

PART IV: OTHER INFORMATION

State Timber Sale Contract
No. 341-10-83
McPherson Ridge

NOTICE OF TRANSFER OF STATE TIMBER

Instructions

629:-Form-301-010

Complete Section 1. Mark the box which applies to you/your company in Section 2. Complete Section 3 and obtain signatures.

SECTION 1

On _____, state timber sale purchaser (Transferor),
_____, sold, exchanged or otherwise transferred to
_____, (Transferee) state timber originating from State
Timber Sale Contract No. _____.

Transferee hereby certifies that they:

- (a) Will not export the unprocessed state timber which is the subject of this transaction;
- (b) Will not sell, transfer, exchange or otherwise convey the unprocessed timber which is the subject of this transaction to any other person without first obtaining a like certification from that person.
- (c) Are not prohibited by OAR's 629-31-005 through 045 from purchasing state timber or logs directly from the State Forester, or this is a sale of Western Red Cedar for domestic processing.

SECTION 2

- Have not exported unprocessed timber originating from private lands in Oregon in the last 24 months.
- This is a sale of hardwood logs for domestic processing.
- This is a sale of Western Red Cedar for domestic processing.
- This is a sale of pulp logs or cull logs processed at domestic pulp mills, domestic chip plants or other domestic operations for the purpose of conversion of the logs into chips.

SECTION 3

The parties understand that falsely entering into this certification, or failure to comply with the terms of this certification is a violation of the Forest Conservation and Shortage Relief Act of 1990 and OAR Chapter 629, Division 31, and is subject to any and all penalties contained therein.

Transferor:

Transferee:

Signed _____

Signed _____

Title _____

Title _____

Dated _____

Dated _____

[Note: For the purpose of this form, the definition of unprocessed timber is the same as in OAR 629-31-005]

Mail To: State Forester
2600 State Street
Salem, OR 97310

State Timber Sale Contract
No. 341-10-83
McPherson Ridge



"STEWARDSHIP IN FORESTRY"

WRITTEN PLAN

SALE NAME: McPherson Ridge, 341-10-83

PROTECTED WATERS: Lost Creek a large Type 'F' Stream and a small Type 'F' tributary of it.
McPherson Creek a Medium Type 'F' and a Small Type 'F' tributary of it and a Small Type 'F' tributary of the Nehalem River.

DEFINITIONS: Stream buffer: at least 100 feet horizontal distance from the high water mark on each side of the stream.

LOCATION: Portions of Sections 26 and 35, T3N, R9W, W.M., Tillamook County, Oregon.

ACTIVITY: Cable lines across stream.

PROTECTION MEASURES:

- All trees in the RMA are reserved from cutting.
- All streams are marked with buffer signs and tags.
- Cable yarding lines will be pulled out of the RMA prior to rigging the next yarding road.
- If trees or logs fall or slide into a stream channel they will not be limbed, bucked, or removed without prior approval from ODF.
- Cable lines will be an average of at least 100 feet apart where they extend over or through the Type F stream and buffer.

Date: 3/25/2010

Prepared by: Dave Luttrell



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
McPherson Ridge
Sale 341-10-83

District: Tillamook

Date: May 19, 2010

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$307,597.00	\$264,807.52	\$572,404.52
		Project Work:	\$(189,600.00)
		Advertised Value:	\$382,804.52



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 McPherson Ridge
 Sale 341-10-83

District: Tillamook

Date: May 19, 2010

timber description

Location: Portions of Sections 25, 26 and 35, T3N, R9W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	14	0	95
Western Hemlock / Fir	12	0	95
Sitka Spruce	16	0	95
Alder (Red)	13	0	90

Volume by Grade	2S	3S	3S 10" -	3S 12"+	4S	4S 8" - 9'	6" - 7"	Total
Douglas - Fir	245	1,334	0	0	426	0	0	2,005
Western Hemlock / Fir	0	33	0	0	11	0	0	44
Sitka Spruce	0	46	0	0	15	0	0	61
Alder (Red)	0	0	357	150	0	334	676	1,517
Total	245	1,413	357	150	452	334	676	3,627



