3,269	262		96	4		12	28	6	54	27	41	0.88	79.8
BM		H	2	45	12.5	197	173	14			100		100				16	70	1.19	2.5
BM		H	4	55	19.5	255	205	16		100			46	24		30	20	24	1.08	8.4
BM	**Totals**			2	16.4	452	378	30		54	46		70	13		17	19	35	1.10	10.8
WH		CO	3	87		253	253	20		100					100		32	70	0.50	3.6
WH		CO	4	13		36	36	3	100				100				14	10	0.24	3.6
WH	**Totals**			2		289	289	23	13	88			13		88		23	40	0.42	7.2
Type Totals					7.5	20,753	19,195	1,536	12	58	24	5	11	7	5	77	29	62	0.76	309.2

TC TSTNDSUM

Stand Table Summary

Project UPPERCUT

T03N R08W S21 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 3	0200	80.00	17	98

T03N R08W S21 T0200

Page: 1
Date: 01/08/201[illegible]
Time: 8:52:50AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		8	1	82	42	7.138	2.75	7.14	4.9	20.0	.99	35	143	79	28	11
DF		10	4	83	86	21.236	10.99	31.54	8.6	33.3	7.75	270	1,049	620	216	84
DF		11	1	87	75	3.876	2.75	7.75	9.6	35.0	2.11	74	271	169	59	22
DF		12	4	85	88	12.494	10.20	24.99	12.1	42.5	8.61	302	1,062	689	242	85
DF		13	5	82	83	15.110	13.74	27.33	14.0	44.1	10.92	382	1,205	873	305	96
DF		14	4	79	84	9.989	10.59	19.98	15.4	46.2	8.77	308	923	702	246	74
DF		15	2	84	88	4.028	5.10	8.06	20.2	72.7	4.65	163	586	372	130	47
DF		16	3	81	84	6.112	8.24	10.13	24.0	66.4	6.93	243	672	554	195	54
DF		17	6	77	84	10.109	16.09	18.54	26.9	80.4	14.21	498	1,491	1,137	398	119
DF		18	4	83	101	6.381	10.99	14.28	26.5	95.6	10.76	378	1,366	861	303	109
DF		19	1	81	92	1.410	2.75	2.82	32.7	105.0	2.62	92	296	210	74	24
DF		20	2	79	101	2.520	5.49	5.04	39.8	120.0	5.72	201	605	458	161	48
DF		21	2	77	100	2.242	5.49	5.58	33.8	98.3	5.38	189	549	431	151	44
DF		22	1	85	87	1.050	2.75	2.10	41.7	135.0	2.50	88	284	200	70	23
DF		23	2	85	95	1.856	5.49	3.71	51.1	150.0	5.41	190	557	432	152	45
DF		24	5	81	89	4.446	13.74	9.78	45.2	148.1	12.59	443	1,448	1,007	354	116
DF		25	2	81	112	1.632	5.49	4.90	43.4	166.8	6.05	212	817	484	170	65
DF		26	1	70	37	.775	2.75	.77	44.2	160.0	.98	34	124	78	27	10
DF		29	2	78	100	1.194	5.49	3.00	65.8	223.9	5.62	197	671	450	158	54
DF		33	1	78	122	.471	2.75	1.41	80.9	316.7	3.26	114	447	261	91	36
DF		34	1	82	118	.441	2.75	1.32	83.1	216.7	3.14	110	287	251	88	23
DF		36	1	73	119	.384	2.75	1.15	90.7	353.3	2.98	105	407	238	84	33
DF		Totals	55	82	85	114.892	149.12	211.32	21.9	72.2	131.94	4,628	15,259	10,555	3,702	1,221
RA		10	2	78	56	10.896	6.06	10.90	9.5	25.0	2.89	103	272	231	82	22
RA		13	3	71	56	10.126	9.09	10.13	19.4	33.4	5.40	196	338	432	157	27
RA		14	1	75	82	2.918	3.03	2.92	30.0	40.0	2.40	88	117	192	70	9
RA		15	4	71	44	9.928	12.12	12.27	15.9	33.5	5.34	195	411	427	156	33
RA		16	7	64	59	15.047	21.22	19.37	22.5	33.1	11.95	436	640	956	349	51
RA		17	2	62	49	4.034	6.06	6.03	19.4	43.2	3.21	117	261	257	93	21
RA		18	4	79	57	6.944	12.12	8.70	33.7	73.7	8.05	293	641	644	234	51
RA		19	3	67	66	4.703	9.09	6.31	39.0	52.5	6.76	246	332	540	197	27
RA		21	1	77	57	1.297	3.03	1.30	62.0	100.0	2.20	80	130	176	64	10
RA		22	1	70	54	1.118	3.03	1.12	75.0	70.0	2.31	84	78	185	67	6
RA		26	1	60	36	.822	3.03	.82	69.6	60.0	1.57	57	49	126	46	4
RA		Totals	29	71	56	67.834	87.91	79.85	23.7	40.9	52.07	1,894	3,269	4,166	1,515	262
BM		12	1	59	36	4.664	3.66	4.66	8.0	20.0	.99	37	93	79	30	7
BM		17	1	79	58	2.467	3.66	4.93	16.0	45.0	2.07	79	222	166	63	18
BM		23	1	60	55	1.248	3.66	1.25	91.0	50.0	3.00	114	62	240	91	5
BM		Totals	3	65	45	8.378	10.99	10.84	21.2	34.8	6.06	230	378	485	184	30
WH		12	1	88	68	3.617	2.75	7.23	9.8	40.0	2.26	71	289	181	57	23
WH		Totals	1	88	68	3.617	2.75	7.23	9.8	40.0	2.26	71	289	181	57	23
OC		10	1	50	132	5.037	2.75									
OC		17	1	75	38	1.850	2.75									
OC		18	1	76	42	1.537	2.75									
OC		19	1	76	17	1.395	2.75									
OC		26	1	84	41	.728	2.75									
OC		27	1	80	25	.671	2.75									
OC		Totals	6	65	78	11.218	16.48									

