



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Cougar Camp
Sale 341-13-67

District: Tillamook

Date: November 13, 2012

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$998,373.68	\$574,951.98	\$1,573,325.66
		Project Work:	\$(489,640.00)
		Advertised Value:	\$1,083,685.66



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timber description

Location: Portions of Sections 7, 8, 17, and 18, T3N, R7W, and portions of Sections 11, 12, and 13, T3N, R8W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	95
Western Hemlock / Fir	13	0	95
Alder (Red)	13	0	90

Volume by Grade	10" - 11"	12"+	2S	3S	4S	8" - 9"	Total
Douglas - Fir	0	0	1,288	3,266	812	0	5,366
Western Hemlock / Fir	0	0	302	1,758	687	0	2,747
Alder (Red)	535	258	0	0	0	1,865	2,658
Total	535	258	1,590	5,024	1,499	1,865	10,771



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comments: Pond Values Used: 3rd Quarter Calendar Year 2012.

Western redcedar & Other Cedars Stumpage Price = Pond Value minus
Logging Cost
 $\$625/\text{MBF} = \$975/\text{MBF} - \$350/\text{MBF}$

Pulp (Conifer and Hardwood) Price = $\$25/\text{MBF}$

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

FUEL COST ALLOWANCE = $\$4.00/\text{Gallon}$

HAULING COST ALLOWANCE

Hauling cost equivalent to $\$780$ daily truck cost.

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

Brand and Paint: $\$2/\text{MBF} \times 10,771 \text{ MBF} = \$21,542$

Snag Creation by Girdling at Base (Areas 2 and 4): $151 \text{ acres} \times 2 \text{ snags/acre} \times \$5/\text{snag} = \$1,510$

Area 2 Green Tree Selection (10 clumps of 30 trees): $\$250$

TOTAL Other Costs (with Profit & Risk to be added) = $\$23,302$

Other Costs (No Profit & Risk added):

Logging equipment additional move-in/move out: 3 pieces of
equipment @ $\$750$ each = $\$2,250$

Equipment Cleaning: 1 machine @ $\$1,000$ per machine twice = $\$2,000$

Non-Project Road 1: $700'$ long (7 Stations) $\times \$180/\text{station} + \300
landing = $\$1,560$

Non-Project Road 2: $700'$ long (7 Stations) $\times \$170/\text{station} + \200
landing = $\$1,390$

Road Closing, Culvert Removal, and Culvert Return to ODF Tillamook
on Road Sections C to D, Q to R, and W to X: $44 \text{ hours} \times \$145/$
hour + $\$510$ culvert return = $\$6,890$

Slash Piling and Sorting Cable Yarded Parts of Areas 2 and 4: $\$5/$
acre $\times 138 \text{ acres} = \690

Cover Material for Piles: $6 \text{ piles} \times \$5/\text{pile} = \30

TOTAL Other Costs (No Profit & Risk added) = $\$14,810$

ROAD MAINTENANCE

Road Maintenance: Burma Road, South Fork Cronin Creek, and other
surfaced roads within the timber sale area:

Interim grading (Burma Road): $\$250/\text{mile} \times 4.7 \text{ miles} \times 4 \text{ times} /$
 $10,771 \text{ MBF} = \$0.44/\text{MBF}$

Final grading (Burma, S Fk Cronin Creek, and other surfaced
roads): $8.1 \text{ miles} \times \$500/\text{mile} / 10,771 \text{ MBF} = \$0.38/\text{MBF}$

Spot rocking: $250 \text{ cy} \times \$25/\text{cy} / 10,771 \text{ MBF} = \$0.58/\text{MBF}$

Compaction of first 2 miles of Burma Road starting from Lower

Nehalem Road: $2 \text{ miles} (106 \text{ Stations} \times \$18/\text{station} + \$111 \text{ move-in})$
 $/ 10,771 \text{ MBF} = \$0.19/\text{MBF}$

TOTAL Road Maintenance Cost: $\$1.59/\text{MBF}$



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yarding distance:	Medium (800 ft)	downhill yarding:	No
logging system:	Cable: Medium Tower >40 - <70	Process:	Stroke Delimber
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	4.5	bd. ft / load:	3,500
cost / mbf:	\$212.32		
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)		



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logging costs

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$489,640.00	Other Costs (P/R):	\$23,302.00
Slash Disposal:	\$0.00	Other Costs:	\$14,810.00

Miles of Road

Road Maintenance: \$1.59

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	3.5
Western Hemlock / Fir	\$0.00	2.0	3.8
Alder (Red)	\$0.00	2.0	3.2



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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									
\$192.19	\$1.67	\$0.81	\$101.73	\$2.16	\$44.78	\$0.00	\$5.00	\$1.37	\$349.71
Western Hemlock / Fir									
\$196.40	\$1.67	\$0.81	\$93.70	\$2.16	\$44.21	\$0.00	\$5.00	\$1.37	\$345.32
Alder (Red)									
\$212.32	\$1.75	\$0.81	\$116.58	\$2.16	\$50.04	\$0.00	\$5.00	\$1.37	\$390.03

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$497.33	\$147.62	\$0.00
Western Hemlock / Fir	\$0.00	\$420.40	\$75.08	\$0.00
Alder (Red)	\$0.00	\$606.34	\$216.31	\$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	5,366	\$147.62	\$792,128.92
Western Hemlock / Fir	2,747	\$75.08	\$206,244.76
Alder (Red)	2,658	\$216.31	\$574,951.98

Gross Timber Sale Value

Recovery: \$1,573,325.66

Prepared by: David Wells

Phone: 503-842-2545



PROJECT SUMMARY SHEET

Sale: Cougar Camp

CONSTRUCTION

Point	A to B	18+90	stations =	\$10,852.02
Point	E to F	27+30	stations =	\$12,166.15
Point	G to H	54+15	stations =	\$34,975.00
Point	I to J	22+50	stations =	\$19,362.15
Point	K to L	5+10	stations =	\$4,902.42
Point	M to N	27+90	stations =	\$12,937.38
Point	O to P	32+00	stations =	\$28,258.30
Point	S to T	22+90	stations =	\$5,793.53
Point	U to V	35+00	stations =	\$53,585.28
Point	Y to Z	3+60	stations =	\$4,119.12
Point	AA to BB	15+10	stations =	\$4,636.17
SUBTOTAL CONSTRUCTION				\$191,587.52

IMPROVEMENT

Point	A to B	221+70	stations =	\$101,100.38
Point	C to D	135+50	stations =	\$21,903.78
Point	E to F	39+60	stations =	\$13,519.59
Point	Q to R	9+80	stations =	\$7,926.78
Point	U to V	3+00	stations =	\$3,908.43
Point	W to X	26+20	stations =	\$15,112.28
Point	CC to DD	1+70	stations =	\$1,242.05
Point	EE to FF	2+10	stations =	\$1,420.70
SUBTOTAL IMPROVEMENT				\$166,133.99

RECONSTRUCTION

Point	G to H	6+35	stations =	\$3,713.95
Point	S to T	5+10	stations =	\$696.17
Point	U to V	9+00	stations =	\$14,132.45
Point	AA to BB	4+00	stations =	\$1,137.40
SUBTOTAL RECONSTRUCTION				\$19,679.97

SPECIAL PROJECTS

Point GG		Fill Removal		\$1,291.20
Point HH	3000	CY Stockpile 1 1/2"-0"	Purchased	\$68,250.00
Point II	2000	CY Stockpile 4"-0"	Crushed	\$18,400.00
Point JJ	1200	CY Stockpile 1 1/2"-0"	Crushed	\$11,040.00
Brush	6.0	Miles of Road		\$5,400.00
SUBTOTAL SPECIAL PROJECTS				\$104,381.20

MOVE IN

\$7,857.32

GRAND TOTAL

\$489,640.00

SUMMARY OF CONSTRUCTION COST

Sale:	Cougar Camp	Road: A to B			
Construction -	18+90 stations 0.36 miles	Improvement -	221+70 stations 4.20 miles	Reconstruction -	0+00 stations 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	=	
221+70		223+50	20%		Outslope	\$139	=	\$250.20
223+50		227+15	10%		Outslope	\$90	=	\$328.50
227+15		229+25	20%		Outslope	\$139	=	\$291.90
229+25		233+95	10%		Outslope	\$90	=	\$423.00
233+95		236+40	35%		Outslope	\$191	=	\$467.95
236+40		237+35	45%		Outslope	\$269	=	\$255.55
237+35		239+60	35%		Outslope	\$191	=	\$429.75
239+60		239+95	45%		Outslope	\$269	=	\$94.15
239+95		240+60	40%		Outslope	\$243	=	\$157.95
TOTAL								\$2,698.95

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast	0.019	acres @	\$660.00	per acre =	\$12.54
Widening	0.097	acres @	\$660.00	per acre =	\$64.02
Scattering	1.830	acres @	\$980.00	per acre =	\$1,793.40
TOTAL CLEARING AND GRUBBING					\$1,869.96

IMPROVEMENT: EXCAVATION -

Pullback	98	cy. @	\$1.40	per c.y.=	\$137.20
Widening	451	cy. @	\$1.40	per c.y.=	\$631.40
Remove Outside Berm	675	cy. @	\$1.40	per c.y.=	\$945.00
TOTAL EXCAVATION					\$1,713.60

IMPROVEMENT: ENDHAUL -

Pullback	73+85	to	74+30	98	cy. @	\$3.55	per c.y.=	\$347.90
Widening	112+30	to	112+90	59	cy. @	\$3.75	per c.y.=	\$221.25
Widening	125+50	to	126+30	47	cy. @	\$3.29	per c.y.=	\$154.63
Widening	126+90	to	127+30	59	cy. @	\$3.26	per c.y.=	\$192.34
Widening	135+00	to	135+35	51	cy. @	\$2.98	per c.y.=	\$151.98
Widening	138+85	to	139+30	52	cy. @	\$3.00	per c.y.=	\$156.00
Widening	142+90	to	144+25	176	cy. @	\$2.84	per c.y.=	\$499.84
widening	158+00	to	158+15	7	cy. @	\$2.69	per c.y.=	\$18.83
Spread & compact				549	cy. @	\$0.25	per c.y.=	\$137.25
TOTAL ENDHAUL								\$1,880.02

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>								
	102	LF of 18"	\$1,785.00		120	LF of 24"	\$3,240.00	
			\$1,785.00				\$3,240.00	
<u>Culvert Stakes & Markers</u>								
	6	markers	\$48.00					
			\$48.00					
TOTAL CULVERTS								\$5,073.00

ROCK

111+60 to	218+30	4,970	cy. of	Crushed	@	\$17.46	per c.y.=	\$86,776.20
Spot Rock	0+00 - 111+60	100	cy. of	Crushed	@	\$15.77	per c.y.=	\$1,577.00
Energy Dissipator	Seven Locations	35	cy. of	Riprap	@	\$6.81	per c.y.=	\$238.35
TOTAL ROCK								\$88,591.55

SPECIAL PROJECTS

Construct settlement basin at 26+35, above culvert -	1.00	@	\$60.00	each	\$60.00			
Construct landing at 240+60 -	1.00	@	\$300.00	each	\$300.00			
Construct waste areas -	1.00	hours @	\$130.00	per hour	\$130.00			
Construct ditchouts at 118+05, 123+30 -	2.00	@	\$60.00	each	\$120.00			
Construct turnaround before landing -	1.00	hours @	\$75.00	each	\$75.00			
Grade and shape road -	240.60	stations @	\$14.00	per station	\$3,368.40			
Roll subgrade w/ vibratory roller prior to rocking -	240.60	stations @	\$13.20	per station	\$3,175.92			
Remove log fills @ stations 143+40, 144+25 -	6.00	hours @	\$145.00	per hour	\$870.00			
Remove large stumps -	1.00	lump sum @	\$750.00	total	\$750.00			
Cut large stumps affecting alignment -	1.00	lump sum @	\$300.00	total	\$300.00			
Grass seed and fertilize -	2.80	acres @	\$220.00	per acre	\$616.00			
Mulching -	0.600	acres @	\$600.00	per acre	\$360.00			
TOTAL SPECIAL PROJECTS								\$10,125.32

GRAND TOTAL **\$111,952.40**

SUMMARY OF CONSTRUCTION COST

Sale: **Cougar Camp** Road: **C to D**

Construction -	0+00	stations	Improvement -	135+50	stations	Reconstruction -	0+00	stations
	0.00	miles		2.57	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast	0.043	acres @	\$660.00	per acre =	\$28.38
Widening	0.043	acres @	\$660.00	per acre =	\$28.38
Scattering	0.930	acres @	\$980.00	per acre =	\$911.40
TOTAL CLEARING AND GRUBBING					\$968.16

IMPROVEMENT: EXCAVATION -

Pullback	339	cy. @	\$1.40	per c.y. =	\$474.60
Widening	182	cy. @	\$1.40	per c.y. =	\$254.80
Remove Outside Berm	8	cy. @	\$1.40	per c.y. =	\$11.20
TOTAL EXCAVATION					\$740.60

IMPROVEMENT: ENDHAUL -

Pullback	119+35	to	119+75	35	cy. @	\$2.97	per c.y. =	\$103.95
Pullback	128+10	to	129+50	304	cy. @	\$3.08	per c.y. =	\$936.32
Widening	96+40	to	96+60	35	cy. @	\$2.76	per c.y. =	\$96.60
Widening	96+95	to	97+20	25	cy. @	\$2.70	per c.y. =	\$67.50
Widening	121+30	to	121+70	18	cy. @	\$3.05	per c.y. =	\$54.90
Widening	122+30	to	122+65	14	cy. @	\$3.13	per c.y. =	\$43.82
Widening	123+15	to	123+35	8	cy. @	\$3.18	per c.y. =	\$25.44
Widening	124+75	to	125+60	82	cy. @	\$2.92	per c.y. =	\$239.44
Remove Outside Berm	39+00	to	39+50	8	cy. @	\$3.30	per c.y. =	\$26.40
Spread & compact				529	cy. @	\$0.25	per c.y. =	\$132.25
TOTAL ENDHAUL								\$1,726.62

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>					
0	LF of 18"	\$0.00	34	LF of 24"	\$918.00
40	LF of 30"	\$1,440.00	0	LF of 36"	\$0.00
		\$1,440.00			\$918.00
<u>Culvert Stakes & Markers</u>					
2	markers	\$16.00			
		\$16.00			
TOTAL CULVERTS					\$2,374.00

ROCK

96+00	to	102+20	350	cy. of	Jaw-run	@	\$10.62	per c.y. =	\$3,717.00
113+75	to	114+75	60	cy. of	Jaw-run	@	\$10.85	per c.y. =	\$651.00
116+30	to	117+30	60	cy. of	Jaw-run	@	\$10.90	per c.y. =	\$654.00
Landing Rock		102+20	100	cy. of	Jaw-run	@	\$10.62	per c.y. =	\$1,062.00
Spot Rock		0+00 - 96+00	100	cy. of	Crushed	@	\$15.77	per c.y. =	\$1,577.00
Energy Dissipator		99+00, 116+80	10	cy. of	Riprap	@	\$12.06	per c.y. =	\$120.60
TOTAL ROCK									\$7,781.60

SPECIAL PROJECTS

Construct landing at 102+20 -	1.00	@	\$300.00	each	\$300.00
Construct ditch from 56+00 to 57+00 -	1.00	stations @	\$240.00	per station	\$240.00
Construct waste areas -	1.00	hours @	\$130.00	per hour	\$130.00
Reconstruct fills at 99+00, 114+25, 116+80 -	18.00	hours @	\$145.00	per hour	\$2,610.00
Grade and shape road -	135.50	stations @	\$14.00	per station	\$1,897.00
Roll subgrade w/ vibratory roller -	135.50	stations @	\$13.20	per station	\$1,788.60
Remove fill at 135+50 -	3.00	hours @	\$145.00	per hour	\$435.00
Remove large stumps -	1.00	lump sum @	\$375.00	total	\$375.00
Grass seed and fertilize -	1.46	acres @	\$220.00	per acre	\$321.20
Mulching -	0.360	acres @	\$600.00	per acre	\$216.00
TOTAL SPECIAL PROJECTS					\$8,312.80

GRAND TOTAL **\$21,903.78**

SUMMARY OF CONSTRUCTION COST

Sale: **Cougar Camp** Road: **E to F**

Construction -	27+30	stations	Improvement -	39+60	stations	Reconstruction -	0+00	stations
	0.52	miles		0.75	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		
39+60		40+15	25%		Outslope	\$165	=	\$90.75
40+15		40+70	45%		Outslope	\$269	=	\$147.95
40+70		41+40	40%		Outslope	\$243	=	\$170.10
41+40		41+85	50%		Outslope	\$459	=	\$206.55
41+85		42+60	25%		Outslope	\$165	=	\$123.75
42+60		56+60	10%		Outslope	\$90	=	\$1,260.00
56+60		63+10	45%		Outslope	\$269	=	\$1,748.50
63+10		66+90	10%		Outslope	\$90	=	\$342.00
TOTAL								\$4,089.60

