



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Cat's Eye
Sale 341-12-09

District: Forest Grove

Date: March 05, 2012

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$865,256.76	\$0.00	\$865,256.76
Project Work:			\$(89,775.00)
Advertised Value:			\$775,481.76



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timber description

Location: Portions of Section 11, T2N, R5W, W.M., Washington County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	98

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	1,099	1,044	269	2,412
Total	1,099	1,044	269	2,412



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comments: Pond Values Used: 4th Quarter Calendar Year 2011.

Western Hemlock and Other Conifers Stumpage Price = Pond Value
minus Logging Cost:
\$291.73/MBF = \$430/MBF - \$138.27/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost:
\$661.73/MBF = \$800/MBF - \$138.27/MBF

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus
Logging Cost:
\$446.73/MBF = \$585/MBF - \$138.27/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to \$740 daily truck cost.

Other Costs (with Profit & Risk to be added):
Brand and Paint: 2,412 MBF @\$1/MBF = \$2,412
Total Other Costs (with Profit & Risk to be added) = \$2,412

Other Costs (No Profit & Risk added):
Blocking/Waterbarring Skid Roads: 5 hrs @ \$150/hr = \$750
Firewood Sorting: 7 hrs @ \$150/hr = \$1,050
Slash Treatment: 20 acres @ \$150/acre = \$3,000
Piling Landing Slash: 5 hrs @ \$150/hr = \$750
Covering Landing Slash: \$240
Equipment Cleaning: 4 machines @ \$1,000 per machine = \$4,000
Snag Creation: 100 snags @\$40/snag = \$4,000
TOTAL Other Costs (No Profit & Risk added) = \$13,790

ROAD MAINTENANCE
Move-in: \$2,000
General Road Maintenance: 3 miles x \$1,000/mile = \$3,000
TOTAL: \$5,000 / 2,412 MBF = \$2.07/MBF



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logging conditions

combination#: 1	Douglas - Fir	78.00%	
yarding distance:	Short (400 ft)	downhill yarding:	No
logging system:	Shovel	Process:	Feller Buncher
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	6.0	bd. ft / load:	4,300
cost / mbf:	\$55.76		
machines:	Feller Buncher w/ Delimber		

combination#: 2	Douglas - Fir	22.00%	
yarding distance:	Short (400 ft)	downhill yarding:	No
logging system:	Cable: Small Tower <=40	Process:	Manual Falling/Delimbing
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	5.0	bd. ft / load:	4,300
cost / mbf:	\$125.63		
machines:	Log Loader (A) Tower Yarder (Small)		



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logging costs

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$89,775.00	Other Costs (P/R):	\$2,412.00
Slash Disposal:	\$0.00	Other Costs:	\$13,790.00

Miles of Road

Road Maintenance: \$2.07

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	4.0	4.3



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District: Forest Grove

Date: March 05, 2012

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$71.13	\$2.11	\$1.82	\$39.89	\$1.00	\$11.60	\$0.00	\$5.00	\$5.72	\$138.27

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$497.00	\$358.73	\$0.00



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summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,412	\$358.73	\$865,256.76

Gross Timber Sale Value

Recovery: \$865,256.76

Prepared by: Jeff Peck

Phone: 503-359-7461

TIMBER SALE SUMMARY

Cat's Eye

Contract No. 341-12-09

1. **Type of Sale:** Area 1 is a 50 acre Modified Clearcut (MC). Area 2 is a 1 acre Right-of-Way. The timber will be sold on a recovery basis at a sealed bid auction.
2. **Revenue Distribution:** 100% BOF; Washington County.
3. **Sale Acreage:** Acres are net of stream buffers and existing road prisms. Acreage was determined using ESRI ArcMap GIS software.
4. **Cruise Data:** The Timber Sale was cruised with a combination of Stand Level Inventory plots and ODF Cruiser plots. For more information see Cruise Report.
5. **Volume Summary:**

SPECIES			2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	AREA 1	1107	1052	271	2430
		AREA 2	14	13	3	30
	Hidden D&B		(22)	(21)	(5)	(48)
	Total		1099	1044	269	2412
	% Total		46	43	11	100

*R/W (0.62 ac) volume shown on map outside of Sale Area is estimated and added to advertised volume using cruise board foot per acre values and percentage allocations by grade as shown above.

6. **Timber Description:** Timber Sale Area is medium to well stocked, 79 year old Douglas-fir stand with minor amounts of western hemlock, cedar, grand fir, and hardwoods. The average Douglas-fir DBH is approximately 16 inches. The estimated average net Douglas-fir volume is 48.6 MBF per acre.
7. **Topography and Logging Method:** Slopes within the sale are predominately south-southwest facing aspects ranging from 5% to 45%. The sale area is 78% ground-based yarding and 22% cable-based yarding. The maximum ground-based yarding distance is approximately 400 feet horizontal distance. The maximum cable-based yarding distance is approximately 400 feet horizontal distance.
8. **Access:** The timber sale area is approximately 14 miles from the Forest Grove office. From Forest Grove travel west on Highway 8 to its intersection with Highway 6. Turn left (west) onto Hwy.6, go 3 miles, turn right onto Timber Road. Go north on Timber Road about 2

miles, turn right onto the yellow-gated Wildcat Mountain Road. Go approximately 1 mile to enter the Timber Sale Area.