TC TSTNDSUM

Stand Table Summary

Project UPPERCUT

T03N R08W S21 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 3	0200	80.00	17	98

Date: 01/08/201:
Time: 8:52:50AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
Totals			94	77	73	205.939	267.24	309.24	22.1	62.1	192.33	6822	19,195	15,387	5,458	1,536

TC TLOGSTVB

Log Stock Table - MBF

Project: UPPERCUT

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 4	0100	12.00	5	24

T03N R08W S21 T0100

Date 1/8/2013

Time 8:54:31AM

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+
RA		H	2	32	10		10	5.6						10						
RA		H	3	16	4		4	2.2					4							
RA		H	3	32	49	3.0	48	27.4					38	10						
RA		H	3	40	27		27	15.5					27							
RA		H	4	12	4		4	2.1					4							
RA		H	4	15	1		1	.8				1								
RA		H	4	16	3	40.1	2	1.1			1	1								
RA		H	4	20	3		3	1.8				3								
RA		H	4	24	19		19	10.7			10	8								
RA		H	4	25	3		3	1.5			3									
RA		H	4	28	3		3	1.5			3									
RA		H	4	29	7		7	4.1			7									
RA		H	4	32	11		11	6.4			3	8								
RA		H	4	36	9	34.9	6	3.3			4	2								
RA		H	4	37	4		4	2.4			4									
RA		H	4	39	11		11	6.1			11									
RA		H	4	40	15	9.9	13	7.6			3	10								
RA		Totals			181	4.0	174	75.1			48	34	72	19						
DF		CO	3	40	47	1.9	46	80.4					46							
DF		CO	4	33	2		2	3.3	2											
DF		CO	4	35	2		2	3.0	2											
DF		CO	4	38	3		3	4.8	3											
DF		CO	4	39	2		2	4.2	2											
DF		CO	4	40	2		2	4.2	2											
DF		Totals			58	1.6	58	24.9	11				46							
Total All Species					240	3.4	231	100.0	11		48	34	118	19						

