



"STAND FOR THE FOREST"

Timber Sale Appraisal Round House

Sale FG-341-2015-17-

District: Forest Grove

Date: March 05, 2015

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$4,412,556.36	\$0.00	\$4,412,556.36
		Project Work:	(\$199,550.00)
		Advertised Value:	\$4,213,006.36



Timber Sale Appraisal Round House

Sale FG-341-2015-17-

District: Forest Grove

Date: March 05, 2015

Timber Description

Location: Portions of Sections 35 and 36, T3N, R6W,
and Section 1, T2N, R6W, W.M.,

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	19	0	98

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	6,163	2,512	577	9,252
Total	6,163	2,512	577	9,252

Comments: Pond Values Used: 4th Quarter Calendar Year 2014.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
 $\$306.13/\text{MBF} = \$515/\text{MBF} - \$208.87/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$966.13/\text{MBF} = \$1,175/\text{MBF} - \$208.87/\text{MBF}$

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
 $\$426.13/\text{MBF} = \$635/\text{MBF} - \$208.87/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

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

Other Costs (with Profit & Risk to be added):
Brand and Paint: 9,252 MBF @ \$2/MBF = \$18,504
Non Project Road: 8.4 stations @ \$100/sta. = \$840
TOTAL Other Costs (with Profit & Risk to be added) = \$19,344

Other Costs (No Profit & Risk added):
Machine time to block/waterbar roads, and skid trails:
20 Hours @ \$150/Hour = \$3,000
Equipment Cleaning: 4 @ \$1,000 each = \$4,000
Machine time to pile landing slash and sort firewood:
40 Hours @ \$150/Hour = \$6,000
Slash Treatment : 60 acres @ \$150/acre = \$9,000
TOTAL Other Costs (No Profit & Risk added) = \$22,000

ROAD MAINTENANCE
Move-in: \$2,000
General Road Maintenance : 4.7 miles x \$1,000/mile = \$4,700
TOTAL: \$6,700 / 9,252 MBF = \$.72/MBF



Timber Sale Appraisal Round House

Sale FG-341-2015-17-

District: Forest Grove

Date: March 05, 2015

Logging Conditions

Combination#: 1 Douglas - Fir 11.01%

Logging System: Shovel **Process:** Harvester Head Delimbing

yarding distance: Medium (800 ft) **downhill yarding:** No

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

loads / day: 18 **bd. ft / load:** 4100

cost / mbf: \$72.41

machines: Forwarder
Harvester

Combination#: 2 Douglas - Fir 0.75%

Logging System: Cable: Small Tower <=40 **Process:** Stroke Delimber

yarding distance: Short (400 ft) **downhill yarding:** No

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

loads / day: 12 **bd. ft / load:** 4100

cost / mbf: \$113.82

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

Combination#: 3 Douglas - Fir 25.04%

Logging System: Cable: Small Tower <=40 **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: 14 **bd. ft / load:** 4600

cost / mbf: \$86.96

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

Combination#: 4 Douglas - Fir 63.20%

Logging System: Shovel **Process:** Harvester Head Delimbing

yarding distance: Short (400 ft) **downhill yarding:** No

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

loads / day: 14 **bd. ft / load:** 4600

cost / mbf: \$82.98

machines: Forwarder
Harvester



STRONGER FORESTRY

Timber Sale Appraisal Round House

Sale FG-341-2015-17-

District: Forest Grove

Date: March 05, 2015

Logging Costs

Operating Seasons: 2.00	Profit Risk: 15%
Project Costs: \$199,550.00	Other Costs (P/R): \$19,344.00
Slash Disposal: \$0.00	Other Costs: \$22,000.00

Miles of Road

Road Maintenance: \$0.72

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	4.5



"STRENGTH IN FORESTRY"

Timber Sale Appraisal Round House

Sale FG-341-2015-17-

District: Forest Grove

Date: March 05, 2015

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$83.04	\$0.73	\$0.95	\$88.40	\$2.09	\$26.28	\$0.00	\$5.00	\$2.38	\$208.87

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$685.80	\$476.93	\$0.00



Timber Sale Appraisal Round House

Sale FG-341-2015-17-

District: Forest Grove

Date: March 05, 2015

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	9,252	\$476.93	\$4,412,556.36

Gross Timber Sale Value

Recovery: \$4,412,556.36

Prepared By: Eric Foucht

Phone: 503-359-7473

TIMBER SALE SUMMARY
Round House
Contract No. 341-15-17

1. **Location:** Portions of Sections 35, & 36, T3N, R6W, and of Section 1, T2N, R6W, W.M., Washington County, Oregon, and Section 25, T3N, R6W, W.M., Tillamook County Oregon.
2. **Type of Sale:** This timber sale is a 231 acre combination sale consisting of 166 acres of modified clearcut, 62 acres of moderate partial cut, and 3 acres of right-of-way. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF, 89% Washington County, and 11% Tillamook County, Tax Code 56-1.
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise:** The Timber Sale was cruised by ODF Cruisers in August of 2014. For more information see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of medium to well stocked 65 and 70 year old Douglas-fir stands with minor amounts of western hemlock, western red cedar, true firs, and hardwoods. The following table summarizes estimated stand averages for Douglas-fir 'Take' trees only:

	Trees/Acre	Average Diameter	Net MBF Per Acre
Area 1	120	19"	53.2
Area 2	78	24"	44.3
Area 3	127	19"	47.4
Area 4	110	20"	50.4
Area 5	113	14"	16.2

7. **Topography and Logging Method:** Slopes within the sale areas range from 2% to 70% and are variable in aspect. The following table summarizes average and maximum yarding distances and yarding method by percent for each sale area.

	Area 1			Area 2			Area 3			Area 4			Area 5		
	Ave	Max	%	Ave	Max	%	Ave	Max	%	Ave	Max	%	Ave	Max	%
Tractor	280	350	94	220	290	59	215	230	52	100	120	21	260	300	94
Cable	273	323	6	150	341	41	240	339	48	240	340	79	170	284	6

Yarding distances shown are ½ the average and longest horizontal cable corridor length or estimated skid trail length.

Construction of one Non Project "Operator Spur" may be necessary to facilitate yarding in Area 1

8. **Access:** Access is over open all-weather roads. A portion of the haul route will be constructed as part of the Project Work associated with this sale. From Forest Grove, travel north on Highway 8 to its junction with Highway 6. Turn left and travel west approximately 3.5 miles to Timber Road. Turn right, proceed north on Timber Road approximately 6.5 miles and turn onto Cochran Road. Continue west on Cochran Road for 3.8 miles to Round Top Road. Turn onto Round Top Road and continue for 0.3 miles across the train tracks to the southeast corner of Area 1.

9. Projects:

Project No. 1: Road Construction and Improvement	\$69,353.52
Project No. 2: Road Surfacing	\$121,452.76
Project No. 3: Grass Seed, Fertilize and Mulch	\$3,026.88
Move in and equipment cleaning:	\$5,709.71

Total Credit for all Projects (rounded)	\$199,550
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PROJECT COST SUMMARY SHEETTimber Sale: Round HouseSale Number: 341-15-17**PROJECT NO. 1: ROAD CONSTRUCTION AND IMPROVEMENT**CONSTRUCTION

Road Segment	Length	Cost
G to H	3+00	\$974.73
I to J	7+25	\$2,063.26
K to L	62+20	\$25,189.37
M to N	10+90	\$3,276.32
O to P	3+70	\$1,211.40
Q to R	44+50	\$26,296.35
S to T	2+00	\$725.48
U to V	3+50	\$1,167.35
W to X	2+30	\$820.56
	139+35	stations
	2.64	miles

SUBTOTAL CONSTRUCTION \$61,724.82IMPROVEMENTS

Road Segment	Length	Cost
A to B	71+20	\$2,883.60
C to D	64+30	\$3,949.80
E to F	21+40	\$795.40
	156+90	stations
	2.97	miles

SUBTOTAL IMPROVEMENTS \$7,628.80**TOTAL PROJECT NO. 1 COST =** \$69,353.62**PROJECT NO. 2: SURFACING**

Road Segment	Amount	Type	Cost
A to B	24 cy	Pit-Run	\$202.08
C to D	364 cy	1 1/2" -0"	\$5,067.80
	150 cy	Pit-Run	\$1,414.50
E to F	150 cy	Pit-Run	\$1,540.50
G to H	375 cy	Pit-Run	\$3,075.00
I to J	691 cy	Pit-Run	\$6,916.91
K to L	72 cy	1 1/2" -0"	\$1,025.28
	4,439 cy	Pit-Run	\$39,775.68
	48 cy	36"-24" Riprap	\$774.72
M to N	1,150 cy	Pit-Run	\$10,888.13
O to P	441 cy	Pit-Run	\$4,021.92
Q to R	132 cy	1 1/2" -0"	\$1,917.96
	3,523 cy	Pit-Run	\$32,841.70
	160 cy	24"-6" Riprap	\$1,516.80
	36 cy	36"-24" Riprap	\$591.48
S to T	310 cy	Pit-Run	\$2,737.30
U to V	428 cy	Pit-Run	\$4,023.20
W to X	330 cy	Pit-Run	\$3,121.80
Total	568 cy	1 1/2" -0"	
	12,011 cy	Pit-Run	
	160 cy	24"-6" Riprap	
	84 cy	36"-24" Riprap	