IMPROVEMENT: CLEARING AND GRUBBING -

Widening and Berm	0.080	acres @	\$980.00	per acre =	\$78.40
TOTAL CLEARING AND GRUBBING					\$78.40

IMPROVEMENT: EXCAVATION -

Widening & Berm	379	cy. @	\$1.40	per c.y. =	\$530.60
TOTAL EXCAVATION					\$530.60

IMPROVEMENT: ENDHAUL -

Widening	38+60	to	38+85	73	cy. @	\$2.93	per c.y. =	\$213.89
Widening	38+85	to	39+10	116	cy. @	\$2.93	per c.y. =	\$339.88
Widening	39+10	to	39+35	146	cy. @	\$2.93	per c.y. =	\$427.78
Widening	39+35	to	39+60	30	cy. @	\$2.93	per c.y. =	\$87.90
Berm	21+25	to	21+95	10	cy. @	\$2.18	per c.y. =	\$21.80
Berm	23+60	to	24+40	4	cy. @	\$2.29	per c.y. =	\$9.16
Spread & compact				379	cy. @	\$0.25	per c.y. =	\$94.75
TOTAL ENDHAUL								\$1,195.16

ROCK

39+60 to	66+90	1,470	cy. of	Jaw-run	@	\$9.45	per c.y. =	\$13,891.50
Spot Rock	0+00-39+60	50	cy. of	Crushed	@	\$15.80	per c.y. =	\$790.00
Landing Rock	66+90	100	cy. of	Jaw-run	@	\$9.67	per c.y. =	\$967.00
Junction Rock	39+60	20	cy. of	Jaw-run	@	\$9.24	per c.y. =	\$184.80
TOTAL ROCK								\$15,833.30

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	\$130.00	per hour	\$130.00			
Construct turnaround before landing -	1.00	@	\$75.00	each	\$75.00			
Cut/Drift to fill roadway @ area of 45+00, 48+90, 52+30 -	8.00	hours @	\$130.00	per hour	\$1,040.00			
Construct landing at 66+90 -	1.00	@	\$300.00	each	\$300.00			
Grade and shape road -	66.90	stations @	\$14.00	per station	\$936.60			
Roll subgrade w/ vibratory roller prior to rocking -	66.90	stations @	\$13.20	per station	\$883.08			
Remove large stumps -	1.00	lump sum @	\$300.00	total	\$300.00			
Grass seed and fertilize -	1.11	acres @	\$220.00	per acre	\$244.20			
Mulching -	0.083	acres @	\$600.00	per acre	\$49.80			
TOTAL SPECIAL PROJECTS								\$3,958.68

GRAND TOTAL **\$25,685.74**

SUMMARY OF CONSTRUCTION COST

Sale:

Cougar Camp

Road:

G to H

Construction -	<u>54+15</u> 1.03	stations miles	Improvement -	<u>0+00</u> 0.00	stations miles	Reconstruction -	<u>6+35</u> 0.12	stations miles
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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	=	
6+35		7+30	15%		Outslope	\$107	=	\$101.65
7+30		8+90	35%		Outslope	\$191	=	\$305.60
8+90		9+70	25%		Outslope	\$165	=	\$132.00
9+70		11+60	10%		Outslope	\$90	=	\$171.00
11+60		12+10	20%		Outslope	\$139	=	\$69.50
12+10		12+90	10%		Outslope	\$90	=	\$72.00
12+90		14+50	25%		Outslope	\$165	=	\$264.00
14+50		20+30	30%		Outslope	\$191	=	\$1,107.80
20+30		23+30	25%		Outslope	\$165	=	\$495.00
23+30		24+80	45%		Outslope	\$269	=	\$403.50
24+80		25+60	25%		Outslope	\$165	=	\$132.00
25+60		36+50	10%		Outslope	\$90	=	\$981.00
36+50		39+00	35%		Outslope	\$191	=	\$477.50
39+00		53+50	10%		Outslope	\$90	=	\$1,305.00
53+50		56+20	45%		Outslope	\$269	=	\$726.30
56+20		58+00	10%		Outslope	\$90	=	\$162.00
58+00		59+00	35%		Outslope	\$191	=	\$191.00
59+00		60+50	10%		Outslope	\$90	=	\$135.00
TOTAL								\$7,231.85

RECONSTRUCTION: CLEARING AND GRUBBING -
Scattering

	0.470	acres @	\$980.00	per acre =	\$460.60
TOTAL CLEARING AND GRUBBING					\$460.60

ROCK

0+00 to	60+50	3,210	cy. of	Jaw-run	@	\$8.04 per c.y.=	\$25,808.40
Landing Rock	60+50	100	cy. of	Jaw-run	@	\$8.52 per c.y.=	\$852.00
Junction Rock	0+00	30	cy. of	Jaw-run	@	\$7.57 per c.y.=	\$227.10
TOTAL ROCK							\$26,887.50

SPECIAL PROJECTS

Cut/Drift to construct intersection at 0+00 -	2.00	hours @	\$130.00	per hour	\$260.00
Construct landing at 60+50 -	1.00	@	\$200.00	each	\$200.00
Construct turnaround before landing -	1.00	@	\$75.00	each	\$75.00
Cut/Drift to fill roadway @ area of 4+75, 57+50 -	3.00	hours @	\$130.00	per hour	\$390.00
Grade and shape road -	60.50	stations @	\$14.00	per station	\$847.00
Roll subgrade w/ vibratory roller prior to rocking -	60.50	stations @	\$13.20	per station	\$798.60
Remove large stumps -	1.00	lump sum @	\$1,050.00	total	\$1,050.00
Grass seed and fertilize -	2.22	acres @	\$220.00	per acre	\$488.40
TOTAL SPECIAL PROJECTS					\$4,109.00

GRAND TOTAL **\$38,688.95**

SUMMARY OF CONSTRUCTION COST

Sale:

Cougar Camp

Road:

I to J

Construction -	22+50	stations	Improvement -	0+00	stations
	0.43	miles		0.00	miles
			Reconstruction -		
			0+00	stations	
			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		2+20	30%		Outslope	\$191	=	\$420.20
2+20		9+50	10%		Outslope	\$90	=	\$657.00
9+50		10+90	55%		Outslope	\$689	=	\$964.60
10+90		16+90	10%		Outslope	\$90	=	\$540.00
16+90		17+65	30%		Outslope	\$191	=	\$143.25
17+65		18+05	55%		Outslope	\$689	=	\$275.60
18+05		19+35	50%		Outslope	\$459	=	\$596.70
19+35		19+60	55%		Outslope	\$689	=	\$172.25
19+60		20+45	70%	0.15	Outslope	\$2,352	=	\$1,999.20
20+45		21+10	50%		Outslope	\$459	=	\$298.35
21+10		21+55	25%		Outslope	\$165	=	\$74.25
21+55		22+50	20%		Outslope	\$139	=	\$132.05
								TOTAL
								\$6,273.45

ROCK

0+00 to	22+50	1,210	cy. of	Jaw-run	@	\$8.09 per c.y.=	\$9,788.90
Landing Rock	22+50	100	cy. of	Jaw-run	@	\$8.26 per c.y.=	\$826.00
Junction Rock	0+00	20	cy. of	Jaw-run	@	\$7.91 per c.y.=	\$158.20
							TOTAL ROCK
							\$10,773.10

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	\$130.00	per hour	\$130.00	
Construct landing at 22+50 -	1.00	@	\$300.00	each	\$300.00	
Cut/Drift to fill roadway @ area of 8+70 -	2.00	hours @	\$130.00	per hour	\$260.00	
Construct heliport near station 11+00 -	1.00	@	\$200.00	each	\$200.00	
Construct turnaround before landing -	1.00	@	\$75.00	each	\$75.00	
Grade and shape road -	22.50	stations @	\$14.00	per station	\$315.00	
Roll subgrade w/ vibratory roller prior to rocking -	22.50	stations @	\$13.20	per station	\$297.00	
Remove large stumps -	1.00	lump sum @	\$450.00	total	\$450.00	
Grass seed and fertilize -	0.96	acres @	\$220.00	per acre	\$211.20	
Mulching -	0.129	acres @	\$600.00	per acre	\$77.40	
						TOTAL SPECIAL PROJECTS
						\$2,315.60

GRAND TOTAL **\$19,362.15**

SUMMARY OF CONSTRUCTION COST

Sale: **Cougar Camp**

Road: **K to L**

Construction -	5+10	stations	Improvement -	0+00	stations	Reconstruction -	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		1+40	35%		Outslope	\$191	=	\$267.40	
1+40		5+10	20%		Outslope	\$139	=	\$514.30	
								TOTAL	\$781.70

ROCK

0+00	to	5+10	290	cy. of	Jaw-run	@	\$8.20 per c.y.=	\$2,378.00	
Landing Rock		5+10	100	cy. of	Jaw-run	@	\$8.24 per c.y.=	\$824.00	
Junction Rock		0+00	20	cy. of	Jaw-run	@	\$8.16 per c.y.=	\$163.20	
								TOTAL ROCK	\$3,365.20

SPECIAL PROJECTS

Construct landing at 5+10 -	1.00	@	\$350.00	each	\$350.00		
Grade and shape road -	5.10	stations @	\$14.00	per station	\$71.40		
Roll subgrade w/ vibratory roller prior to rocking -	5.10	stations @	\$13.20	per station	\$67.32		
Remove large stumps -	1.00	lump sum @	\$225.00	total	\$225.00		
Grass seed and fertilize -	0.19	acres @	\$220.00	per acre	\$41.80		
						TOTAL SPECIAL PROJECTS	\$755.52

GRAND TOTAL **\$4,902.42**

SUMMARY OF CONSTRUCTION COST

Sale:

Cougar Camp

Road:

M to N

Construction -	27+90	stations	Improvement -	0+00	stations
	0.53	miles		0.00	miles
			Reconstruction -		
			0+00	stations	
			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+40	40%		Outslope	\$243	=	\$826.20
3+40		6+60	50%		Outslope	\$459	=	\$1,468.80
6+60		18+40	30%		Outslope	\$191	=	\$2,253.80
18+40		21+50	10%		Outslope	\$90	=	\$279.00
21+50		22+35	40%		Outslope	\$243	=	\$206.55
22+35		24+85	55%		Outslope	\$689	=	\$1,722.50
24+85		26+00	65%	0.15	Outslope	\$1,931	=	\$2,220.65
26+00		26+80	40%		Outslope	\$243	=	\$194.40
26+80		27+90	10%		Outslope	\$90	=	\$99.00
TOTAL								\$9,270.90

ROCK

0+00	to	1+00	60	cy. of	Jaw-run	@	\$8.36 per c.y.=	\$501.60
Junction Rock		0+00	20	cy. of	Jaw-run	@	\$8.35 per c.y.=	\$167.00
TOTAL ROCK								\$668.60

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	\$130.00	per hour	\$130.00			
Construct landing at 2790 -	1.00	@	\$400.00	each	\$400.00			
Construct turnaround near landing -	1.00	@	\$75.00	each	\$75.00			
Grade and shape road -	27.90	stations @	\$14.00	per station	\$390.60			
Roll subgrade w/ vibratory roller prior to rocking -	27.90	stations @	\$13.20	per station	\$368.28			
Remove large stumps -	1.00	lump sum @	\$1,275.00	total	\$1,275.00			
Grass seed and fertilize -	1.28	acres @	\$220.00	per acre	\$281.60			
Mulching -	0.129	acres @	\$600.00	per acre	\$77.40			
TOTAL SPECIAL PROJECTS								\$2,997.88

GRAND TOTAL **\$12,937.38**

SUMMARY OF CONSTRUCTION COST

Sale:	Cougar Camp	Road: O to P			
Construction -	32+00 stations 0.61 miles	Improvement -	0+00 stations 0.00 miles	Reconstruction -	0+00 stations 0.00 miles

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

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=	
0+00		0+50	25%		Outslope	\$165	=	\$82.50
0+50		1+40	55%		Outslope	\$689	=	\$620.10
1+40		3+40	40%		Outslope	\$243	=	\$486.00
3+40		6+00	50%		Outslope	\$459	=	\$1,193.40
6+00		7+60	30%		Outslope	\$191	=	\$305.60
7+60		10+50	55%		Outslope	\$689	=	\$1,998.10
10+50		13+20	40%		Outslope	\$243	=	\$656.10
13+20		17+60	35%		Outslope	\$191	=	\$840.40
17+60		21+15	25%		Outslope	\$165	=	\$585.75
21+15		28+40	30%		Outslope	\$191	=	\$1,384.75
28+40		32+00	10%		Outslope	\$90	=	\$324.00
TOTAL								\$8,476.70

ROCK									
0+00	to	32+00	1,720	cy. of	Jaw-run	@	\$8.72	per c.y.=	\$14,998.40
Traction Rock		---	100	cy. of	Crushed	@	\$18.23	per c.y.=	\$1,823.00
Landing Rock		32+00	100	cy. of	Jaw-run	@	\$8.97	per c.y.=	\$897.00
Junction Rock		0+00	20	cy. of	Jaw-run	@	\$8.47	per c.y.=	\$169.40
TOTAL ROCK									\$17,887.80

SPECIAL PROJECTS									
Construct landing at 32+00 -			1.00			@	\$250.00	each	\$250.00
Construct turnaround near landing -			1.00			@	\$75.00	each	\$75.00
Grade and shape road -			32.00			stations @	\$14.00	per station	\$448.00
Roll subgrade w/ vibratory roller prior to rocking -			32.00			stations @	\$13.20	per station	\$422.40
Remove large stumps -			1.00			lump sum @	\$375.00	total	\$375.00
Grass seed and fertilize -			1.47			acres @	\$220.00	per acre	\$323.40
TOTAL SPECIAL PROJECTS									\$1,893.80

GRAND TOTAL **\$28,258.30**

SUMMARY OF CONSTRUCTION COST

Sale: **Cougar Camp**

Road: **Q to R**

Construction -	0+00	stations	Improvement -	9+80	stations	Reconstruction -	0+00	stations
	0.00	miles		0.19	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast	0.021	acres @	\$660.00	per acre =	\$13.86
Widening	0.034	acres @	\$660.00	per acre =	\$22.44
Scattering	0.360	acres @	\$980.00	per acre =	\$352.80
TOTAL CLEARING AND GRUBBING					\$389.10

IMPROVEMENT: EXCAVATION -

Pullback	130	cy. @	\$1.40	per c.y. =	\$182.00
Widening	146	cy. @	\$1.40	per c.y. =	\$204.40
TOTAL EXCAVATION					\$386.40

IMPROVEMENT: ENDHAUL -

Pullback	8+55	to	9+05	130	cy. @	\$2.72	per c.y. =	\$353.60
Widening	8+55	to	9+05	146	cy. @	\$2.72	per c.y. =	\$397.12
Spread & compact				276	cy. @	\$0.25	per c.y. =	\$69.00
TOTAL ENDHAUL								\$819.72

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>		0	LF of 18"	\$0.00	68	LF of 24"	\$1,836.00
				\$0.00			\$1,836.00
<u>Culvert Stakes & Markers</u>				\$16.00			
		2	markers	\$16.00			
TOTAL CULVERTS							\$1,852.00

ROCK

0+00 to	2+30	140	cy. of	Jaw-run	@	\$8.93	per c.y. =	\$1,250.20
5+85 to	6+85	60	cy. of	Jaw-run	@	\$9.00	per c.y. =	\$540.00
Junction Rock	0+00	20	cy. of	Jaw-run	@	\$8.89	per c.y. =	\$177.80
Energy Dissipator	1+80, 6+35	10	cy. of	Riprap	@	\$8.18	per c.y. =	\$81.80
TOTAL ROCK								\$2,049.80

SPECIAL PROJECTS

Construct junction at 0+00 -	2.00	hours @	\$145.00	per hour	\$290.00
Remove log fills at 1+80, 6+35, 9+80 -	10.00	hours @	\$145.00	per hour	\$1,450.00
Construct waste areas -	1.00	hours @	\$130.00	per hour	\$130.00
Construct turnaround -	1.00	@	\$75.00	each	\$75.00
Grade and shape road -	9.80	stations @	\$14.00	per station	\$137.20
Roll subgrade w/ vibratory roller -	9.80	stations @	\$13.20	per station	\$129.36
Grass seed and fertilize -	0.31	acres @	\$220.00	per acre	\$68.20
Mulching -	0.250	acres @	\$600.00	per acre	\$150.00
TOTAL SPECIAL PROJECTS					\$2,429.76

