



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Doghouse

Sale TL-341-2018-56-

District: Tillamook

Date: November 14, 2017

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$4,331,009.20	\$162,665.11	\$4,493,674.31
		Project Work:	(\$368,860.00)
		Advertised Value:	\$4,124,814.31



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Timber Description

Location: Portions of Sections 5, 8, 9 10, 15, 16, 21 and 22, T2S, R7W, W.M. Tillamook County, Oregon

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	95
Alder (Red)	17	0	90

Volume by Grade	2S	3S	4S	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	4,939	4,477	1,692	0	0	0	0	11,108
Alder (Red)	0	0	0	45	120	133	135	433
Total	4,939	4,477	1,692	45	120	133	135	11,541

Comments: Pond Values Used: September 2017

Western Red Cedar and Other Cedars Stumpage Price = Pond Value – Logging Cost
 $\$1,520/\text{MBF} - \$375/\text{MBF} = \$1,145/\text{MBF}$

Western hemlock and Other Conifers Stumpage Price = Pond Value – Logging Cost
 $\$619/\text{MBF} - \$375/\text{MBF} = \$244/\text{MBF}$

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

SCALING COST ALLOWANCE = \$ 5.00/ MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/ Gallon

HAULING COST ALLOWANCE

Hauling cost equivalent to \$780 daily truck cost

Other Costs with Profit and Risk to be added:

Snag Creation Areas 1, 2, 3, 4, 5 and 6: 1,128 snags at \$10/tree = \$11,820

TOTAL Other Costs with profit and Risk to be added = \$11,820

Other Costs with No Profit and Risk Added:

Machine Cleaning: \$1,000/machine x 3 = \$3,000

Heliport Construction: 8 hours machine time @ \$140/ hour = \$1,120

Slash piling and sorting (Cable Ground): \$5/ac x 395 ac = \$1,975

Block unsurfaced roads (Three Non-Project roads) with tank traps: 3 each x \$50 each = \$150

Non-project road #1 construction: 6.6 stations x \$250/station = \$1,650

Non-project road #2 construction: 3.8 stations x \$250/station = \$950

Non-project road #3 construction: 7.1 stations x \$250/station = \$1,775

Approach Rock (pit run) spurs: 100 cy/spur x \$6.00/cy x 3 spurs = \$1,800

Ditch Cleaning and Bank Sluff Removal:

Mobilization: two times– dump truck w/ tilt bed & small excavator: \$890 x 2 = \$1,780

Small excavator (Cat 312 or equivalent): 40 hrs. @ \$95/hr = \$3,800

Dump truck: 40 hrs. @ \$70/hr = \$2,800

TOTAL Other Costs no Profit and Risk added = \$20,800

ROAD MAINTENANCE:

Spot rocking: 20cy/mmmbf/mile x 11.6 MMBF x \$12.00/cy x 8.5 miles/ 11541MBF = \$2.05/ MBF

Interim Grading: \$400/mile x 8.5 miles x 5 time / 11541 MBF= \$1.47/MBF

Final Maintenance Grading: \$800 x 8.5 miles/11,541 MBF = \$0.59/ MBF

Final Maintenance Compaction: \$950/mile x 4.0 miles/11541 MBF = \$0.33/MBF

Total Road Maintenance: \$4.44/ MBF



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Logging Conditions

Combination#:	1	Douglas - Fir Alder (Red)	26.62% 15.70%
Logging System:	Cable: Large Tower >=70		Process: Stroke Delimber
yarding distance:	Long (1,500 ft)		downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	5.5		bd. ft / load: 3500
cost / mbf:	\$322.08		
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Large)		
Combination#:	2	Douglas - Fir Alder (Red)	38.48% 36.32%
Logging System:	Cable: Large Tower >=70		Process: Stroke Delimber
yarding distance:	Medium (800 ft)		downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	7.5		bd. ft / load: 3200
cost / mbf:	\$258.33		
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Large)		
Combination#:	3	Douglas - Fir Alder (Red)	7.55% 13.60%
Logging System:	Cable: Small Tower <=40		Process: Stroke Delimber
yarding distance:	Short (400 ft)		downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	10		bd. ft / load: 3100
cost / mbf:	\$180.64		
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Small)		
Combination#:	4	Douglas - Fir Alder (Red)	27.35% 34.37%
Logging System:	Shovel		Process: Harvester Head Delimbing
yarding distance:	Medium (800 ft)		downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	12.5		bd. ft / load: 3200
cost / mbf:	\$133.60		
machines:	Forwarder Harvester		



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Logging Costs

Operating Seasons: 2.00	Profit Risk: 12%
Project Costs: \$368,860.00	Other Costs (P/R): \$11,820.00
Slash Disposal: \$0.00	Other Costs: \$20,800.00

Miles of Road

Road Maintenance: \$4.44

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	3.2
Alder (Red)	\$0.00	3.0	3.0



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas - Fir									
\$235.33	\$4.66	\$0.76	\$85.31	\$1.02	\$39.25	\$0.00	\$7.00	\$1.80	\$375.13
Alder (Red)									
\$214.90	\$4.88	\$0.76	\$95.34	\$1.02	\$38.03	\$0.00	\$7.00	\$1.80	\$363.73

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$765.03	\$389.90	\$0.00
Alder (Red)	\$0.00	\$739.40	\$375.67	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	11,108	\$389.90	\$4,331,009.20
Alder (Red)	433	\$375.67	\$162,665.11

Gross Timber Sale Value

Recovery: \$4,493,674.31

Prepared By: Harold Stevens

Phone: 503-815-7044



PROJECT SUMMARY SHEET

Sale: Doghouse

CONSTRUCTION

Point	I to J	7+70	stations =	\$10,580.66
Point	K to L	2+05	stations =	\$2,741.89
Point	O to P	8+95	stations =	\$25,686.83
Point	S to T	5+65	stations =	\$18,519.56
SUBTOTAL CONSTRUCTION				\$57,528.94

IMPROVEMENT

Point	A to B	36+35	stations =	\$16,238.40
Point	C to D	20+00	stations =	\$13,881.50
Point	E to F	40+65	stations =	\$27,183.41
Point	G to H	13+40	stations =	\$4,569.58
Point	I to J	1+30	stations =	\$1,421.34
Point	K to L	10+35	stations =	\$11,690.69
Point	M to N	4+10	stations =	\$6,225.77
Point	O to P	47+30	stations =	\$35,930.85
Point	Q to R	18+20	stations =	\$22,712.94
SUBTOTAL IMPROVEMENT				\$139,854.48

RECONSTRUCTION

Point	E to F	24+35	stations =	\$27,650.49
SUBTOTAL RECONSTRUCTION				\$27,650.49

SPECIAL PROJECTS

Stockpile 1 - 1,700 CY of 3"-0"			19,176.00
Stockpile 2 - 5,000 CY of 1.5"-0" & 2,000 CY of Shot/Rip Rap Rock			72,430.00
Brush	42.2	miles of road	\$46,420.00
SUBTOTAL SPECIAL PROJECTS			\$138,026.00

MOVE IN \$5,800.09

GRAND TOTAL \$368,860.00

SUMMARY OF CONSTRUCTION COST

Sale:

Doghouse

Road:

A to B

Construction -	0+00	stations	Improvement -	36+35	stations	Reconstruction -	0+00	stations
	0.00	miles		0.69	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -
Scattering

1.670 acres @ \$1,500.00 per acre = \$2,505.00
TOTAL CLEARING AND GRUBBING \$2,505.00

IMPROVEMENT: EXCAVATION -
Road Earthwork

0+00 to 36+35 36.35 sta. @ \$85.00 per sta. = \$3,089.75
TOTAL EXCAVATION \$3,089.75

CULVERTS - MATERIALS & INSTALLATION

Culverts

60 LF of 18" \$1,050.00
\$1,050.00

30 LF of 24" \$810.00
\$810.00

Culvert Stakes & Markers

3 markers \$24.00
\$24.00

TOTAL CULVERTS \$1,884.00

ROCK

Spot Rock	0+00 to 36+35	370	cy. of	Crushed	@	\$14.77 per c.y.=	\$5,464.90
Culvert Backfill/Bedding	Culv. In Exhibit G	30	cy. of	Crushed	@	\$13.30 per c.y.=	\$399.00
Landing Rock	36+35	70	cy. of	Crushed	@	\$15.13 per c.y.=	\$1,059.10
Junction Rock	0+00	20	cy. of	Crushed	@	\$14.50 per c.y.=	\$290.00
Energy Dissipator	Culv. In Exhibit G	20	cy. of	Riprap	@	\$6.80 per c.y.=	\$136.00
TOTAL ROCK							\$7,349.00

SPECIAL PROJECTS

Grade and shape road -	36.35	stations @	\$15.50	per station	\$563.43
Roll subgrade w/ vibratory roller prior to rocking -	36.35	stations @	\$13.20	per station	\$479.82
Grass seed -	1.67	acres @	\$220.00	per acre	\$367.40
TOTAL SPECIAL PROJECTS					\$1,410.65

GRAND TOTAL \$16,238.40

SUMMARY OF CONSTRUCTION COST

Sale: Doghouse

Road: C to D

Construction -	0+00	stations	Improvement -	20+00	stations	Reconstruction -	0+00	stations
	0.00	miles		0.38	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Scattering	1.150	acres @	\$1,500.00 per acre =	\$1,725.00	
			TOTAL CLEARING AND GRUBBING		\$1,725.00

IMPROVEMENT: EXCAVATION -

Road Earthwork	20.00	sta. @	\$80.00 per sta. =	\$1,600.00	
			TOTAL EXCAVATION		\$1,600.00

ROCK

0+00 to	20+00	710	cy. of	Crushed	@	\$13.57 per c.y. =	\$9,634.70	
Junction Rock	0+00	20	cy. of	Crushed	@	\$13.32 per c.y. =	\$266.40	
						TOTAL ROCK		\$9,901.10

SPECIAL PROJECTS

Grade and shape road -	20.00	stations @	\$15.50 per station	\$310.00	
Roll subgrade w/ vibratory roller prior to rocking -	20.00	stations @	\$13.20 per station	\$264.00	
Grass seed -	0.37	acres @	\$220.00 per acre	\$81.40	
			TOTAL SPECIAL PROJECTS		\$655.40

GRAND TOTAL

\$13,881.50

SUMMARY OF CONSTRUCTION COST

Sale:

Doghouse

Road:

E to F

Construction -	0+00	stations	Improvement -	40+65	stations	Reconstruction -	24+35	stations
	0.00	miles		0.77	miles		0.46	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Scattering	0.840	acres @	\$1,500.00	per acre =	\$1,260.00	
TOTAL CLEARING AND GRUBBING						\$1,260.00

IMPROVEMENT: EXCAVATION -

Road Ditching	0+00	to	40+65	40.65	sta. @	\$50.00	per sta. =	\$2,032.50	
Widening	0+00	to	2+60	300	cy. @	\$1.90	per c.y. =	\$570.00	
TOTAL EXCAVATION									\$2,602.50

IMPROVEMENT: ENDHAUL -

Widening	0+00	to	2+60	300	cy. @	\$1.40	per c.y. =	\$420.00	
Spread & compact				300	cy. @	\$0.25	per c.y. =	\$75.00	
TOTAL ENDHAUL									\$495.00

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering/Endhaul	2.910	acres @	\$1,800.00	per acre =	\$5,238.00	
TOTAL CLEARING AND GRUBBING						\$5,238.00