TOTAL PROJECT NO. 2 COST = \$121,452.76**PROJECT NO. 3: GRASS SEED, FERTILIZE, & MULCH****TOTAL PROJECT NO. 3 COST =** \$3,026.88**MOVE IN & EQUIPMENT CLEANING**

Grader	\$451.20
Loader (Med. & Large)	\$688.44
Roller (smooth/grid) & Compactor	\$484.93
Excavator - Equipment Cleaning	\$1,733.95
Tractor (D8) - Equipment Cleaning	\$1,741.19
Dump Trucks (10 cy +)	\$610.00

TOTAL MOVE IN & EQUIPMENT CLEANING COST = \$5,709.71**TOTAL ALL PROJECTS** \$199,542.97**TOTAL CREDITS** \$199,550.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: A to B

Timber Sale No. : 341-15-17
Improvement: 71+20 stations
1.35 miles

PROJECT NO. 1

EXCAVATION

Grade, Ditch, and Roll 71.20 sta @ \$40.50 per sta = \$2,883.60
TOTAL EXCAVATION COSTS= \$2,883.60

PROJECT NO. 1 TOTAL COST = \$2,883.60

PROJECT NO. 2:

SURFACING

6 " deep = 36 cy/sta
Turnaround 24 cy of Pit-Run @ \$8.42 per cy = \$202.08
Total = 24
24 cy of Pit-Run \$8.42 per cy = \$202.08

PROJECT NO. 2 TOTAL COST = \$202.08

TOTAL COST = \$3,085.68

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: C to D

Timber Sale No. : 341-15-17
Improvement: 64+30 stations
1.22 miles

PROJECT NO. 1

EXCAVATION

Culvert Cleaning	15	ea @	\$25.00	per ea =	\$375.00	
Grade, Ditch, and Roll	64.30	sta @	\$36.00	per sta =	\$2,314.80	
					TOTAL EXCAVATION COSTS=	\$2,689.80

CULVERTS - MATERIALS & INSTALLATION

Culverts

60 LF of 18" \$1,200.00

Culvert Markers

6 markers \$60.00

TOTAL CULVERT COSTS = \$1,260.00

PROJECT NO. 1 TOTAL COST = \$3,949.80

PROJECT NO. 2:

Spot Rock	340	cy of	1 1/2"-0"	@	\$13.97	per cy =	\$4,749.80
Landing	150	cy of	Pit-Run	@	\$9.43	per cy =	\$1,414.50
Culvert Bedding & Fill	24	cy of	1 1/2"-0"	@	\$13.25	per cy =	\$318.00
Total =	514						
	340	cy of	1 1/2"-0"		\$13.97	per cy =	\$4,749.80
	24	cy of	1 1/2"-0"		\$13.25	per cy =	\$318.00
	150	cy of	Pit-Run		\$9.43	per cy =	\$1,414.50

PROJECT NO. 2 TOTAL COST = \$6,482.30

TOTAL COST = \$10,432.10

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: E to F

Timber Sale No. : 341-15-17
Improvement: 21+40 stations
0.41 miles

PROJECT NO. 1

EXCAVATION

Culvert Cleaning	1	ea @	\$25.00	per ea =	\$25.00
Grade, Ditch, and Roll	21.40	sta @	\$36.00	per sta =	\$770.40
TOTAL EXCAVATION COSTS=					\$795.40

PROJECT NO. 1 TOTAL COST = \$795.40

PROJECT NO. 2:

SURFACING

	10	" deep =	53 cy/sta		
Landing	150	cy of	Pit-Run	@	\$10.27 per cy = \$1,540.50
Total =	150				
	150	cy of	Pit-Run		\$10.27 per cy = \$1,540.50

PROJECT NO. 2 TOTAL COST = \$1,540.50

TOTAL COST = \$2,335.90

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: G to H

Timber Sale No. : 341-15-17
Construction: 3+00 stations
0.06 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.21	acres @	\$1,078.00	per acre =	\$222.73
Balanced Road Construction	3.00	sta @	\$110.00	per sta =	\$330.00
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, Ditch, and Roll	3.00	sta @	\$36.00	per sta =	\$108.00
TOTAL EXCAVATION COSTS=					\$974.73

PROJECT NO. 1 TOTAL COST = \$974.73

PROJECT NO. 2:

SURFACING	12	" deep =	65 cy/sta		
G to H	195	cy of	Pit-Run	@	\$8.20 per cy = \$1,599.00
Landing	180	cy of	Pit-Run	@	\$8.20 per cy = \$1,476.00
Total =	375				
	375	cy of	Pit-Run		\$8.20 per cy = \$3,075.00

PROJECT NO. 2 TOTAL COST = \$3,075.00

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil.	0.10	acres @	\$425.00	per acre =	\$43.90
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PROJECT NO. 3 TOTAL COST = \$43.90

TOTAL COST = \$4,093.63

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: I to J

Timber Sale No. : 341-15-17
Construction: 7+25 stations
0.14 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.50	acres @	\$1,078.00	per acre =	\$538.26
Balanced Road Construction	6.25	sta @	\$110.00	per sta =	\$687.50
Drift	1.00	sta @	\$180.00	per sta =	\$180.00
Construct Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, Ditch, and Roll	7.25	sta @	\$36.00	per sta =	\$261.00
TOTAL EXCAVATION COSTS=					\$2,063.26

PROJECT NO. 1 TOTAL COST = \$2,063.26

PROJECT NO. 2:

SURFACING	12	" deep =	65 cy/sta		
I to J	471	cy of	Pit-Run @	\$10.01 per cy =	\$4,714.71
Turnaround	20	cy of	Pit-Run @	\$10.01 per cy =	\$200.20
Junction	20	cy of	Pit-Run @	\$10.01 per cy =	\$200.20
Landing	180	cy of	Pit-Run @	\$10.01 per cy =	\$1,801.80
Total =	691				
	691	cy of	Pit-Run	\$10.01 per cy =	\$6,916.91

PROJECT NO. 2 TOTAL COST = \$6,916.91

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil.	0.25	acres @	\$425.00	per acre =	\$106.10
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PROJECT NO. 3 TOTAL COST = \$106.10

TOTAL COST = \$9,086.27

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: K to L

Timber Sale No. : 341-15-17
Construction: 62+20 stations
1.18 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	5.71	acres @	\$1,078.00	per acre =	\$6,157.17
Endhaul Stumps - Full Bench Stations					\$463.00
Balanced Road Construction	53.70	sta @	\$110.00	per sta =	\$5,907.00
Drift	4.50	sta @	\$180.00	per sta =	\$810.00
Full Bench -Drift	4.00	sta @	\$360.00	per sta =	\$1,440.00
Construct Turnouts	4	ea @	\$66.00	per ea =	\$264.00
Grade, Ditch, and Roll	62.20	sta @	\$36.00	per sta =	\$2,239.20
TOTAL EXCAVATION COSTS=					\$17,280.37

CULVERTS - MATERIALS & INSTALLATION

Culverts

150	LF of 18"	\$3,000.00
30	LF of 30"	\$1,170.00
50	LF of 48"	\$3,600.00

Culvert Markers

7 markers	\$70.00
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Bands

1 ea of 48" @	\$69.00	per ea =	69.00
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TOTAL CULVERT COSTS = \$7,909.00

PROJECT NO. 1 TOTAL COST = \$25,189.37

PROJECT NO. 2:

SURFACING

	12	" deep =	65 cy/sta			
Base Rock	4,043	cy of	Pit-Run	@	\$8.96	per cy = \$36,225.28
Turnouts	88	cy of	Pit-Run	@	\$8.96	per cy = \$788.48
Junctions	100	cy of	Pit-Run	@	\$8.96	per cy = \$896.00
Culvert Bedding	36	cy of	1 1/2"-0"	@	\$14.24	per cy = \$512.64
Culvert Bedding	24	cy of	1 1/2"-0"	@	\$14.24	per cy = \$341.76
Culvert Bedding	12	cy of	1 1/2"-0"	@	\$14.24	per cy = \$170.88
Curve Widening	24	cy of	Pit-Run	@	\$8.96	per cy = \$215.04
Subgrade Reinforcement	172	cy of	Pit-Run	@	\$8.96	per cy = \$1,543.36
Fill Armor	12	cy of	Pit-Run	@	\$8.96	per cy = \$107.52
Energy Dissipator	48	cy of	36"-24" Riprap	@	\$16.14	per cy = \$774.72
Total =	4,559					
	72	cy of	1 1/2"-0"		\$14.24	per cy = \$1,025.28
	4,439	cy of	Pit-Run		\$8.96	per cy = \$39,775.68
	48	cy of	36"-24" Riprap		\$16.14	per cy = \$774.72

PROJECT NO. 2 TOTAL COST = \$41,575.68

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil.	2.86	acres @	\$425.00	per acre =	\$1,213.73
Mulch	17	bales @	\$8.00	per bale =	\$136.00