GRAND TOTAL **\$7,926.78**

SUMMARY OF CONSTRUCTION COST

Sale: **Cougar Camp** Road: **S to T**

Construction -	22+90	stations	Improvement -	0+00	stations	Reconstruction -	5+10	stations
	0.43	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			
5+10		6+10	40%		Outslope	\$243	=	\$243.00	
6+10		12+10	30%		Outslope	\$191	=	\$1,146.00	
12+10		13+90	40%		Outslope	\$243	=	\$437.40	
13+90		18+00	30%		Outslope	\$191	=	\$783.10	
18+00		20+80	20%		Outslope	\$139	=	\$389.20	
20+80		24+00	25%		Outslope	\$165	=	\$528.00	
24+00		25+00	30%		Outslope	\$191	=	\$191.00	
25+00		28+00	10%		Outslope	\$90	=	\$270.00	
								TOTAL	\$3,987.70

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	0.300	acres	@	\$980.00	per acre =	\$294.00		
							TOTAL CLEARING AND GRUBBING	\$294.00

ROCK

0+00	to	1+00	60	cy. of	Jaw-run	@	\$8.65 per c.y.=	\$519.00	
Junction Rock		0+00	20	cy. of	Jaw-run	@	\$8.64 per c.y.=	\$172.80	
								TOTAL ROCK	\$691.80

SPECIAL PROJECTS

Construct landing at 28+00 -	1.00	@	\$250.00	each	\$250.00		
Construct turnaround before landing -	1.00	@	\$75.00	each	\$75.00		
Grade and shape road -	28.00	stations @	\$14.00	per station	\$392.00		
Roll subgrade w/ vibratory roller prior to rocking -	28.00	stations @	\$13.20	per station	\$369.60		
Remove large stumps -	1.00	lump sum @	\$225.00	total	\$225.00		
Grass seed and fertilize -	0.93	acres @	\$220.00	per acre	\$204.60		
						TOTAL SPECIAL PROJECTS	\$1,516.20

GRAND TOTAL **\$6,489.70**

SUMMARY OF CONSTRUCTION COST

Sale: **Cougar Camp** Road: **U to V**

Construction -	35+00 0.66	stations miles	Improvement -	3+00 0.06	stations miles	Reconstruction -	9+00 0.17	stations miles
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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		
9+00		9+70	50%		Outslope	\$459	=	\$321.30
9+70		10+40	25%		Outslope	\$165	=	\$115.50
10+40		12+60	10%		Outslope	\$90	=	\$198.00
12+60		13+60	25%		Outslope	\$165	=	\$165.00
13+60		14+70	45%		Outslope	\$269	=	\$295.90
14+70		20+70	55%		Outslope	\$689	=	\$4,134.00
20+70		23+10	25%		Outslope	\$165	=	\$396.00
23+10		30+10	35%		Outslope	\$191	=	\$1,337.00
30+10		34+90	45%		Outslope	\$269	=	\$1,291.20
34+90		37+30	10%		Outslope	\$90	=	\$216.00
37+30		39+00	30%		Outslope	\$191	=	\$324.70
42+00		47+00	10%		Outslope	\$90	=	\$450.00
TOTAL								\$9,244.60

IMPROVEMENT: CLEARING AND GRUBBING -

Scattering	0.110	acres @	\$980.00	per acre =	\$107.80		
TOTAL CLEARING AND GRUBBING							\$107.80

RECONSTRUCTION: CLEARING AND GRUBBING -

Widening	0.032	acres @	\$660.00	per acre =	\$21.12		
Scattering	0.660	acres @	\$980.00	per acre =	\$646.80		
TOTAL CLEARING AND GRUBBING							\$667.92

RECONSTRUCTION: EXCAVATION -

Widening	472	cy. @	\$1.40	per c.y.=	\$660.80		
TOTAL EXCAVATION							\$660.80

RECONSTRUCTION: ENDHAUL -

Widening	2+70	to	6+20	472	cy. @	\$2.72	per c.y.=	\$1,283.84
Spread & compact				472	cy. @	\$0.25	per c.y.=	\$118.00
TOTAL ENDHAUL							\$1,401.84	

CULVERTS - MATERIALS & INSTALLATION

Culverts	Qty	Size	Unit Cost	Total Cost	Qty	Size	Unit Cost	Total Cost
	0	LF of 18"	\$0.00		142	LF of 24"	\$3,834.00	
	0	LF of 30"	\$0.00		80	LF of 36"	\$3,846.00	
			\$0.00				\$7,680.00	
<u>Culvert Stakes & Markers</u>								
	6	markers	\$48.00					
			\$48.00					
TOTAL CULVERTS								\$7,728.00

ROCK

0+00 to	47+00	2,230	cy. of	Crushed	@	\$18.98	per c.y.=	\$42,325.40
Traction Rock	---	100	cy. of	Crushed	@	\$18.98	per c.y.=	\$1,898.00
Landing Rock	47+00	100	cy. of	Crushed	@	\$19.34	per c.y.=	\$1,934.00
Junction Rock	0+00	20	cy. of	Crushed	@	\$18.61	per c.y.=	\$372.20
Energy Dissipator	Six Locations	30	cy. of	Riprap	@	\$9.18	per c.y.=	\$275.40
TOTAL ROCK								\$46,805.00

SPECIAL PROJECTS

Construct landing at 47+00 -	1.00	@	\$250.00	each	\$250.00			
Remove log fills at 0+20, 35+70, 40+00, 42+00 -	12.00	hours @	\$145.00	per hour	\$1,740.00			
Construct waste areas -	1.00	hours @	\$130.00	per hour	\$130.00			
Construct turnaround before landing -	1.00	@	\$75.00	each	\$75.00			
Cut/Drift from 7+55 to reduce grade ahead -	2.00	hours @	\$130.00	per hour	\$260.00			
Grade and shape road -	47.00	stations @	\$14.00	per station	\$658.00			
Roll subgrade w/ vibratory roller -	47.00	stations @	\$13.20	per station	\$620.40			
Remove large stumps -	1.00	lump sum @	\$675.00	total	\$675.00			
Grass seed and fertilize -	2.04	acres @	\$220.00	per acre	\$448.80			
Mulching -	0.255	acres @	\$600.00	per acre	\$153.00			
TOTAL SPECIAL PROJECTS								\$5,010.20

GRAND TOTAL **\$71,626.16**

SUMMARY OF CONSTRUCTION COST

Sale: **Cougar Camp**

Road: **W to X**

Construction -	0+00	stations	Improvement -	26+20	stations	Reconstruction -	0+00	stations
	0.00	miles		0.50	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast	0.010	acres @	\$660.00	per acre =	\$6.60
Widening	0.119	acres @	\$660.00	per acre =	\$78.54
Scattering	0.240	acres @	\$980.00	per acre =	\$235.20
TOTAL CLEARING AND GRUBBING					\$320.34

IMPROVEMENT: EXCAVATION -

Pullback	77	cy. @	\$1.40	per c.y.=	\$107.80
Widening	650	cy. @	\$1.40	per c.y.=	\$910.00
Remove outside berm	10	cy. @	\$1.40	per c.y.=	\$14.00
TOTAL EXCAVATION					\$1,031.80

IMPROVEMENT: ENDHAUL -

Pullback	14+60	to	14+85	77	cy. @	\$3.18	per c.y.=	\$244.86
Widening	2+30	to	2+55	13	cy. @	\$2.52	per c.y.=	\$32.76
Widening	5+05	to	5+40	46	cy. @	\$2.67	per c.y.=	\$122.82
Widening	5+70	to	6+05	30	cy. @	\$2.71	per c.y.=	\$81.30
Widening	6+45	to	7+80	137	cy. @	\$2.77	per c.y.=	\$379.49
Widening	8+45	to	8+85	52	cy. @	\$2.86	per c.y.=	\$148.72
Widening	12+35	to	13+00	72	cy. @	\$3.07	per c.y.=	\$221.04
Widening	13+00	to	13+50	20	cy. @	\$3.10	per c.y.=	\$62.00
Widening	14+60	to	15+20	142	cy. @	\$3.19	per c.y.=	\$452.98
Widening	15+70	to	16+65	138	cy. @	\$3.26	per c.y.=	\$449.88
Remove outside berm	24+60	to	24+95	10	cy. @	\$3.71	per c.y.=	\$37.10
Spread & compact				737	cy. @	\$0.25	per c.y.=	\$184.25
TOTAL ENDHAUL								\$2,417.20

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	0	LF of 18"	\$0.00		74	LF of 24"	\$1,998.00
			\$0.00				\$1,998.00
<u>Culvert Stakes & Markers</u>							
	2	markers	\$16.00				
			\$16.00				
TOTAL CULVERTS							\$2,014.00

ROCK

0+00 to	2+80	170	cy. of	Jaw-run	@	\$9.71	per c.y.=	\$1,650.70
4+70 to	5+70	60	cy. of	Jaw-run	@	\$9.76	per c.y.=	\$585.60
13+90 to	14+90	60	cy. of	Jaw-run	@	\$9.91	per c.y.=	\$594.60
Landing Rock	21+40	100	cy. of	Jaw-run	@	\$10.02	per c.y.=	\$1,002.00
Junction Rock	0+00	20	cy. of	Jaw-run	@	\$9.68	per c.y.=	\$193.60
Energy Dissipator	+30, 5+20, 14+	15	cy. of	Riprap	@	\$10.04	per c.y.=	\$150.60
TOTAL ROCK								\$4,177.10

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	\$130.00	per hour	\$130.00
Construct landing at 21+40 -	1.00	@	\$250.00	each	\$250.00
Construct junction at 0+00 -	2.00	hours @	\$145.00	per hour	\$290.00
Grade and shape road -	26.20	stations @	\$14.00	per station	\$366.80
Construct turnaround before landing -	1.00	@	\$75.00	each	\$75.00
Roll subgrade w/ vibratory roller -	26.20	stations @	\$13.20	per station	\$345.84
Remove log fills @ stations 2+30, 3+30, 14+40, 26+20 -	22.00	hours @	\$145.00	per hour	\$3,190.00
Grass seed and fertilize -	0.98	acres @	\$220.00	per acre	\$215.60
Mulching -	0.481	acres @	\$600.00	per acre	\$288.60
TOTAL SPECIAL PROJECTS					\$5,151.84

GRAND TOTAL **\$15,112.28**

SUMMARY OF CONSTRUCTION COST

Sale:

Cougar Camp

Road:

Y to Z

Construction -	3+60	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.07	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		0+80	40%		Outslope	\$243	=	\$194.40	
0+80		3+60	10%		Outslope	\$90	=	\$252.00	
								TOTAL	\$446.40

ROCK

0+00	to	3+60	210	cy. of	Jaw-run	@	\$9.20	per c.y.=	\$1,932.00
Landing Rock		3+60	100	cy. of	Jaw-run	@	\$9.22	per c.y.=	\$922.00
Junction Rock		0+00	20	cy. of	Jaw-run	@	\$9.17	per c.y.=	\$183.40
								TOTAL ROCK	\$3,037.40

SPECIAL PROJECTS

Construct landing at 3+60 -	1.00	@	\$250.00	per hour	\$250.00	
Cut/Drift from area of 1+70 to reduce grade -	2.00	hours @	\$130.00	per hour	\$260.00	
Grade and shape road -	3.60	stations @	\$15.50	per station	\$55.80	
Roll subgrade w/ vibratory roller prior to rocking -	3.60	stations @	\$13.20	per station	\$47.52	
Grass seed and fertilize -	0.10	acres @	\$220.00	per acre	\$22.00	
					TOTAL SPECIAL PROJECTS	\$635.32

GRAND TOTAL **\$4,119.12**

SUMMARY OF CONSTRUCTION COST

Sale: **Cougar Camp**

Road: **AA to BB**

Construction -	15+10 0.29	stations miles	Improvement -	0+00 0.00	stations miles	Reconstruction -	4+00 0.08	stations miles
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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	=	
4+00		5+70	45%			\$269	=	\$457.30
5+70		6+55	40%			\$243	=	\$206.55
6+55		7+60	30%			\$191	=	\$200.55
7+60		8+05	15%			\$107	=	\$48.15
8+05		8+65	25%			\$165	=	\$99.00
8+65		10+65	10%			\$90	=	\$180.00
10+65		12+00	35%			\$191	=	\$257.85
12+00		13+75	20%			\$139	=	\$243.25
13+75		19+10	30%			\$191	=	\$1,021.85
TOTAL								\$2,714.50

RECONSTRUCTION: CLEARING AND GRUBBING -

Widening	0.010	acres @	\$660.00	per acre =	\$6.60
Scattering	0.180	acres @	\$980.00	per acre =	\$176.40
TOTAL CLEARING AND GRUBBING					\$183.00

RECONSTRUCTION: EXCAVATION -

Widening	104	cy. @	\$1.40	per c.y. =	\$145.60
TOTAL EXCAVATION					\$145.60

RECONSTRUCTION: ENDHAUL -

Widening	0+40	to	1+35	83	cy. @	\$2.61	per c.y. =	\$216.63
Widening	1+35	to	1+70	21	cy. @	\$2.72	per c.y. =	\$57.12
Spread & compact				104	cy. @	\$0.25	per c.y. =	\$26.00
TOTAL ENDHAUL								\$299.75

SPECIAL PROJECTS

Construct landing at 19+10 -	1.00	@	\$350.00	each	\$350.00
Cut/Drift to remove grade irregularity @ area of 2+20 -	2.00	hours @	\$130.00	per hour	\$260.00
Grade and shape road -	19.10	stations @	\$14.00	per station	\$267.40
Construct turnaround after landing -	1.00	@	\$75.00	each	\$75.00
Roll subgrade w/ vibratory roller prior to rocking -	19.10	stations @	\$13.20	per station	\$252.12
Remove large stumps and logs -	1.00	lump sum @	\$975.00	total	\$975.00
Grass seed and fertilize -	0.79	acres @	\$220.00	per acre	\$173.80
Mulching -	0.129	acres @	\$600.00	per acre	\$77.40
TOTAL SPECIAL PROJECTS					\$2,430.72

GRAND TOTAL **\$5,773.57**

SUMMARY OF CONSTRUCTION COST

Sale: **Cougar Camp**

Road: **CC to DD**

Construction -	0+00	stations	Improvement -	1+70	stations	Reconstruction -	0+00	stations
	0.00	miles		0.03	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

TOTAL CLEARING AND GRUBBING \$0.00

IMPROVEMENT: EXCAVATION -

TOTAL EXCAVATION \$0.00

ROCK

0+00 to	1+70	60	cy. of	Crushed	@	\$16.53 per c.y.=	\$991.80	
Road Block	1+70	5	cy. of	Riprap	@	\$17.01 per c.y.=	\$85.05	
Junction Rock	0+00	10	cy. of	Crushed	@	\$16.52 per c.y.=	\$165.20	
							TOTAL ROCK	\$1,242.05

GRAND TOTAL \$1,242.05

SUMMARY OF CONSTRUCTION COST

Sale: **Cougar Camp**

Road: **EE to FF**

Construction -	0+00	stations	Improvement -	2+10	stations	Reconstruction -	0+00	stations
	0.00	miles		0.04	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

TOTAL CLEARING AND GRUBBING \$0.00

IMPROVEMENT: EXCAVATION -

TOTAL EXCAVATION \$0.00

ROCK

0+00 to	2+10	70	cy. of	Crushed	@	\$16.68 per c.y.=	\$1,167.60	
Road Block	2+10	5	cy. of	Riprap	@	\$17.30 per c.y.=	\$86.50	
Junction Rock	0+00	10	cy. of	Crushed	@	\$16.66 per c.y.=	\$166.60	
							TOTAL ROCK	\$1,420.70

GRAND TOTAL \$1,420.70

SUMMARY OF CONSTRUCTION COST

Sale:

Cougar Camp

Point

GG

SPECIAL PROJECTS

Remove fills and pullback sidecast near point GG -
Grass seed and fertilize -
Mulching -

8.00	hours @	\$145.00	per hour	\$1,160.00
0.16	acres @	\$220.00	per acre	\$35.20
0.160	acres @	\$600.00	per acre	<u>\$96.00</u>

TOTAL SPECIAL PROJECTS **\$1,291.20**

GRAND TOTAL **\$1,291.20**

SUMMARY OF CONSTRUCTION COST

Sale:

Cougar Camp

Point

HH (Kilchis Stockpile)