RECONSTRUCTION: EXCAVATION -

Road Earthwork	40+65	to	52+15	24.35	sta. @	\$200.00	per sta. =	\$4,870.00	
Widening			@ 64+70	820	cy. @	\$1.90	per c.y. =	\$1,558.00	
Fill Const.				300	cy. @	\$1.90	per c.y. =	\$570.00	
TOTAL EXCAVATION									\$6,998.00

RECONSTRUCTION: ENDHAUL -

Widening	40+65	to	52+15	820	cy. @	\$1.27	per c.y. =	\$1,041.40	
Borrow for Fill Const.		@	64+70	300	cy. @	\$1.40	per c.y. =	\$420.00	
Spread & compact				1120	cy. @	\$0.25	per c.y. =	\$280.00	
TOTAL ENDHAUL									\$1,741.40

CULVERTS - MATERIALS & INSTALLATION

Culverts

30	LF of 18"	\$525.00	0	LF of 24"	\$0.00
\$525.00			\$0.00		

Culvert Stakes & Markers

1	markers	\$8.00
		\$8.00

TOTAL CULVERTS \$533.00

ROCK

0+00 to 40+65	1,430	cy. of	Crushed	@	\$14.20	per c.y. =	\$20,306.00		
40+65 to 55+50	790	cy. of	Crushed	@	\$15.06	per c.y. =	\$11,897.40		
Culvert Backfill/Bedding	Culv. In Exhibit G	10	cy. of	Crushed	@	\$14.86	per c.y. =	\$148.60	
Junction/Turnaround Rock	54+90	70	cy. of	Crushed	@	\$15.31	per c.y. =	\$1,071.70	
Energy Dissipator	Culv. In Exhibit G	5	cy. of	Riprap	@	\$6.80	per c.y. =	\$34.00	
TOTAL ROCK									\$33,457.70

SPECIAL PROJECTS

Grade and shape road -	65.00	stations @	\$15.50	per station	\$1,007.50	
Roll subgrade w/ vibratory roller prior to rocking -	65.00	stations @	\$13.20	per station	\$858.00	
Grass seed -	2.24	acres @	\$220.00	per acre	\$492.80	
Mulching -	0.250	acres @	\$600.00	per acre	\$150.00	
TOTAL SPECIAL PROJECTS						\$2,508.30

GRAND TOTAL

\$54,833.90

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Doghouse</u>				Road:	<u>G to H</u>			
Construction -	0+00	stations	Improvement -	13+40	stations	Reconstruction -	0+00	stations	
	0.00	miles		0.25	miles		0.00	miles	

IMPROVEMENT: CLEARING AND GRUBBING - Scattering	0.340	acres @	\$1,500.00 per acre =	\$510.00	
			TOTAL CLEARING AND GRUBBING		\$510.00

IMPROVEMENT: EXCAVATION - Road Earthwork	13.40	sta. @	\$50.00 per sta. =	\$670.00	
			TOTAL EXCAVATION		\$670.00

ROCK							
Spot Rock	0+00 to 13+40	150	cy. of	Crushed	@	\$14.08 per c.y. =	\$2,112.00
Landing Rock	13+40	40	cy. of	Crushed	@	\$14.25 per c.y. =	\$570.00
Junction Rock	0+00	20	cy. of	Crushed	@	\$13.40 per c.y. =	\$268.00
						TOTAL ROCK	\$2,950.00

SPECIAL PROJECTS							
Grade and shape road -	13.40	stations @	\$15.50	per station		\$207.70	
Roll subgrade w/ vibratory roller prior to rocking -	13.40	stations @	\$13.20	per station		\$176.88	
Grass seed -	0.25	acres @	\$220.00	per acre		\$55.00	
						TOTAL SPECIAL PROJECTS	\$439.58

GRAND TOTAL	\$4,569.58
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SUMMARY OF CONSTRUCTION COST

Sale:

Doghouse

Road:

I to J

Construction -	7+70	stations	Improvement -	1+30	stations	Reconstruction -	0+00	stations
	0.15	miles		0.02	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 Outslope	Cost per Station	=		
1+30		9+00	35%			\$400		\$3,080.00	
								TOTAL	\$3,080.00

IMPROVEMENT: CLEARING AND GRUBBING -
Scattering

0.060	acres @	\$1,500.00 per acre =	\$90.00	
		TOTAL CLEARING AND GRUBBING		\$90.00

IMPROVEMENT: EXCAVATION -
Road Earthwork

1.30	sta. @	\$50.00 per sta. =	\$65.00	
		TOTAL EXCAVATION		\$65.00

ROCK

0+00 to	9+00	490 cy. of	Crushed	@	\$14.25 per c.y. =	\$6,982.50	
Landing Rock	9+00	100 cy. of	Crushed	@	\$14.36 per c.y. =	\$1,436.00	
					TOTAL ROCK		\$8,418.50

SPECIAL PROJECTS

Grade and shape road -	9.00	stations @	\$15.50 per station	\$139.50	
Roll subgrade w/ vibratory roller prior to rocking -	9.00	stations @	\$13.20 per station	\$118.80	
Grass seed -	0.41	acres @	\$220.00 per acre	\$90.20	
			TOTAL SPECIAL PROJECTS		\$348.50

GRAND TOTAL

\$12,002.00

SUMMARY OF CONSTRUCTION COST

Sale:	Doghouse				Road:	K to L			
Construction -	2+05	stations	Improvement -	10+35	stations	Reconstruction -	0+00	stations	
	0.04	miles		0.20	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	=	\$820.00	
10+35		12+40	35%		Outslope	\$400		TOTAL	\$820.00

IMPROVEMENT: CLEARING AND GRUBBING -									
Scattering				0.290	acres @	\$1,500.00 per acre =		\$435.00	
TOTAL CLEARING AND GRUBBING									\$435.00

IMPROVEMENT: EXCAVATION -									
Road Earthwork				10.35	sta. @	\$150.00 per sta. =		\$1,552.50	
TOTAL EXCAVATION									\$1,552.50

ROCK									
0+00 to	12+40	660	cy. of	Crushed	@	\$14.38 per c.y. =		\$9,490.80	
Landing Rock	12+40	100	cy. of	Crushed	@	\$14.38 per c.y. =		\$1,438.00	
Junction Rock	0+00	20	cy. of	Crushed	@	\$14.38 per c.y. =		\$287.60	
TOTAL ROCK									\$11,216.40

SPECIAL PROJECTS									
Grade and shape road -				12.40	stations @	\$15.50 per station		\$192.20	
Roll subgrade w/ vibratory roller prior to rocking -				12.40	stations @	\$13.20 per station		\$163.68	
Grass seed -				0.24	acres @	\$220.00 per acre		\$52.80	
TOTAL SPECIAL PROJECTS									\$408.68

GRAND TOTAL								\$14,432.58	
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SUMMARY OF CONSTRUCTION COST

Sale: **Doghouse**

Road: **M to N**

Construction -	0+00	stations	Improvement -	4+10	stations	Reconstruction -	0+00	stations
	0.00	miles		0.08	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -
Scattering

0.190 acres @ \$1,500.00 per acre = \$285.00
TOTAL CLEARING AND GRUBBING \$285.00

IMPROVEMENT: EXCAVATION -
Road Earthwork

4.10 sta. @ \$150.00 per sta. = \$615.00
TOTAL EXCAVATION \$615.00

ROCK

0+00 to	4+10	230	cy. of	Crushed	@	\$14.81 per c.y. =	\$3,406.30	
Landing Rock	4+10	100	cy. of	Crushed	@	\$14.87 per c.y. =	\$1,487.00	
Junction Rock	0+00	20	cy. of	Crushed	@	\$14.75 per c.y. =	\$295.00	
							TOTAL ROCK	\$5,188.30

SPECIAL PROJECTS

Grade and shape road -	4.10	stations @	\$15.50	per station	\$63.55	
Roll subgrade w/ vibratory roller prior to rocking -	4.10	stations @	\$13.20	per station	\$54.12	
Grass seed -	0.09	acres @	\$220.00	per acre	\$19.80	
					TOTAL SPECIAL PROJECTS	\$137.47

GRAND TOTAL \$6,225.77

SUMMARY OF CONSTRUCTION COST

Sale:		<u>Doghouse</u>		Road:		<u>O to P</u>					
<u>Construction -</u>		8+95	stations	<u>Improvement -</u>		47+30	stations	<u>Reconstruction -</u>		0+00	stations
		0.17	miles			0.90	miles			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. To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=			
	47+30		53+40	65%	1.0	Outslope	\$3,000	=		\$18,300.00	
	53+40		56+25	35%		Outslope	\$450	=		<u>\$1,282.50</u>	
										TOTAL	\$19,582.50
IMPROVEMENT: CLEARING AND GRUBBING -											
Scattering					0.870	acres @	\$1,500.00	per acre =		<u>\$1,305.00</u>	
									TOTAL CLEARING AND GRUBBING	\$1,305.00	
IMPROVEMENT: EXCAVATION -											
Road Earthwork					47.30	sta. @	\$50.00	per sta. =		<u>\$2,365.00</u>	
									TOTAL EXCAVATION	\$2,365.00	
ROCK											
0+00 to	47+30		1,670	cy. of	Crushed	@	\$15.90	per c.y. =		\$26,553.00	
47+30 to	56+25		490	cy. of	Crushed	@	\$16.78	per c.y. =		\$8,222.20	
Landing Rock	56+25		100	cy. of	Crushed	@	\$16.94	per c.y. =		<u>\$1,694.00</u>	
									TOTAL ROCK	\$36,469.20	
SPECIAL PROJECTS											
Grade and shape road -			56.25	stations @	\$15.50	per station				\$871.88	
Roll subgrade w/ vibratory roller prior to rocking -			56.25	stations @	\$13.20	per station				\$742.50	
Grass seed -			1.28	acres @	\$220.00	per acre				<u>\$281.60</u>	
									TOTAL SPECIAL PROJECTS	\$1,895.98	
									GRAND TOTAL	\$61,617.68	

SUMMARY OF CONSTRUCTION COST

Sale:	Doghouse				Road:	Q to R			
Construction -	0+00	stations	Improvement -	18+20	stations	Reconstruction -	0+00	stations	
	0.00	miles		0.34	miles		0.00	miles	
IMPROVEMENT: CLEARING AND GRUBBING -									
Scattering			1.460	acres @	\$1,500.00	per acre =	\$2,190.00		
TOTAL CLEARING AND GRUBBING									\$2,190.00
IMPROVEMENT: EXCAVATION -									
Road Earthwork	0+00	to	9+15	9.15	sta. @	\$150.00	per sta. =	\$1,372.50	
Road Earthwork	9+15	to	18+20	9.05	sta. @	\$250.00	per sta. =	\$2,262.50	
TOTAL EXCAVATION									\$3,635.00
ROCK									
0+00 to	9+15	350	cy. of	Crushed	@	\$15.45	per c.y. =	\$5,407.50	
9+15 to	18+20	490	cy. of	Crushed	@	\$15.73	per c.y. =	\$7,707.70	
Landing Rock	9+15 & 18+20	200	cy. of	Crushed	@	\$15.79	per c.y. =	\$3,158.00	
TOTAL ROCK									\$16,273.20
SPECIAL PROJECTS									
Grade and shape road -			18.20	stations @	\$15.50	per station	\$282.10		
Roll subgrade w/ vibratory roller prior to rocking -			18.20	stations @	\$13.20	per station	\$240.24		
Grass seed -			0.42	acres @	\$220.00	per acre	\$92.40		
TOTAL SPECIAL PROJECTS									\$614.74
GRAND TOTAL									\$22,712.94

SUMMARY OF CONSTRUCTION COST

Sale:

Doghouse

Road:

S to T

Construction -	5+65	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.11	miles		0.00	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=		
0+00		5+65	75%	1.0		\$3,000		\$16,950.00	
								TOTAL	\$16,950.00

ROCK

0+00	to	1+00	80	cy. of	Crushed	@	\$16.52 per c.y. =	\$1,321.60	
								TOTAL ROCK	\$1,321.60

SPECIAL PROJECTS

Grade and shape road -	5.65	stations @	\$15.50	per station	\$87.58
Roll subgrade w/ vibratory roller prior to rocking -	5.65	stations @	\$13.20	per station	\$74.58
Grass seed -	0.39	acres @	\$220.00	per acre	\$85.80
				TOTAL SPECIAL PROJECTS	\$247.96

GRAND TOTAL

\$18,519.56

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	NF_Trask_Pit	Location:	SE 1/4 Sec. 25, T1S, R8W, W.M.
Sale:	Doghouse	Stockpile	5000 c.y.
Swell:	1.40	Extra rock to be shot:	2000 c.y.
Shrinkage	1.16	Total Truck Loads:	7000 c.y.
Drill Pct.:	100%	In Place Total:	5000 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$6,000.00

Drill & Shoot:	\$3.20 /cu.yd.	x	3571 cu.yds.	=	\$11,427.20
Push Rock:	\$0.70 /cu.yd.	x	5000 cu.yds.	=	\$3,500.00
Push Rock off Mid-Bench:	\$0.70 /cu.yd.	x	2500 cu.yds.	=	\$1,750.00
Load Crusher:	\$0.70 /cu.yd.	x	5000 cu.yds.	=	\$3,500.00
Crush 1.5" Rock:	\$3.10 /cu.yd.	x	5000 cu.yds.	=	\$15,500.00
Load Dump Truck or Place in Pile:	\$0.70 /cu.yd.	x	5000 cu.yds.	=	\$3,500.00
Oversize Reduction:	\$4.50 /cu.yd.	x	1000 cu.yds.	=	\$4,500.00
					Subtotal
					\$49,677.20

Additional Drill & Shoot:	\$3.20 /cu.yd.	x	1429 cu.yds.	=	\$4,572.80
Push Rock:	\$0.70 /cu.yd.	x	2000 cu.yds.	=	\$1,400.00
Push Rock off Mid-Bench:	\$0.70 /cu.yd.	x	1000 cu.yds.	=	\$700.00
Oversize Reduction:	\$4.50 /cu.yd.	x	400 cu.yds.	=	\$1,800.00
					Subtotal
					\$8,472.80

Move In/Set-up Crusher					\$2,500.00
Move In and set up Drill and Compressor	1	@	\$636.55	=	\$636.55
2nd Move In/Stand By of drill for 2nd shot	1	@	\$1,100.00	=	\$1,100.00
Move in D-8	1	@	\$1,078.88	=	\$1,078.88
Move in Loader	1	@	\$921.87	=	\$921.87
Move in Excavator	1	@	\$1,140.43	=	\$1,140.43
Move in Trucks	1	@	\$182.94	=	\$182.94
Move in Water Truck	1	@	\$215.04	=	\$215.04
					Subtotal
					\$7,775.71

TOTAL PRODUCTION COSTS \$65,925.71

2 1/2"-0" Base Cost= \$11.49 Per Cu.Yd.
Shot Rock Base Cost= \$4.24 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
Stockpile 2 1.5"-0" Crushed	0.00	1.30	11.49	12.79	5000	\$63,950.00
Extra Shot Rock	0.00	0.00	4.24	4.24	2000	\$8,480.00
					Total C.Y. 5000	Sub Total
						\$72,430.00

TOTAL ROCKING COSTS \$72,430.00

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushing_Pit	Location:	NE 1/4 Sec. 9, T2S, R7W, W.M.
Sale:	Doghouse	Road:	10555 c.y.
Swell:	1.40		
Shrinkage	1.16	Total Truck Loads:	10555 c.y.
Drill Pct.:	100%	In Place Total:	7539 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.					\$4,000.00
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Drill & Shoot:	\$3.20 /cu.yd.	x	7539 cu.yds.	=	\$24,124.80
Push Rock:	\$0.70 /cu.yd.	x	10555 cu.yds.	=	\$7,388.50
Load Crusher:	\$0.70 /cu.yd.	x	10555 cu.yds.	=	\$7,388.50
Crush 2.5" Rock:	\$2.90 /cu.yd.	x	10555 cu.yds.	=	\$30,609.50
Load Dump Truck:	\$0.70 /cu.yd.	x	10555 cu.yds.	=	\$7,388.50

Subtotal	<u>\$80,899.80</u>
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Move In/Set-up Crusher	1				\$2,800.00
Move In and set up Drill and Compressor	1	@	\$636.55	=	\$636.55
Move in Roller and Compactor	1	@	\$636.55	=	\$636.55
Move in Grader	1	@	\$198.32	=	\$198.32
Move in D-8	1	@	\$1,078.88	=	\$1,078.88
Move in Loader	1	@	\$921.87	=	\$921.87
Move in Excavator	1	@	\$1,140.43	=	\$1,140.43
Move in Trucks	4	@	\$182.94	=	\$731.76
Move in Water Truck	1	@	\$215.04	=	\$215.04
Change Gradation					

Subtotal	\$8,359.40
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TOTAL PRODUCTION COSTS	\$89,259.20
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Base Cost= \$8.46 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 Spot Rock (Crushed)	3.86	2.45	8.46	14.77	370	\$5,464.90
A to B Culvert Backfill/Bedding (Crushed)	3.84	1.00	8.46	13.30	30	\$399.00
A to B Landing Rock (Crushed)	4.22	2.45	8.46	15.13	70	\$1,059.10
A to B Junction Rock (Crushed)	3.59	2.45	8.46	14.50	20	\$290.00
A to B Energy Dissipator (Riprap)	4.40	1.40	1.00	6.80	20	\$136.00
C to D 0' 2000 (Crushed)	2.66	2.45	8.46	13.57	710	\$9,634.70
C to D Junction Rock (Crushed)	2.41	2.45	8.46	13.32	20	\$266.40
E to F 0' 4065 (Crushed)	3.29	2.45	8.46	14.20	1430	\$20,306.00
E to F 4065 5550 (Crushed)	4.15	2.45	8.46	15.06	790	\$11,897.40
E to F Culvert Backfill/Bedding (Crushed)	4.40	2.00	8.46	14.86	10	\$148.60
E to F Junction/Turnaround Rock (Crushed)	4.40	2.45	8.46	15.31	70	\$1,071.70
E to F Energy Dissipator (Riprap)	4.40	1.40	1.00	6.80	5	\$34.00
G to H Spot Rock (Crushed)	3.17	2.45	8.46	14.08	150	\$2,112.00
G to H Landing Rock (Crushed)	3.34	2.45	8.46	14.25	40	\$570.00
G to H Junction Rock (Crushed)	2.49	2.45	8.46	13.40	20	\$268.00
I to J 0' 900 (Crushed)	3.34	2.45	8.46	14.25	490	\$6,982.50
I to J Landing Rock (Crushed)	3.45	2.45	8.46	14.36	100	\$1,436.00
K to L 0' 1240 (Crushed)	3.47	2.45	8.46	14.38	660	\$9,490.80
K to L Landing Rock (Crushed)	3.47	2.45	8.46	14.38	100	\$1,438.00
K to L Junction Rock (Crushed)	3.47	2.45	8.46	14.38	20	\$287.60
M to N 0' 410 (Crushed)	3.90	2.45	8.46	14.81	230	\$3,406.30
M to N Landing Rock (Crushed)	3.96	2.45	8.46	14.87	100	\$1,487.00
M to N Junction Rock (Crushed)	3.84	2.45	8.46	14.75	20	\$295.00
O to P 0' 4730 (Crushed)	4.99	2.45	8.46	15.90	1670	\$26,553.00
O to P 4730 5625 (Crushed)	5.87	2.45	8.46	16.78	490	\$8,222.20
O to P Landing Rock (Crushed)	6.03	2.45	8.46	16.94	100	\$1,694.00
Q to R 0' 915 (Crushed)	4.54	2.45	8.46	15.45	350	\$5,407.50
Q to R 915 1820 (Crushed)	4.82	2.45	8.46	15.73	490	\$7,707.70
Q to R Landing Rock (Crushed)	4.88	2.45	8.46	15.79	200	\$3,158.00
S to T 0' 100 (Crushed)	5.61	2.45	8.46	16.52	80	\$1,321.60
Stockpile 1 2.5" -0" Crushed Rock	1.52	1.30	8.46	11.28	1700	\$19,176.00
				Total C.Y.	10555	Sub Total
						\$151,721.00

TOTAL ROCKING COSTS	\$151,721.00
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Move-In Calculations for Project Work not Involving Rocking/Pit Work & U to V Project

Sale: Doghouse

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
32.0	Pavement	30
9.0	Main Lines	7
6.0	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	Excavators (Small)	\$636.55		\$22.00	0.00	10.00	10	\$220.00	\$856.55
1	Excavators (Large)	\$1,177.23	1	\$44.80	0.00	10.00	10	\$448.00	\$1,625.23
1	Tractors (D7)	\$1,090.92	2	\$11.30	0.00	10.00	10	\$113.00	\$1,203.92
3	Dump Truck (10 cy +)	\$776.49		\$2.85	0.00	10.00	10	\$85.50	\$861.99
1	Dump Truck (Off Hiway)	\$993.46	1	\$4.75	0.00	10.00	10	\$47.50	\$1,040.96
1	Water Truck (1500 Gal)	\$182.94		\$2.85	0.00	10.00	10	\$28.50	\$211.44
					TOTAL MOVE-IN COSTS:				\$5,800.09



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Doghouse*

1. Type of Sale

Regeneration harvest, Recovery

2. Legal Description

Sections 5, 8, 9 10, 15, 16, 21 and 22, T2S, R7W, W.M., Tillamook County, Oregon

3. Sale Acreage

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

	<u>ACRES</u>	
	<u>Gross</u>	<u>Net</u>
Area 1 (Modified Clearcut)	113	97
Area 2 (Modified Clearcut)	141	110
Area 3 (Modified Clearcut)	64	45
Area 4 (Modified Clearcut)	118	98
Area 5 (Modified Clearcut)	144	118
Area 6 (Modified Clearcut)	134	96

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 timber sale areas were cruised using variable plot sampling. Areas were cruised on a rectangular grid with plot and line spacing 350' and 700' respectively. Lines were run on different azimuths for the areas to provide the uniform coverage. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 10" DBH and greater containing 30 board feet were recorded on all plots. 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

Plot size varied by Area and the BAF used is as follows:

Sale Area	Basal Area Factor
1	27.78
2	33.61
3	27.78
4	20.00
5	27.78
6	27.78

C. Grading System

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

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table for each species and type.

Cruise Statistics (Board Foot Volumes)			
Area	Number of Plots	SE (%)	CV (%)
1	11	11.8	37.2
2	21	12.1	54.1
3	8	22.5	59.6
4	16	9.6	37.1
5	17	8.9	35.5
6	19	13.1	55.5
Total	92	13.0	46.5

6. Hidden Defect and Breakage

A 1% reduction was applied to conifers and a 2% reduction to hardwood volumes for hidden defect and breakage.