PROJECT NO. 3 TOTAL COST = \$1,349.73

TOTAL COST = \$68,114.78

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: M to N

Timber Sale No. : 341-15-17
Construction: 10+90 stations
0.21 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.80	acres @	\$1,078.00	per acre =	\$864.92
Balanced Road Construction	10.90	sta @	\$110.00	per sta =	\$1,199.00
Construct Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Approach to landing	0.75	sta @	\$146.00	per sta =	\$109.50
Landings	2	ea @	\$314.00	per ea =	\$628.00
Grade, Ditch, and Roll	10.90	sta @	\$36.00	per sta =	\$392.40
TOTAL EXCAVATION COSTS=					\$3,276.32

PROJECT NO. 1 TOTAL COST = \$3,276.32

PROJECT NO. 2:

SURFACING	12	" deep =	65 cy/sta		
M to N	709	cy of	Pit-Run	@	\$9.47 per cy = \$6,714.23
Turnaround	20	cy of	Pit-Run	@	\$9.47 per cy = \$189.40
Junction (6+75)	12	cy of	Pit-Run	@	\$9.47 per cy = \$113.64
Landings	360	cy of	Pit-Run	@	\$9.47 per cy = \$3,409.20
Approach to landing	49	cy of	Pit-Run	@	\$9.47 per cy = \$461.66
Total =	1,150				
	1,150	cy of	Pit-Run		\$9.47 per cy = \$10,888.13

PROJECT NO. 2 TOTAL COST = \$10,888.13

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil.	0.40	acres @	\$425.00	per acre =	\$170.50
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PROJECT NO. 3 TOTAL COST = \$170.50

TOTAL COST = \$14,334.95

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: O to P

Timber Sale No. : 341-15-17
Construction: 3+70 stations
0.07 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.25	acres @	\$1,078.00	per acre =	\$274.70
Balanced Road Construction	3.70	sta @	\$110.00	per sta =	\$407.00
Construct Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, Ditch, and Roll	3.70	sta @	\$36.00	per sta =	\$133.20
TOTAL EXCAVATION COSTS=					\$1,211.40
PROJECT NO. 1 TOTAL COST =					\$1,211.40

PROJECT NO. 2:

SURFACING	12	" deep =	65 cy/sta		
O to P	241	cy of	Pit-Run	@	\$9.12 per cy = \$2,197.92
Turnaround	20	cy of	Pit-Run	@	\$9.12 per cy = \$182.40
Landing	180	cy of	Pit-Run	@	\$9.12 per cy = \$1,641.60
Total =	441				
	441	cy of	Pit-Run		\$9.12 per cy = \$4,021.92
PROJECT NO. 2 TOTAL COST =					\$4,021.92

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil.	0.13	acres @	\$425.00	per acre =	\$54.15
PROJECT NO. 3 TOTAL COST =					\$54.15

TOTAL COST = \$5,287.47

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: Q to R

Timber Sale No.: 341-15-17
Construction: 44+50 stations
0.84 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	4.09	acres @	\$1,078.00	per acre =	\$4,405.05
Endhaul Stumps - Full Bench Stations					\$273.00
Balanced Road Construction	34.70	sta @	\$110.00	per sta =	\$3,817.00
Drift	6.70	sta @	\$180.00	per sta =	\$1,206.00
Full Bench -Drift	3.10	sta @	\$360.00	per sta =	\$1,116.00
Construct Turnouts	4	ea @	\$66.00	per ea =	\$264.00
Construct Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Geotextile	134	yd² @	\$2.70	per yd² =	\$361.80
Roadside Landing	1	ea @	\$165.00	per ea =	\$165.00
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, Ditch, and Roll	44.50	sta @	\$36.00	per sta =	\$1,602.00
TOTAL EXCAVATION COSTS=					\$13,606.35

CULVERTS - MATERIALS & INSTALLATION

Culverts

150	LF of 18"	\$3,000.00	100	LF of 24"	\$2,900.00
			50	LF of 60"	\$6,700.00

Culvert Markers

9 markers	\$90.00
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TOTAL CULVERT COSTS = \$12,690.00

PROJECT NO. 1 TOTAL COST = \$26,296.35

PROJECT NO. 2:

SURFACING	12	" deep =	65 cy/sta			
Q to R	2,893	cy of	Pit-Run	@	\$9.32 per cy =	\$26,962.76
Turnouts	88	cy of	Pit-Run	@	\$9.32 per cy =	\$820.16
Turnaround	20	cy of	Pit-Run	@	\$9.32 per cy =	\$186.40
Junctions	60	cy of	Pit-Run	@	\$9.32 per cy =	\$559.20
Roadside Landing	95	cy of	Pit-Run	@	\$9.32 per cy =	\$885.40
Landing	180	cy of	Pit-Run	@	\$9.32 per cy =	\$1,677.60
Culvert Bedding	132	cy of	1 1/2" -0"	@	\$14.53 per cy =	\$1,917.96
Subgrade Reinforcement	163	cy of	Pit-Run	@	\$9.32 per cy =	\$1,514.50
Free Draining Fill	160	cy of	24"-6" Riprap	@	\$9.48 per cy =	\$1,516.80
Energy Dissipator	36	cy of	36"-24" Riprap	@	\$16.43 per cy =	\$591.48
Fill Armor	24	cy of	Pit-Run	@	\$9.82 per cy =	\$235.68
Total =	3,851					
	132	cy of	1 1/2" -0"		\$14.53 per cy =	\$1,917.96
	3,499	cy of	Pit-Run		\$9.32 per cy =	\$32,606.02
	24	cy of	Pit-Run		\$9.82 per cy =	\$235.68
	160	cy of	24"-6" Riprap		\$9.48 per cy =	\$1,516.80
	36	cy of	36"-24" Riprap		\$16.43 per cy =	\$591.48

PROJECT NO. 2 TOTAL COST = \$36,867.94

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil.	2.04	acres @	\$425.00	per acre =	\$868.34
Mulch	40	bales @	\$8.00	per bale =	\$320.00

PROJECT NO. 3 TOTAL COST = \$1,188.34

TOTAL COST = \$64,352.63

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: S to T

Timber Sale No. : 341-15-17
Construction: 2+00 stations
0.04 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.14	acres @	\$1,078.00	per acre =	\$148.48
Balanced Road Construction	2.00	sta @	\$110.00	per sta =	\$220.00
Landing	1	ea @	\$285.00	per ea =	\$285.00
Grade, Ditch, and Roll	2.00	sta @	\$36.00	per sta =	\$72.00
TOTAL EXCAVATION COSTS=					\$725.48

PROJECT NO. 1 TOTAL COST = \$725.48

PROJECT NO. 2:

SURFACING	12	" deep =	65 cy/sta		
S to T	130	cy of	Pit-Run	@	\$8.83 per cy = \$1,147.90
Landing	180	cy of	Pit-Run	@	\$8.83 per cy = \$1,589.40
Total =	310				
	310	cy of	Pit-Run		\$8.83 per cy = \$2,737.30

PROJECT NO. 2 TOTAL COST = \$2,737.30

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil.	0.07	acres @	\$425.00	per acre =	\$29.27
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PROJECT NO. 3 TOTAL COST = \$29.27

TOTAL COST = \$3,492.05

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: U to V

Timber Sale No. : 341-15-17
Construction: 3+50 stations
0.07 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.24	acres @	\$1,078.00	per acre =	\$259.85
Balanced Road Construction	3.50	sta @	\$110.00	per sta =	\$385.00
Construct Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, Ditch, and Roll	3.50	sta @	\$36.00	per sta =	\$126.00
TOTAL EXCAVATION COSTS=					\$1,167.35
PROJECT NO. 1 TOTAL COST =					\$1,167.35

PROJECT NO. 2:

SURFACING	12	" deep =	65 cy/sta		
U to V	228	cy of	Pit-Run	@	\$9.40 per cy = \$2,143.20
Turnaround	20	cy of	Pit-Run	@	\$9.40 per cy = \$188.00
Landing	180	cy of	Pit-Run	@	\$9.40 per cy = \$1,692.00
Total =	428				
	428	cy of	Pit-Run		\$9.40 per cy = \$4,023.20
PROJECT NO. 2 TOTAL COST =					\$4,023.20

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil.	0.12	acres @	\$425.00	per acre =	\$51.22
PROJECT NO. 3 TOTAL COST =					\$51.22

TOTAL COST = \$5,241.77

SUMMARY OF CONSTRUCTION COST

Timber Sale: Round House
Road Segment: W to X

Timber Sale No. : 341-15-17
Construction: 2+30 stations
0.04 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.16	acres @	\$1,078.00	per acre =	\$170.76
Balanced Road Construction	2.30	sta @	\$110.00	per sta =	\$253.00
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, Ditch, and Roll	2.30	sta @	\$36.00	per sta =	\$82.80
TOTAL EXCAVATION COSTS=					\$820.56

PROJECT NO. 1 TOTAL COST = \$820.56

PROJECT NO. 2:

SURFACING	12	" deep =	65 cy/sta		
W to X	150	cy of	Pit-Run	@	\$9.46 per cy = \$1,419.00
Landing	180	cy of	Pit-Run	@	\$9.46 per cy = \$1,702.80
Total =	330				
	330	cy of	Pit-Run		\$9.46 per cy = \$3,121.80

PROJECT NO. 2 TOTAL COST = \$3,121.80

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil.	0.08	acres @	\$425.00	per acre =	\$33.66
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PROJECT NO. 3 TOTAL COST = \$33.66