9. Projects:

Project No. 1 – 1.05 miles of road construction and 0.74 miles of road improvement - \$25,694.52

Project No. 2 – Road surfacing - \$33,359.68

Project No. 3 – Fish passage culvert installation - \$14,799.00

Project No. 4 – Bridge installation - \$8,314.09

Project No. 5 - Grass seeding, fertilizing, and mulching - \$1,110.70

Equipment Move-in and Cleaning - \$6,495.96

Total rounded credit for project work is \$89,775.00

10. Other Costs:

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

Brand and Paint: 2,412 MBF @\$1/MBF = \$2,412

Total Other Costs (with Profit & Risk to be added)= \$2,412

Other Costs (No Profit & Risk added):

Blocking/Waterbarring Skid Roads: 5 hrs @ \$150/hr = \$750

Firewood Sorting: 7 hrs @ \$150/hr = \$1,050

Slash Treatment: 20 acres @ \$150/acre = \$3,000

Piling Landing Slash: 5 hrs @\$150/hr = \$750

Covering Landing Slash: \$240

Equipment Cleaning: 4 machines @ \$1,000 per machine = \$4,000

Snag Creation: 100 snags @\$40/snag = \$4,000

TOTAL Other Costs (No Profit & Risk added) = \$13,790

PROJECT COST SUMMARY SHEET

Timber Sale: Cat's Eye

Sale Number: 341-12-09

PROJECT NO. 1: ROAD CONSTRUCTION AND IMPROVEMENT

CONSTRUCTION

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
C to D	20+75	\$5,237.43
E to F	6+65	\$2,151.72
G to H	20+00	\$5,496.08
I to J	6+80	\$2,193.04
K to L	1+30	\$655.43
	55+50 stations	
	1.05 miles	

SUBTOTAL CONSTRUCTION \$15,733.69

IMPROVEMENTS

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
A to B	38+90	\$9,960.83
	38+90 stations	
	0.74 miles	

SUBTOTAL IMPROVEMENTS \$9,960.83

TOTAL PROJECT NO. 1 COST = \$25,694.52

PROJECT NO. 2: SURFACING

<u>Road Segment</u>	<u>Amount</u>	<u>Type</u>	<u>Cost</u>
A to B	65 cy	1 1/2" - 0	\$481.65
A to B	1,706 cy	3" - 0	\$12,638.50
A to B	30 cy	6" - 0	\$279.30
A to B	120 cy	24" - 6	\$1,117.20
C to D	711 cy	3" - 0	\$5,780.43
E to F	310 cy	3" - 0	\$2,520.30
G to H	736 cy	3" - 0	\$6,292.80
I to J	323 cy	3" - 0	\$2,761.65
K to L	97 cy	3" - 0	\$829.35
Point M	60 cy	1 1/2" - 0	\$321.00
Point M	50 cy	24" - 6	\$337.50
Total	125 cy	1 1/2" - 0	
	3,883 cy	3" - 0	
	30 cy	6" - 0	
	170 cy	24" - 6	

TOTAL PROJECT NO. 2 COST = \$33,359.68

PROJECT NO. 3: FISH PASSAGE CULVERT

Install 95" x 67" pipe-arch on A-B @ 11+08 \$14,799.00

TOTAL PROJECT NO. 3 COST = \$14,799.00

PROJECT NO. 4: BRIDGE INSTALLATION

Install Log Stringer Bridge at Point M \$8,314.09

TOTAL PROJECT NO. 4 COST = \$8,314.09

PROJECT NO. 5: GRASS SEED, FERTILIZE, & MULCH

Grass seed and fertilize areas of disturbed soil. \$1,110.70

TOTAL PROJECT NO. 5 COST = \$1,110.70

MOVE IN & EQUIPMENT CLEANING \$6,495.96

TOTAL ALL PROJECTS \$89,773.95

TOTAL CREDITS \$89,775.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Cat's Eye Timber Sale No. : 341-12-09
Road Segment: A to B Improvement : 38+90 stations
0.74 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	1.78	acres @	\$980.00	per acre =	\$1,744.40
Balanced Road Construction	36.70	sta @	\$60.00	per sta =	\$2,202.00
Road Widening (Drift)	2.20	sta @	\$90.00	per sta =	\$198.00
Construct Turnouts (5)	5	ea @	\$60.00	per ea =	\$300.00
Grade, Ditch, and Roll	38.90	sta @	\$28.70	per sta =	\$1,116.43
TOTAL EXCAVATION COSTS=					\$5,560.83

CULVERTS - MATERIALS & INSTALLATION

Culverts

240 LF of 18" \$4,320.00
\$4,320.00

Culvert Markers

8 markers \$80.00

TOTAL CULVERT COSTS = \$4,400.00

PROJECT NO. 1 TOTAL COST = \$9,960.83

PROJECT NO. 2

SURFACING

	8	" deep =	42 cy/sta		
Spot Rock (0+00 to 7+10)	200	cy of	3" - 0	@	\$7.41 per cy = \$1,482.00
A to B (7+10 to 38+90)	1,336	cy of	3" - 0	@	\$7.41 per cy = \$9,896.80
Curve Widening	30	cy of	3" - 0	@	\$7.41 per cy = \$222.30
Turnouts (5)	70	cy of	3" - 0	@	\$7.41 per cy = \$518.70
Junctions (2)	40	cy of	3" - 0	@	\$7.41 per cy = \$296.40
Fill Widening	30	cy of	3" - 0	@	\$7.41 per cy = \$222.30
Culvert Bedding	65	cy of	1 1/2" - 0	@	\$7.41 per cy = \$481.65
Select Pit-run	30	cy of	6" - 0	@	\$9.31 per cy = \$279.30
Riprap	60	cy of	24" - 6"	@	\$9.31 per cy = \$558.60
Energy Dissipators	60	cy of	24" - 6"	@	\$9.31 per cy = \$558.60
Total =					
	65	cy of	1 1/2" - 0		
	1706	cy of	3" - 0		
	30	cy of	6" - 0		
	120	cy of	24" - 6"		