Timber Sale Appraisal
McPherson Ridge
Sale 341-10-83

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: May 19, 2010

comments: Pond Values Used: 1st Quarter Calendar Year 2010.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
\$570/MBF = \$820/MBF - \$250/MBF

Pulp (Conifer & Hardwood) Price = \$37.70/MBF
(See attached Pulp Appraisal sheet)

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

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

Brand and Paint: \$2/MBF x 3,627 MBF = \$7,254

Snag Creation: \$10/snag x 442 snags = \$4,420

TOTAL Other Costs (with Profit and Risk to be added) = \$11,674

Other Costs (No Profit & Risk added):

Non-Project Road: 27/Station x \$1,200/Station = \$32,400

Swing Costs: 343 MBF @ \$136/hr. x 157 hours = \$21,352

TOTAL Other Costs (No Profit & Risk added) = \$53,752

ROAD MAINTENANCE

Interim Maintenance: \$250/Mile x 3 miles x 1 grading/3,627MBF =
\$0.21/MBF

Maintenance Rock: (\$7.64/cu. yd. x 3 miles x 25 cu. yd./MMBF/mile
x 3.627 MMBF)/3,627 MBF = \$.57/MBF

Final Maintenance:

Grading - \$500/Mile x 3 miles x 1 grading/3,627 MBF = \$.41/MBF

TOTAL Road Maintenance Cost = \$1.19/MBF



Timber Sale Appraisal
 McPherson Ridge
 Sale 341-10-83

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: May 19, 2010

logging conditions

combination#: 1 Douglas - Fir 15.00%
 Sitka Spruce 20.00%
 Alder (Red) 60.00%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Large Tower >=70 **Process:** Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 4.5 **bd. ft / load:** 3,700
cost / mbf: \$229.83

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

combination#: 2 Douglas - Fir 15.00%
 Western Hemlock / Fir 15.00%
 Sitka Spruce 55.00%
 Alder (Red) 20.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process:** Stroke Delimber
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 7.0 **bd. ft / load:** 3,500
cost / mbf: \$115.68

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

combination#: 3 Douglas - Fir 70.00%
 Western Hemlock / Fir 85.00%
 Sitka Spruce 25.00%
 Alder (Red) 20.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process:** Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 9.0 **bd. ft / load:** 3,700
cost / mbf: \$85.11

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



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 McPherson Ridge
 Sale 341-10-83

District: Tillamook

Date: May 19, 2010

logging costs

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$189,600.00	Other Costs (P/R):	\$11,674.00
Slash Disposal:	\$0.00	Other Costs:	\$53,752.00

Miles of Road

Road Maintenance: \$1.19

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	3.5
Western Hemlock / Fir	\$60.00	2.0	3.3
Sitka Spruce	\$60.00	2.0	3.5
Alder (Red)	\$0.00	3.0	3.0



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
McPherson Ridge
Sale 341-10-83

District: Tillamook

Date: May 19, 2010

Local Pond Values

Date	Specie	Grade	Value
5/19/10	Douglas - Fir	2S	\$380.00
5/19/10	Douglas - Fir	3S	\$365.00
5/19/10	Douglas - Fir	4S	\$360.00
5/19/10	Western Hemlock / Fir	2S	\$321.00
5/19/10	Western Hemlock / Fir	3S	\$316.00
5/19/10	Western Hemlock / Fir	4S	\$306.00
5/19/10	Sitka Spruce	2S	\$365.00
5/19/10	Sitka Spruce	3S	\$360.00
5/19/10	Sitka Spruce	4S	\$355.00
5/19/10	Alder (Red)	3S 10" - 11"	\$520.00
5/19/10	Alder (Red)	3S 12"+	\$520.00
5/19/10	Alder (Red)	4S 8" - 9"	\$520.00
5/19/10	Alder (Red)	6" - 7"	\$435.00