TOTAL COST = \$3,976.02

ROCK DEVELOPMENT COST SUMMARY

Timber Sale: Round House

Sale Number: 341-15-17

Pit Name: Bell Grade

Swell:	<u>1.30</u>	Pit Run (trk measure)	<u>12,011 cy</u>
Shrinkage:	<u>1.16</u>	Total Truck Yardage:	<u>12,011 cy</u>
Drill Pct.:	<u>100%</u>	Total In Place Yardage:	<u>9,239 cy</u>

Scalp & Clear Overburden:	<u>\$150.00</u> /hr x	<u>10</u> hr =	<u>\$1,500.00</u>
Rip Rock:	<u>\$2.10</u> /cy x	<u>9,239</u> cy =	<u>\$19,401.58</u>
Load Dump Truck:	<u>\$0.80</u> /cy x	<u>12,011</u> cy =	<u>\$9,608.40</u>
		Subtotal	<u>\$30,509.98</u>

Equipment Cleaning	<u>\$1,000.00</u>
Move in & Clean Excavator	<u>\$1,042.97</u>
Clean Up Pit	<u>\$300.00</u>
	Subtotal <u>\$2,342.97</u>

ROCK DEVELOPMENT COST = \$2.74/cy

TOTAL PRODUCTION COST \$32,852.95

TC PSTATS			PROJECT STATISTICS							PAGE	1	
			PROJECT		HOUSE					DATE	1/23/2015	
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt	
03N	06	36	HOUSE	A1	THR	228.00		71	572	S	W	
03N	06W	36	HOUSE	A5								
			PLOTS	TREES	TREES PER PLOT		ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			71	572	8.1							
CRUISE			26	176	6.8		29,007	.6				
DBH COUNT												
REFOREST												
COUNT			45	362	8.0							
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-L			43	11.9	24.3	123	7.8	38.3	3,487	3,487	678	678
DOUG FIR-T			122	111.3	18.5	110	48.2	207.4	41,241	40,938	8,864	8,864
NOB FIR-L			5	2.0	16.2	100	0.7	2.8	517	517	111	111
WHEMLOCK-L			5	1.3	18.7	114	0.6	2.5	500	500	109	108
WR CEDAR-L			1	.7	24.0	136	0.4	2.2	460	460	108	108
TOTAL			176	127.2	19.1	111	57.9	253.2	46,205	45,903	9,871	9,870
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-L			165.1	25.1	366	489	612					
DOUG FIR-T			88.9	8.0	521	567	613					
NOB FIR-L			78.8	39.1	324	532	740					
WHEMLOCK-L			42.9	21.3	340	432	524					
WR CEDAR-L												
TOTAL			107.0	8.1	500	544	588	457	114	51		
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-L			158.2	24.1	70	92	114					
DOUG FIR-T			79.7	7.2	112	120	129					
NOB FIR-L			74.2	36.9	71	113	154					
WHEMLOCK-L			35.0	17.4	76	92	108					
WR CEDAR-L												
TOTAL			96.5	7.3	104	113	121	372	93	41		
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-L			165.4	19.6	10	12	14					
DOUG FIR-T			40.5	4.8	106	111	117					
NOB FIR-L			518.4	61.5	1	2	3					
WHEMLOCK-L			451.8	53.6	1	1	2					
WR CEDAR-L			509.8	60.5	0	1	1					
TOTAL			35.1	4.2	122	127	133	49	12	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-L			162.3	19.2	31	38	46					
DOUG FIR-T			44.0	5.2	197	207	218					
NOB FIR-L			431.8	51.2	1	3	4					
WHEMLOCK-L			435.3	51.6	1	2	4					
WR CEDAR-L			509.8	60.5	1	2	3					
TOTAL			23.5	2.8	246	253	260	22	6	2		

PROJECT STATISTICS

PROJECT HOUSE

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
03N	06	36	HOUSE	A1	THR	228.00	71	572	S	W
03N	06W	36	HOUSE	A5						
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-L			202.4	24.0	2,650	3,487	4,324			
DOUG FIR-T			52.2	6.2	38,404	40,938	43,473			
NOB FIR-L			466.5	55.3	231	517	803			
WHEMLOCK-L			439.1	52.1	240	500	761			
WR CEDAR-L			509.8	60.5	182	460	738			
TOTAL			37.1	4.4	43,881	45,903	47,925	55	14	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-L			201.3	23.9	516	678	840			
DOUG FIR-T			50.0	5.9	8,338	8,864	9,390			
NOB FIR-L			460.0	54.5	51	111	172			
WHEMLOCK-L			441.9	52.4	52	108	165			
WR CEDAR-L			509.8	60.5	43	108	174			
TOTAL			36.0	4.3	9,449	9,870	10,291	52	13	6

RESIDUAL STAND SPECIFICATIONS

SALE NAME: Round House

SALE NUMBER: 341-15-17

AREA 5

Residual QMD assumption (from leave tree cruise information) =

24

Target Relative Density =

31

	Minimum	Target	Maximum
Relative Density	27	29	31
Basal Area	130	140	150
Trees per Acre	41	45	48

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

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

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

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

CRUISE REPORT
Round House
341-15-17

1. LOCATION: Portions of Sections 35, & 36, T3N, R6W, and of Section 1, T2N, R6W, W.M., Washington County, Oregon and Section 25, T3N, R6W, W.M., Tillamook County Oregon.

2. CRUISE DESIGN:

Clearcuts: (Areas 1, 2, 3, and 4) The cruise design assumed a Coefficient of Variation (CV%) of 45%, an average stand diameter of 18 inches and a desired sampling error (SE%) of 8.5%. Pre-cruise plots indicated that approximately 6 trees per plot could be realized with a 40 BAF prism.

Thinning: (Area 5) The cruise design assumed a Coefficient of Variation (CV%) of 50%, an average stand diameter of 18 inches, and a desired sampling error (SE%) of 10%. Pre-cruise plots indicated that approximately 12 trees per plot could be realized with a 20 BAF prism.

3. SAMPLING METHOD:

Plots were laid out on a 4 chain x 6 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

Sale Areas 1, 2, 3, & 4 were cruised in August 2014 with 19 grade and 33 count variable radius plots using a 40 BAF prism.

Sale Area 5 were cruised in August 2014 with 7 grade and 12 count variable radius grade plots using a 20 BAF prism. Cruisers 'thinned' plots from below to 140 ft² of basal area by assigning a 'Take' or 'Leave' status to each tree in every plot

4. CRUISE RESULTS

A total of 176 trees were measured and graded producing a cumulative sampling error of 6.2% on the Douglas-fir 'Take' tree volume which is well-within ODF cruise standards. Area 6 volume was extrapolated from Areas 3 and 5 cruise results.

5. TREE MEASUREMENT AND GRADING:

All trees assigned a 'Take' status were measured and graded following Columbia River Log Scale grade rules and favoring 40 foot segments.

- a) **Height Standards:** Bole heights were measured to the nearest foot of the total height.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) **Form Factors** were measured for each grade tree using a form point of 16 feet.

5. DATA PROCESSING

- a) **Volumes and Statistics,** Cruise volume estimates, and sampling statistics, were derived from Super Ace 2008 cruise software.
- b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

6. Cruisers: The sale was cruised by ODF cruisers (Stone, Savage, Koch).

TC TLOGSTVB				Log Stock Table - MBF																
				Project: HOUSE																
T03N R06W S36 TA1										T03N R06W S36 TA1										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
03N	06W	36	HOUSE	A1	83.00	27	51	Date	1/23/2015											
								Time	9:08:23AM											
Spp	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
DF	L		2M	40	82		82	1.8					3		5	13	15	46		
DF	L		4M	20	0		0	.0			0									
DF	L		4M	24	0		0	.0			0									
DF	T		CU	2																
DF	T		CU	10																
DF	T		CU	12																
DF	T		2M	24	54		54	1.2									54			
DF	T		2M	34	18		18	.4						18						
DF	T		2M	40	3,228	.5	3,213	71.5					404	376	1168	700	565			
DF	T		3M	32	46		46	1.0			5	41								
DF	T		3M	34	62		62	1.4			9	26	14	12						
DF	T		3M	40	753		753	16.8			192	185	340	35						
DF	T		4M	16	66		66	1.5			63	2								
DF	T		4M	20	27		27	.6			27									
DF	T		4M	24	46		46	1.0			46									
DF	T		4M	30	50		50	1.1			50									
DF	T		4M	32	41		41	.9				41								
DF	T		4M	40	38		38	.9			9	30								
DF			Totals		4,511		4,496	95.0			402	326	354	454	394	1173	714	633	46	
RC	L		3M	38	99		99	94.0					30		69					
RC	L		3M	39	6		6	6.0		6										
RC			Totals		105		105	2.2		6			30		69					
WH	L		2M	40	55		55	73.3					34	20						
WH	L		3M	40	19		19	25.2			10		8							
WH	L		4M	20	1		1	1.5			1									
WH			Totals		75		75	1.6			11		8	34	20					
NF	L		2M	40	46		46	84.4						7	18	21				
NF	L		3M	40	7		7	12.8					7							
NF	L		4M	20	1		1	1.4			1									
NF	L		4M	24	1		1	1.4			1									
NF			Totals		55		55	1.2			2		7		7	18	21			
Total All Species					4,746		4,731	100.0		6	415	326	370	518	422	1260	735	633	46	