PROJECT NO. 2 TOTAL COST = \$14,516.65

PROJECT NO. 3

FILL EXCAVATION AND CONSTRUCTION

Endhaul unsuitable fill material	300	cy @	\$2.44	per cy =	\$732.00
Excavate and Haul fill material	400	cy @	\$2.80	per cy =	\$1,120.00
Drift Fill Material	1.00	sta @	\$150.00	per sta =	\$150.00
Place fill	600	cy @	\$2.12	per cy =	\$1,272.00
Compact fill with plate compactor	600	cy @	\$0.75	per cy =	\$450.00
Pump culvert installation	1	day @	\$75.00	per day =	\$75.00

CULVERT

95" x 67" ASCP arch pipe 12-ga 60 lf @ \$165.00 per lf = \$9,900.00
Bands, Gaskets, Hardware (2) = \$500.00
Delivery = \$600.00

PROJECT NO. 3 TOTAL COST = \$14,799.00

PROJECT NO. 5

Grass seed and fertilize areas of disturbed soil.	0.89	acres @	\$220.00	per acre =	\$195.80
Mulch	0.25	acres @	\$600.00	per acre =	\$150.00

PROJECT NO. 5 TOTAL COST = \$345.80

TOTAL COST = \$39,622.28

SUMMARY OF CONSTRUCTION COST

Timber Sale:	<u>Cats Eye</u>	Timber Sale No. :	<u>341-12-09</u>
Road Segment:	<u>C to D</u>	Construction :	<u>20+75</u> stations
			<u>0.39</u> miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	1.90	acres @	\$1,176.00	per acre =	\$2,234.40
Balanced Road Construction	19.75	sta @	\$90.00	per sta =	\$1,777.50
Drift	1.00	sta @	\$150.00	per sta =	\$150.00
Construct Turnouts (2)	2	ea @	\$60.00	per ea =	\$120.00
Construct Turnaround (1)	1	ea @	\$75.00	per ea =	\$75.00
Landing	1	ea @	\$285.00	per ea =	\$285.00
Grade, Ditch, and Roll	20.75	sta @	\$28.70	per sta =	\$595.53
				TOTAL EXCAVATION COSTS=	\$5,237.43

PROJECT NO. 1 TOTAL COST = \$5,237.43

PROJECT NO. 2

SURFACING

	6	" deep =	31 cy/sta			
C to D	612	cy of	3" - 0	@	\$8.13 per cy =	\$4,975.56
Turnouts (2)	22	cy of	3" - 0	@	\$8.13 per cy =	\$178.86
Junction	20	cy of	3" - 0	@	\$8.13 per cy =	\$162.60
Turnaround	10	cy of	3" - 0	@	\$8.13 per cy =	\$81.30
Landing (1)	47	cy of	3" - 0	@	\$8.13 per cy =	\$382.11
Total =	711	cy of	3" - 0			

PROJECT NO. 2 TOTAL COST = \$5,780.43

PROJECT NO. 5

Grass seed and fertilize areas of disturbed soil.	0.95 acres @	\$220.00 per acre =	\$209.00
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PROJECT NO. 5 TOTAL COST = \$209.00

TOTAL COST = \$11,226.86

SUMMARY OF CONSTRUCTION COST

Timber Sale:	Cats Eye	Timber Sale No. :	341-12-09
Road Segment:	E to F	Construction :	6+65 stations
			0.13 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.61	acres @	\$1,176.00	per acre =	\$717.36
Balanced Road Construction	6.65	sta @	\$90.00	per sta =	\$598.50
Construct Turnaround (1)	1	ea @	\$75.00	per ea =	\$75.00
Landings	2	ea @	\$285.00	per ea =	\$570.00
Grade, Ditch, and Roll	6.65	sta @	\$28.70	per sta =	\$190.86
TOTAL EXCAVATION COSTS=					\$2,151.72

PROJECT NO. 1 TOTAL COST = \$2,151.72

PROJECT NO. 2

SURFACING	6	" deep =	31 cy/sta		
E to F	206	cy of	3" - 0	@	\$8.13 per cy = \$1,674.78
Turnaround	10	cy of	3" - 0	@	\$8.13 per cy = \$81.30
Landing (2)	94	cy of	3" - 0	@	\$8.13 per cy = \$764.22
Total =	310	cy of	3" - 0		

PROJECT NO. 2 TOTAL COST = \$2,520.30

PROJECT NO. 5

Grass seed and fertilize areas of disturbed soil.	0.31	acres @	\$220.00	per acre =	\$67.10
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PROJECT NO. 5 TOTAL COST = \$67.10

TOTAL COST = \$4,739.12

SUMMARY OF CONSTRUCTION COST

Timber Sale:	Cats Eye	Timber Sale No. :	341-12-09
Road Segment:	G to H	Construction :	20+00 stations
			0.38 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	1.83	acres @	\$1,176.00	per acre =	\$2,152.08
Balanced Road Construction	20.00	sta @	\$90.00	per sta =	\$1,800.00
Construct Turnouts (1)	1	ea @	\$60.00	per ea =	\$60.00
Construct Turnaround (1)	1	ea @	\$75.00	per ea =	\$75.00
Landing	1	ea @	\$285.00	per ea =	\$285.00
Grade, Ditch, and Roll	20.00	sta @	\$28.70	per sta =	\$574.00
TOTAL EXCAVATION COSTS=					\$4,946.08

CULVERTS - MATERIALS & INSTALLATION

Culverts					
30	LF of 18"	\$540.00			
		\$540.00			
Culvert Markers					
1	markers	\$10.00			
TOTAL CULVERT COSTS =					\$550.00

PROJECT NO. 1 TOTAL COST = \$5,496.08

PROJECT NO. 2:

SURFACING	6	" deep =	31 cy/sta		
G to H	620	cy of	3" - 0	@	\$8.55 per cy = \$5,301.00
Curve Widening	8	cy of	3" - 0	@	\$8.55 per cy = \$68.40
Turnouts (1)	11	cy of	3" - 0	@	\$8.55 per cy = \$94.05
Junction	40	cy of	3" - 0	@	\$8.55 per cy = \$342.00
Turnaround	10	cy of	3" - 0	@	\$8.55 per cy = \$85.50
Landing (1)	47	cy of	3" - 0	@	\$8.55 per cy = \$401.85
Total =	736	cy of	3" - 0		

PROJECT NO. 2 TOTAL COST = \$6,292.80

PROJECT NO. 5:

Grass seed and fertilize areas of disturbed soil.	0.92	acres @	\$220.00	per acre =	\$201.30
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PROJECT NO. 5 TOTAL COST = \$201.30

TOTAL COST = \$11,990.18

SUMMARY OF CONSTRUCTION COST

Timber Sale:	Cats Eye	Timber Sale No. :	341-12-09
Road Segment:	I to J	Construction :	6+80 stations
			0.13 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.63	acres @	\$1,176.00	per acre =	\$740.88
Balanced Road Construction	6.80	sta @	\$90.00	per sta =	\$612.00
Construct Turnaround (1)	1	ea @	\$75.00	per ea =	\$75.00
Landings	2	ea @	\$285.00	per ea =	\$570.00
Grade, Ditch, and Roll	6.80	sta @	\$28.70	per sta =	\$195.16
TOTAL EXCAVATION COSTS=					\$2,193.04

PROJECT NO. 1 TOTAL COST = \$2,193.04

PROJECT NO. 2

SURFACING	6	" deep =	31 cy/sta		
I to J	211	cy of	3" - 0	@	\$8.55 per cy = \$1,804.05
Curve Widening	8	cy of	3" - 0	@	\$8.55 per cy = \$68.40
Turnaround	10	cy of	3" - 0	@	\$8.55 per cy = \$85.50
Landing (2)	94	cy of	3" - 0	@	\$8.55 per cy = \$803.70
Total =	323	cy of	3" - 0		

PROJECT NO. 2 TOTAL COST = \$2,761.65

PROJECT NO. 5

Grass seed and fertilize areas of disturbed soil.	0.32	acres @	\$220.00	per acre =	\$69.30
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PROJECT NO. 5 TOTAL COST = \$69.30

TOTAL COST = \$5,023.99

SUMMARY OF CONSTRUCTION COST

Timber Sale:	<u>Cats Eye</u>	Timber Sale No.:	<u>341-12-09</u>
Road Segment:	<u>K to L</u>	Construction:	<u>1+30</u> stations
			<u>0.02</u> miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	0.12	acres @	\$1,176.00	per acre =	\$141.12
Balanced Road Construction	1.30	sta @	\$90.00	per sta =	\$117.00
Construct Turnaround (1)	1	ea @	\$75.00	per ea =	\$75.00
Landing	1	ea @	\$285.00	per ea =	\$285.00
Grade, Ditch, and Roll	1.30	sta @	\$28.70	per sta =	\$37.31
			TOTAL EXCAVATION COSTS=		\$655.43

PROJECT NO. 1 TOTAL COST = \$655.43

PROJECT NO. 2

SURFACING	6	" deep =	31 cy/sta		
K to L	40	cy of	3" - 0	@	\$8.55 per cy = \$342.00
Turnaround	10	cy of	3" - 0	@	\$8.55 per cy = \$85.50
Landing (1)	47	cy of	3" - 0	@	\$8.55 per cy = \$401.85
Total =	97	cy of	3" - 0		

PROJECT NO. 2 TOTAL COST = \$829.35

PROJECT NO. 5

Grass seed and fertilize areas of disturbed soil.	0.06	acres @	\$220.00	per acre =	\$13.20
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PROJECT NO. 5 TOTAL COST = \$13.20

TOTAL COST = \$1,497.98

SUMMARY OF CONSTRUCTION COST

Timber Sale: Cats Eye Timber Sale No. : 341-12-09
 Road Segment: Point M

PROJECT NO. 4 Bridge Installation

Site Prep (Excavation and abutment prep)	10.00	hrs. @	\$165.00	per hour =	\$1,650.00
Excavate & Load	300	cy @	\$1.90	per cy =	\$570.00
End-haul	300	cy @	\$2.25	per cy =	\$675.00
Plate Compactor	5.00	hrs. @	\$35.00	per hour =	\$175.00
Labor	60.00	hrs. @	\$36.75	per hour =	\$2,205.24
Equipment	15.00	hrs. @	\$135.00	per hour =	\$2,025.00

MATERIALS

Cable (5/8")	650.00	lf @	\$1.35	per lf =	\$877.50
Clamps	40.00	ea @	\$2.19	ea =	\$87.60
Geotextile	65.00	sq. yd. @	\$0.75	sq. yd. =	\$48.75

PROJECT NO. 4 TOTAL COST = \$8,314.09

PROJECT NO. 2

Abutments	20	cy of	1 1/2" - 0	@	\$5.35	per cy =	\$107.00
Approaches	40	cy of	1 1/2" - 0	@	\$5.35	per cy =	\$214.00
Riprap	50	cy of	24" - 6"	@	\$6.75	per cy =	\$337.50
Total =	60	cy of	1 1/2" - 0				
	50	cy of	24" - 6"				

PROJECT NO. 2 TOTAL COST = \$658.50

PROJECT NO. 5

Grass seed and fertilize areas of disturbed soil.	0.25	acres @	\$220.00	per acre =	\$55.00
Mulch	0.25	acres @	\$600.00	per acre =	\$150.00