7. Timber Description

The entire sale area was burned first in the 1933 Tillamook Fire and again in 1939 with the Saddle Mountain Fire. In 1951, Area 1 was burned again with the North Fork Fire. The last fire impacts occurred in 1958 with the Elk horn Fire, burning all of Areas 2, 3, 4,

5, and portions of Area 1 and 6. A mixture of seeding and planting of seedlings was used to reforest all the burned areas. Initial planting for all areas occurred from 1951 to 1953 with the exception of 10 acres in Area 5 being planted in 1968. In 1999 half of Area 1 was thinned with the Off Toll timber sale. Portions of the remaining sale areas (Areas 2 - 20%, 3 - 20%, 4 - 95%, 5 - 85% and 6 - 35%) were thinned with the Steamed Pigeon timber sale in 2000.

Sale Area	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	Douglas-fir	18.3	64	5
2	Douglas-fir	14.7	58	5
	Red alder	17.4	44	6
3	Douglas-fir	17.1	60	5
	Red alder	17.0	49	6
4	Douglas-fir	18.9	74	5
	Red alder	16.6	47	6
5	Douglas-fir	16.9	69	5
6	Douglas-fir	17.1	73	5
	Red alder	23.0	75	6

8. Cruiser/Dates

Areas 1, 3, 4 and 5 were cruised by contractors in 2015. Areas 2 and 6 were also cruised by contractors in 2013 and 2011, respectively. All areas were grown forward to September 2017 using the SuperACE program.

9. Revenue Distribution

FDF 100%

Tax Code: 100% 9-1

Deed Numbers: 169, 209

10. Attachments

Volume Summary

Stand Table

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DF – Douglas-fir take

DL – Douglas-fir leave

OC – Other conifer

RA – Red alder take

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	HOUSEDOG			DATE	8/15/2017		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
02S	07W	08	AREA1 646	SALE	97.00	11	56	S	W		
				TREES	ESTIMATED TOTAL		PERCENT SAMPLE				
				PLOTS	TREES	PER PLOT	TREES	TREES			
TOTAL		11	56	5.1							
CRUISE		11	56	5.1	7,538			.7			
DBH COUNT											
REFOREST											
COUNT											
BLANKS											
100 %											
STAND SUMMARY											
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR		56	77.7	18.3	64	33.1	141.4	16,200	15,777	4,608	4,608
TOTAL		56	77.7	18.3	64	33.1	141.4	16,200	15,777	4,608	4,608
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL:	68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		56.0	7.5	257	278	298					
TOTAL		56.0	7.5	257	278	298	125		31	14	
CL:	68.1 %	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		50.6	6.7	75	80	85					
TOTAL		50.6	6.7	75	80	85	102		26	11	
CL:	68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		83.7	26.5	57	78	98					
TOTAL		83.7	26.5	57	78	98	308		77	34	
CL:	68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		40.7	12.9	123	141	160					
TOTAL		40.7	12.9	123	141	160	73		18	8	
CL:	68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		37.2	11.8	13,923	15,777	17,631					
TOTAL		37.2	11.8	13,923	15,777	17,631	61		15	7	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		36.3	11.5	4,080	4,608	5,136					
TOTAL		36.3	11.5	4,080	4,608	5,136	58		14	6	

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	HOUSEDOG			DATE	8/15/2017		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
02S	07W	09	AREA2 333	SALE	110.00	21	96	S	W		
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			21	96	4.6						
CRUISE			21	95	4.5	13,719	.7				
DBH COUNT											
REFOREST											
COUNT											
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE TREES			TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR			85	115.0	14.7	58	35.5	136.0	14,612	4,100	4,097
R ALDER			10	9.7	17.4	44	3.8	16.0	1,006	405	384
TOTAL			95	124.7	15.0	57	39.3	152.0	15,619	4,505	4,481
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL:	68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR			59.2	6.4	163	175	186				
R ALDER			55.2	18.4	99	121	143				
TOTAL			59.9	6.1	159	169	179	143	36	16	
CL:	68.1 %	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR			57.0	6.2	46	49	52				
R ALDER			46.8	15.6	39	46	54				
TOTAL			55.9	5.7	46	49	52	125	31	14	
CL:	68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR			61.5	13.7	99	115	131				
R ALDER			205.1	45.8	5	10	14				
TOTAL			52.1	11.7	110	125	139	114	29	13	
CL:	68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR			50.3	11.2	121	136	151				
R ALDER			206.0	46.0	9	16	23				
TOTAL			40.5	9.1	138	152	166	69	17	8	
CL:	68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR			60.9	13.6	12,623	14,612	16,602				
R ALDER			216.9	48.5	518	1,006	1,494				
TOTAL			54.1	12.1	13,732	15,619	17,506	123	31	14	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR			56.6	12.6	3,579	4,097	4,615				
R ALDER			208.8	46.7	205	384	563				
TOTAL			48.6	10.9	3,994	4,481	4,968	99	25	11	

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	HOUSEDOG				DATE	8/15/2017	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
02S	07W	15	AREA3 640	SALE	45.00	8	44	S	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL		8	44	5.5							
CRUISE		8	44	5.5	4,351	1.0					
DBH COUNT											
REFOREST											
COUNT											
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
DOUG FIR		25	54.7	17.1	60	21.0	86.8	9,859	9,661	2,704	
R ALDER		19	42.0	17.0	49	16.0	66.0	5,463	5,208	1,710	
TOTAL		44	96.7	17.0	55	37.0	152.8	15,322	14,869	4,414	
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		60.1	12.3	226	258	289					
R ALDER		66.1	15.6	125	148	172					
TOTAL		67.9	10.2	189	210	232	184	46	20		
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		57.2	11.7	64	73	81					
R ALDER		52.5	12.4	42	48	54					
TOTAL		60.2	9.1	56	62	68	145	36	16		
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		150.2	56.6	24	55	86					
R ALDER		97.5	36.7	27	42	57					
TOTAL		74.1	27.9	70	97	124	250	62	28		
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		122.7	46.3	47	87	127					
R ALDER		103.0	38.8	40	66	92					
TOTAL		44.5	16.8	127	153	178	90	23	10		
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		122.4	46.1	5,204	9,661	14,119					
R ALDER		122.0	46.0	2,812	5,208	7,603					
TOTAL		59.6	22.5	11,527	14,869	18,211	162	40	18		
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		121.3	45.7	1,468	2,704	3,940					
R ALDER		110.7	41.7	996	1,710	2,423					
TOTAL		50.8	19.2	3,568	4,414	5,259	117	29	13		

TC TSTATS				STATISTICS				PAGE 1				
				PROJECT	HOUSEDOG		DATE	8/15/2017				
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
02S	07W	16	AREA4 638	SALE	98.00	16	98	S	W			
				TREES	ESTIMATED TOTAL	PERCENT SAMPLE						
				PER PLOT	TREES	TREES						
PLOTS		TREES										
TOTAL		16		98		6.1						
CRUISE		16		97		6.1		6,157				
DBH COUNT								1.6				
REFOREST												
COUNT												
BLANKS												
100 %												
STAND SUMMARY												
SAMPLE TREES		TREES /ACRE		AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC	
DOUG FIR		93		59.5	18.9	74	26.7	116.3	15,004	14,731	3,924	3,915
R ALDER		4		3.3	16.6	47	1.2	5.0	511	451	136	136
TOTAL		97		62.8	18.8	72	28.0	121.3	15,514	15,183	4,059	4,051
CONFIDENCE LIMITS OF THE SAMPLE												
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR												
CL: 68.1 %		COEFF		SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.		
SD: 1.0		VAR.%		S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		45.5		4.7	276	289	303					
R ALDER		50.8		29.0	115	163	210					
TOTAL		46.5		4.7	271	284	297	86	22	10		
CL: 68.1 %		COEFF		SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD: 1.0		VAR.%		S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		40.5		4.2	73	77	80					
R ALDER		53.7		30.7	34	49	65					
TOTAL		41.3		4.2	72	76	79	68	17	8		
CL: 68.1 %		COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0		VAR.%		S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		32.0		8.3	55	59	64					
R ALDER		278.6		71.9	1	3	6					
TOTAL		31.6		8.1	58	63	68	42	11	5		
CL: 68.1 %		COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0		VAR.%		S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		36.2		9.3	105	116	127					
R ALDER		309.8		79.9	1	5	9					
TOTAL		32.7		8.4	111	121	131	46	11	5		
CL: 68.1 %		COEFF		NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0		VAR.%		S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		39.9		10.3	13,214	14,731	16,248					
R ALDER		352.0		90.8	41	451	861					
TOTAL		37.1		9.6	13,730	15,183	16,635	59	15	7		
CL: 68.1 %		COEFF		NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0		VAR.%		S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		39.3		10.1	3,518	3,915	4,312					
R ALDER		338.6		87.4	17	136	254					
TOTAL		36.1		9.3	3,673	4,051	4,428	56	14	6		

TC TSTATS				STATISTICS				PAGE 1							
				PROJECT	HOUSEDOG		DATE	8/15/2017							
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt						
02S	07W	21	AREA5 634	SALE	117.00	17	98	S	W						
				TREES	ESTIMATED	PERCENT									
				PER PLOT	TOTAL	SAMPLE									
					TREES	TREES									
PLOTS		TREES													
TOTAL	17	98	5.8												
CRUISE	17	95	5.6	11,704	.8										
DBH COUNT															
REFOREST															
COUNT															
BLANKS															
100 %															
STAND SUMMARY															
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET					
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC					
DOUG FIR	95	100.0	16.9	69	37.8	155.2	20,725	20,285	5,351	5,333					
TOTAL	95	100.0	16.9	69	37.8	155.2	20,725	20,285	5,351	5,333					
CONFIDENCE LIMITS OF THE SAMPLE															
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR															
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.						
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15						
DOUG FIR	70.7	7.3	281	303	325										
TOTAL	70.7	7.3	281	303	325	200	50	22							
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.						
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15						
DOUG FIR	62.0	6.4	73	78	83										
TOTAL	62.0	6.4	73	78	83	154	38	17							
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.						
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15						
DOUG FIR	44.9	11.2	89	100	111										
TOTAL	44.9	11.2	89	100	111	86	21	10							
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.						
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15						
DOUG FIR	31.0	7.8	143	155	167										
TOTAL	31.0	7.8	143	155	167	41	10	5							
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.						
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15						
DOUG FIR	35.5	8.9	18,487	20,285	22,084										
TOTAL	35.5	8.9	18,487	20,285	22,084	53	13	6							
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.						
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15						
DOUG FIR	34.2	8.5	4,878	5,333	5,789										
TOTAL	34.2	8.5	4,878	5,333	5,789	50	12	6							

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	HOUSEDOG			DATE	8/15/2017		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
02S	07W	21	AREA6 38	SALE	97.00	19	127	S	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
PLOTS		TREES									
TOTAL	19	127	6.7								
CRUISE	19	126	6.6	11,112	1.1						
DBH COUNT											
REFOREST											
COUNT											
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
DOUG FIR	125	114.0	17.1	73	44.1	182.8	23,746	23,646	6,337	6,337	
R ALDER	1	.5	23.0	75	0.3	1.5	172	172	56	56	
TOTAL	126	114.6	17.2	73	44.5	184.2	23,918	23,818	6,393	6,393	
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	59.5	5.3	257	272	286						
R ALDER											
TOTAL	59.1	5.3	258	272	287	140	35	16			
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	55.5	5.0	69	73	76						
R ALDER											
TOTAL	55.3	4.9	69	73	77	122	30	14			
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	44.4	10.5	102	114	126						
R ALDER	435.9	102.7	1	1							
TOTAL	44.2	10.4	103	115	126	82	21	9			
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	43.7	10.3	164	183	202						
R ALDER	435.9	102.7	1	3							
TOTAL	43.6	10.3	165	184	203	80	20	9			
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	55.3	13.0	20,564	23,646	26,727						
R ALDER	435.9	102.7	172	349							
TOTAL	55.5	13.1	20,703	23,818	26,933	130	32	14			
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	49.1	11.6	5,604	6,337	7,071						
R ALDER	435.9	102.7	56	113							
TOTAL	49.3	11.6	5,650	6,393	7,136	103	26	11			