Timber Sale Appraisal
 McPherson Ridge
 Sale 341-10-83

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: May 19, 2010

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$111.40	\$1.25	\$1.21	\$63.64	\$3.22	\$18.07	\$0.00	\$5.00	\$14.82	\$218.61
Western Hemlock / Fir									
\$89.70	\$1.25	\$1.21	\$63.02	\$3.22	\$15.84	\$0.00	\$5.00	\$14.82	\$194.06
Sitka Spruce									
\$130.87	\$1.25	\$1.21	\$63.00	\$3.22	\$19.96	\$0.00	\$5.00	\$14.82	\$239.33
Alder (Red)									
\$178.06	\$1.31	\$1.21	\$77.78	\$3.22	\$26.16	\$0.00	\$5.00	\$14.82	\$307.56

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$365.77	\$147.16	\$0.00
Western Hemlock / Fir	\$0.00	\$313.50	\$119.44	\$0.00
Sitka Spruce	\$0.00	\$358.77	\$119.44	\$0.00
Alder (Red)	\$0.00	\$482.12	\$174.56	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
McPherson Ridge
Sale 341-10-83

District: Tillamook

Date: May 19, 2010

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Sitka Spruce	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,005	\$147.16	\$295,055.80
Western Hemlock / Fir	44	\$119.44	\$5,255.36
Sitka Spruce	61	\$119.44	\$7,285.84
Alder (Red)	1,517	\$174.56	\$264,807.52

Gross Timber Sale Value

Recovery: \$572,404.52

Prepared by: David Luttrell

Phone: 503-815-7025

Pulp Appraisal

Sale Name	McPherson Ridge
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Species	Douglas-fir	Hemlock	Alder	Spruce
Stems Per/ac.	67	1	86	3
Acres	226	226	226	226
Total Stems	15142	226	19436	678
BF/Stem, Conversion	10	10	10	10
Total MBF Per/Species	151	2	194	7
Pond Value Per/MBF	\$250	\$300	\$320	\$300
*Logging + Hauling Costs	\$226.33	\$226.33	\$255.84	\$226.33
Stumpage	\$23.67	\$73.67	\$64.16	\$73.67
Tons Per/MBF, Conversion	10	10	10	10
Price Per/Ton	\$2.37	\$7.37	\$6.42	\$7.37
Total Tons Per/Species	1514	23	1944	68
Total Value	\$3,584.11	\$166.49	\$12,470.14	\$499.48
Less P/R 20%	\$2,867.29	\$133.20	\$9,976.11	\$399.59

	Total Price	Price/Ton	Price/MBF
Total Price	\$16,720.23	\$4.71	\$47.12
Total Less P/R 20%	\$13,376.18	\$3.77	\$37.70

Contract Price	\$37.70
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*Conifer logging & hauling cost based on the spruce price.



PROJECT SUMMARY SHEET

Sale: McPherson Ridge

CONSTRUCTION

IMPROVEMENT

Point	G to H	80+50	stations =	\$38,966.55
SUBTOTAL IMPROVEMENT				\$38,966.55

RECONSTRUCTION

Point	A to B	42+55	stations =	\$85,869.98
Point	C to D	20+55	stations =	\$47,758.48
Point	E to F	8+65	stations =	\$3,980.78
SUBTOTAL RECONSTRUCTION				\$137,609.24

SPECIAL PROJECTS

Stockpile 1-1/2" Crushed	1000 CY	\$8,200.00
SUBTOTAL SPECIAL PROJECTS		\$8,200.00