SPECIAL PROJECTS

Purchase 1 1/2"-0" rock commercially -
Shape stockpile -

3000.00
3000.00

CY @
CY @

\$21.50 per cy hauled \$64,500.00
\$1.25 per cy \$3,750.00

TOTAL SPECIAL PROJECTS \$68,250.00

GRAND TOTAL

\$68,250.00

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Jaw_run	Location:	SE 1/4, SE 1/4, Sec. 12, T3N, R8W, W.M.
Sale:	Cougar Camp	Road:	10300 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage:	1.16	Total Truck Loads:	10300 c.y.
Drill Pct.:	35%	In Place Total:	7357 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area adjacent to pit, place overburden in Waste Area, spread and compact. \$2,013.34

Drill & Shoot:	\$2.50 /cu.yd.	x	2575 cu.yds.	=	\$6,437.50
Rip Rock:	\$1.90 /cu.yd.	x	4782 cu.yds.	=	\$9,085.80
Load Crusher:	\$0.60 /cu.yd.	x	10200 cu.yds.	=	\$6,120.00
Crush Rock:	\$1.85 /cu.yd.	x	10200 cu.yds.	=	\$18,870.00
Load Dump Truck:	\$0.70 /cu.yd.	x	10300 cu.yds.	=	\$7,210.00

Subtotal \$49,736.64

Move In/Set-up Crusher	1	@	\$1,640.00	=	\$1,640.00
Move In and set up Drill and Compressor	1	@	\$578.45	=	\$578.45
Move in Roller and Compactor	1	@	\$578.45	=	\$578.45
Move in Grader	1	@	\$222.65	=	\$222.65
Move in D-8	1	@	\$826.62	=	\$826.62
Move in Loader	1	@	\$687.98	=	\$687.98
Move in Excavator	1	@	\$907.84	=	\$907.84
Move in Trucks	2	@	\$190.54	=	\$381.08
Move in Water Truck	1	@	\$223.97	=	\$223.97
					Subtotal \$6,047.04

TOTAL PRODUCTION COSTS \$55,783.68

Base Cost= \$5.42 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 Energy Dissipator (Riprap)	3.51	1.40	1.90	6.81	35	\$238.35
C to D 9600 10220 (Jaw-run)	4.10	1.10	5.42	10.62	350	\$3,717.00
C to D 11375 11475 (Jaw-run)	4.33	1.10	5.42	10.85	60	\$651.00
C to D 11630 11730 (Jaw-run)	4.38	1.10	5.42	10.90	60	\$654.00
C to D Landing Rock (Jaw-run)	4.10	1.10	5.42	10.62	100	\$1,062.00
C to D Energy Dissipator (Riprap)	8.76	1.40	1.90	12.06	10	\$120.60
E to F 3960 6690 (Jaw-run)	2.93	1.10	5.42	9.45	1470	\$13,891.50
E to F Landing Rock (Jaw-run)	3.15	1.10	5.42	9.67	100	\$967.00
E to F Junction Rock (Jaw-run)	2.72	1.10	5.42	9.24	20	\$184.80
G to H 0 6050 (Jaw-run)	1.52	1.10	5.42	8.04	3210	\$25,808.40
G to H Landing Rock (Jaw-run)	2.00	1.10	5.42	8.52	100	\$852.00
G to H Junction Rock (Jaw-run)	1.05	1.10	5.42	7.57	30	\$227.10
I to J 0 2250 (Jaw-run)	1.57	1.10	5.42	8.09	1210	\$9,788.90
I to J Landing Rock (Jaw-run)	1.74	1.10	5.42	8.26	100	\$826.00
I to J Junction Rock (Jaw-run)	1.39	1.10	5.42	7.91	20	\$158.20
K to L 0 510 (Jaw-run)	1.68	1.10	5.42	8.20	290	\$2,378.00
K to L Landing Rock (Jaw-run)	1.72	1.10	5.42	8.24	100	\$824.00
K to L Junction Rock (Jaw-run)	1.64	1.10	5.42	8.16	20	\$163.20
M to N 0 100 (Jaw-run)	1.84	1.10	5.42	8.36	60	\$501.60
M to N Junction Rock (Jaw-run)	1.83	1.10	5.42	8.35	20	\$167.00
O to P 0 3200 (Jaw-run)	2.20	1.10	5.42	8.72	1720	\$14,998.40
O to P Landing Rock (Jaw-run)	2.45	1.10	5.42	8.97	100	\$897.00
O to P Junction Rock (Jaw-run)	1.95	1.10	5.42	8.47	20	\$169.40
Q to R 0 230 (Jaw-run)	2.41	1.10	5.42	8.93	140	\$1,250.20
Q to R 585 685 (Jaw-run)	2.48	1.10	5.42	9.00	60	\$540.00
Q to R Junction Rock (Jaw-run)	2.37	1.10	5.42	8.89	20	\$177.80
Q to R Energy Dissipator (Riprap)	4.88	1.40	1.90	8.18	10	\$81.80
S to T 0 100 (Jaw-run)	2.13	1.10	5.42	8.65	60	\$519.00
S to T Junction Rock (Jaw-run)	2.12	1.10	5.42	8.64	20	\$172.80
U to V Energy Dissipator (Riprap)	5.88	1.40	1.90	9.18	30	\$275.40
W to X 0 280 (Jaw-run)	3.19	1.10	5.42	9.71	170	\$1,650.70
W to X 470 570 (Jaw-run)	3.24	1.10	5.42	9.76	60	\$585.60
W to X 1390 1490 (Jaw-run)	3.39	1.10	5.42	9.91	60	\$594.60
W to X Landing Rock (Jaw-run)	3.50	1.10	5.42	10.02	100	\$1,002.00
W to X Junction Rock (Jaw-run)	3.16	1.10	5.42	9.68	20	\$193.60
W to X Energy Dissipator (Riprap)	6.74	1.40	1.90	10.04	15	\$150.60
Y to Z 0 360 (Jaw-run)	2.68	1.10	5.42	9.20	210	\$1,932.00
Y to Z Landing Rock (Jaw-run)	2.70	1.10	5.42	9.22	100	\$922.00
Y to Z Junction Rock (Jaw-run)	2.65	1.10	5.42	9.17	20	\$183.40
Total C.Y.					10300	Sub Total \$89,476.95

TOTAL ROCKING COSTS \$89,476.95

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed	Location:	SE 1/4, NE 1/4, Sec 21, T3N, R8W, W.M.
Sale:	Cougar Camp	Road:	11130 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage:	1.16	Total Truck Loads:	11130 c.y.
Drill Pct.:	100%	In Place Total:	7950 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area adjacent to pit, place overburden in Waste Area, spread and compact. \$3,364.74

Drill & Shoot:	\$2.50	/cu.yd.	x	7950	cu.yds.	=	\$19,875.00
Push Rock:	\$0.60	/cu.yd.	x	11130	cu.yds.	=	\$6,678.00
Load Crusher:	\$0.60	/cu.yd.	x	11120	cu.yds.	=	\$6,672.00
Crush Rock:	\$2.45	/cu.yd.	x	11120	cu.yds.	=	\$27,244.00
Load Dump Truck:	\$0.70	/cu.yd.	x	11130	cu.yds.	=	\$7,791.00

Subtotal \$71,624.74

Move In/Set-up Crusher	1	@	\$4,770.00	=	\$4,770.00
Move In and set up Drill and Compressor	1	@	\$578.45	=	\$578.45
Move in Roller and Compactor	1	@	\$578.45	=	\$578.45
Move in Grader	1	@	\$222.65	=	\$222.65
Move in Loader	1	@	\$687.98	=	\$687.98
Move in Excavator	1	@	\$907.84	=	\$907.84
Move in Trucks	4	@	\$190.54	=	\$762.16
Move in Water Truck	1	@	\$223.97	=	\$223.97
Change Gradation	1	@	\$210.00	=	\$210.00
					Subtotal \$8,941.50

TOTAL PRODUCTION COSTS \$80,566.24

Base Cost= \$7.24 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 11160 21830 (Crushed)	7.77	2.45	7.24	17.46	4970	\$86,776.20
A to B Spot Rock (Crushed)	6.08	2.45	7.24	15.77	100	\$1,577.00
C to D Spot Rock (Crushed)	6.08	2.45	7.24	15.77	100	\$1,577.00
E to F Spot Rock (Crushed)	6.11	2.45	7.24	15.80	50	\$790.00
O to P Traction Rock (Crushed)	8.54	2.45	7.24	18.23	100	\$1,823.00
U to V 0 4700 (Crushed)	9.29	2.45	7.24	18.98	2230	\$42,325.40
U to V Traction Rock (Crushed)	9.29	2.45	7.24	18.98	100	\$1,898.00
U to V Landing Rock (Crushed)	9.65	2.45	7.24	19.34	100	\$1,934.00
U to V Junction Rock (Crushed)	8.92	2.45	7.24	18.61	20	\$372.20
CC to DD 0 170 (Crushed)	6.84	2.45	7.24	16.53	60	\$991.80
CC to DD Junction Rock (Crushed)	6.83	2.45	7.24	16.52	10	\$165.20
CC to DD Road Block (Riprap)	13.71	1.40	1.90	17.01	5	\$85.05
EE to FF 0 210 (Crushed)	6.99	2.45	7.24	16.68	70	\$1,167.60
EE to FF Junction Rock (Crushed)	6.97	2.45	7.24	16.66	10	\$166.60
EE to FF Road Block (Riprap)	14.00	1.40	1.90	17.30	5	\$86.50
II Stockpile (4"-0")	0.96	1.00	7.24	9.20	2000	\$18,400.00
JJ Stockpile (1 1/2"-0")	0.96	1.00	7.24	9.20	1200	\$11,040.00
				Total C.Y.	11130	Sub Total \$171,175.55

TOTAL ROCKING COSTS \$171,175.55

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

Sale: **Cougar Camp**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
66.0	Pavement	30
5.0	Main Lines	7
3.0	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	Drill & Compressor	\$642.29		\$46.00	0.00	0.00	0	\$0.00	\$642.29
1	Brush Cutter	\$624.45		\$4.00	0.00	0.00	0	\$0.00	\$624.45
2	Excavators (Large)	\$1,916.89	1	\$44.80	0.00	0.00	0	\$0.00	\$1,916.89
2	Tractor (D8)	\$1,855.64	2	\$15.10	0.00	0.00	0	\$0.00	\$1,855.64
4	Dump Truck (10 cy +)	\$936.80		\$2.85	0.00	0.00	0	\$0.00	\$936.80
2	Dump Truck (Off Hiway)	\$1,500.16	1	\$4.75	0.00	0.00	0	\$0.00	\$1,500.16
2	Water Truck (1500 Gal)	\$381.09		\$2.85	0.00	0.00	0	\$0.00	\$381.09
TOTAL MOVE-IN COSTS:								\$7,857.32	



"STEWARDSHIP IN FORESTRY"

Cougar Camp

Volume Summary

Area 1-Partial Cut				
98 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	2.2	220	5%	209
Hemlock	6.9	678	5%	644
Alder	2.7	262	10%	236
TOTAL	11.8	1160		1089

Area 2-Modified Clearcut				
65 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	9.3	606	5%	576
Hemlock	9.2	599	5%	569
Alder	9.4	614	10%	553
TOTAL	28.0	1819		1698

Area 3-Partial Cut				
156 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	4.6	720	5%	684
Hemlock	1.6	244	5%	232
Alder	4.0	620	10%	558
TOTAL	10.2	1584		1474

Area 4-Modified Clearcut				
86 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	14.8	1272	5%	1208
Hemlock	2.3	201	5%	191
Alder	9.5	818	10%	736
TOTAL	26.6	2291		2135

Area 5-Partial Cut				
412 acres				



"STEWARDSHIP IN FORESTRY"

Cougar Camp

Volume Summary

SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	6.9	2831	5%	2689
Hemlock	2.8	1169	5%	1111
Alder	1.6	639	10%	575
TOTAL	11.3	4639		4375

TOTAL SALE VOLUME		817	acres
SPECIES	Cruised Net (MBF)	Net Sale (MBF)	
Douglas-fir	5649	5366	
Hemlock	2891	2747	
Red Alder	2953	2658	
TOTAL	11493	10771	



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Cougar Camp*

1. Type of Sale

Conifer and hardwood – Partial Cut; Conifer and hardwood – Modified Clearcut; Recovery.

2. Legal Description

Sections 7, 8, 17, and 18, T3N, R7W, Sections 11, 12, and 13, T3N, R8W, W.M., Tillamook County, Oregon.

3. Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

Area	ACRES	
	Gross	Net
1 (Partial Cut)	102	98
2 (Modified Clear-cut)	68	65
3 (Partial Cut)	171	156
4 (Modified Clear-cut)	99	86
5 (Partial Cut)	442	412

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

The areas were variable plot cruised. Plot and line spacing was 350' and 700' respectively. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 10" DBH and greater containing 30 board feet were recorded. Species, DBH(to the nearest inch), merchantable bole length (to the nearest foot), form factor, and defect were recorded for all trees. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods respectively.

B. Plot size

All plots were measured with a 40 BAF and the point of tree observation was 4.5 feet.

C. Grading System

All trees were graded according to Columbia River Log Scaling Rules. Log lengths favored 40' lengths.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, stand tables, and volume for each species and type. Take and leave trees for partial cut areas 1, 3, and 5 were chosen using plot data in the office with the goal of leaving the biggest and best trees. Leave trees in modified clear-cut areas 2 and 4 leave trees were designated for snags and green trees.

Cruise Statistics (Board Foot Volumes)			
Area	Number of Plots	SE (%)	CV (%)
1	18	11.3	46.7
2	12	17.3	57.4
3	28	9.1	47.1
4	15	9.7	36.3
5	66	4.9	39.4
Total	139	3.9	45.5

6. Hidden Defect and Breakage

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

7. Timber Description

The sale was burned in the 1945 Salmonberry/ Wilson River Fire then naturally regenerated with a mix of species including Douglas-fir, western hemlock, red alder, red cedar, noble fir, and Sitka spruce. Portions of the sale were pre-commercially thinned about 30 years ago.

Sale Area	Species	DBH	Merchantable Bole Height (feet)	Merchantable Top (inches inside bark)
1	Douglas-fir	11.0	71	5
	Hemlock	14.1	64	5
	Alder	13.2	47	6
2	Douglas-fir	15.4	63	5
	Hemlock	14.7	61	5
	Alder	13.8	51	6

3	Douglas-fir	15.9	75	5
	Hemlock	13.9	59	5
	Alder	12.8	51	6
4	Douglas-fir	17.9	87	5
	Hemlock	13.7	58	5
	Alder	13.6	57	6
5	Douglas-fir	14.2	75	5
	Hemlock	12.6	55	5
	Alder	12.4	52	6

8. Cruiser Names/Dates

The areas were contract cruised by Woodward Forestry LLC in July 2008.