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)												Page		1						
				Project: HOUSE												Date		1/23/2015						
																Time		9:08:22AM						
T03N R06W S36 TA1												T03N R06W S36 TA1												
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt						
03N		06W		36		HOUSE		A1		83.00		27		51		S		W						
S So Gr Spp T rt ad				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre			
									Log Scale Dia.				Log Length				Ln Dia Bd CF/ Ft In Ft Lf							
DF	T		CU															8	19		0.00		6.0	
DF	T		2M	74	.5	39,754	39,572	3,285				31	69		2	1	98	40	17	469	2.23		84.4	
DF	T		3M	19		10,368	10,368	861			94	6				12	88	39	8	106	0.68		97.8	
DF	T		4M	7		3,237	3,237	269			100			34	36	15	14	23	6	32	0.37		100.5	
DF T Totals				93	.3	53,359	53,177	4,414			25	24	51	2	3	4	91	33	10	184	1.15		288.7	
DF	L		2M	99		985	985	82				10	90				100	40	23	1059	4.58		.9	
DF	L		4M	1		9	9	1			100			38	62			22	7	29	0.72		.3	
DF L Totals				2		994	994	83			1	10	89	0	1		99	35	19	802	3.99		1.2	
RC	L		3M	100		1,264	1,264	105			6		28	66			100	38	11	223	1.37		5.7	
RC L Totals				2		1,264	1,264	105			6		28	66			100	38	11	223	1.37		5.7	
WH	L		2M	73		658	658	55				100					100	40	13	255	1.24		2.6	
WH	L		3M	25		226	226	19			100						100	40	7	88	0.63		2.6	
WH	L		4M	2		14	14	1			100			100				20	6	20	0.37		.7	
WH L Totals				2		898	898	75			27	73			2		98	38	10	154	0.90		5.8	
NF	L		2M	84		558	558	46				16	84				100	40	18	519	2.51		1.1	
NF	L		3M	13		85	85	7			100						100	40	11	180	1.12		.5	
NF	L		4M	3		18	18	2			100			51	49			22	6	24	0.52		.8	
NF L Totals				1		661	661	55			16	13	71	1	1		97	34	12	285	1.75		2.3	
Type Totals					.3	57,176	56,995	4,731			0	23	25	52	2	3	4	91	33	10	188	1.17		303.8

TC		TSTNDSUM														
Stand Table Summary																
Project HOUSE																
T03N R06W S36 TA1													T03N R06W S36 TA1			
Twp	Rge	Sec	Tract	Type					Acres		Plots	Sample Trees		Page:	1	
03N	06W	36	HOUSE	A1					83.00		27	51		Date:	01/23/2015	
													Time:	9:08:21AM		
Spc	S	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.	Bd.Ft.	Tons	Cunits	MBF
DF	T	10	2	86	79	20.340	11.09	20.34	11.2	50.0	6.47	227	1,017	537	189	84
DF	T	11	2	88	96	16.810	11.09	25.22	12.1	53.3	8.68	304	1,345	720	253	112
DF	T	12	3	88	87	21.188	16.64	42.38	11.1	48.3	13.42	471	2,048	1,113	391	170
DF	T	16	1	90	134	3.973	5.55	11.92	20.8	96.7	7.05	247	1,152	585	205	96
DF	T	18	2	89	134	6.278	11.09	18.83	27.4	125.0	14.71	516	2,354	1,221	428	195
DF	T	19	4	90	140	11.269	22.19	33.81	30.4	142.5	29.27	1,027	4,817	2,429	852	400
DF	T	20	2	89	132	5.085	11.09	15.26	33.4	146.7	14.51	509	2,237	1,204	423	186
DF	T	22	1	89	137	2.101	5.55	6.30	41.3	206.7	7.41	260	1,303	615	216	108
DF	T	23	2	88	137	3.845	11.09	11.54	46.1	216.7	15.17	532	2,499	1,259	442	207
DF	T	24	4	90	139	7.063	22.19	21.19	51.5	241.7	31.09	1,091	5,120	2,581	905	425
DF	T	25	1	87	118	1.627	5.55	4.88	47.6	210.0	6.62	232	1,025	549	193	85
DF	T	26	2	87	126	3.009	11.09	9.03	55.0	250.0	14.15	496	2,257	1,174	412	187
DF	T	28	3	88	154	3.892	16.64	14.27	63.6	321.8	25.85	907	4,592	2,145	753	381
DF	T	29	1	90	141	1.209	5.55	3.63	78.2	393.3	8.09	284	1,427	672	236	118
DF	T	30	3	89	160	3.390	16.64	12.43	75.8	399.1	26.85	942	4,961	2,229	782	412
DF	T	31	1	89	161	1.058	5.55	4.23	61.7	335.0	7.44	261	1,418	618	217	118
DF	T	32	3	88	157	2.980	16.64	10.92	85.1	445.5	26.49	930	4,867	2,199	772	404
DF	T	33	1	89	145	.934	5.55	2.80	105.0	543.3	8.38	294	1,522	696	244	126
DF	T	34	2	88	121	1.760	11.09	5.28	93.7	441.7	14.10	495	2,331	1,170	411	194
DF	T	35	1	90	158	.830	5.55	3.32	95.2	537.5	9.01	316	1,785	748	262	148
DF	T	36	1	85	140	.785	5.55	2.35	117.9	583.3	7.91	278	1,373	657	230	114
DF	T	38	1	90	153	.704	5.55	2.82	109.1	612.5	8.76	307	1,726	727	255	143
DF		Totals	43	88	114	120.129	238.52	282.74	38.6	188.1	311.43	10,927	53,177	25,849	9,070	4,414
RC	L	24	1	84	136	1.886	5.93	5.66	52.5	223.3	6.98	297	1,264	580	247	105
RC		Totals	1	84	136	1.886	5.93	5.66	52.5	223.3	6.98	297	1,264	580	247	105
DF	L	40	1	90	160	.170	1.48	.68	126.8	710.0	2.45	86	482	204	71	40
DF	L	44	1	89	166	.140	1.48	.56	158.9	912.5	2.54	89	512	211	74	43
DF		Totals	2	90	163	.310	2.96	1.24	141.3	801.6	5.00	175	994	415	145	83
WH	L	16	1	93	120	1.061	1.48	2.12	30.7	135.0	2.08	65	286	173	54	24
WH	L	18	1	91	107	.838	1.48	1.68	36.2	150.0	1.94	61	252	161	50	21
WH	L	20	1	93	126	.679	1.48	2.04	35.6	176.7	2.32	73	360	193	60	30
WH		Totals	3	92	117	2.578	4.44	5.84	34.0	153.9	6.34	198	898	526	165	75
NF	L	24	1	91	120	.472	1.48	1.41	47.5	220.0	1.61	67	311	134	56	26
NF	L	30	1	91	120	.302	1.48	.91	78.0	386.7	1.69	71	350	141	59	29
NF		Totals	2	91	120	.773	2.96	2.32	59.4	285.0	3.31	138	661	274	114	55
Totals			51	88	115	125.677	254.81	297.79	39.4	191.4	333.06	11736	56,995	27,644	9,741	4,731

TC TLOGSTVB				Log Stock Table - MBF																
				Project: HOUSE																
T03N R06W S36 TA2										T03N R06W S36 TA2										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
03N	06W	36	HOUSE	A2	34.00	10	17	Date	1/23/2015											
										Time	9:19:46AM									
Spp	S	So	Gr	Log	Gross	% Def	Net	%	Net Volume by Scaling Diameter in Inches											
									MBF	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
DF	T		2M	24	60		60	4.0									60			
DF	T		2M	40	1,182	3.6	1,139	75.6					203		194	671	70			
DF	T		3M	32	17		17	1.1					17							
DF	T		3M	34	123	7.3	114	7.6				21	94							
DF	T		3M	40	131	.8	130	8.6			21	24	85							
DF	T		4M	16	21		21	1.4			21									
DF	T		4M	20	17		17	1.1			17									
DF	T		4M	24	6		6	.4			6									
DF	T		4M	30	3		3	.2			3									
DF			Totals		1,560	3.4	1,507	98.3			67	45	196	203	194	671	130			
NF	L		2M	40	19		19	70.6						19						
NF	L		3M	34	7		7	25.5					7							
NF	L		4M	16	1		1	3.9			1									
NF			Totals		26		26	1.7			1		7		19					
Total All Species					1,586	3.3	1,533	100.0			68	45	203	203	213	671	130			