MOVE IN

\$4,824.21

GRAND TOTAL **\$189,600.00**

SUMMARY OF CONSTRUCTION COST

Sale:	McPherson Ridge				Road:	A to B			
<u>Construction -</u>	0+00 0.00	stations miles	<u>Improvement -</u>	0+00 0.00	stations miles	<u>Reconstruction -</u>	42+55 0.81	stations miles	
RECONSTRUCTION: CLEARING AND GRUBBING -									
Scattering	4.100	acres @		\$980.00	per acre =	\$4,018.00			
				TOTAL CLEARING AND GRUBBING			\$4,018.00		
RECONSTRUCTION: EXCAVATION -									
Road Earthwork	42.55	sta. @		\$100.00	per sta. =	\$4,255.00			
Widening/full Bench	13000	cy. @		\$1.40	per c.y. =	\$18,200.00			
				TOTAL EXCAVATION			\$22,455.00		
RECONSTRUCTION: ENDBAUL -									
Widening/full Bench	4+50	to	42+55	13000	cy. @	\$1.50	per c.y. =	\$19,500.00	
Spread & compact				13000	cy. @	\$0.25	per c.y. =	\$3,250.00	
				TOTAL ENDBAUL				\$22,750.00	
ROCK									
0+00 to	42+55		2,020	cy. of	Crushed	@	\$16.20	per c.y. =	\$32,724.00
Landing Rock	26+55		60	cy. of	Crushed	@	\$14.83	per c.y. =	\$889.80
				TOTAL ROCK					\$33,613.80
SPECIAL PROJECTS									
Construct Landing Spur @ 26+55	1.00	@		\$600.00	each	\$600.00			
Grade and shape road -	42.55	stations @		\$15.50	per station	\$659.53			
Proof-Roll subgrade prior to rocking	42.55	stations @		\$4.70	per station	\$199.99			
Roll subgrade w/ vibratory roller prior to rocking -	42.55	stations @		\$13.20	per station	\$561.66			
Grass seed and fertilize -	4.60	acres @		\$220.00	per acre	\$1,012.00			
				TOTAL SPECIAL PROJECTS				\$3,033.18	
GRAND TOTAL								\$85,869.98	

SUMMARY OF CONSTRUCTION COST

Sale:

McPherson Ridge

Road:

C to D

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations	<u>Reconstruction -</u>	<u>20+55</u>	stations
	0.00	miles		0.00	miles		0.39	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	1.980	acres @	\$980.00	per acre =	\$1,940.40	
					TOTAL CLEARING AND GRUBBING	\$1,940.40

RECONSTRUCTION: EXCAVATION -

Road Earthwork	20.55	sta. @	\$100.00	per sta. =	\$2,055.00	
Widening/Full Bench	8000	cy. @	\$1.40	per c.y. =	\$11,200.00	
					TOTAL EXCAVATION	\$13,255.00

RECONSTRUCTION: ENDHAUL -

Widening/Full Bench	0+00	to	20+55	8000	cy. @	\$1.48	per c.y. =	\$11,840.00
Spread & compact				8000	cy. @	\$0.25	per c.y. =	\$2,000.00
					TOTAL ENDHAUL			\$13,840.00

ROCK

0+00 to	20+55		990	cy. of	Crushed	@	\$16.19	per c.y. =	\$16,028.10
Landing Rock	7+90		60	cy. of	Crushed	@	\$14.97	per c.y. =	\$898.20
					TOTAL ROCK				\$16,926.30

SPECIAL PROJECTS

Construct Landing @ 7+90	1.00	@	\$600.00	each	\$600.00	
Grade and shape road -	20.55	stations @	\$15.50	per station	\$318.53	
Proof-Roll subgrade prior to rocking	20.55	stations @	\$4.70	per station	\$96.59	
Roll subgrade w/ vibratory roller prior to rocking -	20.55	stations @	\$13.20	per station	\$271.26	
Grass seed and fertilize -	2.32	acres @	\$220.00	per acre	\$510.40	
					TOTAL SPECIAL PROJECTS	\$1,796.78

GRAND TOTAL

\$47,758.48

SUMMARY OF CONSTRUCTION COST

Sale:

McPherson Ridge

Road:

E to F

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	8+65	stations
	0.00	miles		0.00	miles		0.16	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	0.240	acres @	\$980.00	per acre =	\$235.20	
TOTAL CLEARING AND GRUBBING					\$235.20	

RECONSTRUCTION: EXCAVATION -

Swing Road Earthwork	8.65	sta. @	\$350.00	per sta. =	\$3,027.50	
TOTAL EXCAVATION					\$3,027.50	

RECONSTRUCTION: ENDHAUL -

TOTAL ENDHAUL \$0.00

SPECIAL PROJECTS

Construct ditchouts -	9.00	@	\$60.00	each	\$540.00	
Grade and shape road -	8.65	stations @	\$15.50	per station	\$134.08	
Grass seed and fertilize -	0.20	acres @	\$220.00	per acre	\$44.00	
TOTAL SPECIAL PROJECTS					\$718.08	