9. Revenue Distribution

98% FDF; 2%CSL

Tax Code: 56-1 100%

Deed Numbers: 35, 146, 99999

10. Attachments

Volume Summaries

Stand Table for Areas 1, 3, and 5 (partial cuts)

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DF – Douglas-fir take

DL – Douglas-fir leave

WH – Western hemlock take

WL – Western hemlock leave

RA – Red alder take

OH – Red alder leave

RC – Western red cedar reserved

SF – True fir reserved

TC		TLOGSTVB		Log Stock Table - MBF														
Project:										COUGCAMP								
T03N R07W S07 TSALE										T03N R07W S07 TSAL								
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1									
03N	07W	07	AREA_1	SALE	98.00	18	104	Date	9/4/2012									
								Time	8:38:48AM									
Spp	T	So	Gr	Log	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
WL	8	2	40		843	5.8	795	50.2				53	314	329	63	36		
WL	8	3	30		3	5.0	3	.2			3							
WL	8	3	31		2	5.0	2	.1			2							
WL	8	3	32		58	5.0	55	3.5			3	13	28	11				
WL	8	3	38		5	5.0	4	.3			4							
WL	8	3	40		656	6.1	616	38.9			9	75	216	174	80	62		
WL	8	4	13		5	5.0	5	.3			5							
WL	8	4	14		4	5.0	4	.2			4							
WL	8	4	15		2	5.0	2	.1			2							
WL	8	4	16		2	5.0	1	.1			1							
WL	8	4	18		2	5.0	2	.1			2							
WL	8	4	19		7	5.0	7	.4			7							
WL	8	4	20		14	5.0	14	.9			6	7						
WL	8	4	21		10	5.0	9	.6			9							
WL	8	4	22		6	5.0	6	.4			6							
WL	8	4	23		4	5.0	4	.2			4							
WL	8	4	25		2	5.0	2	.1			2							
WL	8	4	27		2	5.0	2	.1			2							
WL	8	4	28		2	5.0	2	.1			2							
WL	8	4	29		3	5.0	3	.2			3							
WL	8	4	31		4	5.0	3	.2			3							
WL	8	4	32		5	5.0	4	.3			4							
WL	8	4	33		15	5.0	14	.9			14							
WL	8	4	36		14	5.0	13	.9				13						
WL	8	4	40		10	5.0	9	.6			9							
WL	Totals				1,680	5.8	1,582	44.7			103	114	244	238	393	391	63	36
WH	8	2	40		158	5.0	150	23.3					150					
WH	8	3	32		23	5.0	22	3.4			22							
WH	8	3	40		369	5.5	349	54.2			158	93	99					
WH	8	4	12		1	5.0	1	.1			1							
WH	8	4	13		2	5.0	2	.3			2							
WH	8	4	16		12	5.0	12	1.8			12							
WH	8	4	18		5	5.0	4	.7			4							
WH	8	4	20		6	5.0	5	.8			5							
WH	8	4	21		4	5.0	4	.6			4							
WH	8	4	22		12	5.0	11	1.8			11							
WH	8	4	24		3	5.0	3	.5			3							
WH	8	4	27		11	5.0	10	1.6			10							
WH	8	4	28		6	5.0	6	.9			6							
WH	8	4	30		4	5.0	4	.6			4							
WH	8	4	31		4	5.0	4	.6			4							
WH	8	4	32		7	5.0	7	1.0			7							
WH	8	4	36		23	16.3	19	3.0			19							
WH	8	4	40		32	5.0	31	4.8			31							
WH	Totals				683	5.7	644	18.2			123	179	93	99	150			
DL	8	2	40		429	5.0	407	66.3					55	53	158	34	106	
DL	8	3	16		1	5.0	1	.2			1							
DL	8	3	31		3	5.0	2	.4			2							
DL	8	3	32		24	5.0	23	3.7			8	9	6					

Log Stock Table - MBF
Project: COUGCAMP

T03N R07W S07 TSALE

T03N R07W S07 TSAL

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 03N 07W 07 AREA_1 SALE 98.00 18 104 Date 9/4/2012
 Time 8:38:48AM

Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	SpC	2-3	4-5	6-7	8-9	10-11	12-13	14-15
DL		8	3	34		3	5.0	3	.4				3							
DL		8	3	35		3	5.0	3	.5				3							
DL		8	3	40		155	5.0	148	24.0			8	20	47	47	25				
DL		8	4	12		1	5.0	1	.2		1									
DL		8	4	13		2	5.0	2	.3		2									
DL		8	4	19		4	5.0	4	.6		4									
DL		8	4	20		6	5.0	6	1.0				6							
DL		8	4	21		2	5.0	2	.3		2									
DL		8	4	23		2	5.0	2	.3			2								
DL		8	4	25		2	5.0	2	.3			2								
DL		8	4	30		4	5.0	4	.6				4							
DL		8	4	33		6	5.0	5	.9			5								
DL		Totals				647	5.0	614	17.4		18	14	36	62	108	78	158	34	106	
RA		8	4	13		4	10.0	4	1.6				4							
RA		8	R																	
RA		8	R	8																
RA		8	R	12		4	10.0	4	1.6				4							
RA		8	R	15		16	10.0	14	6.1				14							
RA		8	R	17		11	10.0	10	4.4				10							
RA		8	R	19		7	10.0	6	2.7				6							
RA		8	R	20		16	10.0	14	6.1				14							
RA		8	R	25		16	10.0	15	6.3				15							
RA		8	R	35		12	21.3	10	4.2				10							
RA		8	R	37		12	10.0	11	4.8				11							
RA		8	R	38		11	10.0	10	4.2				10							
RA		8	R	40		154	10.8	137	58.1				113	24						
RA		Totals				265	11.0	236	6.7			212	24							
DF		8	2	40		60	5.0	57	27.2					28	29					
DF		8	3	32		20	5.0	19	9.0			19								
DF		8	3	40		112	5.0	106	51.0				17	68	21					
DF		8	4	16		7	5.0	6	3.0		6									
DF		8	4	23		4	5.0	4	1.9		4									
DF		8	4	29		4	5.0	4	1.9		4									
DF		8	4	30		2	5.0	2	1.1		2									
DF		8	4	31		4	5.0	4	1.9		4									
DF		8	4	32		2	5.0	2	1.0		2									
DF		8	4	40		4	5.0	4	2.0		4									
DF		Totals				220	5.0	209	5.9		27	19	17	68	21	28	29			
OH		8	R	14		2		2	1.6				2							
OH		8	R	19		10		10	6.6				10							
OH		8	R	25		4		4	2.7				4							
OH		8	R	26		7		7	4.6				7							
OH		8	R	35		11		11	7.4				11							
OH		8	R	40		118	1.9	116	77.0				72	20	24					
OH		Totals				152	1.5	150	4.2			35	72	20	24					
RC		8	3	24		12	5.0	11	10.9								11			
RC		8	3	40		87	15.4	73	70.8				24			23			26	

TC TLOGSTVB

Log Stock Table - MBF
Project: COUGCAMP

T03N R07W S07 TSALE

T03N R07W S07 TSAL

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	3
03N	07W	07	AREA_1	SALE	98.00	18	104	Date	9/4/2012
								Time	8:38:48AM

Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
RC		8	4	18		2	5.0	2	1.7			2								
RC		8	4	20		10	5.0	9	9.0			9								
RC		8	4	24		8	5.0	8	7.6			8								
RC		Totals				119	12.6	104	2.9			19		24			23	11	26	
Total All Species						3,765	6.0	3,539	100.0		44	278	593	587	485	674	601	109	168	

TC		Stand Table Summary														
TSTNDSUM		Project											COUGCAMP			
T03N R07W S07 TSALE											T03N R07W S07 TSALE					
Twp	Rge	Sec	Tract		Type			Acres	Plots	Sample Trees			Page:	1		
03N	07W	07	AREA_1		SALE			98.00	18	104			Date:	09/04/2011		
												Time:		11:46:06AM		
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
WL		15	3	90	81	5.432	6.67	9.05	22.6	90.0	6.54	204	815	641	200	80
WL		16	2	90	120	3.183	4.44	9.55	20.2	95.0	6.18	193	907	606	189	89
WL		17	2	88	124	2.820	4.44	7.05	28.5	122.0	6.43	201	860	630	197	84
WL		18	2	87	146	2.515	4.44	7.55	30.6	138.3	7.39	231	1,044	725	226	102
WL		19	1	87	126	1.129	2.22	3.39	30.0	126.7	3.25	101	429	318	99	42
WL		20	3	91	112	3.056	6.67	8.15	36.2	165.0	9.43	295	1,345	924	289	132
WL		21	7	89	127	6.467	15.56	19.40	37.7	177.1	23.43	732	3,437	2,296	717	337
WL		22	3	88	122	2.525	6.67	7.58	39.9	183.3	9.67	302	1,389	948	296	136
WL		23	5	89	118	3.851	11.11	10.78	46.8	215.7	16.16	505	2,326	1,584	495	228
WL		24	1	89	133	.707	2.22	2.12	52.8	256.7	3.58	112	545	351	110	53
WL		25	2	86	110	1.304	4.44	3.26	58.7	244.0	6.12	191	795	600	187	78
WL		26	2	90	117	1.205	4.44	3.62	56.6	275.0	6.54	205	994	641	200	97
WL		27	1	85	126	.559	2.22	1.68	63.3	273.3	3.39	106	458	333	104	45
WL		29	1	89	135	.484	2.22	1.45	76.7	393.3	3.57	112	572	350	109	56
WL		30	1	83	137	.453	2.22	1.36	83.1	366.7	3.61	113	498	354	111	49
WL		35	1	87	135	.333	2.22	1.00	113.2	583.3	3.61	113	582	354	111	57
WL		Totals	37	89	117	36.024	82.22	96.98	38.3	175.3	118.93	3,717	16,996	11,655	3,642	1,666
WH		10	2	87	61	8.149	4.44	8.15	9.9	45.0	2.58	81	367	253	79	36
WH		11	1	87	90	3.367	2.22	6.73	10.3	45.0	2.21	69	303	217	68	30
WH		12	3	87	85	8.488	6.67	14.15	14.0	54.0	6.39	199	764	627	195	75
WH		13	2	90	98	4.822	4.44	9.64	15.3	65.0	4.69	147	627	459	144	61
WH		14	1	90	101	2.079	2.22	4.16	18.1	75.0	2.41	75	312	236	74	31
WH		17	3	90	113	4.229	6.67	9.87	28.1	120.0	8.87	277	1,184	869	272	116
WH		18	1	92	141	1.258	2.22	3.77	31.7	156.7	3.83	120	591	375	117	58
WH		19	3	89	136	3.386	6.67	10.16	33.1	153.3	10.76	336	1,558	1,054	329	153
WH		20	3	88	117	3.056	6.67	8.15	36.4	148.7	9.48	296	1,212	929	290	119
WH		Totals	19	88	95	38.833	42.22	74.78	21.4	92.5	51.22	1,600	6,917	5,019	1,568	678
DL		17	2	88	92	2.820	4.44	5.64	26.8	107.5	4.16	151	606	408	148	59
DL		18	2	87	118	2.515	4.44	7.55	23.5	95.0	4.87	177	717	478	174	70
DL		20	1	89	115	1.019	2.22	3.06	30.7	130.0	2.58	94	397	253	92	39
DL		21	2	87	107	1.848	4.44	5.54	30.1	120.0	4.58	167	665	449	163	65
DL		23	1	84	111	.770	2.22	2.31	39.0	166.7	2.48	90	385	243	88	38
DL		25	1	87	136	.652	2.22	1.96	52.3	233.3	2.81	102	456	275	100	45
DL		26	2	88	126	1.205	4.44	3.62	55.5	253.3	5.51	201	916	540	197	90
DL		29	1	89	152	.484	2.22	1.94	61.1	312.5	3.26	118	606	319	116	59
DL		32	1	91	138	.398	2.22	1.19	96.0	513.3	3.15	115	613	309	112	60
DL		34	1	88	143	.352	2.22	1.06	106.2	546.7	3.09	112	578	302	110	57
DL		35	1	87	159	.333	2.22	1.33	89.7	495.0	3.28	119	659	322	117	65
DL		Totals	15	88	115	12.396	33.33	35.19	41.1	187.5	39.78	1,447	6,598	3,899	1,418	647
RA		10	3	84	77	12.223	6.67	16.30	5.6	20.0	2.51	91	326	246	89	32
RA		11	1	81	92	3.367	2.22	3.37	12.6	50.0	1.17	42	168	114	42	16
RA		14	4	84	93	8.315	8.89	16.63	17.0	65.0	7.75	282	1,081	760	277	106
RA		15	2	85	59	3.622	4.44	5.43	19.3	73.3	2.89	105	398	283	103	39
RA		16	3	85	59	4.775	6.67	6.37	25.0	67.5	4.36	159	430	427	156	42
RA		17	2	79	65	2.820	4.44	4.23	26.9	63.3	3.13	114	268	307	111	26
RA		Totals	15	84	77	35.121	33.33	52.32	15.2	51.1	21.81	794	2,671	2,137	778	262
DF		11	1	87	77	3.367	2.22	6.73	8.1	40.0	1.56	55	269	153	54	26
DF		14	1	88	87	2.079	2.22	4.16	15.5	55.0	1.84	64	229	180	63	22
DF		17	2	88	90	2.820	4.44	5.64	25.5	97.5	4.11	144	550	402	141	54

TC		TSTNDSUM											Stand Table Summary				
Project													COUGCAMP				
T03N R07W S07 TSALE											T03N R07W S07 TSALE						
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:	2					
03N	07W	07	AREA_1		SALE	98.00	18	104			Date:	09/04/2011					
											Time:	11:46:06AM					
Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
DF		19	1	81	104	1.129	2.22	2.26	36.8	120.0	2.36	83	271	232	81	27	
DF		22	1	85	135	.842	2.22	2.53	41.0	180.0	2.95	104	455	289	101	45	
DF		23	1	89	134	.770	2.22	2.31	44.9	203.3	2.95	104	470	290	102	46	
DF		Totals		7	87	93	11.006	15.56	23.62	23.4	94.9	15.77	553	2,243	1,546	542	220
OH		17	3	85	79	4.229	6.67	7.05	28.5	106.0	5.53	201	747	542	197	73	
OH		18	1	87	78	1.258	2.22	2.52	25.9	100.0	1.79	65	252	176	64	25	
OH		19	1	86	84	1.129	2.22	2.26	32.9	110.0	2.04	74	248	200	73	24	
OH		22	1	87	86	.842	2.22	1.68	43.6	170.0	2.02	73	286	198	72	28	
OH		Totals		6	86	81	7.457	13.33	13.51	30.7	113.5	11.39	414	1,533	1,116	406	150
RC		9	1	84	38	5.030	2.22	5.03	6.4	20.0	.75	32	101	74	31	10	
RC		12	1	86	32	2.829	2.22	2.83	10.3	30.0	.68	29	85	67	28	8	
RC		21	1	80	75	.924	2.22	1.85	36.9	90.0	1.60	68	166	157	67	16	
RC		26	1	80	130	.603	2.22	1.21	80.9	295.0	2.29	97	356	225	96	35	
RC		41	1	80	129	.242	2.22	.48	185.2	835.0	2.11	90	405	207	88	40	
RC		Totals		5	84	48	9.628	11.11	11.40	27.8	97.6	7.44	317	1,112	729	310	109
Totals		104		87	94	150.467	231.11	307.79	28.7	123.7	266.33	8841	38,071	26,100	8,664	3,731	

TC		TLOGSTVB		Log Stock Table - MBF																	
Project:										COUGCAMP											
T03N R07W S07 TSALE										T03N R07W S07 TSAL											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1												
03N	07W	07	AREA_2	SALE	65.00	12	63	Date	9/4/2012												
									Time	1:26:15PM											
Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19
RA		8	4	9																	
RA		8	R																		
RA		8	R	7																	
RA		8	R	10																	
RA		8	R	11																	
RA		8	R	13		2	10.0	2	.3				2								
RA		8	R	15		14	10.0	13	2.3				13								
RA		8	R	16		18	10.0	16	2.9				16								
RA		8	R	18		7	10.0	6	1.1				6								
RA		8	R	19		22	10.0	20	3.6				20								
RA		8	R	20		8	10.0	7	1.3				7								
RA		8	R	25		14	10.0	13	2.3				13								
RA		8	R	26		22	10.0	20	3.6				20								
RA		8	R	28		9	10.0	8	1.4				8								
RA		8	R	30		20	10.0	18	3.2				18								
RA		8	R	32		39	10.0	35	6.4				16	19							
RA		8	R	33		9	10.0	8	1.4				8								
RA		8	R	37		19	10.0	17	3.1				17								
RA		8	R	39		25	10.0	22	4.0				22								
RA		8	R	40		393	11.6	348	62.9				133	142	56		16				
RA		Totals				621	11.0	553	31.1				319	161	56		16				
DF		8	2	40		312	5.0	296	51.5					69	23	165	39				
DF		8	3	31		3	5.0	2	.4				2								
DF		8	3	32		51	5.0	48	8.4				19	29							
DF		8	3	33		19	5.0	18	3.2						18						
DF		8	3	38		4	5.0	3	.6				3								
DF		8	3	40		151	5.9	142	24.7				70	73							
DF		8	4	13		2	5.0	2	.3				2								
DF		8	4	15		4	5.0	4	.7				4								
DF		8	4	17		4	5.0	4	.7				4								
DF		8	4	19		5	5.0	4	.8				4								
DF		8	4	21		4	5.0	3	.6				3								
DF		8	4	22		2	5.0	2	.3				2								
DF		8	4	24		4	5.0	3	.6				3								
DF		8	4	25		2	5.0	2	.3				2								
DF		8	4	30		19	5.0	18	3.1				18								
DF		8	4	31		8	5.0	8	1.4				8								
DF		8	4	32		15	5.0	14	2.4				14								
DF		Totals				607	5.2	576	32.4				59	30	99	73	69	23	184	39	
WH		8	2	40		126	5.0	120	21.1						52	68					
WH		8	3	32		42	5.0	40	7.0				30	10							
WH		8	3	40		332	6.1	312	54.8				38	165	26	53	29				
WH		8	4	12		1	5.0	1	.2				1								
WH		8	4	13		13	5.0	12	2.2				6		6						
WH		8	4	14		3	5.0	3	.5				3								
WH		8	4	16		12	5.0	12	2.1				12								
WH		8	4	18		2	5.0	2	.3				2								
WH		8	4	19		1	5.0	1	.2				1								
WH		8	4	24		20	5.0	19	3.3				4		14						