T	Species, Sort Grade - Board Foot Volumes (Type)														Page 1				
Project: HOUSE														Date 1/23/2015					
														Time 9:19:46AM					
T03N R06W S36 TA2										T03N R06W S36 TA2									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt										
03N	06W	36	HOUSE	A2	34.00	10	17	S	W										
S So Gr Spp T rt ad		% Net BdFt	Bd. Ft. per Acre Def% Gross Net		Total Net MBF	Percent Net Board Foot Volume								Average Log		Logs Per /Acre			
						Log Scale Dia.				Log Length				Ln	Dia		Bd	CF/ Lf	
						4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In		Ft		
DF	T	2M	79	3.5	36,533	35,265	1,199	46	54	5	95	39	16	370	2.11	95.3			
DF	T	3M	17	3.7	7,984	7,689	261	100		50	50	37	9	117	0.88	65.5			
DF	T	4M	4		1,357	1,357	46	100		81	19	19	6	22	0.42	61.4			
DF	T	Totals	98	3.4	45,874	44,311	1,507	20	37	43	2	5	9	84	33	11	199	1.44	222.2
NF	L	2M	70		545	545	19	100			100	40	15	360	1.82	1.5			
NF	L	3M	26		197	197	7	100			100	34	10	130	0.89	1.5			
NF	L	4M	4		30	30	1	100		100		16	6	20	0.37	1.5			
NF	L	Totals	2		773	773	26	29	71	4	25	71	30	10	170	1.21	4.5		
Type Totals				3.3	46,647	45,084	1,533	21	37	42	3	4	9	84	33	11	199	1.43	226.8

Stand Table Summary																	
Project HOUSE																	
T03N R06W S36 TA2													T03N R06W S36 TA2				
Twp	Rge	Sec	Tract	Type					Acres		Plots	Sample Trees		Page:	1		
03N	06W	36	HOUSE	A2					34.00		10	17		Date:	01/23/2015		
													Time:	9:19:45AM			
Spc	S T	Sample		FF	Av 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.	Bd.Ft.	Tons	Cunits	MBF	
DF	T	18	2	91	120	17.542	31.00	43.86	29.6	120.0	36.95	1,296	5,263	1,256	441	179	
DF	T	21	1	89	116	6.444	15.50	19.33	32.8	146.7	18.07	634	2,835	614	216	96	
DF	T	22	1	90	121	5.872	15.50	17.61	40.3	190.0	20.21	709	3,347	687	241	114	
DF	T	23	1	89	111	5.372	15.50	16.12	39.9	183.3	18.32	643	2,955	623	219	100	
DF	T	24	3	88	116	14.801	46.50	39.47	49.9	210.0	56.11	1,969	8,289	1,908	669	282	
DF	T	26	3	86	128	12.612	46.50	42.04	48.9	229.0	58.54	2,054	9,627	1,990	698	327	
DF	T	27	1	84	111	3.898	15.50	11.69	54.3	233.3	18.11	635	2,729	616	216	93	
DF	T	28	1	85	120	3.625	15.50	10.87	63.3	273.3	19.61	688	2,972	667	234	101	
DF	T	30	1	77	104	3.158	15.50	6.32	91.2	185.0	16.42	576	1,168	558	196	40	
DF	T	32	1	77	120	2.775	15.50	8.33	74.4	273.3	17.64	619	2,276	600	210	77	
DF	T	36	1	82	127	2.193	15.50	6.58	103.5	433.3	19.41	681	2,851	660	232	97	
DF		Totals		16	87	119	78.293	248.00	222.22	47.3	199.4	299.40	10,505	44,311	10,180	3,572	1,507
NF	L	22	1	88	114	1.515	4.00	4.55	36.2	170.0	3.95	165	773	134	56	26	
NF		Totals		1	88	114	1.515	4.00	4.55	36.2	170.0	3.95	165	773	134	56	26
Totals				17	87	118	79.808	252.00	226.76	47.1	198.8	303.35	10670	45,084	10,314	3,628	1,533

TC		TLOGSTVB		Log Stock Table - MBF																	
				Project:		HOUSE															
T03N R06W S36 TA3										T03N R06W S36 TA3											
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees				Page		1	
03N		06W		36		HOUSE		A3		21.00		6		10				Date		1/23/2015	
																Time		9:42:00AM			
Spp	T	S	So	Gr	Log	Gross	% Def	Net	% 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	T			2M	40	461		461	46.3					115		44	206		95		
DF	T			3M	34	74		74	7.4			14	60								
DF	T			3M	40	439		439	44.1			95		344							
DF	T			4M	16	8		8	.8			8									
DF	T			4M	20	6		6	.6			6									
DF	T			4M	30	8		8	.8			8									
DF		Totals				996		996	98.5			131	60	344	115	44	206		95		
NF	L			3M	40	15		15	100.0			15									
NF		Totals				15		15	1.5			15									
Total All Species						1,011		1,011	100.0			146	60	344	115	44	206		95		

T	Species, Sort Grade - Board Foot Volumes (Type)													Page	1		
Project: HOUSE															Date	1/23/2015	
															Time	9:41:59AM	
T03N R06W S36 TA3															T03N R06W S36 TA3		
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt								
03N	06W	36	HOUSE	A3	21.00	6	10	S	W								
S So Gr Spp T rt ad		% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log		Logs Per /Acre
							Log Scale Dia.				Log Length				Ln Dia Bd CF/ Ft In Ft Lf		
DF	T	2M	46	21,935	21,935	461	60 40	100				40 15 385 1.89	57.0				
DF	T	3M	51	24,421	24,421	513	100	14 86				39 9 117 0.71	209.1				
DF	T	4M	3	1,053	1,053	22	100	65 35					20 6 24 0.36	43.4			
DF	T	Totals	98	47,409	47,409	996	54 28 19	1 1 7 90					36 10 153 0.92	309.5			
NF	L	3M	100	733	733	15	100	100				40 6 60 0.32	12.2				
NF	L	Totals	2	733	733	15	100	100				40 6 60 0.32	12.2				
Type Totals				48,142	48,142	1,011	54 27 18	1 1 7 91					36 9 150 0.90	321.7			

Stand Table Summary																	
TC		TSTNDSUM															
Project HOUSE																	
T03N R06W S36 TA3													T03N R06W S36 TA3				
Twp	Rge	Sec	Tract	Type					Acres	Plots	Sample Trees			Page:	1		
03N	06W	36	HOUSE	A3					21.00	6	10			Date:	01/23/2015		
													Time:	9:41:59AM			
Spc	S T	Av							Average Log		Net		Net	T o t a l s			
		Sample DBH	FF Trees	Ht 16'	Tot	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
DF	T	16	3	89	122	57.296	80.00	133.69	24.3	108.6	92.76	3,255	14,515	1,948	683	305	
DF	T	17	2	89	108	33.836	53.33	67.67	29.1	120.0	56.17	1,971	8,121	1,180	414	171	
DF	T	18	1	89	125	15.090	26.67	45.27	26.5	120.0	34.20	1,200	5,432	718	252	114	
DF	T	23	1	90	139	9.242	26.67	27.73	46.4	213.3	36.64	1,285	5,915	769	270	124	
DF	T	26	1	89	143	7.233	26.67	21.70	63.7	316.7	39.38	1,382	6,871	827	290	144	
DF	T	33	1	90	133	4.490	26.67	13.47	97.5	486.7	37.41	1,313	6,555	786	276	138	
DF		Totals		9	89	121	127.186	240.00	309.53	33.6	153.2	296.55	10,405	47,409	6,228	2,185	996
NF	L	10	1	85	87	12.223	6.67	12.22	12.8	60.0	3.74	156	733	79	33	15	
NF		Totals		1	85	87	12.223	6.67	12.22	12.8	60.0	3.74	156	733	79	33	15
Totals				10	89	118	139.409	246.67	321.75	32.8	149.6	300.30	10561	48,142	6,306	2,218	1,011

TC TLOGSTVB				Log Stock Table - MBF Project: HOUSE																
T03N R06W S36 TA4												T03N R06W S36 TA4								
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
03N	06W	36	HOUSE	A4	28.00	9	14	Date	1/23/2015											
										Time	9:48:12AM									
Spp	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
DF	T		CU	3																
DF	T		2M	40	1,018		1,018	72.1					155		280	320	264			
DF	T		3M	32	22		22	1.5			22									
DF	T		3M	34	41		41	2.9			14	27								
DF	T		3M	40	238		238	16.9			28	27	183							
DF	T		4M	16	14		14	1.0			14									
DF	T		4M	20	18		18	1.3			18									
DF	T		4M	24	13		13	.9			13									
DF	T		4M	34	48		48	3.4				48								
DF			Totals		1,412		1,412	98.5			109	102	183	155	280	320	264			
NF	L		2M	40	16		16	74.1					16							
NF	L		3M	40	6		6	25.9			6									
NF			Totals		21		21	1.5			6		16							
Total All Species					1,434		1,434	100.0			114	102	183	171	280	320	264			

T	Species, Sort Grade - Board Foot Volumes (Type)										Page 1						
Project: HOUSE										Date	1/23/2015						
										Time	9:48:12AM						
T03N R06W S36 TA4										T03N R06W S36 TA4							
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt								
03N	06W	36	HOUSE	A4	28.00	9	14	S	W								
S So Gr Spp T rt ad		% Net BdFt	Bd. Ft. per Acre Def% Gross Net		Total Net MBF	Percent Net Board Foot Volume								Average Log		Logs Per /Acre	
						Log Scale Dia.				Log Length				Ln	Dia		Bd
						4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	
DF	T	CU												3	24		0.00
DF	T	2M	72	36,374	36,374	1,018		43	57				100	40	16	427	2.09
DF	T	3M	21	10,745	10,745	301	100					21	79	38	8	108	0.73
DF	T	4M	7	3,320	3,320	93	100			34	14	51		23	7	36	0.42
DF	T	Totals	99	50,439	50,439	1,412	28	31	41	2	1	8	89	33	10	179	1.16
NF	L	2M	74	564	564	16		100					100	40	12	200	1.09
NF	L	3M	26	197	197	6	100						100	40	7	70	0.53
NF	L	Totals	1	761	761	21	26	74					100	40	10	135	0.81
Type Totals				51,200	51,200	1,434	28	31	41	2	1	8	89	33	10	178	1.15