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: UPPERCUT

Page 1
Date 1/8/2013
Time 8:54:31AM

T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
03N	08W	21	AREA 4	0100	12.00	5	24	S	W

T03N R08W S21 T0100

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
RA		H	2	5		812	812	10			100				100		32	160	1.18	5.1
RA		H	3	45	1.8	6,648	6,526	78		88	12		5		61	34	33	129	0.92	50.5
RA		H	4	50	6.3	7,640	7,157	86		100			12	36	13	39	28	46	0.53	154.0
RA	**Totals**			75	4.0	15,100	14,495	174		89	11		8	18	39	35	29	69	0.66	209.6
DF		CO	3	80	1.9	3,932	3,856	46		100						100	40	164	1.04	23.5
DF		CO	4	20		938	938	11	100						32	68	37	40	0.38	23.5
DF	**Totals**			25	1.6	4,870	4,794	58	20	80					6	94	39	102	0.72	46.9
Type Totals					3.4	19,970	19,290	231	5	87	8		6	13	31	49	31	75	0.67	256.5

TC TSTNDSUM

Stand Table Summary

Project UPPERCUT

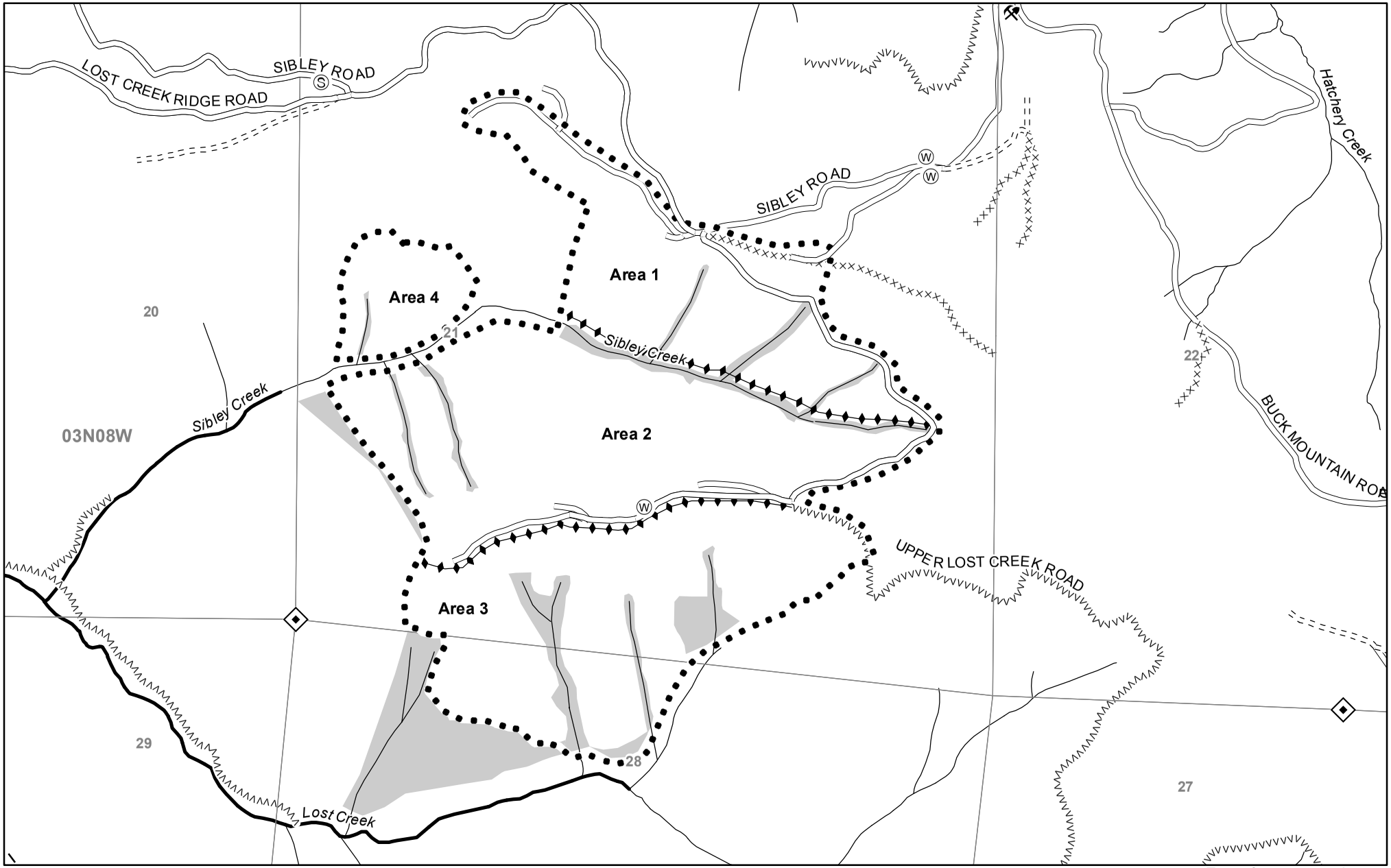
T03N R08W S21 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	21	AREA 4	0100	12.00	5	24