TC TLOGSTVB

Log Stock Table - MBF
Project: COUGCAMP

T03N R07W S07 TSALE

T03N R07W S07 TSAL

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2
03N	07W	07	AREA_2	SALE	65.00	12	63	Date	9/4/2012
								Time	1:26:15PM

Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches									
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13
WH		8	4	28		12	5.0	11	2.0			11							
WH		8	4	30		9	5.0	9	1.6			9							
WH		8	4	36		20	5.0	19	3.3			19							
WH		8	4	40		9	5.0	9	1.6			9							
WH		Totals				603	5.6	569	32.0		12	65	68	175	40	112	97		
DL		8	2	40		27	5.0	26	31.5								26		
DL		8	3	40		47	5.0	45	54.7			37		7					
DL		8	4	15		1	5.0	1	.9			1							
DL		8	4	18		4	5.0	4	4.7		4								
DL		8	4	40		7	5.0	7	8.2		7								
DL		Totals				86	5.0	82	4.6		11	38		7			26		
Total All Species						1,918	7.2	1,779	100.0		82	95	524	409	174	134	297	65	

TC		TSTNDSUM		Stand Table Summary													
Project														COUGCAMP			
T03N R07W S07 TSALE										T03N R07W S07 TSALE							
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees			Page:	1						
03N	07W	07	AREA_2	SALE	65.00	12	63			Date:	09/04/2011						
										Time:	11:55:39AM						
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
RA		9	1	81	21	7.545	3.33	7.55									
RA		10	2	85	55	12.223	6.67	12.22	6.5	25.0	2.19	80	306	142	52	20	
RA		11	2	84	81	10.102	6.67	10.10	14.1	55.0	3.92	143	556	255	93	36	
RA		12	1	83	97	4.244	3.33	8.49	11.1	45.0	2.58	94	382	168	61	25	
RA		13	3	85	71	10.849	10.00	14.47	16.7	62.5	6.63	242	904	431	157	59	
RA		14	6	85	99	18.709	20.00	37.42	16.9	67.5	17.40	632	2,526	1,131	411	164	
RA		15	4	85	96	10.865	13.33	21.73	20.5	87.5	12.27	446	1,901	797	290	124	
RA		16	1	87	75	2.387	3.33	4.77	19.4	75.0	2.55	93	358	166	60	23	
RA		17	1	82	21	2.115	3.33	2.11	17.3	30.0	1.01	37	63	66	24	4	
RA		18	2	83	91	3.773	6.67	7.55	29.9	102.5	6.23	226	773	405	147	50	
RA		19	2	84	86	3.386	6.67	6.77	32.5	112.5	6.05	220	762	393	143	50	
RA		20	1	81	74	1.528	3.33	3.06	33.9	100.0	2.85	104	306	185	67	20	
RA		21	1	80	80	1.386	3.33	2.77	39.6	105.0	3.00	110	291	195	71	19	
RA		28	1	80	81	.780	3.33	1.56	73.9	205.0	3.17	115	320	206	75	21	
RA	Totals		28	84	76	89.891	93.33	140.56	18.1	67.2	69.85	2,540	9,447	4,541	1,651	614	
DF		8	1	86	60	9.549	3.33	9.55	6.1	30.0	1.65	58	286	107	38	19	
DF		9	1	86	58	7.545	3.33	7.55	7.8	30.0	1.67	59	226	109	38	15	
DF		12	1	88	109	4.244	3.33	8.49	13.9	60.0	3.35	118	509	218	76	33	
DF		14	2	86	95	6.236	6.67	15.59	13.1	56.0	5.84	205	873	379	133	57	
DF		17	2	82	97	4.229	6.67	10.57	21.6	78.0	6.54	229	825	425	149	54	
DF		18	1	81	82	1.886	3.33	3.77	27.2	90.0	2.93	103	340	190	67	22	
DF		20	2	81	124	3.056	6.67	9.17	29.5	110.0	7.70	270	1,008	500	176	66	
DF		22	1	88	106	1.263	3.33	3.79	32.7	133.3	3.53	124	505	229	80	33	
DF		25	3	86	130	2.934	10.00	8.80	50.9	225.6	12.77	448	1,985	830	291	129	
DF		26	3	86	166	2.712	10.00	8.14	65.1	340.0	15.10	530	2,766	982	344	180	
DF	Totals		17	85	91	43.655	56.67	85.41	25.1	109.2	61.07	2,142	9,324	3,969	1,392	606	
WH		8	1	87	21	9.549	3.33	9.55	3.2	20.0	.99	31	191	64	20	12	
WH		10	1	85	50	6.112	3.33	6.11	8.9	30.0	1.75	55	183	114	35	12	
WH		13	1	88	112	3.616	3.33	7.23	18.4	80.0	4.26	133	579	277	87	38	
WH		15	1	90	108	2.716	3.33	5.43	22.8	105.0	3.97	124	570	258	81	37	
WH		16	5	88	109	11.937	16.67	28.65	23.1	100.0	21.19	662	2,865	1,377	430	186	
WH		17	1	89	117	2.115	3.33	6.34	21.9	96.7	4.44	139	613	289	90	40	
WH		20	2	89	166	3.056	6.67	9.17	39.9	210.0	11.71	366	1,925	761	238	125	
WH		21	1	83	116	1.386	3.33	4.16	34.0	143.3	4.52	141	596	294	92	39	
WH		23	1	86	192	1.155	3.33	3.47	53.3	286.7	5.92	185	994	385	120	65	
WH		24	1	89	121	1.061	3.33	3.18	47.4	220.0	4.82	151	700	314	98	46	
WH	Totals		15	87	88	42.703	50.00	83.29	23.9	110.7	63.58	1,987	9,216	4,133	1,291	599	
DL		14	1	84	82	3.118	3.33	6.24	16.4	55.0	2.81	102	343	182	66	22	
DL		15	1	83	112	2.716	3.33	5.43	22.5	80.0	3.36	122	435	218	79	28	
DL		32	1	80	119	.597	3.33	1.79	76.8	306.7	3.78	137	549	246	89	36	
DL	Totals		3	83	98	6.431	10.00	13.46	26.9	98.6	9.94	362	1,327	646	235	86	
Totals			63	85	83	182.679	210.00	322.73	21.8	90.8	204.44	7030	29,315	13,289	4,569	1,905	

Log Stock Table - MBF
Project: COUGCAMP

T03N R07W S07 TSALE

T03N R07W S07 TSAL

Twp Rge **Sec** **Tract** **Type** **Acres** **Plots** **Sample Trees** **Page** **2**
03N **07W** **07** **AREA_3** **SALE** **156.00** **28** **139** **Date** **9/4/2012**
Time **11:03:56AM**

Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
OH		8	R	8																
OH		8	R	9																
OH		8	R	10																
OH		8	R	11																
OH		8	R	14		3		3	.6			3								
OH		8	R	15		4		4	.8			4								
OH		8	R	16		4		4	1.0			4								
OH		8	R	17		11		11	2.6			11								
OH		8	R	19		8		8	1.9			8								
OH		8	R	25		7		7	1.6			7								
OH		8	R	31		17		17	3.9			17								
OH		8	R	32		117		117	26.6			98	19							
OH		8	R	35		13		13	2.9			13								
OH		8	R	40		254		254	57.5			138	116							
OH		Totals				441		441	11.2			306	135							
DF		8	2	40		233	5.0	221	32.4				26	166	29					
DF		8	3	32		36	5.0	34	4.9			8	26							
DF		8	3	40		351	5.5	332	48.6			22	152	110	48					
DF		8	4	13		2	5.0	2	.3		2									
DF		8	4	14		1	5.0	1	.1		1									
DF		8	4	16		5	5.0	4	.6		4									
DF		8	4	18		2	5.0	1	.2		1									
DF		8	4	19		2	5.0	2	.3		2									
DF		8	4	22		3	5.0	3	.4		3									
DF		8	4	24		12	5.0	11	1.6		11									
DF		8	4	25		3	5.0	3	.4		3									
DF		8	4	26		3	5.0	3	.4		3									
DF		8	4	28		15	5.0	14	2.1		14									
DF		8	4	29		8	5.0	7	1.1		7									
DF		8	4	31		3	5.0	3	.5		3									
DF		8	4	33		14	5.0	13	1.9		13									
DF		8	4	36		6	5.0	6	.9		6									
DF		8	4	40		24	5.0	22	3.3		17	5								
DF		Totals				721	5.2	684	17.3		91	36	178	110	74	166	29			
WH		8	3	20		3	5.0	2	1.0		2									
WH		8	3	32		25	20.8	19	8.4		19									
WH		8	3	40		167	5.7	157	67.6			66	91							
WH		8	4	16		8	5.0	8	3.3		8									
WH		8	4	18		4	5.0	3	1.5		3									
WH		8	4	24		14	5.0	13	5.5		13									
WH		8	4	25		5	5.0	5	2.0		5									
WH		8	4	27		4	5.0	4	1.7		4									
WH		8	4	32		5	5.0	5	2.0		5									
WH		8	4	40		17	5.0	16	7.0		16									
WH		Totals				250	7.0	232	5.9		5	71	66	91						
WL		8	2	40		114	7.3	106	44.2				26	52	29					
WL		8	3	32		34	5.0	33	13.6				17	15						
WL		8	3	40		65	5.0	62	25.9			11	51							

TC TLOGSTVB

Log Stock Table - MBF
Project: COUGCAMP

T03N R07W S07 TSALE

T03N R07W S07 TSAL

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	3
03N	07W	07	AREA_3	SALE	156.00	28	139	Date	9/4/2012
								Time	11:03:56AM

Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches									
										MBF	Def	MBF	Sp	2-3	4-5	6-7	8-9	10-11	12-13
WL		8	4	13		1	5.0	1	.5			1							
WL		8	4	15		4	5.0	3	1.4			3							
WL		8	4	16		2	5.0	2	.8				2						
WL		8	4	22		12	5.0	12	4.9			12							
WL		8	4	24		6	5.0	5	2.2			5							
WL		8	4	39		7	5.0	6	2.7			6							
WL		8	4	40		10	5.0	9	3.8			9							
WL		Totals				255	6.0	240	6.1			37	13	69	26	67	29		
Total All Species						4,185	5.6	3,948	100.0		206	223	1272	808	406	543	443	47	

TC		TSTNDSUM											Stand Table Summary			
Project													COUGCAMP			
T03N R07W S07 TSALE										T03N R07W S07 TSALE						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
03N	07W	07	AREA_3	SALE	156.00	28	139	Date:	09/04/2011							
								Time:	12:43:02PM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DL		11	1	85	82	2.165	1.43	4.33	8.3	40.0	.99	36	173	154	56	27
DL		13	1	86	92	1.550	1.43	3.10	14.1	55.0	1.20	44	170	188	68	27
DL		14	1	86	91	1.336	1.43	2.67	15.7	60.0	1.16	42	160	180	66	25
DL		15	2	85	91	2.328	2.86	4.66	19.7	75.0	2.53	92	349	394	143	54
DL		16	7	85	108	7.162	10.00	17.39	21.4	87.6	10.22	372	1,524	1,594	580	238
DL		17	2	87	113	1.813	2.86	5.44	20.6	86.7	3.08	112	471	481	175	74
DL		18	3	87	115	2.425	4.29	7.28	23.4	95.6	4.68	170	695	731	266	108
DL		19	4	85	115	2.902	5.71	7.98	28.7	108.2	6.30	229	863	983	357	135
DL		20	2	88	118	1.310	2.86	3.93	30.9	130.0	3.34	121	511	520	189	80
DL		21	7	86	114	4.158	10.00	11.28	35.5	142.1	11.03	401	1,604	1,720	625	250
DL		22	6	87	119	3.247	8.57	9.20	38.9	170.6	9.84	358	1,569	1,535	558	245
DL		23	2	82	118	.990	2.86	2.97	38.7	148.3	3.16	115	441	493	179	69
DL		24	2	84	116	.909	2.86	2.27	51.0	196.0	3.19	116	446	498	181	70
DL		25	3	86	126	1.257	4.29	3.77	50.6	220.0	5.25	191	830	819	298	129
DL		26	4	85	114	1.550	5.71	4.26	54.9	230.9	6.43	234	984	1,003	365	154
DL		27	3	84	120	1.078	4.29	2.87	56.3	253.7	4.45	162	729	695	253	114
DL		29	1	88	137	.311	1.43	.93	71.8	350.0	1.85	67	327	288	105	51
DL		30	1	79	132	.291	1.43	.87	72.2	293.3	1.73	63	256	270	98	40
DL		Totals	52	86	109	36.782	74.29	95.22	30.7	127.1	80.43	2,925	12,104	12,547	4,562	1,888
DF		9	1	83	50	3.234	1.43	3.23	6.8	30.0	.63	22	97	98	34	15
DF		11	1	88	122	2.165	1.43	4.33	11.5	55.0	1.41	50	238	221	77	37
DF		13	1	89	122	1.550	1.43	3.10	18.1	80.0	1.59	56	248	249	87	39
DF		14	2	88	99	2.673	2.86	5.35	18.3	77.5	2.78	98	414	434	152	65
DF		15	2	85	91	2.328	2.86	4.66	18.9	72.5	2.51	88	338	392	137	53
DF		16	1	89	99	1.023	1.43	2.05	23.9	95.0	1.39	49	194	217	76	30
DF		17	3	87	102	2.719	4.29	7.25	21.8	88.7	4.50	158	643	702	246	100
DF		19	2	82	103	1.451	2.86	3.63	29.2	106.0	3.02	106	385	472	165	60
DF		20	1	89	130	.655	1.43	1.96	32.7	146.7	1.83	64	288	286	100	45
DF		21	4	88	116	2.376	5.71	6.53	35.5	147.3	6.61	232	962	1,030	362	150
DF		22	1	88	117	.541	1.43	1.62	36.9	166.7	1.71	60	271	266	93	42
DF		23	2	87	120	.990	2.86	2.97	41.3	180.0	3.49	123	535	545	191	83
DF		Totals	21	87	100	21.704	30.00	46.68	23.7	98.8	31.48	1,104	4,613	4,911	1,723	720
RA		9	1	81	26	3.234	1.43	3.23								
RA		11	6	84	79	12.988	8.57	19.48	9.1	34.4	4.87	177	671	759	277	105
RA		12	6	84	95	10.913	8.57	21.83	10.7	40.8	6.41	234	891	1,000	365	139
RA		13	5	85	91	7.749	7.14	13.95	15.3	62.2	5.88	214	868	917	333	135
RA		14	3	84	87	4.009	4.29	8.02	14.1	55.0	3.11	113	441	485	176	69
RA		15	2	85	76	2.328	2.86	4.66	16.9	65.0	2.16	79	303	337	123	47
RA		17	2	84	83	1.813	2.86	3.63	24.3	85.0	2.42	88	308	378	137	48
RA		18	1	83	93	.808	1.43	1.62	30.1	110.0	1.34	49	178	209	76	28
RA		20	1	86	93	.655	1.43	1.31	39.9	145.0	1.44	52	190	224	82	30
RA		23	1	79	74	.495	1.43	.99	45.6	125.0	1.24	45	124	194	70	19
RA		Totals	28	84	82	44.993	40.00	78.71	13.4	50.5	28.87	1,051	3,974	4,504	1,639	620
OH		10	1	81	74	2.619	1.43	2.62								
OH		12	6	84	81	10.913	8.57	14.55	14.2	53.7	5.65	206	782	881	321	122
OH		13	1	86	123	1.550	1.43	3.10	17.0	75.0	1.45	53	232	226	82	36
OH		14	3	87	62	4.009	4.29	6.68	13.3	50.0	2.44	89	334	381	139	52
OH		15	2	86	86	2.328	2.86	4.66	17.4	65.0	2.23	81	303	347	126	47
OH		16	3	84	58	3.069	4.29	4.09	23.3	72.5	2.62	95	297	409	149	46
OH		17	4	84	91	3.625	5.71	7.25	25.7	98.8	5.13	186	716	800	291	112