PROJECT NO. 5 TOTAL COST = \$205.00

TOTAL COST = \$9,177.59

Move-In & Equipment Cleaning

Timber Sale: Cats Eye
 Sale Number: 341-12-09

LOWBOY HAUL (One-way)		
DIST. (mi)	ROAD	AVE SPEED (mph)
2.0	Main Lines	7
0.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Equipment Cleaning	Base Cost	Woods Cost	Pilot Cars	Within			End Mileage	Total Miles	Within		
						Area Move	Area Cost	Total Cost			Area Cost	Area Cost	Total Cost
0	Drill & Compressor		\$0.00	\$0.00		\$46.00	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$0.00
0	Brush Cutter		\$0.00	\$0.00		\$4.00	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$0.00
1	Graders		\$300.00	\$51.43		\$3.65	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$351.43
0	Loader (Small)		\$0.00	\$0.00	1	\$3.55	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$0.00
1	Loader (Med. & Large)		\$414.39	\$133.08	1	\$9.00	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$547.47
1	Rollers (smooth/grid) & Compactors		\$308.59	\$86.25		\$5.00	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$394.84
0	Excavators (Small)	\$0	\$0.00	\$0.00		\$22.00	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$0.00
1	Excavators (Med.)	\$1,000	\$330.44	\$112.38		\$35.50	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$1,442.82
1	Excavators (Large)	\$1,000	\$466.14	\$141.95	1	\$44.80	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$1,608.09
0	Tired Backhoes/Skidlers	\$0	\$0.00	\$0.00		\$3.00	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$0.00
0	Tractors (D6)	\$0	\$0.00	\$0.00	2	\$7.10	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$0.00
0	Tractors (D7)	\$0	\$0.00	\$0.00	2	\$11.30	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$0.00
1	Tractor (D8)	\$1,000	\$473.80	\$136.69	2	\$15.10	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$1,610.49
3	Dump Truck (10 cy +)		\$350.00	\$60.00		\$2.85	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$410.00
0	Dump Truck (Off Hiway)		\$0.00	\$0.00	1	\$4.75	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$0.00
0	Water Truck (1500 Gal)		\$0.00	\$0.00		\$2.85	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$0.00
1	Water Truck (2500 Gal)		\$111.67	\$19.15		\$2.85	\$0.00	\$0.00	0.00	0.00	\$0.00	\$0.00	\$130.82
TOTAL MOVE-IN COSTS:												\$6,495.96	

CRUISE REPORT
Cat's Eye
341-12-09

1. SAMPLING INTENSITY:

In 2004 The Timber Sale Area was cruised with 10 Stand Level Inventory variable radius plots with a total of 67 measured trees. The plot data was grown forward to 12/2011. The Super Ace-generated cruise statistics report indicates that, for the SLI plots, the Coefficient of Variation is 36% and the cumulative sampling error is 12%. Because these plots did not appear to adequately sample the stand, they were supplemented with an additional variable radius grade plots in 12/2011. The cruise design assumed a Coefficient of Variation (CV%) of 36%, an average stand diameter of 16 inches, a desired sampling error (SE%) of 9% and a minimum sample size of 100 grade trees

2. SAMPLING METHOD:

Pre-cruise plots indicated an optimal 6 to 8 grade trees per plot could be realized with a variable radius plot using a 40 BAF prism so a minimum supplemental sample size of approximately 35 trees would be achieved on an additional 5 measure plots. 8 plots were laid out on a 300 foot x 450 foot grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain. The additional plots yielded 65 measured trees and the combined cruises produced an acceptable sampling error of 6.7%.

3. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following Columbia River Log Scale grade rules and favoring 40 foot segments.

All plot trees with a diameter greater than or equal to 33 inches were assigned a 'Leave' status to help show these larger trees broken out on the reports.

a) **Height Standards:**

Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.

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

c) **Form Factors** were estimated for each grade tree using a form point of 16 feet.

4. DATA PROCESSING

a) **Volumes and Statistics,** Cruise and grown forward volume estimates, and sampling statistics, were derived from Super Ace 2008 cruise software. Plot data was grown forward to 12/2011.

b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

6. Cruisers: The sale area was cruised by SLI contract cruisers and ODF cruisers Jeff Peck, Joe Koch.

Prepared by:

ODF Forester

Date

Reviewed by:

Eric Foucht

Date

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																
<div>T02_ R05_ S11 Ty840450.00</div>						Project: CATSEYE								Page 1				Date 1/31/2012		
						Acres 50.00								Time 4:39:03PM						
Spp	So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre	
		Def%	Gross	Net	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf				
					4-5		6-11	12-16	17+	12-20	21-30	31-35					36-99			
DF	DO 2M	45	.3	22,205	22,140	1,107	82 18				100				40	14	295	1.52	75.0	
DF	DO 3M	43		21,032	21,032	1,052	100				0 100				40	8	108	0.61	195.6	
DF	DO 4M	12	.4	5,446	5,426	271	89	11			9	11	26	54	31	5	35	0.28	155.9	
DF Totals		88	.2	48,684	48,598	2,430	10	44	37	8	1	1	3	95	37	8	114	0.68	426.5	
DL	DO 2M	97	1.4	4,968	4,899	245	1 99				100				40	24	1053	4.75	4.7	
DL	DO 3M	2	9.7	111	100	5	100				100				40	8	83	1.11	1.2	
DL	DO 4M	1		29	29	1	100				18	32	25	24	25	5	26	0.74	1.1	
DL Totals		9	1.6	5,108	5,028	251	1	2	1	96	0	0	0	100	38	18	720	3.65	7.0	
RC	DO 4M	100		226	226	11	100				100				15	5	20	0.14	11.3	
RC Totals		0		226	226	11	100				100				15	5	20	0.14	11.3	
BM	DO 2M	25		283	283	14	100				100				40	16	400	2.27	.7	
BM	DO 3M	46	1.4	516	509	25	100				100				40	8	98	0.71	5.2	
BM	DO 4M	29		322	322	16	100				15	59		26	29	5	30	0.25	10.9	
BM Totals		2	.6	1,121	1,114	56	29	46	25		4	17		79	33	6	66	0.53	16.8	
Totals			0.3	55,140	54,967	2,748	10	40	34	16	1	1	3	94	36	8	119	0.71	461.5	