FI TLOGSTVB				Log Stock Table - MBF																	
				Project: HOUSEDOG																	
T02S R07W S08 TSALE										T02S R07W S08 TSALE											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1												
02S	07W	08	AREA1_GROW	SALE	97.00	11	56	Date	8/14/2017												
										Time	1:38:46PM										
S Spp	So T	Gr rt	Log de Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches													
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+		
DF	CO	2	21	5		5	.3					5									
DF	CO	2	32	40	6.2	38	2.2					38									
DF	CO	2	40	990	2.4	966	56.7					410	353	203							
DF	CO	3	32	29	10.1	26	1.5				26										
DF	CO	3	34	9		9	.5			9											
DF	CO	3	37	4		4	.3			4											
DF	CO	3	39	10		10	.6			10											
DF	CO	3	40	440	1.7	433	25.4			83	85	265									
DF	CO	4	16	4		4	.2		2		2										
DF	CO	4	19	5		5	.3		3		2										
DF	CO	4	20	9		9	.6		9												
DF	CO	4	23	11		11	.7		11												
DF	CO	4	25	3		3	.2			3											
DF	CO	4	27	15		15	.9		15												
DF	CO	4	28	8		8	.5		8												
DF	CO	4	29	23		23	1.4		23												
DF	CO	4	30	9		9	.5		9												
DF	CO	4	31	9		9	.5		9												
DF	CO	4	32	12		12	.7		12												
DF	CO	4	33	22		22	1.3					22									
DF	CO	4	34	24	21.0	19	1.1		19												
DF	CO	4	35	14	25.0	10	.6		10												
DF	CO	4	36	18		18	1.1		18												
DF	CO	4	38	5		5	.3		5												
DF	CO	4	39	6		6	.3		6												
DF	CO	4	40	25		25	1.4		25												
DF Totals				1,750	2.6	1,704	100.0		184	109	115	265	475	353	203						
Total All Species				1,750	2.6	1,704	100.0		184	109	115	265	475	353	203						

FI		TSTNDSUM		Stand Table Summary												
Project														HOUSEDOG		
T02S R07W S08 TSALE												T02S R07W S08 TSALE				
Twp	Rge	Sec	Tract	Type			Acres	Plots	Sample Trees			Page:	1			
02S	07W	08	AREA1_GROW	SALE			97.00	11	56			Date:	08/14/2017			
												Time:	1:38:45PM			
Spc	S T	Sample		FF	Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s		
		DBH	Trees	16'	Tot				Net Cu.Ft.	Net Bd.Ft.		Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
DF		10		78	56	13.769	7.91	14.26	10.7	32.5	4.35	153	464	422	148	45
DF		12		78	55	3.187	2.64	3.30	16.9	32.5	1.59	56	107	154	54	10
DF		13		85	70	5.432	5.27	8.44	14.9	50.6	3.58	125	427	347	122	41
DF		15		86	89	4.080	5.27	8.45	19.3	70.5	4.64	163	596	450	158	58
DF		17		85	95	4.764	7.91	9.87	27.4	101.3	7.70	270	999	747	262	97
DF		18		85	98	7.083	13.18	14.67	31.1	116.1	13.02	457	1,703	1,263	443	165
DF		19		84	96	11.443	23.73	22.39	35.3	124.4	22.53	790	2,786	2,185	767	270
DF		21		83	89	5.737	13.18	11.88	35.4	115.0	12.00	421	1,367	1,164	409	133
DF		22		85	102	6.245	15.82	12.93	44.4	156.4	16.36	574	2,023	1,587	557	196
DF		23		85	100	1.897	5.27	3.93	49.6	170.9	5.56	195	671	539	189	65
DF		24		84	100	5.206	15.82	11.68	49.1	176.9	16.34	573	2,067	1,585	556	200
DF		25		84	95	3.187	10.55	6.60	56.5	204.8	10.63	373	1,352	1,031	362	131
DF		26		84	110	2.203	7.91	4.56	67.4	254.9	8.76	307	1,163	850	298	113
DF		27		84	96	.679	2.64	1.41	68.0	249.5	2.72	96	351	264	93	34
DF		29		80	99	.585	2.64	1.21	78.7	244.1	2.72	95	296	264	93	29
DF		30		83	117	.546	2.64	1.70	61.7	256.7	2.98	105	435	289	102	42
DF		31		83	119	.510	2.64	1.58	68.3	282.1	3.08	108	447	299	105	43
DF		32		82	94	.478	2.64	.99	87.3	320.0	2.46	86	317	239	84	31
DF		Totals		83	86	77.031	147.63	139.86	35.4	125.6	141.02	4,948	17,571	13,679	4,800	1,704
Totals				83	86	77.031	147.63	139.86	35.4	125.6	141.02	4948	17,571	13,679	4,800	1,704

FI TLOGSTVB				Log Stock Table - MBF																			
				Project: HOUSEDOG																			
T02S R07W S09 TSALE										T02S R07W S09 TSALE													
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1														
02S	07W	09	AREA2_GROW	SALE	110.00	21	96	Date	8/15/2017														
										Time	8:22:25AM												
Spp	S	So	Gr	Log	Len	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	20-23	24-29
DF	CO	2		40		299		299	15.7					178		122							
DF	CO	3		20		14		14	.7					14									
DF	CO	3		21		16		16	.9		4			12									
DF	CO	3		22		4		4	.2		4												
DF	CO	3		32		82		82	4.3				64	18									
DF	CO	3		36		25		25	1.3			15	9										
DF	CO	3		40		890		890	46.7			14	231	472	152	21							
DF	CO	4		14		1		1	.0		1												
DF	CO	4		16		8		8	.4		5	3											
DF	CO	4		18		9		9	.5		9												
DF	CO	4		19		6		6	.3		6												
DF	CO	4		20		24		24	1.2		14	5	5										
DF	CO	4		21		3		3	.1		3												
DF	CO	4		22		22		22	1.1		4		11	7									
DF	CO	4		23		9		9	.5		9												
DF	CO	4		24		46		46	2.4		31	4	11										
DF	CO	4		25		14		14	.7		14												
DF	CO	4		26		5		5	.3		5												
DF	CO	4		27		9		9	.5		9												
DF	CO	4		28		57		57	3.0		57												
DF	CO	4		29		8		8	.4		8												
DF	CO	4		31		3		3	.1		3												
DF	CO	4		32		123		123	6.5		65	30	16		13								
DF	CO	4		33		21		21	1.1		21												
DF	CO	4		34		19		19	1.0		19												
DF	CO	4		36		9		9	.5		9												
DF	CO	4		38		9		9	.5		9												
DF	CO	4		39		15		15	.8		15												
DF	CO	4		40		157		157	8.2		56	101											
DF	Totals					1,906		1,906	93.8		378	172	348	523	342	142							
RA	H	2		14		10		10	7.9						10								
RA	H	3		29		4		4	3.3			4											
RA	H	3		32		32		32	25.3					16		16							
RA	H	3		40		8		8	6.5					8									
RA	H	4		20		2		2	1.8			2											
RA	H	4		23		3		3	2.2			3											
RA	H	4		29		9		9	7.4			9											
RA	H	4		40		57		57	45.6			21	36										
RA	Totals					126		126	6.2			40	36	24		26							
Total All Species						2,031		2,031	100.0		378	212	384	547	342	168							

FI		TSTNDSUM													Stand Table Summary																													
															Project															HOUSEDOG														
T02S R07W S09 TSALE															T02S R07W S09 TSALE																													
Twp		Rge		Sec		Tract		Type			Acres		Plots		Sample Trees			Page:		1																								
02S		07W		09		AREA2_GROW2		SALE			110.00		21		96			Date:		08/15/2017																								
															Time:		8:22:25AM																											
S		Sample		FF		Ht		Trees/		BA/		Logs		Average Log		Net		Net		Totals																								
Spc		DBH		Trees		16'		Tot		Acre		Acre		Acre		Net		Net		Tons		Cunits		MBF																				
DF		9				82 68		17.658 8.58 18.66		8.8 36.8		4.69 165 687		516 181 76																														
DF		10				83 80		5.721 3.43 6.05		13.7 46.0		2.37 83 278		260 91 31																														
DF		12				83 66		9.414 6.86 9.95		15.4 54.8		4.36 153 545		479 168 60																														
DF		13				81 81		10.004 8.58 19.04		11.7 46.0		6.34 223 875		698 245 96																														
DF		14				84 83		19.258 20.59 35.42		16.1 59.6		16.26 569 2,113		1,789 626 232																														
DF		16				83 86		7.736 10.29 15.01		20.5 76.3		8.78 308 1,144		966 339 126																														
DF		17				85 90		7.953 12.01 16.81		22.9 89.7		10.98 385 1,508		1,207 424 166																														
DF		18				84 99		8.932 15.44 19.93		27.0 106.0		15.35 539 2,113		1,689 593 232																														
DF		19				83 99		7.982 15.44 16.87		33.0 120.0		15.86 557 2,024		1,744 612 223																														
DF		20				84 99		4.005 8.58 8.46		36.0 127.7		8.68 305 1,081		954 335 119																														
DF		21				86 106		6.497 15.44 16.82		34.7 139.1		16.61 583 2,339		1,827 641 257																														
DF		22				84 92		1.297 3.43 2.74		42.8 143.9		3.34 117 394		368 129 43																														
DF		23				82 95		3.574 10.29 8.21		43.3 149.4		10.13 356 1,226		1,115 391 135																														
DF		24				85 104		1.608 5.15 3.96		49.5 190.8		5.58 196 755		614 216 83																														
DF		25				84 100		.497 1.72 1.05		62.5 230.2		1.87 66 242		206 72 27																														
DF		Totals				83 85		112.136 145.83 198.96		23.1 87.1		131.19 4,603 17,324		14,431 5,064 1,906																														
RA		15				78 57		2.671 3.35 2.74		25.2 74.4		1.92 69 204		211 76 22																														
RA		16				78 81		1.163 1.67 1.20		40.4 111.6		1.26 48 133		139 53 15																														
RA		18				81 63		.906 1.67 .93		44.6 111.6		1.09 41 104		119 46 11																														
RA		19				76 63		2.424 5.02 3.32		38.6 99.2		3.56 128 329		392 141 36																														
RA		23				78 59		.594 1.67 1.22		28.2 105.4		.90 34 129		99 38 14																														
RA		25				77 72		.495 1.67 1.02		46.2 167.4		1.34 47 170		147 52 19																														
RA		28				77 55		.387 1.67 .40		101.2 186.0		1.16 40 74		128 44 8																														
RA		Totals				78 63		8.640 16.75 10.82		37.7 105.6		11.23 409 1,143		1,236 449 126																														
Totals						83 83		120.776 162.58 209.79		23.9 88.0		142.43 5012 18,467		15,667 5,513 2,031																														