TC		TSTNDSUM		Stand Table Summary													
Project														COUGCAMP			
T03N R07W S07 TSALE										T03N R07W S07 TSALE							
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:	2					
03N	07W	07	AREA_3		SALE	156.00	28	139			Date:	09/04/2011					
											Time:	12:43:02PM					
Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals				
		DBH	Trees	FF				Ht	16'		Tot	Net	Net	Cu.Ft.	Bd.Ft.	Tons	Cunits
OH		18	1	86	79	.808	1.43	1.62	27.8	100.0	1.24	45	162	193	70	25	
OH		Totals		21	84	79	28.923	30.00	44.57	16.9	63.4	20.75	755	2,826	3,237	1,178	441
WL		10	1	83	35	2.619	1.43	2.62	7.0	30.0	.59	18	79	92	29	12	
WL		16	1	89	109	1.023	1.43	2.05	27.4	120.0	1.80	56	246	280	88	38	
WL		17	1	87	90	.906	1.43	1.81	27.9	110.0	1.62	51	199	253	79	31	
WL		19	1	92	101	.726	1.43	1.45	37.8	150.0	1.75	55	218	274	86	34	
WL		21	1	83	122	.594	1.43	1.78	34.7	133.3	1.99	62	238	310	96	37	
WL		22	1	90	108	.541	1.43	1.62	35.5	166.7	1.85	58	271	288	90	42	
WL		24	1	79	64	.455	1.43	.91	41.5	130.0	1.21	38	118	188	59	18	
WL		25	1	86	104	.419	1.43	1.26	46.2	200.0	1.86	58	251	290	91	39	
WL		Totals		8	86	77	7.283	11.43	13.50	29.3	119.9	12.66	395	1,619	1,974	617	253
WH		10	1	88	100	2.619	1.43	5.24	8.4	35.0	1.40	44	183	219	68	29	
WH		12	1	91	62	1.819	1.43	1.82	17.1	60.0	1.00	31	109	156	49	17	
WH		13	1	89	100	1.550	1.43	3.10	16.1	75.0	1.60	50	232	249	78	36	
WH		14	1	80	104	1.336	1.43	2.67	17.5	60.0	1.49	47	160	233	73	25	
WH		15	1	88	82	1.164	1.43	2.33	19.6	70.0	1.46	46	163	227	71	25	
WH		16	2	89	91	2.046	2.86	4.09	24.6	97.5	3.23	101	399	504	157	62	
WH		17	1	87	90	.906	1.43	1.81	28.1	105.0	1.63	51	190	255	80	30	
WH		18	1	79	82	.808	1.43	1.62	28.7	80.0	1.49	46	129	233	72	20	
WH		Totals		9	87	90	12.249	12.86	22.68	18.3	69.1	13.30	415	1,567	2,074	648	244
Totals				139	85	91	151.935	198.57	301.36	22.1	88.6	187.48	6645	26,702	29,247	10,367	4,166

Log Stock Table - MBF
Project: COUGCAMP

T03N R07W S07 TSALE

T03N R07W S07 TSAL

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 03N 07W 07 AREA_4 SALE 86.00 15 74 Date 9/4/2012
 Time 11:07:12AM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches										
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
RA		8	R																	
RA		8	R	5																
RA		8	R	7																
RA		8	R	9																
RA		8	R	10																
RA		8	R	11																
RA		8	R	12		17	10.0	15	2.0										15	
RA		8	R	13		5	10.0	4	.6										4	
RA		8	R	14		3	10.0	3	.4										3	
RA		8	R	15		12	10.0	11	1.5										11	
RA		8	R	16		4	10.0	4	.5										4	
RA		8	R	17		5	10.0	4	.6										4	
RA		8	R	18		4	10.0	4	.5										4	
RA		8	R	19		7	10.0	6	.8										6	
RA		8	R	20		12	10.0	10	1.4										10	
RA		8	R	21		12	10.0	11	1.4										11	
RA		8	R	23		21	10.0	19	2.5										19	
RA		8	R	24		3	10.0	2	.3										2	
RA		8	R	25		6	10.0	6	.8										6	
RA		8	R	30		18	10.0	16	2.1										16	
RA		8	R	32		103	10.0	93	12.6					18					75	
RA		8	R	39		26	10.0	24	3.2										24	
RA		8	R	40		573	11.8	506	68.7					230	213	23	40			
RA		Totals					830	11.2	736	34.1					443	231	23	40		
DF		8	2	40		523	5.0	497	41.1						120	257	120			
DF		8	3	12		13	5.0	12	1.0							12				
DF		8	3	32		74	5.0	71	5.9			14	46	11						
DF		8	3	40		532	5.4	503	41.6					229	172	102				
DF		8	4	15		10	5.0	10	.8			10								
DF		8	4	17		2	5.0	2	.1			2								
DF		8	4	18		11	5.0	10	.8			10								
DF		8	4	19		6	5.0	6	.5			5	1							
DF		8	4	20		2	5.0	2	.1			2								
DF		8	4	21		4	5.0	4	.3			4								
DF		8	4	22		2	5.0	2	.1			2								
DF		8	4	23		5	5.0	5	.4			5								
DF		8	4	24		6	5.0	6	.5			6								
DF		8	4	25		5	5.0	5	.4			5								
DF		8	4	27		12	5.0	12	1.0			12								
DF		8	4	28		2	5.0	2	.2			2								
DF		8	4	30		6	5.0	6	.5			6								
DF		8	4	32		11	5.0	11	.9			11								
DF		8	4	35		9	5.0	8	.7			8								
DF		8	4	40		40	5.0	38	3.1			15			7	15				
DF		Totals					1,274	5.2	1,208	55.9			100	25	275	198	221	257	132	
WH		8	3	32		26	5.0	25	12.9			25								
WH		8	3	40		118	5.0	112	58.6			14		49	49					
WH		8	4	16		10	5.0	10	5.2			10								
WH		8	4	20		8	5.0	8	4.1			8								
WH		8	4	21		5	5.0	5	2.5			5								

TC TLOGSTVB

Log Stock Table - MBF
Project: COUGCAMP

T03N R07W S07 TSALE

T03N R07W S07 TSAL

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2
03N	07W	07	AREA_4	SALE	86.00	15	74	Date	9/4/2012
								Time	11:07:12AM

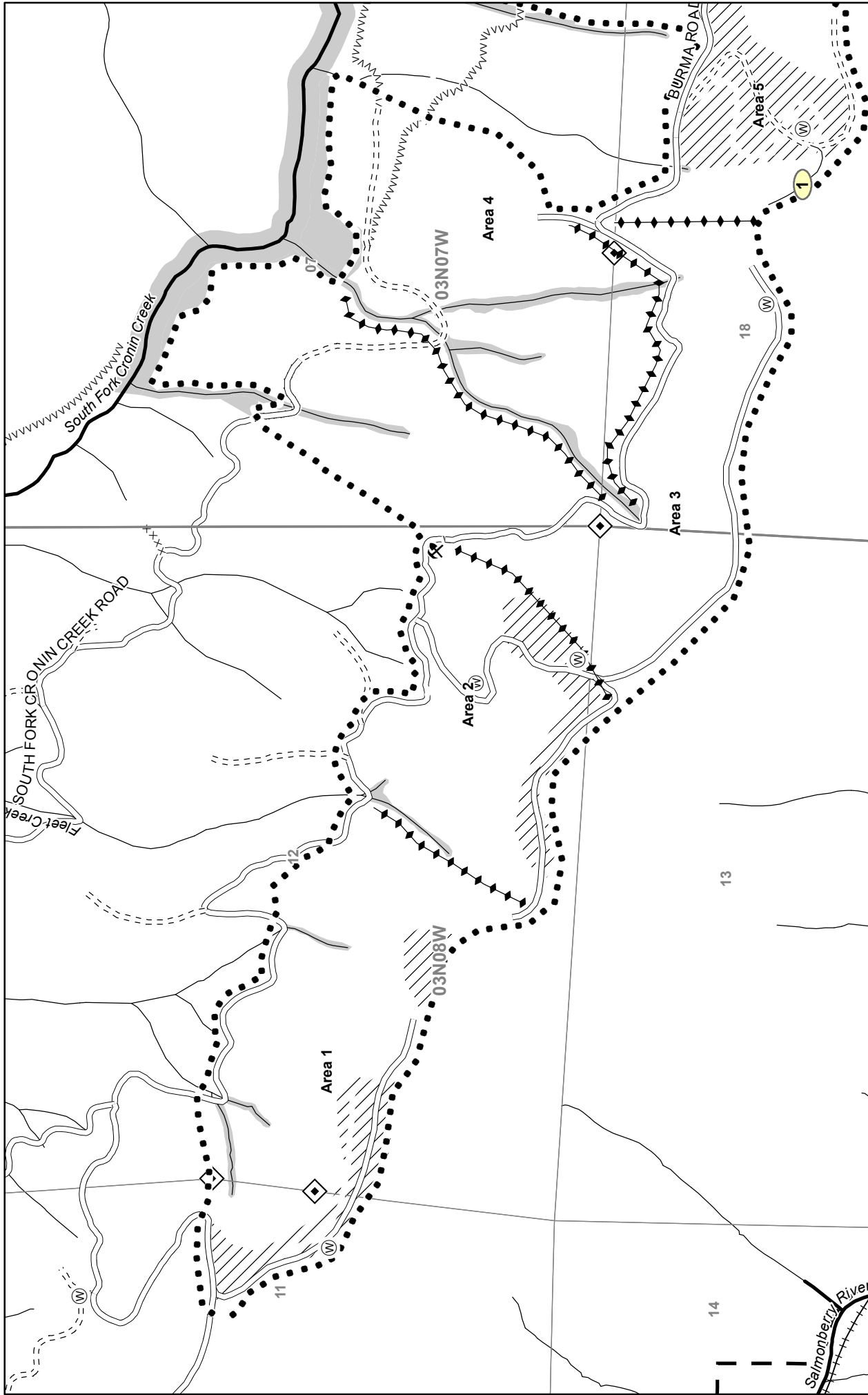
Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches									
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13
WH		8	4	28		4	5.0	4	2.2			4							
WH		8	4	29		3	5.0	3	1.7		3								
WH		8	4	40		26	5.0	24	12.8			24							
WH		Totals				201	5.0	191	8.8		3	82	8	49	49				
DL		8	3	40		22	5.0	21	80.0			21							
DL		8	4	26		6	5.0	5	20.0		5								
DL		Totals				28	5.0	27	1.2		5	21							
Total All Species						2,332	7.3	2,162	100.0		109	107	747	478	293	296	132		

TC		Stand Table Summary														
TSTNDSUM		Project											COUGCAMP			
T03N R07W S07 TSALE											T03N R07W S07 TSALE					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
03N	07W	07	AREA_4	SALE	86.00	15	74	Date:	09/04/2011							
								Time:	12:47:46PM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF				Ht 16'	Tot				Net Cu.Ft.	Net Bd.Ft.	Tons	Cunits
DF		13	3	86	102	8.679	8.00	20.25	13.9	60.0	8.00	281	1,215	688	241	104
DF		14	2	87	97	4.989	5.33	9.98	17.9	77.5	5.09	179	773	438	154	67
DF		15	2	84	99	4.346	5.33	8.69	20.5	75.0	5.08	178	652	437	153	56
DF		16	2	88	111	3.820	5.33	9.55	21.5	92.0	5.84	205	879	502	176	76
DF		17	1	90	118	1.692	2.67	5.08	22.1	96.7	3.20	112	491	275	97	42
DF		18	5	87	116	7.545	13.33	19.62	27.6	111.5	15.42	541	2,188	1,326	465	188
DF		19	2	87	105	2.709	5.33	6.77	28.8	112.0	5.56	195	758	478	168	65
DF		20	4	86	108	4.889	10.67	12.22	32.1	128.0	11.17	392	1,565	961	337	135
DF		21	4	88	125	4.435	10.67	13.30	35.2	155.8	13.35	468	2,073	1,148	403	178
DF		22	3	88	120	3.031	8.00	9.09	37.6	167.8	9.73	341	1,525	837	294	131
DF		23	3	87	128	2.773	8.00	8.32	44.0	194.4	10.43	366	1,617	897	315	139
DF		24	2	88	128	1.698	5.33	5.09	46.2	206.7	6.71	236	1,053	577	203	91
DF	Totals		33	87	111	50.604	88.00	127.97	27.3	115.6	99.58	3,494	14,789	8,564	3,005	1,272
RA		9	1	82	64	6.036	2.67	6.04								
RA		10	2	83	74	9.778	5.33	9.78	6.0	20.0	1.62	59	196	140	51	17
RA		12	8	84	90	27.162	21.33	50.93	10.8	41.3	15.09	549	2,105	1,298	473	181
RA		13	4	87	97	11.572	10.67	23.14	14.2	61.2	9.03	328	1,418	777	282	122
RA		14	2	84	101	4.989	5.33	9.98	16.6	62.5	4.56	166	624	392	143	54
RA		15	3	83	97	6.519	8.00	13.04	19.7	75.0	7.08	257	978	609	221	84
RA		16	6	84	93	11.459	16.00	22.92	23.1	89.2	14.53	529	2,044	1,250	455	176
RA		17	1	88	80	1.692	2.67	3.38	26.0	95.0	2.41	88	321	207	76	28
RA		18	4	82	90	6.036	10.67	12.07	30.5	103.8	10.11	368	1,252	869	317	108
RA		24	1	79	78	.849	2.67	1.70	51.9	165.0	2.42	88	280	208	76	24
RA		25	1	80	83	.782	2.67	1.56	58.5	190.0	2.52	91	297	217	79	26
RA	Totals		33	84	88	86.875	88.00	154.54	16.3	61.6	69.38	2,524	9,515	5,967	2,171	818
WH		9	1	84	100	6.036	2.67	12.07	6.7	35.0	2.58	81	423	222	69	36
WH		12	1	88	59	3.395	2.67	3.40	17.1	60.0	1.86	58	204	160	50	18
WH		14	1	92	62	2.495	2.67	2.49	23.8	70.0	1.90	59	175	163	51	15
WH		16	1	88	115	1.910	2.67	5.73	19.6	86.7	3.60	112	497	309	97	43
WH		17	1	82	95	1.692	2.67	3.38	26.4	90.0	2.86	89	305	246	77	26
WH		19	2	88	96	2.709	5.33	5.42	37.5	135.0	6.50	203	731	559	175	63
WH	Totals		7	87	88	18.236	18.67	32.49	18.6	71.8	19.30	603	2,333	1,659	519	201
DL		15	1	82	92	2.173	2.67	4.35	20.4	75.0	2.44	89	326	210	76	28
DL	Totals		1	82	92	2.173	2.67	4.35	20.4	75.0	2.44	89	326	210	76	28
Totals			74	85	95	157.889	197.33	319.34	21.0	84.4	190.70	6710	26,963	16,400	5,771	2,319

TC		TLOGSTVB		Log Stock Table - MBF																
Project:										COUGCAMP										
T03N R07W S07 TSALE										T03N R07W S07 TSAL										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	3											
03N	07W	07	AREA_5	SALE	412.00	66	369	Date	9/4/2012											
									Time	11:11:25AM										
Spp	T	S	So	Gr	Log	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
WH		8	4		33	51	5.0	49	4.4			49								
WH		8	4		34	28	5.0	27	2.4			27								
WH		8	4		40	106	5.0	101	9.1			101								
WH		Totals				1,169	5.0	1,111	8.4			349	331	214	217					
RA		8		R																
RA		8		R	5															
RA		8		R	7															
RA		8		R	11															
RA		8		R	12	5	10.0	5	.8			5								
RA		8		R	14	2	10.0	2	.3			2								
RA		8		R	15	14	10.0	12	2.2			12								
RA		8		R	19	5	10.0	4	.7			4								
RA		8		R	20	18	10.0	16	2.8			16								
RA		8		R	21	5	10.0	5	.8			5								
RA		8		R	22	15	10.0	14	2.4			14								
RA		8		R	23	20	10.0	18	3.2			18								
RA		8		R	25	19	10.0	17	3.0			17								
RA		8		R	32	123	10.0	111	19.3			92	19							
RA		8		R	37	30	10.0	27	4.7			27								
RA		8		R	40	396	13.0	344	59.9			221	37	86						
RA		Totals				652	11.8	575	4.3			433	56	86						
OH		8	4		13	4		4	.8			4								
OH		8	4		24	6		6	1.2			6								
OH		8		R																
OH		8		R	7															
OH		8		R	12	4		4	.7			4								
OH		8		R	14	3		3	.6			3								
OH		8		R	15	3		3	.6			3								
OH		8		R	16	10		10	1.9			10								
OH		8		R	20	27		27	5.5			27								
OH		8		R	21	6		6	1.2			6								
OH		8		R	23	6		6	1.3			6								
OH		8		R	24	11		11	2.2			11								
OH		8		R	39	29		29	5.8			29								
OH		8		R	40	394	2.9	383	78.2			120	240	23						
OH		Totals				501	2.3	490	3.7			227	240	23						
SF		8	2		40	192		192	85.1				18	92	82					
SF		8	3		26	3		3	1.1			3								
SF		8	3		40	28		28	12.5			14	14							
SF		8	4		13	1		1	.4											
SF		8	4		18	2		2	.8			2								
SF		Totals				226		226	1.7			3	17	14	18	92	82			
Total All Species						14,010	5.6	13,231	100.0			821	1393	3002	2941	2454	1362	1138	120	