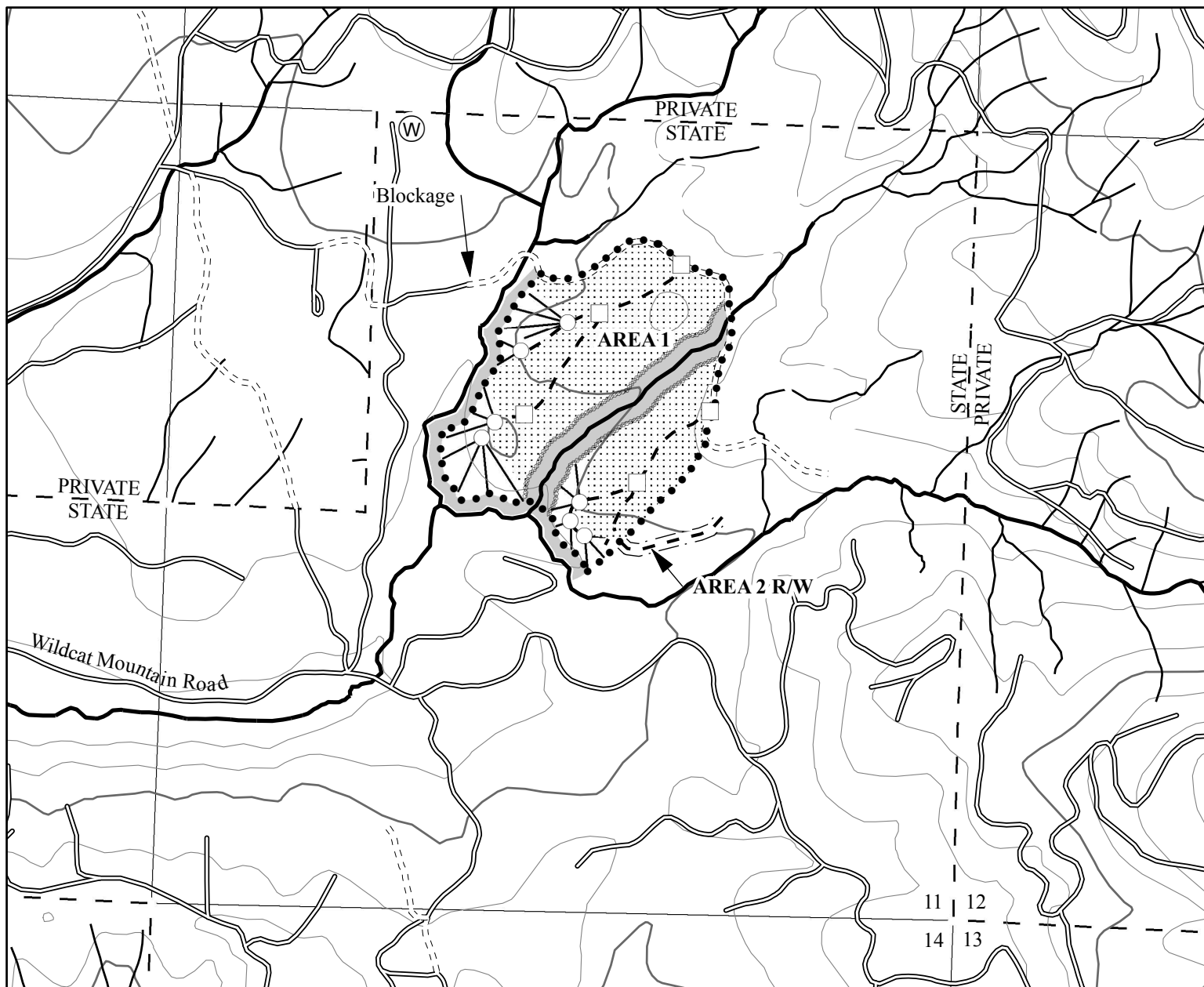
TC		PLOGSTVB		Log Stock Table - MBF																	
T02_ R05_ S11 Ty8404				50.00		Project: CATSEYE		Acres 50.00												Page 1	
																				Date 1/31/2012	
																				Time 4:39:45PM	
Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches													
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+		
DF		DO	2M	40		1,110		1,107	45.6					483		300	325				
DF		DO	3M	32		4		4	.2				4								
DF		DO	3M	40		1,047		1,047	43.1				204	420	424						
DF		DO	4M	12		2		2	.1			2									
DF		DO	4M	13		1		1	.0			1									
DF		DO	4M	14		2		2	.1			2									
DF		DO	4M	15		1		1	.0			1									
DF		DO	4M	16		7		7	.3			7									
DF		DO	4M	17		2		2	.1			2									
DF		DO	4M	19		9		9	.4			9									
DF		DO	4M	20		1		1	.0			1									
DF		DO	4M	21		2		2	.1			2									
DF		DO	4M	22		3		3	.1			3									
DF		DO	4M	23		4		4	.2			4									
DF		DO	4M	24		2		2	.1			2									
DF		DO	4M	25		5		5	.2				5								
DF		DO	4M	26		5		5	.2			5									
DF		DO	4M	28		4		4	.1			4									
DF		DO	4M	30		5		5	.2			5									
DF		DO	4M	31		2		2	.1			2									
DF		DO	4M	32		11		11	.4				11								
DF		DO	4M	33		27		27	1.1			27									
DF		DO	4M	34		3		3	.1			3									
DF		DO	4M	35		28		28	1.2			28									
DF		DO	4M	36		22	4.8	20	.8			20									
DF		DO	4M	37		45		45	1.8			45									
DF		DO	4M	38		5		5	.2			5									
DF		DO	4M	39		6		6	.2			6									
DF		DO	4M	40		68		68	2.8			55	13								
DF		DO	4M	41		2		2	.1			2									
DF		Totals				2,434		2,430	88.4			243	232	425	424	483	300	325			
DL		DO	2M	40		248	1.4	245	97.4					3		36	40	100	48	18	
DL		DO	3M	40		6	9.7	5	2.0			1	4								
DL		DO	4M	13		0		0	.1			0									
DL		DO	4M	20		0		0	.0			0									
DL		DO	4M	27		0		0	.2			0									