TC		TSTNDSUM															Stand Table Summary														
															Project					HOUSE											
T03N R06W S36 TA4															T03N R06W S36 TA4																
Twp		Rge		Sec		Tract		Type					Acres		Plots		Sample Trees		Page: 1												
03N		06W		36		HOUSE		A4					28.00		9		14		Date: 01/23/2015												
															Time: 9:48:11AM																
Spc	S	Sample		FF	Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net		Net Bd.Ft. Acre	T o t a l s															
		DBH	Trees		Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons		Cunits	MBF																	
DF	T	12	1	87	89	24.377	19.15	48.75	11.3	45.0	15.71	551	2,194	440	154	61															
DF	T	15	1	89	103	15.601	19.15	31.20	22.1	100.0	19.63	689	3,120	550	193	87															
DF	T	17	1	88	112	12.146	19.15	24.29	29.1	120.0	20.16	708	2,915	565	198	82															
DF	T	19	1	90	118	9.724	19.15	29.17	27.4	120.0	22.74	798	3,501	637	223	98															
DF	T	21	1	89	124	7.960	19.15	23.88	35.6	166.7	24.20	849	3,980	677	238	111															
DF	T	22	1	90	125	7.253	19.15	21.76	38.5	176.7	23.88	838	3,844	669	235	108															
DF	T	26	1	90	122	5.193	19.15	15.58	51.4	246.7	22.81	800	3,843	639	224	108															
DF	T	27	3	89	130	14.445	57.44	43.34	62.3	294.4	76.93	2,699	12,760	2,154	756	357															
DF	T	28	2	89	133	8.955	38.29	26.86	69.7	348.3	53.39	1,874	9,358	1,495	525	262															
DF	T	29	1	89	137	4.174	19.15	12.52	77.2	393.3	27.56	967	4,925	772	271	138															
DF		Totals		13	89	113	109.826	248.89	277.35	38.8	181.9	307.01	10,772	50,439	8,596	3,016	1,412														
NF	L	17	1	90	116	2.820	4.44	5.64	32.3	135.0	4.38	182	761	123	51	21															
NF		Totals		1	90	116	2.820	4.44	5.64	32.3	135.0	4.38	182	761	123	51	21														
Totals				14	89	113	112.646	253.33	282.99	38.7	180.9	311.39	10955	51,200	8,719	3,067	1,434														

TC TLOGSTVB				Log Stock Table - MBF																													
				Project:				HOUSE																									
T03N R06W S36 TA5										T03N R06W S36 TA5																							
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		2															
03N		06W		36		HOUSE		A5		62.00		19		84		Date		2/2/2015															
																Time		9:12:52AM															
S So Gr Log				Gross		% Net		%		Net Volume by Scaling Diameter in Inches																							
Spp T rt de Len				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+	
WH		L		2M		40		14		14		36.5										14											
WH		L		3M		30		14		14		35.5										14											
WH		L		3M		32		8		8		20.5		1								7											
WH		L		3M		40		3		3		7.5				3																	
WH				Totals				40		40		1.4		1		3						22		14									
Total All Species				2,919		2,918		100.0		1		480		221		288		343		418		487		553		127							

T	Species, Sort Grade - Board Foot Volumes (Type)										Page 1									
Project: HOUSE											Date	2/2/2015								
											Time	9:12:51AM								
T03N R06W S36 TA5											T03N R06W S36 TA5									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
03N	06W	36	HOUSE	A5	62.00	19	84	S	W											
S So Gr Spp T rt ad		% Net BdFt	Bd. Ft. per Acre		Total Net MBF	Percent Net Board Foot Volume								Average Log		Logs Per /Acre				
		Def%	Gross	Net		Log Scale Dia.				Log Length				Ln	Dia		Bd	CF/ Lf		
DF	L	2M	1	528	528	33	100				100				40	23	940	4.24	.6	
DF	L	3M	98	29,648	29,648	1,838	14	36	49	22	37	41	34	12	242	1.43	122.7			
DF	L	4M	1	37	37	2	100				100				23	6	30	0.59	1.2	
DF	L	Totals	64	30,214	30,214	1,873	14	36	50	22	37	42	34	12	243	1.44	124.6			
DF	T	CU													5	14		0.00	2.3	
DF	T	2M	28	4,643	4,643	288	9	74	17		8	92	39	13	254	1.45	18.3			
DF	T	3M	57	.1	9,196	569	97	3		10	18	72	36	7	78	0.52	117.9			
DF	T	4M	15	2,395	2,395	148	97	3		28	44	11	23	6	33	0.34	72.9			
DF	T	Totals	34	.1	16,234	16,221	1,006	72	24	5	4	12	14	70	32	8	77	0.57	211.3	
WH	L	2M	36	233	233	14	100				100				40	14	290	1.31	.8	
WH	L	3M	64	405	405	25	4	12	29	56	56	32	12	34	10	175	1.15	2.3		
WH	L	Totals	1	638	638	40	2	8	55	35	35	20	44	36	11	205	1.19	3.1		
Type Totals				.0	47,085	47,072	2,918	0	34	32	34	1	19	29	51	32	9	139	0.91	339.0

TC		TSTNDSUM															
Stand Table Summary																	
Project HOUSE																	
T03N R06W S36 TA5													T03N R06W S36 TA5				
Twp	Rge	Sec	Tract	Type					Acres		Plots	Sample Trees		Page:	1		
03N	06W	36	HOUSE	A5					62.00		19	84		Date:	02/02/2015		
Time: 9:12:51AM																	
Spc	S	Sample		FF	Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s			
		DBH	Trees	16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.		Cu.Ft.	Bd.Ft.	Tons	Cunits	MBF	
DF	L	15	1	89	99	2.720	3.34	5.44	20.8	95.0	3.23	113	517	200	70	32	
DF	L	16	1	88	100	2.390	3.34	4.78	24.9	110.0	3.39	119	526	210	74	33	
DF	L	18	1	89	121	1.889	3.34	5.67	24.0	113.3	3.88	136	642	241	84	40	
DF	L	20	5	89	120	7.649	16.69	22.95	30.8	153.3	20.14	707	3,519	1,249	438	218	
DF	L	21	2	90	128	2.775	6.68	8.33	36.3	175.0	8.61	302	1,457	534	187	90	
DF	L	22	5	89	127	6.322	16.69	15.17	38.8	184.2	16.79	589	2,794	1,041	365	173	
DF	L	23	2	90	120	2.314	6.68	6.94	42.1	203.3	8.34	293	1,411	517	181	87	
DF	L	25	3	89	122	2.937	10.01	8.81	49.6	238.9	12.45	437	2,105	772	271	131	
DF	L	26	1	89	110	.905	3.34	2.72	48.8	236.7	3.78	133	643	234	82	40	
DF	L	27	2	89	136	1.679	6.68	5.04	65.3	326.7	9.37	329	1,645	581	204	102	
DF	L	28	5	89	130	3.903	16.69	12.49	62.1	320.6	22.09	775	4,004	1,369	480	248	
DF	L	29	2	90	142	1.455	6.68	5.09	65.2	342.9	9.47	332	1,746	587	206	108	
DF	L	30	3	89	120	2.040	10.01	6.12	73.1	358.9	12.75	447	2,196	790	277	136	
DF	L	31	1	90	147	.637	3.34	2.55	69.5	400.0	5.05	177	1,019	313	110	63	
DF	L	32	3	89	129	1.793	10.01	5.38	87.7	447.8	13.45	472	2,408	834	293	149	
DF	L	33	1	90	120	.562	3.34	1.69	87.9	420.0	4.22	148	708	262	92	44	
DF	L	34	2	90	150	1.059	6.68	3.71	98.2	555.7	10.37	364	2,059	643	226	128	
DF	L	38	1	81	140	.424	3.34	1.70	90.2	480.0	4.36	153	814	270	95	50	
DF		Totals	41	89	123	43.452	136.84	124.55	48.4	242.6	171.72	6,025	30,214	10,647	3,736	1,873	
DF	T	10	5	87	81	25.419	13.86	30.50	10.2	48.3	8.88	312	1,474	551	193	91	
DF	T	11	7	88	93	29.410	19.41	50.42	10.6	45.0	15.26	536	2,269	946	332	141	
DF	T	12	3	88	93	10.591	8.32	21.18	11.7	48.3	7.05	247	1,024	437	153	63	
DF	T	13	2	87	96	6.016	5.55	12.03	14.3	57.5	4.91	172	692	304	107	43	
DF	T	14	6	88	96	15.563	16.64	31.13	17.8	78.3	15.82	555	2,438	981	344	151	
DF	T	16	4	85	103	7.943	11.09	15.89	25.3	100.0	11.45	402	1,589	710	249	98	
DF	T	17	1	83	113	1.759	2.77	3.52	30.9	120.0	3.10	109	422	192	67	26	
DF	T	18	3	88	110	4.707	8.32	10.98	29.2	115.7	9.15	321	1,271	567	199	79	
DF	T	19	2	89	119	2.817	5.55	7.04	32.7	136.0	6.56	230	958	407	143	59	
DF	T	20	3	87	122	3.813	8.32	11.44	29.3	118.9	9.56	336	1,360	593	208	84	
DF	T	21	2	89	121	2.306	5.55	6.92	33.0	156.7	6.50	228	1,084	403	141	67	
DF	T	23	1	85	117	.961	2.77	2.88	40.0	166.7	3.29	115	481	204	72	30	
DF	T	24	1	89	126	.883	2.77	2.65	47.9	223.3	3.62	127	591	224	79	37	
DF	T	25	1	87	133	.813	2.77	2.44	52.1	233.3	3.62	127	569	225	79	35	
DF		Totals	41	87	96	113.002	113.68	209.02	18.3	77.6	108.79	3,817	16,221	6,745	2,367	1,006	
WH	L	19	1	92	103	.802	1.58	1.60	38.9	175.0	2.11	62	281	131	39	17	
WH	L	24	1	92	112	.503	1.58	1.51	46.9	236.7	2.26	71	357	140	44	22	
WH		Totals	2	92	106	1.305	3.16	3.11	42.8	204.9	4.37	133	638	271	83	40	
Totals		84			88	103	157.758	253.68	336.68	29.6	139.8	284.88	9976	47,072	17,662	6,185	2,918