T03N R08W S21 T0100

Page: 1
Date: 01/08/201
Time: 8:54:32AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
RA		10	2	83	67	26.749	14.72	26.75	12.0	46.5	8.79	320	1,243	106	38	15
RA		13	2	69	58	15.164	13.44	15.16	19.6	35.0	8.16	297	531	98	36	6
RA		14	4	89	104	29.934	32.00	67.35	17.5	75.6	32.39	1,178	5,089	389	141	61
RA		15	5	79	71	30.616	37.44	55.37	17.4	68.7	26.48	964	3,806	318	116	46
RA		16	3	78	58	15.433	21.44	21.16	24.7	69.4	14.33	522	1,468	172	63	18
RA		17	2	87	92	10.151	16.00	20.30	26.5	107.5	14.80	538	2,182	178	65	26
RA		19	1	69	59	3.524	6.72	3.52	50.0	50.0	4.81	176	176	58	21	2
RA		Totals	19	81	76	131.570	141.78	209.62	19.1	69.1	109.75	3,995	14,495	1,317	479	174
DF		16	1	88	105	5.730	8.00	11.46	24.2	95.0	7.90	277	1,089	95	33	13
DF		17	2	90	103	10.151	16.00	20.30	28.4	110.0	16.45	577	2,233	197	69	27
DF		18	2	81	96	7.574	13.44	15.15	29.9	97.2	12.93	454	1,473	155	54	18
DF		Totals	5	87	101	23.454	37.44	46.91	27.9	102.2	37.28	1,308	4,794	447	157	58
Totals			24	82	80	155.025	179.22	256.53	20.7	75.2	147.03	5303	19,290	1,764	636	231



Rock source
Stock pile
Waste area
Bridge
Gate
Survey corner
Domestic water supply intake
Truck turn-around
Helicopter landing zone
Cultural site

Landing
Buffer
Non-required thinning
Cable yarding
Ground yarding
Helicopter yarding
Downhill yarding
Green tree retention area

Restricted area
Area boundary
Sale boundary
Ownership boundary
Perennial Type-F stream
Perennial Type-N stream
Unsurfaced road
Surfaced road
Paved road
Abandoned road

Swing road
Non-project road
Blocked road
OHV trail
Non-motorized trail
Transmission line
Railroad

LOGGING PLAN

Timber Sale Contract No. 341-13-083
UPPER CUT
Portions of Sections 21 and 28
T3N, R8W, W.M.,
Tillamook County, Oregon

1,000 0 1,000 Feet

N

Area	Type of Operation	Acres Gross	Net
1	Modified clearcut	65	56
2	Partial cut	97	88
3	Modified clearcut	111	80
4	Modified clearcut	13	12
Total		286	236

Tillamook District GIS
1/8/2013