TC		Stand Table Summary														
TSTNDSUM		Project											COUGCAMP			
T03N R07W S07 TSALE											T03N R07W S07 TSALE					
Twp	Rge	Sec	Tract		Type			Acres	Plots	Sample Trees			Page:	1		
03N	07W	07	AREA_5		SALE			412.00	66	369			Date:	09/04/2011		
												Time:		12:53:31PM		
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DL		10	1	88	97	1.111	.61	2.22	7.5	35.0	.46	17	78	190	69	32
DL		11	1	87	82	.918	.61	1.84	8.4	40.0	.43	15	73	175	64	30
DL		12	1	86	88	.826	.61	1.65	10.8	45.0	.49	18	74	202	73	31
DL		13	5	88	96	3.288	3.03	6.58	14.6	58.0	2.63	96	381	1,086	395	157
DL		14	4	84	106	2.237	2.42	4.47	18.3	69.9	2.25	82	313	929	338	129
DL		15	5	88	106	2.469	3.03	6.42	17.4	73.8	3.08	112	474	1,269	461	195
DL		16	16	86	104	6.945	9.70	17.36	20.1	83.0	9.62	350	1,441	3,962	1,441	594
DL		17	20	87	114	7.677	12.12	21.51	22.2	91.6	13.15	478	1,970	5,417	1,969	812
DL		18	16	87	117	5.491	9.70	15.10	26.1	105.4	10.83	394	1,592	4,462	1,622	656
DL		19	20	86	117	6.163	12.12	17.87	27.5	109.1	13.53	492	1,950	5,573	2,026	803
DL		20	20	87	118	5.553	12.12	16.38	30.7	128.0	13.82	503	2,096	5,694	2,071	864
DL		21	15	88	119	3.782	9.09	11.35	33.3	142.2	10.40	378	1,614	4,287	1,559	665
DL		22	9	85	122	2.060	5.45	5.72	39.5	158.7	6.22	226	908	2,561	931	374
DL		23	12	85	115	2.508	7.27	6.89	42.8	177.9	8.12	295	1,227	3,345	1,216	505
DL		24	8	86	117	1.548	4.85	4.25	47.4	203.1	5.54	202	864	2,284	830	356
DL		25	8	85	120	1.414	4.85	4.24	48.8	207.4	5.69	207	880	2,346	853	362
DL		26	7	84	120	1.151	4.24	3.29	53.3	209.5	4.82	175	689	1,985	722	284
DL		27	2	84	122	.305	1.21	.91	57.1	245.0	1.44	52	224	592	215	92
DL		28	2	82	117	.288	1.21	.86	56.3	236.2	1.34	49	204	550	200	84
DL		29	1	87	115	.133	.61	.40	58.8	260.0	.65	23	104	266	97	43
DL		Totals	173	86	112	55.867	104.85	149.32	27.9	114.9	114.50	4,163	17,155	47,173	17,151	7,068
DF		10	3	87	118	3.334	1.82	6.67	9.1	45.0	1.73	61	300	713	250	124
DF		11	6	86	84	5.510	3.64	10.10	9.8	41.8	2.83	99	422	1,167	409	174
DF		12	2	86	113	1.543	1.21	3.86	11.2	48.0	1.23	43	185	507	178	76
DF		13	14	86	108	9.205	8.48	20.38	14.7	61.9	8.52	299	1,262	3,510	1,231	520
DF		14	11	87	101	6.213	6.67	12.99	17.6	73.1	6.51	228	949	2,682	941	391
DF		15	8	87	110	3.932	4.85	9.35	19.6	82.1	5.22	183	767	2,152	755	316
DF		16	14	87	110	6.088	8.48	14.78	21.9	92.0	9.24	324	1,360	3,806	1,336	560
DF		17	5	88	108	1.933	3.03	4.63	23.9	100.9	3.16	111	468	1,302	457	193
DF		18	4	86	113	1.372	2.42	3.43	27.6	102.0	2.70	95	350	1,111	390	144
DF		19	5	85	108	1.539	3.03	3.69	31.1	112.5	3.28	115	416	1,352	474	171
DF		20	3	85	121	.839	1.82	2.23	32.9	131.2	2.09	73	293	863	303	121
DF		21	1	88	107	.252	.61	.76	31.1	130.0	.67	23	98	276	97	40
DF		Totals	76	87	105	41.759	46.06	92.88	17.8	74.0	47.19	1,655	6,871	19,440	6,820	2,831
WL		11	1	87	95	.918	.61	1.84	10.5	45.0	.62	19	83	255	80	34
WL		12	4	88	85	3.087	2.42	5.40	13.2	54.3	2.28	71	293	939	294	121
WL		14	1	88	91	.567	.61	1.13	18.5	75.0	.67	21	85	276	86	35
WL		15	4	88	104	1.996	2.42	3.99	22.8	98.7	2.91	91	394	1,200	375	162
WL		16	5	89	111	2.170	3.03	4.77	25.4	110.9	3.88	121	530	1,600	500	218
WL		17	4	88	121	1.538	2.42	4.61	22.6	98.3	3.34	104	454	1,377	430	187
WL		19	7	88	108	2.172	4.24	4.96	34.3	137.0	5.44	170	679	2,240	700	280
WL		20	2	87	108	.556	1.21	1.39	35.1	144.0	1.56	49	200	643	201	82
WL		21	2	88	124	.504	1.21	1.51	36.8	170.0	1.79	56	257	736	230	106
WL		22	2	87	118	.459	1.21	1.38	38.4	166.7	1.69	53	230	697	218	95
WL		23	1	84	111	.210	.61	.63	38.8	150.0	.78	24	95	323	101	39
WL		24	2	84	117	.386	1.21	1.16	46.2	178.3	1.71	54	206	706	220	85
WL		27	1	89	126	.152	.61	.46	64.2	303.3	.94	29	139	388	121	57
WL		Totals	36	88	104	14.715	21.82	33.24	26.0	109.6	27.62	863	3,644	11,379	3,555	1,501
WH		8	1	85	60	1.575	.61	1.57	8.2	40.0	.41	13	63	170	53	26
WH		9	3	87	61	4.116	1.82	4.12	9.1	40.0	1.18	38	165	488	155	68

TC		TSTNDSUM		Stand Table Summary												
Project														COUGCAMP		
T03N R07W S07 TSALE										T03N R07W S07 TSALE						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	2		Date:	09/04/2011				
03N	07W	07	AREA_5	SALE	412.00	66	369	Time:	12:53:31PM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
WH		11	2	87	102	1.837	1.21	2.76	13.9	60.0	1.23	38	165	506	158	68
WH		12	7	86	75	5.402	4.24	8.49	13.2	50.9	3.59	112	432	1,478	463	178
WH		13	6	89	90	3.945	3.64	7.23	16.2	69.1	3.75	117	500	1,543	482	206
WH		14	2	90	116	1.134	1.21	2.83	17.7	82.0	1.61	50	232	663	207	96
WH		15	3	89	112	1.482	1.82	2.96	24.4	108.3	2.32	72	321	954	298	132
WH		16	2	90	123	.868	1.21	2.60	20.4	95.0	1.70	53	247	701	219	102
WH		17	6	89	104	2.331	3.64	5.43	26.3	109.1	4.57	143	592	1,884	589	244
WH		18	1	90	124	.343	.61	1.03	26.3	116.7	.87	27	120	357	112	49
WH	Totals		33	88	86	23.031	20.00	39.03	17.0	72.7	21.22	664	2,838	8,744	2,736	1,169
RA		9	1	79	56	1.372	.61	1.37								
RA		10	3	83	86	3.290	1.82	4.36	3.9	14.9	.47	17	65	193	70	27
RA		11	6	85	87	5.510	3.64	8.27	10.0	41.1	2.28	83	340	940	342	140
RA		12	6	85	93	4.605	3.64	9.21	10.2	40.0	2.59	94	369	1,066	389	152
RA		13	4	86	96	2.620	2.42	5.24	13.5	48.8	1.95	70	256	804	290	105
RA		14	1	90	95	.567	.61	1.13	18.0	65.0	.56	20	74	232	84	30
RA		17	1	79	81	.384	.61	.77	23.0	70.0	.49	18	54	201	73	22
RA		18	2	83	86	.710	1.21	1.42	27.8	101.8	1.09	39	144	447	163	60
RA		19	2	83	89	.616	1.21	1.23	33.9	107.5	1.15	42	132	472	172	55
RA		20	1	80	83	.278	.61	.56	37.3	120.0	.57	21	67	235	85	27
RA		22	1	83	72	.230	.61	.46	38.2	110.0	.48	18	51	199	72	21
RA	Totals		28	84	87	20.181	16.97	34.01	12.4	45.6	11.62	422	1,550	4,789	1,740	639
OH		12	1	84	101	.772	.61	1.54	11.1	45.0	.47	17	69	193	70	29
OH		13	3	84	55	1.973	1.82	3.29	10.3	34.0	.94	34	112	387	139	46
OH		14	2	88	81	1.134	1.21	2.27	13.9	52.5	.87	32	119	357	130	49
OH		15	3	87	85	1.482	1.82	2.96	18.4	70.0	1.51	55	207	623	225	85
OH		16	1	84	84	.434	.61	.87	22.1	85.0	.53	19	74	217	79	30
OH		17	2	85	89	.769	1.21	1.54	25.5	95.0	1.07	39	146	442	162	60
OH		18	5	83	90	1.715	3.03	3.43	29.2	98.0	2.74	100	336	1,129	413	138
OH		20	2	81	82	.556	1.21	1.11	35.0	112.5	1.07	39	125	441	160	52
OH	Totals		19	85	80	8.833	11.52	17.01	19.7	69.9	9.20	335	1,189	3,791	1,378	490
SF		22	1	93	118	.230	.61	.69	40.3	190.0	.80	28	131	328	114	54
SF		23	1	89	112	.210	.61	.63	40.4	176.7	.73	25	111	301	105	46
SF		30	1	90	132	.123	.61	.37	80.8	416.7	.86	30	154	353	123	64
SF		33	1	84	149	.102	.61	.31	103.8	496.7	.91	32	152	375	131	63
SF	Totals		4	90	123	.665	2.42	2.00	57.6	274.9	3.29	115	549	1,357	474	226
Totals			369	86	101	165.051	223.64	367.48	22.4	92.0	234.64	8217	33,795	96,673	33,855	13,924



LOGGING PLAN
 Timber Sale Contract No. 341-13-067
 COUGAR CAMP
 Portions of Sections 7, 8, 17, and 18,
 T3N, R7W, and Sections 11, 12, and 13,
 T3N, R8W, W.M.,
 Tillamook County, Oregon

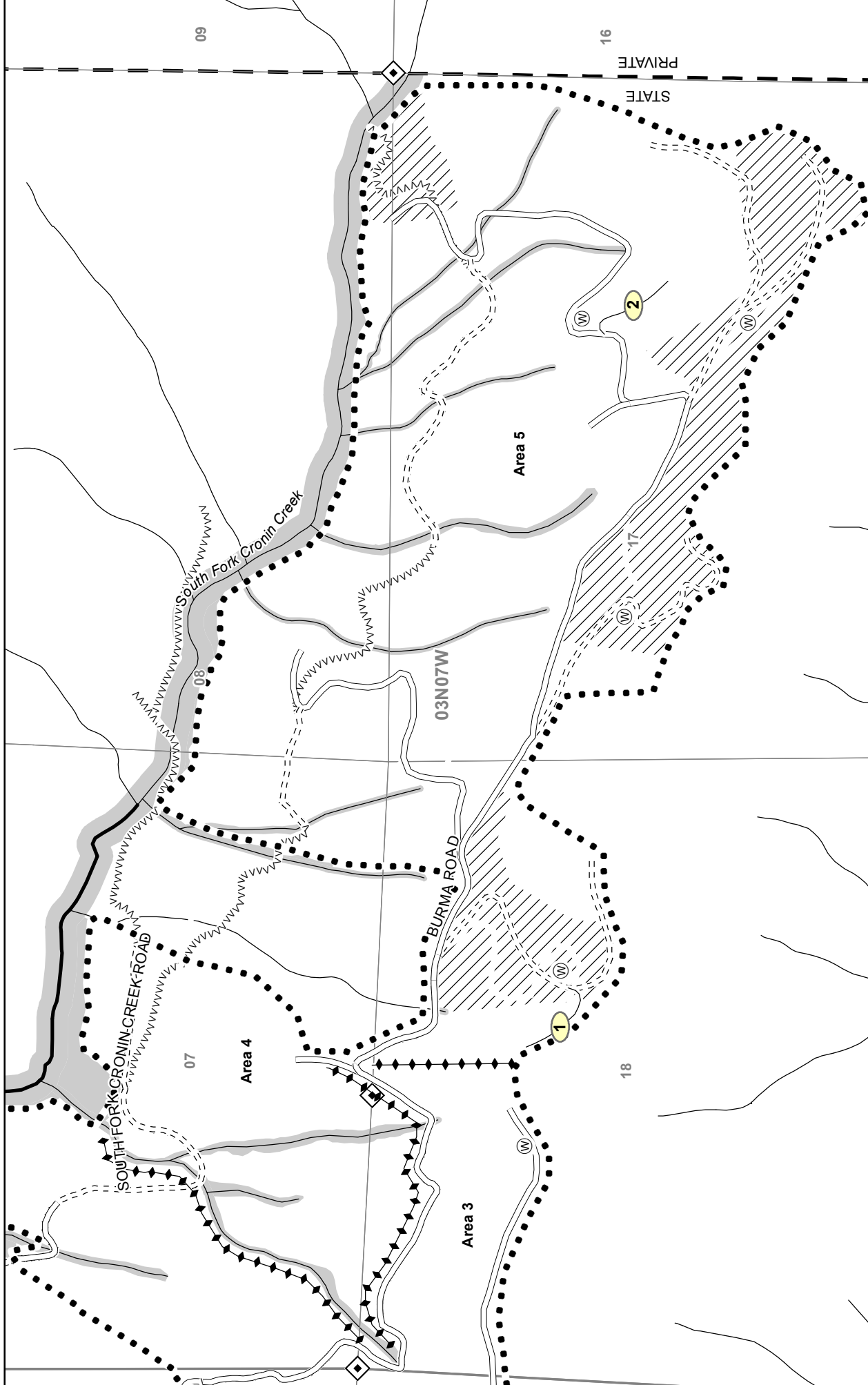
1,000 0 1,000 Feet

Tillamook District GIS
 10-03-2012
 This product is for informational use and may
 not have been prepared or suitable for
 legal, engineering, or surveying purposes.

Type of		Acres	
Area	Operation	Gross	Net
1	Partial cut	102	98
2	Modified clearcut	68	65
3	Partial cut	171	156
4	Modified clearcut	99	86
5	Partial cut	442	412
Total		883	818

Legend:

- 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
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1,000 0 1,000 Feet

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1	Partial cut	102	98
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5	Partial cut	442	412
Total		883	818

Legend:

- Rock source: (S)
- Stock pile: (P)
- Waste area: (W)
- Bridge: (B)
- Gate: (G)
- Survey corner: (C)
- Domestic water supply intake: (D)
- Truck turn-around: (T)
- Helicopter landing zone: (H)
- Cultural site: (C)
- Landing: (O)
- Buffer: (Shaded)
- Non-required thinning: (Diagonal lines)
- Cable yarding: (Horizontal lines)
- Ground yarding: (Vertical lines)
- Helicopter yarding: (Stippled)
- Downhill yarding: (Cross-hatched)
- Green tree retention area: (Checkered)
- Restricted area: (Hatched)
- Area boundary: (Dashed line)
- Sale boundary: (Dotted line)
- Ownership boundary: (Solid line)
- Perennial Type-F stream: (Wavy line)
- Perennial Type-N stream: (Dashed wavy line)
- Unsurfaced road: (Dashed line)
- Surfaced road: (Solid line)
- Paved road: (Thick solid line)
- Abandoned road: (Thin solid line)
- Swing road: (Dashed line with 'A')
- Non-project road: (Dotted line with '2')
- Blocked road: (X's)
- OHV trail: (Wavy line)
- Non-motorized trail: (Dotted line)
- Transmission line: (Line with 'T')
- Railroad: (Line with cross-ticks)