FI	TLOGSTVB																		
Log Stock Table - MBF																			
Project: HOUSEDOG																			
T02S R07W S15 TSALE										T02S R07W S15 TSALE									
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees		Page	1								
02S	07W	15	AREA3_GROW		SALE	45.00	8	44		Date	8/14/2017								
										Time	1:43:09PM								
S Spp	So T	Gr rt	Log de Len	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	20-23	24-29	30-39	40+
DF	CO	2	40	272	2.6	265	56.1					136	74	55					
DF	CO	3	32	40	5.4	38	7.9			24	5	8							
DF	CO	3	40	83		83	17.7			12	19	53							
DF	CO	4	16	1		1	.2		1										
DF	CO	4	17	4		4	.9		4										
DF	CO	4	20	4		4	.9		4										
DF	CO	4	21	10		10	2.2	10											
DF	CO	4	22	3		3	.7		1	2									
DF	CO	4	24	8		8	1.7		8										
DF	CO	4	25	2	20.0	1	.3				1								
DF	CO	4	26	15		15	3.2					15							
DF	CO	4	27	4		4	.9		4										
DF	CO	4	29	2		2	.5		2										
DF	CO	4	32	2		2	.4		2										
DF	CO	4	33	3		3	.7		3										
DF	CO	4	34	3		3	.6			3									
DF	CO	4	35	4		4	.8		4										
DF	CO	4	36	3		3	.7		3										
DF	CO	4	37	9		9	1.8		9										
DF	CO	4	38	4		4	.9		4										
DF	CO	4	40	4		4	.8		4										
DF	Totals			482	2.0	472	65.4	65	40	26	76	136	74	55					
RA	H	2	16	10		10	4.2						10						
RA	H	2	40	31	4.6	29	11.7					29							
RA	H	3	32	14	16.7	12	4.8				12								
RA	H	3	40	58	6.0	54	21.7				54								
RA	H	4	12	11		11	4.5			1			10						
RA	H	4	16	17		17	6.6					6			11				
RA	H	4	17	3		3	1.1			3									
RA	H	4	18	11		11	4.4						11						
RA	H	4	19	2		2	.8			2									
RA	H	4	22	4		4	1.4			4									
RA	H	4	23	3		3	1.0			3									
RA	H	4	25	5	17.5	4	1.6			4									
RA	H	4	26	19		19	7.5			6		12							
RA	H	4	27	3		3	1.3			3									
RA	H	4	33	5	20.0	4	1.5			4									
RA	H	4	35	4		4	1.7			4									
RA	H	4	39	16	11.0	15	5.9			15									
RA	H	4	40	34	4.0	33	13.1			22	11								
RA	H	4	41	13		13	5.3			13									
RA	Totals			262	4.7	249	34.6		83	11	84	29	32		11				
Total All Species				743	2.9	721	100.0	65	123	36	160	165	106	55	11				

FI		TSTNDSUM													Stand Table Summary												
Project													HOUSEDOG														
T02S R07W S15 TSALE													T02S R07W S15 TSALE														
Twp		Rge		Sec		Tract		Type			Acres		Plots		Sample Trees			Page:		1							
02S		07W		15		AREA3_GROW		SALE			45.00		8		44			Date:		08/14/2017							
																		Time:		1:43:09PM							
S Spc	T	Sample		FF	Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s													
		DBH	Trees	16'	Tot				Net	Net				Tons	Cunits	MBF											
DF		9		70	45	7.758	3.59	7.97	6.3	21.4	1.44	50	171	65	23	8											
DF		12		84	71	13.091	10.78	22.41	10.8	40.7	6.92	243	912	311	109	41											
DF		14		87	91	3.206	3.59	6.59	16.3	64.3	3.06	107	423	138	48	19											
DF		15		87	96	2.793	3.59	5.74	20.7	91.1	3.38	119	522	152	53	24											
DF		17		86	94	4.349	7.18	8.93	27.0	107.1	6.86	241	957	309	108	43											
DF		18		87	101	3.879	7.18	7.97	32.4	120.5	7.37	259	960	332	116	43											
DF		20		86	90	6.284	14.37	12.91	36.9	128.6	13.59	477	1,659	612	215	75											
DF		21		84	92	5.700	14.37	13.17	37.9	129.8	14.23	499	1,709	640	225	77											
DF		23		83	76	1.298	3.59	2.67	40.8	117.8	3.10	109	314	140	49	14											
DF		24		88	109	1.188	3.59	3.66	37.8	160.7	3.94	138	588	177	62	26											
DF		25		86	92	1.091	3.59	2.24	55.6	219.6	3.55	125	492	160	56	22											
DF		26		85	80	1.005	3.59	2.07	51.6	176.8	3.04	107	365	137	48	16											
DF		27		85	104	.930	3.59	1.91	70.4	246.4	3.83	134	470	172	61	21											
DF		29		85	108	.802	3.59	1.65	86.1	348.2	4.04	142	573	182	64	26											
DF		32		85	81	.654	3.59	1.34	83.5	278.6	3.20	112	374	144	50	17											
DF		Totals		83	81	54.026	89.80	101.21	28.3	103.7	81.55	2,861	10,492	3,670	1,288	472											
RA		14		84	60	7.000	7.10	7.09	24.1	62.2	4.71	171	441	212	77	20											
RA		15		84	61	3.018	3.55	3.06	29.2	79.1	2.46	89	242	111	40	11											
RA		16		83	63	5.258	7.10	7.99	22.2	71.6	4.87	177	572	219	80	26											
RA		17		86	84	4.621	7.10	9.36	24.0	84.8	6.17	224	794	278	101	36											
RA		18		70	35	2.047	3.55	2.07	29.0	33.9	1.65	60	70	74	27	3											
RA		19		80	69	9.128	17.74	18.50	25.1	88.2	12.76	464	1,631	574	209	73											
RA		20		78	60	4.916	10.64	8.30	32.4	94.9	7.40	269	788	333	121	35											
RA		24		75	67	2.236	7.10	3.40	61.9	188.4	5.79	211	640	261	95	29											
RA		29		78	79	.754	3.55	1.53	60.8	237.4	2.56	93	363	115	42	16											
RA		Totals		81	65	38.979	67.42	61.30	28.7	90.4	48.37	1,759	5,540	2,176	791	249											
Totals				82	74	93.005	157.22	162.51	28.4	98.7	129.91	4620	16,032	5,846	2,079	721											

FI		TLOGSTVB		Log Stock Table - MBF																	
				Project: HOUSEDOG																	
T02S R07W S16 TSALE										T02S R07W S16 TSALE											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1												
02S	07W	16	AREA4_GROW	SALE	98.00	16	98	Date	8/15/2017												
										Time	8:27:53AM										
S Spp	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	40+		
DF	CO	2	30	15	3.3	15	.9								15						
DF	CO	2	32	5		5	.3						5								
DF	CO	2	40	871	2.8	847	54.0						308	345	194						
DF	CO	3	28	2		2	.1			2											
DF	CO	3	29	3		3	.2			3											
DF	CO	3	30	3		3	.2				3										
DF	CO	3	32	65		65	4.2			12	31	22									
DF	CO	3	36	16		16	1.0			3		13									
DF	CO	3	40	452	.9	448	28.6			53	120	275									
DF	CO	4	16	4		4	.3		3	1											
DF	CO	4	18	16		16	1.0		16	1											
DF	CO	4	20	7		7	.4		6	1											
DF	CO	4	22	10		10	.6		10												
DF	CO	4	24	9		9	.6		9												
DF	CO	4	26	6		6	.4		6												
DF	CO	4	27	3		3	.2		3												
DF	CO	4	28	15		15	.9		15												
DF	CO	4	30	11		11	.7		11												
DF	CO	4	32	11		11	.7		11												
DF	CO	4	34	17		17	1.1		17												
DF	CO	4	36	2		2	.1		2												
DF	CO	4	37	2		2	.2		2												
DF	CO	4	38	14		14	.9		11	3											
DF	CO	4	39	2		2	.1		2												
DF	CO	4	40	34		34	2.2		16						18						
DF	Totals			1,597	1.8	1,568	97.1		141	78	155	310	313	345	226						
RA	H	2	28	13	11.8	11	23.5					11									
RA	H	2	40	12	20.8	9	19.9					9									
RA	H	3	40	15	5.6	14	29.9					14									
RA	H	4	16	4		4	8.4			4											
RA	H	4	22	3		3	6.3			3											
RA	H	4	30	7	20.0	6	12.0			6											
RA	Totals			53	11.6	47	2.9			13		14	20								
Total All Species				1,650	2.1	1,615	100.0		141	91	155	324	333	345	226						

Stand Table Summary																
FI		TSTNDSUM														
Project										HOUSED OG						
T02S R07W S16 TSALE													T02S R07W S16 TSALE			
Twp	Rge	Sec	Tract		Type			Acres		Plots	Sample Trees			Page: 1		
02S	07W	16	AREA4_GROW2		SALE			98.00		16	98			Date: 08/15/2017		
													Time: 8:27:52AM			
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.		Net Bd.Ft.	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
DF		11		86	88	1.869	1.29	3.84	8.9	42.9	.97	34	165	95	33	16
DF		12		92	74	1.571	1.29	3.23	10.7	48.2	.98	35	156	96	34	15
DF		14		87	91	4.616	5.17	9.48	17.0	68.3	4.57	161	648	448	158	63
DF		15		85	90	3.016	3.88	6.19	20.6	76.8	3.63	128	476	356	125	47
DF		16		89	92	7.069	10.34	13.61	24.7	101.4	9.57	336	1,381	938	330	135
DF		17		86	87	4.696	7.76	9.65	24.3	97.3	6.67	234	939	653	230	92
DF		18		87	92	7.680	14.22	15.77	30.3	110.5	13.81	477	1,744	1,353	468	171
DF		19		88	92	3.760	7.76	7.72	33.2	124.1	7.29	256	958	715	251	94
DF		20		87	99	5.655	12.93	12.20	38.1	133.7	13.20	464	1,630	1,294	455	160
DF		21		87	97	5.642	14.22	12.12	41.8	153.7	14.39	506	1,862	1,411	496	183
DF		23		88	100	6.076	16.81	13.44	46.2	183.7	17.67	621	2,468	1,731	609	242
DF		24		87	92	2.138	6.47	4.83	45.5	174.3	6.26	220	842	613	216	83
DF		25		88	105	1.964	6.47	4.44	55.8	231.8	7.05	248	1,028	691	243	101
DF		26		87	105	.724	2.59	1.49	68.0	273.2	2.87	101	406	282	99	40
DF		27		87	98	1.338	5.17	2.75	64.0	253.1	5.00	176	696	490	172	68
DF		28		86	94	.621	2.59	1.27	73.4	278.6	2.66	94	355	261	92	35
DF		29		88	111	.289	1.29	.89	59.6	275.0	1.51	53	244	148	52	24
DF		Totals		87	94	58.722	120.25	122.92	33.7	130.2	118.10	4,144	15,998	11,574	4,061	1,568
RA		14		88	47	1.260	1.28	1.28	17.3	45.2	.61	22	58	59	22	6
RA		18		88	80	.737	1.28	1.49	28.5	113.0	1.17	43	169	115	42	17
RA		19		89	77	.657	1.28	1.33	26.9	107.4	.99	36	143	97	35	14
RA		23		87	72	.440	1.28	.89	44.1	124.3	1.08	39	111	106	39	11
RA		Totals		88	65	3.094	5.11	4.99	28.0	96.2	3.84	140	480	377	137	47
Totals				87	92	61.816	125.36	127.91	33.5	128.8	121.95	4284	16,478	11,951	4,198	1,615