TC		PLOGSTVB																		Log Stock Table - MBF																	
T02_ R05_ S11 Ty8404		50.00		Project:		CATSEYE										Page		2																			
																Date		1/31/2012																			
																Time		4:39:45PM																			
S		So Gr		Log		Gross		Def		Net		%		Net Volume by Scaling Diameter in Inches																							
T		rt de		Len		MBF		%		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+	
Spp		DL		DL		DL		DL		DL		DL		DL		DL		DL		DL		DL		DL		DL		DL		DL		DL		DL		DL	
DL		DO		4M		35		0		0		.1		0		0		0		0		0		0		0		0		0		0		0		0	
DL		DO		4M		39		0		0		.1		0		0		0		0		0		0		0		0		0		0		0		0	
DL		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals	
DL		255		1.6		251		9.1		1		1		4		3		36		40		100		48		18		18		18		18		18			
RC		DO		4M		15		11		11		100.0		11		11		11		11		11		11		11		11		11		11		11		11	
RC		DO		4M		15		11		11		100.0		11		11		11		11		11		11		11		11		11		11		11		11	
RC		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals		Totals	
RC		11		11		11		.4		11		11		11		11		11		11		11		11		11		11		11		11		11		11	
BM		DO		2M		40		14		14		25.4		25.4		25.4		25.4		25.4		25.4		25.4		25.4		25.4		25.4		25.4		25.4		25.4	
BM		DO		3M		40		26		1.4		25		45.7		45.7		45.7		45.7		45.7		45.7		45.7		45.7		45.7		45.7		45.7		45.7	
BM		DO		4M		20		2		2		4.3		4.3		4.3		4.3		4.3		4.3		4.3		4.3		4.3		4.3		4.3		4.3		4.3	
BM		DO		4M		30		10		10		17.1		17.1		17.1		17.1		17.1		17.1		17.1		17.1		17.1		17.1		17.1		17.1		17.1	
BM		DO		4M		36		4		4		7.5		7.5		7.5		7.5		7.5		7.5		7.5		7.5		7.5		7.5		7.5		7.5		7.5	
BM		Totals		Totals		Totals		56		56		2.0		16		2		23		14		14		14		14		14		14		14		14		14	
Total		All Species		All Species		All Species		2,757		2,748		100.0		271		235		452		424		486		300		375		40		100		48		18			

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		1/31/2012	
T02_ R05_ S11 Ty8404					50.00					Project					CATSEYE					Time:		4:35:26PM			
										Acres					50.00					Grown Year:					
S SpC	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s												
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF									
DF		9	2	91	77	10.060	4.44	10.06	9.7	40.0	2.78	98	402	139	49	20									
DF		10	3	89	98	12.223	6.67	24.45	8.6	43.3	5.98	210	1,059	299	105	53									
DF		11	3	90	112	10.102	6.67	20.20	11.7	55.0	6.71	236	1,111	336	118	56									
DF		12	8	89	112	22.635	17.78	45.27	14.7	65.0	18.91	663	2,943	945	332	147									
DF		13	5	89	112	12.054	11.11	24.11	17.4	78.0	11.97	420	1,880	599	210	94									
DF		14	9	88	117	18.709	20.00	39.50	19.7	88.9	22.20	778	3,513	1,110	389	176									
DF		15	8	88	127	14.487	17.78	41.65	17.8	82.2	21.17	743	3,422	1,058	371	171									
DF		16	7	87	125	11.141	15.56	31.83	20.8	93.0	18.90	664	2,960	945	332	148									
DF		17	6	87	130	8.459	13.33	23.97	24.9	108.2	17.04	598	2,594	852	299	130									
DF		18	9	87	143	11.318	20.00	33.95	28.9	131.1	27.95	981	4,452	1,397	490	223									
DF		19	12	87	139	13.544	26.67	40.63	30.5	135.3	35.31	1,239	5,496	1,765	619	275									
DF		20	8	87	139	8.149	17.78	23.43	35.9	159.1	23.94	840	3,728	1,197	420	186									
DF		21	6	87	141	5.543	13.33	16.63	39.2	186.7	18.57	652	3,104	928	326	155									
DF		22	3	88	140	2.525	6.67	7.58	43.0	200.0	9.28	326	1,515	464	163	76									
DF		23	7	88	145	5.391	15.56	16.17	47.8	219.0	22.05	774	3,543	1,102	387	177									
DF		24	4	86	155	2.829	8.89	8.49	54.3	256.7	13.14	461	2,179	657	231	109									
DF		25	3	86	159	1.956	6.67	7.82	46.8	232.5	10.44	366	1,819	522	183	91									
DF		26	1	86	141	.603	2.22	1.81	59.7	280.0	3.07	108	506	154	54	25									
DF		27	4	86	155	2.236	8.89	8.94	52.9	265.0	13.49	473	2,370	674	237	118									
DF		Totals	108	88	122	173.964	240.00	426.49	24.9	113.9	302.91	10,628	48,598	15,145	5,314	2,430									
DL		33	1	87	151	.374	2.22	1.50	77.6	400.0	3.31	116	599	165	58	30									
DL		36	1	86	165	.314	2.22	1.26	102.6	515.0	3.67	129	648	184	64	32									
DL		37	1	86	136	.298	2.22	.89	121.2	613.3	3.08	108	548	154	54	27									
DL		39	2	87	140	.536	4.44	1.61	137.2	711.7	6.29	220	1,144	315	110	57									
DL		47	1	87	170	.184	2.22	.74	180.2	985.0	3.79	133	727	189	66	36									
DL		48	1	87	174	.177	2.22	.71	192.5	1072.5	3.88	136	759	194	68	38									
DL		76	1	83	150	.071	2.22	.28	413.1	2145.0	3.32	117	605	166	58	30									
DL		Totals	8	87	152	1.954	17.78	6.98	137.4	720.2	27.35	959	5,028	1,367	480	251									
BM		8	1	84	55	6.366	2.22	6.37	7.3	30.0	1.23	46	191	61	23	10									
BM		13	1	85	81	2.411	2.22	4.82	15.1	55.0	1.93	73	265	97	36	13									
BM		14	1	88	99	2.079	2.22	4.16	20.3	80.0	2.24	84	333	112	42	17									
BM		24	1	87	101	.707	2.22	1.41	62.0	230.0	2.32	88	325	116	44	16									
BM		Totals	4	85	71	11.563	8.89	16.76	17.4	66.5	7.72	292	1,114	386	146	56									
RC		6	1	88	35	11.318	2.22	11.32	2.0	20.0	.54	23	226	27	12	11									
RC		Totals	1	88	35	11.318	2.22	11.32	2.0	20.0	.54	23	226	27	12	11									
Totals			121	88	115	198.798	268.89	461.55	25.8	119.1	338.53	11,902	54,967	16,926	5,951	2,748									