VOLUME SUMMARY

(shown in MBF)

Round House**341-15-17****September 2014****AREAS 1: (MC) 83 ACRES**

SPECIES		2 SAW	3 SAW	4 SAW	Camprun	TOTAL
Douglas-fir	Cruise Volume	3,285	861	269	0	4,415
	Hidden D&B (2%)	(66)	(17)	(5)	()	(88)
	NET TOTAL	3,219	844	264	0	4,327
	% of Total	74	20	6	0	

Area 2: (MC) 34 ACRES

SPECIES		2 SAW	3 SAW	4 SAW	Camprun	TOTAL
Douglas-fir	Cruise Volume	1,199	261	46	0	1,506
	Hidden D&B (2%)	(24)	(5)	(1)	()	(30)
	NET TOTAL	1,175	256	45	0	1,476
	% of Total	80	17	3	0	

AREA 3: (MC) 21 ACRES

SPECIES		2 SAW	3 SAW	4 SAW	Camprun	TOTAL
Douglas-fir	Cruise Volume	461	513	22	0	996
	Hidden D&B (2%)	(9)	(10)	()	()	(20)
	NET TOTAL	452	503	22	0	976
	% of Total	46	52	2	0	

AREA 4: (MC) 28 ACRES

SPECIES		2 SAW	3 SAW	4 SAW	Camprun	TOTAL
Douglas-fir	Cruise Volume	1,018	301	93	0	1,412
	Hidden D&B (2%)	(20)	(6)	(2)	()	(28)
	NET TOTAL	998	295	91	0	1,384
	% of Total	72	21	7	0	

Area 5:(PC-M) 62 ACRES

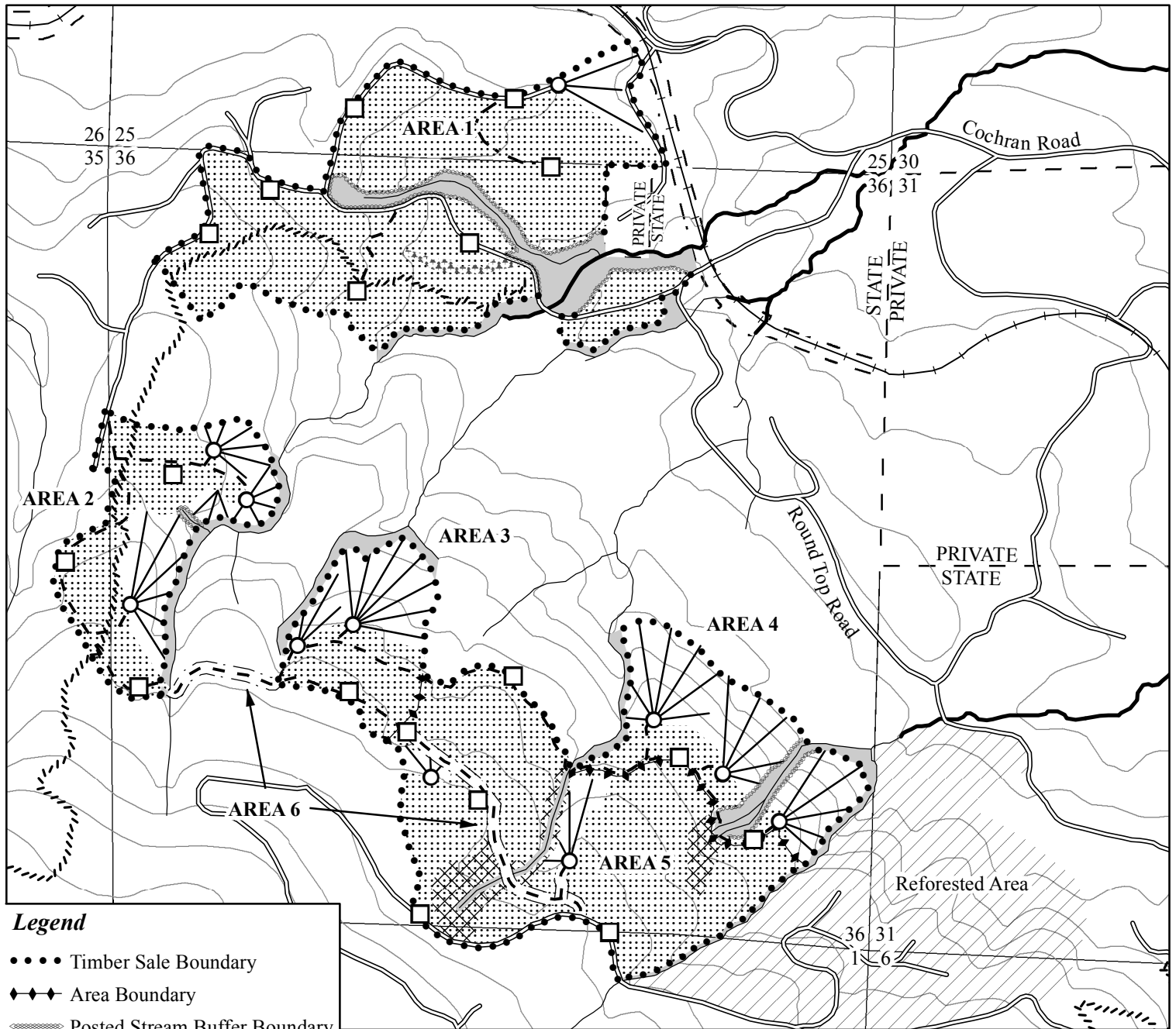
SPECIES		2 SAW	3 SAW	4 SAW	Camprun	TOTAL
Douglas-fir	Cruise Volume	288	569	148	0	1,005
	Hidden D&B (2%)	(6)	(11)	(3)	()	(20)
	NET TOTAL	282	558	145	0	985
	% of Total	29	57	15	0	

Area 6 (R/W) 3 ACRES

SPECIES		2 SAW	3 SAW	4 SAW	Camprun	TOTAL
Douglas-fir	Cruise Volume	38	57	10	0	105
	Hidden D&B (2%)	(1)	(1)	()	()	(2)
	NET TOTAL	37	56	10	0	103
	% of Total	36	54	10	0	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	Camprun	TOTAL
Douglas-fir	6,163	2,512	577	0	9,252



Legend

- Timber Sale Boundary
- ◆◆◆◆ Area Boundary
- ▨▨▨▨ Posted Stream Buffer Boundary
- Surfaced Road
- - New Road Construction
- · - Non Project Road
- + + Railroads
- ▬▬▬▬ Posted R/W Boundary
- //// Recreation Trail
- Type F Stream
- Type N Stream
- Cable Landing
- Tractor Landing
- ▤ Cable Yarding Area
- ▨▨▨▨ Tractor Yarding Area
- /// Reforested Area
- 80 Foot Contour Band
- ▬▬▬▬ ODF Ownership Boundary
- Section Lines

LOGGING PLAN

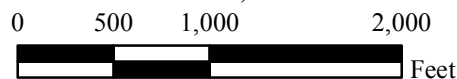
FOR TIMBER SALE CONTRACT # 341-15-17
 ROUND HOUSE
 PORTIONS OF SECTIONS 35, & 36, T3N, R6W,
 AND OF SECTION 1, T2N, R6W,
 WASHINGTON COUNTY, OREGON,
 AND PORTIONS OF SECTION 25, T3N, R6W, W.M.,
 TILLAMOOK COUNTY, OREGON.

Forest Grove District GIS
 January, 2015

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

1:12,000

1 inch = 1,000 feet



APPROXIMATE NET ACRES

	CABLE	TRACTOR
AREA 1	5	78
AREA 2	14	20
AREA 3	10	11
AREA 4	22	6
AREA 5	4	58
AREA 6	3	0
TOTAL	58	173