FI	TLOGSTVB																			Log Stock Table - MBF											
																				Project: HOUSEDOG											
T02S R07W S21 TSALE																				T02S R07W S21 TSALE											
Twp		Rge		Sec		Tract				Type		Acres		Plots		Sample Trees				Page		1									
02S		07W		21		AREA5_GROW				SALE		118.00		17		98				Date		9/21/2017									
																				Time		3:56:29PM									
S Spp		So Gr rt de		Log Len		Gross MBF		% Def		Net MBF		% Spc		Net Volume by Scaling Diameter in Inches																	
														2-3		4-5		6-7		8-9		10-11		12-13		14-15		16-19		20-23	
DF		CO		2		17		6				6		.2								6									
DF		CO		2		20		35		3.8		34		1.3								15		19							
DF		CO		2		30		20		3.3		19		.7										19							
DF		CO		2		32		23		14.0		19		.7										19							
DF		CO		2		36		19				19		.7								19									
DF		CO		2		40		1,224		2.4		1,194		45.9						419		284		432		59					
DF		CO		3		32		156		5.0		149		5.7				85		64											
DF		CO		3		34		3				3		.1				3													
DF		CO		3		40		857		.9		849		32.7				186		316		347									
DF		CO		4		15		12		50.0		6		.2		6															
DF		CO		4		16		5				5		.2		2		3													
DF		CO		4		17		5				5		.2		3		2													
DF		CO		4		18		13				13		.5		8		5													
DF		CO		4		20		24				24		.9		21		2		2											
DF		CO		4		22		22				22		.8		20				2											
DF		CO		4		24		15				15		.6		13		2													
DF		CO		4		26		29				29		1.1		27		2													
DF		CO		4		28		38				38		1.5		38															
DF		CO		4		30		16				16		.6		16															
DF		CO		4		32		16				16		.6		16															
DF		CO		4		34		15				15		.6		15															
DF		CO		4		35		9				9		.3		9															
DF		CO		4		36		18				18		.7		13		5													
DF		CO		4		37		4				4		.1		4															
DF		CO		4		38		15				15		.6		15															
DF		CO		4		39		4				4		.1		4															
DF		CO		4		40		54				54		2.1		54															
DF		Totals						2,656		2.1		2,599		100.0		283		210		404		411		453		309		471		59	
Total All Species								2,656		2.1		2,599		100.0		283		210		404		411		453		309		471		59	

FI		TSTNDSUM													Stand Table Summary												
Project													HOUSEDOG														
T02S R07W S21 TSALE													T02S R07W S21 TSALE														
Twp	Rge	Sec	Tract		Type			Acres		Plots		Sample Trees			Page: 1												
02S	07W	21	AREA5_GROW		SALE			118.00		17		98			Date: 09/21/2017												
													Time: 3:44:34PM														
S Spc	T	Sample		FF	Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s													
		DBH	Trees	16'	Tot				Net Cu.Ft.	Net Bd.Ft.		Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF											
DF		8		68	17	4.620	1.69	4.75	3.8	10.7	.51	18	51	60	21	6											
DF		9		89	48	3.651	1.69	3.75	7.1	32.1	.76	27	121	89	31	14											
DF		10		90	54	5.914	3.38	6.07	10.3	37.5	1.77	62	228	209	74	27											
DF		11		86	120	4.888	3.38	10.04	12.1	53.6	3.46	122	538	409	144	63											
DF		12		83	89	4.107	3.38	8.44	11.9	45.5	2.86	101	384	337	119	45											
DF		13		83	95	13.998	13.52	28.75	14.7	54.2	12.04	424	1,559	1,420	500	184											
DF		14		82	102	7.544	8.45	15.49	18.0	68.6	7.91	278	1,062	933	328	125											
DF		15		84	98	5.257	6.76	10.80	21.6	84.4	6.62	233	911	781	275	108											
DF		16		86	102	9.241	13.52	18.98	25.0	98.4	13.48	475	1,868	1,591	560	220											
DF		17		85	103	4.093	6.76	8.41	26.7	101.8	6.39	225	856	754	265	101											
DF		18		87	99	4.563	8.45	9.37	32.6	120.0	8.67	305	1,125	1,023	360	133											
DF		19		87	105	3.277	6.76	8.41	28.9	118.9	6.90	243	1,000	815	287	118											
DF		20		84	105	7.393	16.90	15.18	40.9	138.2	17.64	621	2,099	2,081	732	248											
DF		21		85	104	5.364	13.52	12.40	39.3	139.9	14.34	488	1,734	1,692	575	205											
DF		23		84	108	2.444	6.76	5.65	46.4	176.2	7.45	262	995	879	309	117											
DF		24		88	111	.559	1.69	1.72	38.9	171.4	1.90	67	295	225	79	35											
DF		25		84	113	4.620	15.21	11.60	51.8	212.3	17.07	601	2,463	2,014	709	291											
DF		26		86	108	2.839	10.14	5.35	63.1	266.9	9.59	337	1,426	1,131	398	168											
DF		27		84	117	2.187	8.45	5.84	60.3	254.7	10.01	352	1,487	1,181	416	175											
DF		28		88	83	.406	1.69	.83	58.1	262.5	1.38	48	219	162	57	26											
DF		29		89	110	1.132	5.07	2.71	74.7	329.1	5.76	203	892	679	239	105											
DF		31		85	129	.329	1.69	1.01	75.4	342.8	2.17	76	347	256	90	41											
DF		32		86	130	.308	1.69	.95	82.8	389.3	2.23	79	369	263	93	44											
DF		Totals		84	94	98.732	160.58	196.50	28.7	112.1	160.89	5,645	22,029	18,985	6,661	2,599											
Totals				84	94	98.732	160.58	196.50	28.7	112.1	160.89	5645	22,029	18,985	6,661	2,599											

FI	TLOGSTVB																	Log Stock Table - MBF																					
										Project: HOUSEDOG																													
T02S R07W S21 TSALE																				T02S R07W S21 TSALE																			
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		1																					
02S		07W		21		AREA6_GROW		SALE		96.00		19		127		Date		9/21/2017																					
										Time										3:29:54PM																			
S				So Gr		Log		Gross		%		Net		%		Net Volume by Scaling Diameter in Inches																							
Spp				T				MBF		Def		MBF		Spc		2-3		4-5		6-7		8-9		10-11		12-13		14-15		16-19		20-23		24-29		30-39		40+	
DF				CO		2 18		13				13		.5																13									
DF				CO		2 20		8				8		.3														8											
DF				CO		2 22		47				47		1.6										14		17		16											
DF				CO		2 28		18				18		.6												18													
DF				CO		2 36		23		14.8		20		.7																20									
DF				CO		2 40		1,137		.4		1,132		38.1										519		360		253											
DF				CO		3 20		7				7		.2								7																	
DF				CO		3 24		6				6		.2								6																	
DF				CO		3 30		8				8		.3								8																	
DF				CO		3 38		2				2		.1						2																			
DF				CO		3 40		1,333		.1		1,333		44.9				208		506		597		21															
DF				CO		4 12		2				2		.1		1		1																					
DF				CO		4 13		5				5		.2		4		1																					
DF				CO		4 14		10				10		.3		3												7											
DF				CO		4 15		10				10		.3		9		1																					
DF				CO		4 16		12				12		.4		12																							
DF				CO		4 17		10				10		.3		10																							
DF				CO		4 18		7				7		.2		5		2																					
DF				CO		4 19		3				3		.1		3																							
DF				CO		4 20		14				14		.5		5		9																					
DF				CO		4 21		14				14		.5		12		2																					
DF				CO		4 22		32		8.7		29		1.0		17												13											
DF				CO		4 23		7				7		.2		7																							
DF				CO		4 25		13				13		.5		13																							
DF				CO		4 26		6				6		.2		4		2																					
DF				CO		4 27		2		33.3		1		.0		1																							
DF				CO		4 28		6				6		.2		6																							
DF				CO		4 29		10				10		.3		7		3																					
DF				CO		4 30		31				31		1.0		31																							
DF				CO		4 31		10				10		.3		7		3																					
DF				CO		4 32		4				4		.1		4																							
DF				CO		4 33		9				9		.3		9																							
DF				CO		4 34		10				10		.3		10																							
DF				CO		4 35		26				26		.9		26																							
DF				CO		4 36		52				52		1.8		52																							
DF				CO		4 37		7				7		.2		7																							
DF				CO		4 38		16				16		.5		16																							
DF				CO		4 39		6				6		.2		6																							
DF				CO		4 40		45				45		1.5		40		5																					
DF				Totals				2,983				2,971		99.3		329		227		524		612		554		403		321											
RA				H		2 40		17				17		85.3												17													
RA				H		4 30		3				3		14.7				3																					
RA				Totals				20				20		.7				3								17													
Total All Species								3,004				2,991		100.0		329		230		524		612		554		421		321											

Stand Table Summary																
Project HOUSEDOG																
T02S R07W S21 TSALE													T02S R07W S21 TSALE			
Twp	Rge	Sec	Tract	Type				Acres		Plots	Sample Trees		Page:	1		
02S	07W	21	AREA6_GROW	SALE				96.00		19	127		Date:	09/21/2017		
													Time:	3:28:31PM		
S Spc	T	Sample		FF	Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s		
		DBH	Trees	16'	Tot				Net Cu.Ft.	Net Bd.Ft.		Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
DF		10		86	79	3.155	1.63	3.44	10.1	50.4	.99	35	173	95	33	17
DF		12		84	80	6.541	4.90	9.44	13.8	53.4	3.72	130	504	357	125	48
DF		13		82	77	7.256	6.54	13.72	12.4	48.6	4.86	171	666	467	164	64
DF		14		84	97	6.171	6.54	13.46	16.5	62.7	6.32	222	844	607	213	81
DF		15		84	101	9.323	11.44	18.80	20.8	83.1	11.13	391	1,562	1,068	375	150
DF		16		85	99	17.035	24.52	37.15	22.7	92.8	24.08	845	3,446	2,312	811	331
DF		17		85	107	9.049	14.71	19.73	27.6	116.9	15.51	544	2,307	1,489	522	222
DF		18		85	106	8.951	16.35	18.56	31.4	128.4	16.59	582	2,383	1,593	559	229
DF		19		84	110	8.741	17.98	20.83	33.0	129.2	19.62	688	2,691	1,883	661	258
DF		21		84	115	6.371	14.71	16.98	34.2	137.4	16.54	580	2,332	1,588	557	224
DF		22		84	110	5.749	14.71	12.54	44.8	172.1	15.99	561	2,158	1,535	539	207
DF		23		84	112	4.721	13.08	11.59	45.4	174.6	15.01	527	2,024	1,441	506	194
DF		24		84	114	5.907	17.98	15.81	44.9	183.7	20.25	711	2,905	1,944	682	279
DF		25		85	128	2.898	9.81	8.95	47.9	214.0	12.21	429	1,917	1,172	411	184
DF		26		85	131	2.237	8.17	6.83	53.4	243.7	10.40	365	1,666	998	350	160
DF		27		80	112	1.227	4.90	2.67	72.2	268.6	5.50	193	718	528	185	69
DF		28		81	116	1.512	6.54	3.71	67.5	264.4	7.14	250	981	685	240	94
DF		29		83	131	.351	1.63	1.15	62.5	277.0	2.04	72	318	196	69	30
DF		30		83	126	.652	3.27	2.13	66.0	281.2	4.01	141	600	385	135	58
DF		31		82	101	.315	1.63	.69	91.0	327.4	1.78	62	225	171	60	22
DF		32		82	135	.284	1.63	.93	78.0	348.3	2.06	72	324	198	70	31
DF		34		72	111	.266	1.63	.58	113.7	346.2	1.88	66	201	180	63	19
DF		Totals		84	103	108.711	204.34	239.70	31.9	129.1	217.65	7,637	30,945	20,894	7,331	2,971
RA		26		78	95	.428	1.56	.89	68.0	236.0	1.67	61	211	160	58	20
RA		Totals		78	95	.428	1.56	.89	68.0	236.0	1.67	61	211	160	58	20
Totals				84	103	109.139	205.90	240.59	32.0	129.5	219.32	7698	31,156	21,055	7,390	2,991