TC PSTATS				PROJECT STATISTICS				PAGE	1		
				PROJECT		CATSEYE		DATE	1/31/2012		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
02_	05_	11	0	8404		50.00	18	121	S	W	
				TREES		ESTIMATED	PERCENT				
				PER PLOT		TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES				
TOTAL			18	121	6.7						
CRUISE			18	121	6.7	9,940	1.2				
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			108	174.0	15.9	122	60.2	240.0	48,684	48,598	10,628
DF-LEAVE			8	2.0	40.8	152	2.8	17.8	5,108	5,028	960
BL MAPLE			4	11.6	11.9	71	2.6	8.9	1,121	1,114	292
WR CEDAR			1	11.3	6.0	35	0.9	2.2	226	226	23
TOTAL			121	198.8	15.7	115	67.8	268.9	55,140	54,967	11,903
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			63.2	6.1	370	394	418				
DF-LEAVE			70.6	26.6	2,438	3,323	4,207				
BL MAPLE			98.8	56.5	83	190	297				
WR CEDAR											
TOTAL			165.8	15.1	491	578	665	1,098	274	122	
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			59.5	5.7	80	85	90				
DF-LEAVE			70.6	26.6	463	631	799				
BL MAPLE			100.7	57.6	21	51	80				
WR CEDAR											
TOTAL			151.3	13.7	103	120	136	914	229	102	
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			44.8	10.8	155	174	193				
DF-LEAVE			138.1	33.5	1	2	3				
BL MAPLE			332.1	80.5	2	12	21				
WR CEDAR			424.3	102.8		11	23				
TOTAL			53.9	13.1	173	199	225	123	31	14	
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR			34.3	8.3	220	240	260				
DF-LEAVE			138.5	33.6	12	18	24				
BL MAPLE			291.0	70.5	3	9	15				
WR CEDAR			424.3	102.8		2	5				
TOTAL			29.2	7.1	250	269	288	36	9	4	
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			36.0	8.7	44,364	48,598	52,832				
DF-LEAVE			137.9	33.4	3,348	5,028	6,709				
BL MAPLE			296.4	71.8	314	1,114	1,914				
WR CEDAR			424.3	102.8		226	459				

TC PSTATS				<u>PROJECT STATISTICS</u>					PAGE	2
				PROJECT	CATSEYE			DATE	1/31/2012	
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
02_	05_	11	0	8404	50.00		18	121	S	W
CL	68.1	COEFF		NET BF/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.00	VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
TOTAL			27.7	6.7	51,271	54,967	58,663	33	8	4
CL	68.1	COEFF		NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
DOUG FIR			34.9	8.5	9,729	10,628	11,526			
DF-LEAVE			137.9	33.4	639	959	1,280			
BL MAPLE			296.4	71.8	82	292	501			
WR CEDAR			424.3	102.8		23	47			
TOTAL			26.9	6.5	11,127	11,902	12,677	31	8	3



Legend

- Timber Sale Boundary
- Surfaced Road
- Unsurfaced Road
- - - New Construction
- - - Posted R/W Boundary
- Type F Stream
- Type N Stream
- Stream Buffer
- Posted Stream Buffer Boundary
- Cable Landing
- Tractor Landing
- Tractor Yarding Area
- ◀ Cable Yarding Area
- 80 Foot Contour Band
- 400 Foot Contour Band
- - - ODF Ownership Boundary
- Sections
- Ⓜ Waste Area

LOGGING PLAN

OF TIMBER SALE CONTRACT # 341-12-09
CAT'S EYE
PORTIONS OF SECTION 11, T2N, R5W
WASHINGTON COUNTY, OREGON

Forest Grove District GIS
January, 2012

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	11	39
AREA 2	0	1
TOTAL	11	40