"STEWARDSHIP IN FORESTRY"

Doghouse

Volume Summary

Area 1-Modified Clearcut				
97 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	17.571	1704	1%	1687
TOTAL	17.571	1704		1687

Area 2-Modified Clearcut				
110 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	17.3	1906	1%	1887
Alder	1.14	126	2%	123
TOTAL	18.5	2031		2010

Area 3-Modified Clearcut				
45 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	10.5	472	1%	467
Red Alder	5.5	249	2%	244
TOTAL	16.0	721		712

Areas 4-Harvest Type				
98 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	16.0	1568	1%	1552
Alder	0.5	47	2%	46
TOTAL	16.5	1615		1598

Area 5-Modified Clearcut				
118 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	22.0	2599	1%	2573
Western hemlock		0		
Alder		0		



"STEWARDSHIP IN FORESTRY"

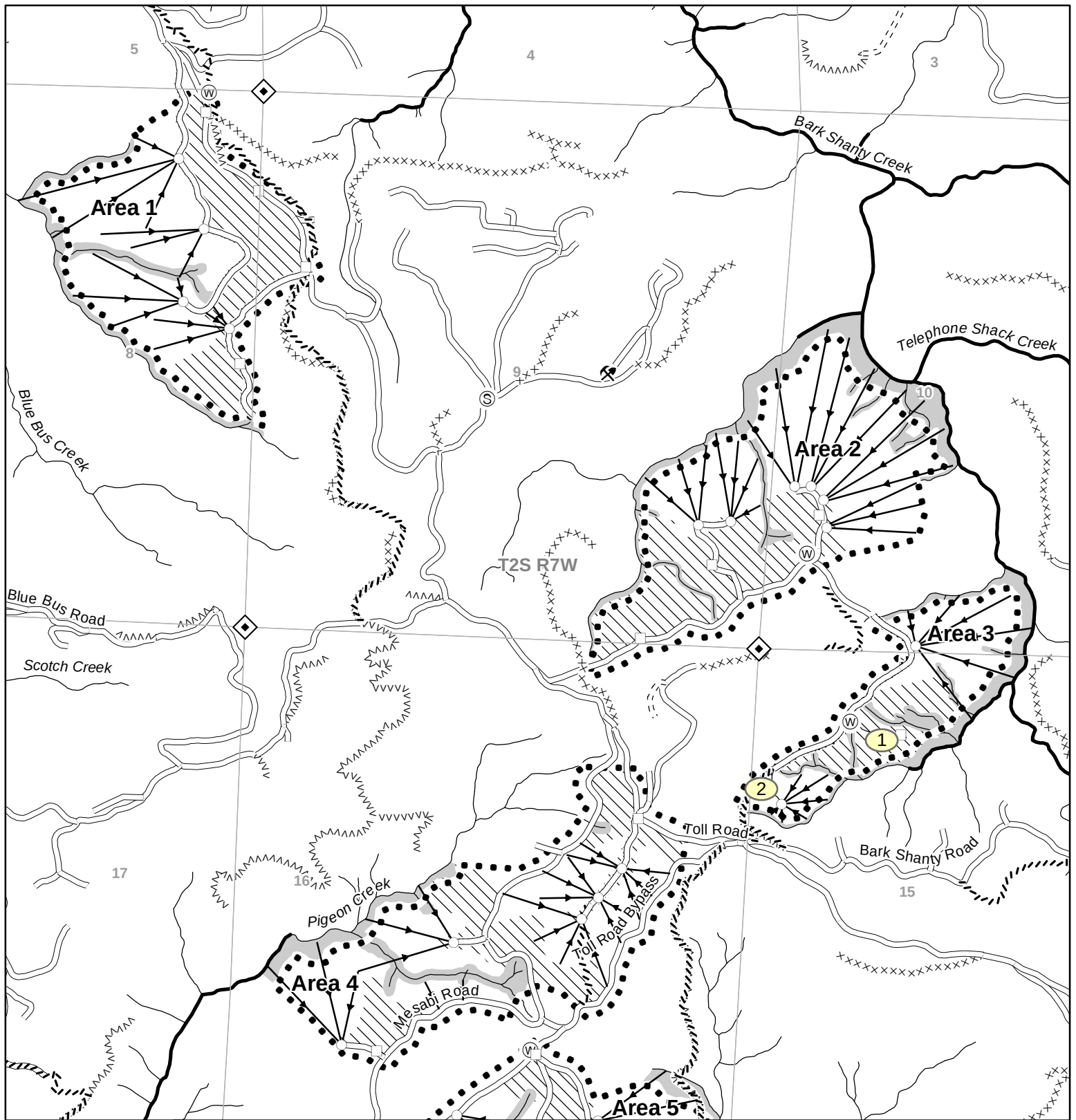
Doghouse

Volume Summary

TOTAL	22.0	2599		2573
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Area 6-Modified Clearcut				
96 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	30.9	2971	1%	2941
Alder	0.2	20	2%	20
TOTAL	31.2	2991		2961

TOTAL SALE VOLUME			564	acres
SPECIES	Cruised Net (MBF)		Net Sale (MBF)	
Douglas-fir	11220		11108	
Western hemlock	0		0	
Red Alder	442		433	
TOTAL	11662		11541	



- Buffer
- Non-required thinning
- Cable yarding
- Ground yarding
- Designated Campsite
- Rock source
- Stock pile
- Waste area
- Survey corner
- Cable yarding
- Ground Landing
- Yarder Landing
- Fish stream
- Non-fish stream
- Unsurfaced road
- Surfaced road
- Paved road
- Abandoned road
- Swing road
- Non-project road
- Blocked road
- OHV trail
- Non-motorized trail
- Sale boundary
- Gate

LOGGING PLAN
 Timber Sale Contract No. 341-18-056
DOGHOUSE
 Portions of Sections 5, 8, 9, 10, 15, 16, 21, & 22,
 T2S, R7W, W.M.,
 Tillamook County, Oregon

1,000 0 1,000 Feet

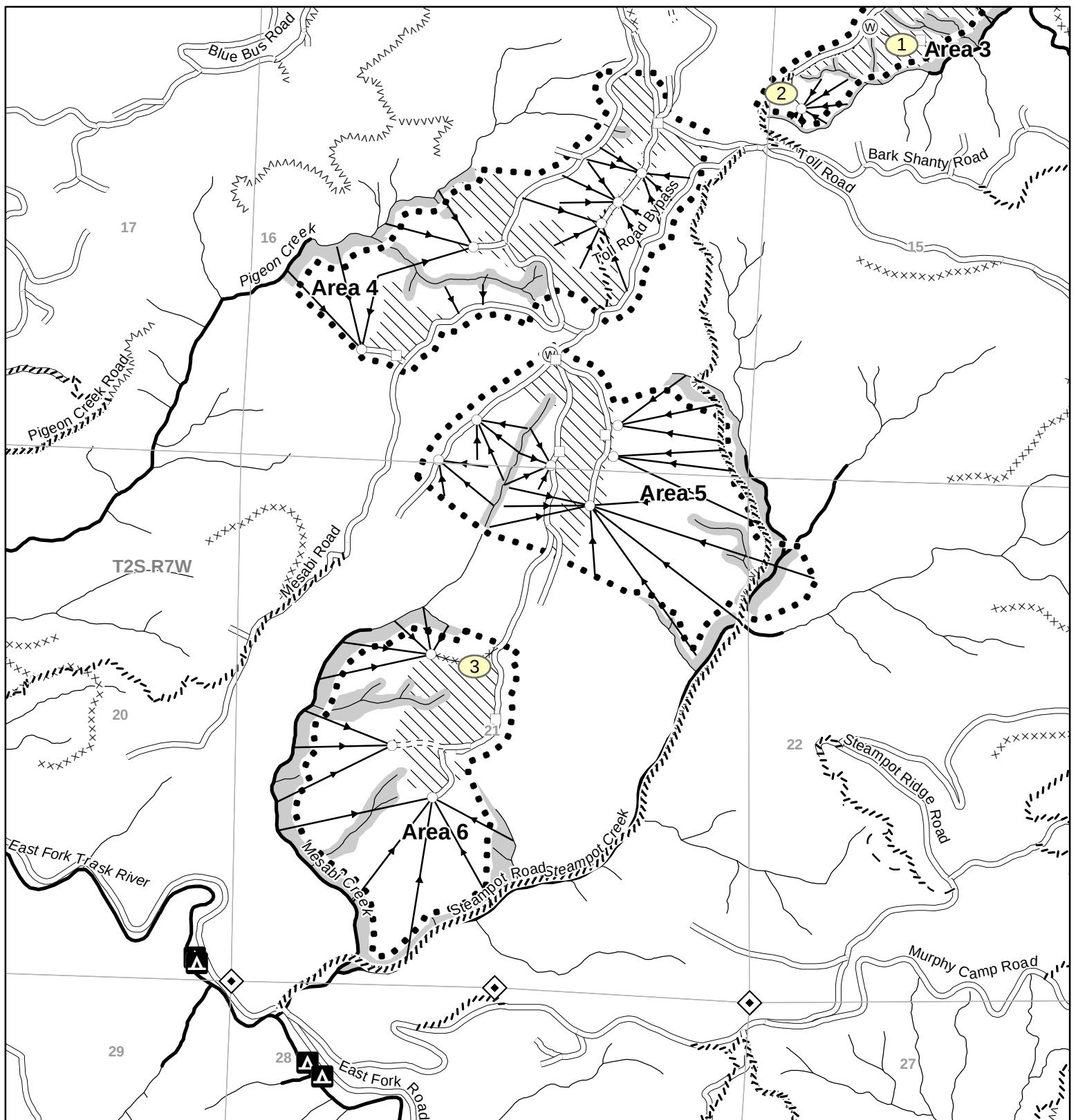
Tillamook District GIS

9/28/2017

This product is for informational use and may not have been prepared or suitable for legal, engineering, or surveying purposes.



Area	Type of Operation	Acres	
		Gross	Net
1	Modified Clearcut	113	97
2	Modified Clearcut	141	110
3	Modified Clearcut	64	45
4	Modified Clearcut	118	98
5	Modified Clearcut	144	118
6	Modified Clearcut	134	96
Total		714	564



- Buffer
- Non-required thinning
- Cable yarding
- Ground yarding
- Designated Campsite
- Rock source
- Stock pile
- Waste area
- Survey corner
- Cable yarding
- Ground Landing
- Yarder Landing
- Fish stream
- Non-fish stream
- Unsurfaced road
- Surfaced road
- Paved road
- Abandoned road
- Swing road
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LOGGING PLAN
 Timber Sale Contract No. 341-18-056
DOGHOUSE
 Portions of Sections 5, 8, 9, 10, 15, 16, 21, & 22,
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 Tillamook County, Oregon

1,000 0 1,000 Feet

Tillamook District GIS
 9/28/2017
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 legal, engineering, or surveying purposes.



Area	Type of Operation	Acres	
		Gross	Net
1	Modified Clearcut	113	97
2	Modified Clearcut	141	110
3	Modified Clearcut	64	45
4	Modified Clearcut	118	98
5	Modified Clearcut	144	118
6	Modified Clearcut	134	96
Total		714	564