GRAND TOTAL \$3,980.78

SUMMARY OF CONSTRUCTION COST

Sale: **McPherson Ridge**

Road: **G to H**

Construction -	0+00	stations	Improvement -	80+50	stations	Reconstruction -	0+00	stations
	0.00	miles		1.52	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

TOTAL CLEARING AND GRUBBING \$0.00

IMPROVEMENT: EXCAVATION -

Ditch Line Clean Out	80.50	sta. @	\$20.00	per sta. =	\$1,610.00
					TOTAL EXCAVATION
					\$1,610.00

IMPROVEMENT: ENDHAUL -

Ditch Line Material	400	cy. @	\$1.99	per c.y. =	\$796.00
Spread & compact	400	cy. @	\$0.25	per c.y. =	\$100.00
					TOTAL ENDHAUL
					\$896.00

ROCK

0+00	to	80+50	2,820	cy. of	Crushed	@	\$12.11	per c.y. =	\$34,150.20
									TOTAL ROCK
									\$34,150.20

SPECIAL PROJECTS

Grade and shape road -	80.50	stations @	\$15.50	per station	\$1,247.75
Roll subgrade w/ vibratory roller prior to rocking -	80.50	stations @	\$13.20	per station	\$1,062.60
					TOTAL SPECIAL PROJECTS
					\$2,310.35

GRAND TOTAL \$38,966.55

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

Sale: **McPherson Ridge**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
54.0	Pavement	30
8.0	Main Lines	7
3.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Graders	\$703.29		\$3.65	0.00	0.00	0	\$0.00	\$703.29
1	Rollers (smooth/grid) & Compactors	\$583.05		\$5.00	0.00	0.00	0	\$0.00	\$583.05
2	Excavators (Large)	\$1,910.31	1	\$44.80	0.00	0.00	0	\$0.00	\$1,910.31
1	Tractor (D8)	\$914.81	2	\$15.10	0.00	0.00	0	\$0.00	\$914.81
3	Dump Truck (10 cy +)	\$712.75		\$2.85	0.00	0.00	0	\$0.00	\$712.75
TOTAL MOVE-IN COSTS:									\$4,824.21

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed	Location:	SE 1/4 Sec. 34, T3N, R8W, W.M.
Sale:	McPherson Ridge	Road & Stockpile:	6950 c.y.
Swell:	1.00		
Shrinkage	1.00	Total Truck Loads:	6950 c.y.
Drill Pct.:	0%	In Place Total:	6950 c.y.

Pit Development & Cleanup					\$1,200.00
Push Rock:	\$0.70 /cu.yd.	x	6950 cu.yds.	=	\$4,865.00
Load Crusher:	\$0.70 /cu.yd.	x	6950 cu.yds.	=	\$4,865.00
Crush Rock (weighted average 4" & 1-1/2"):	\$2.71 /cu.yd.	x	6950 cu.yds.	=	\$18,834.50
Load Dump Truck:	\$0.70 /cu.yd.	x	6950 cu.yds.	=	\$4,865.00
Sort Oversize:	\$2.00 /cu.yd.	x	690 cu.yds.	=	\$1,380.00

Subtotal \$36,009.50

Move In/Set-up Crusher					\$4,362.00
Move in D-8	1	@	\$832.01	=	\$832.01
Move in Loader	1	@	\$693.01	=	\$693.01
Move in Excavator	1	@	\$913.76	=	\$913.76
Move in Trucks	3	@	\$192.17	=	\$576.51
Change Gradation			\$210.00		\$210.00

Subtotal \$7,587.29

Base Cost=	\$6.27	Per Cu.Yd.		TOTAL PRODUCTION COSTS	\$43,596.79
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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 0 4255 (Crushed)	7.48	2.45	6.27	16.20	2020	\$32,724.00
A to B Landing Rock (Crushed)	7.16	1.40	6.27	14.83	60	\$889.80
C to D 0 2055 (Crushed)	7.47	2.45	6.27	16.19	990	\$16,028.10
C to D Landing Rock (Crushed)	7.30	1.40	6.27	14.97	60	\$898.20
G to H 0 8050 (Crushed)	3.39	2.45	6.27	12.11	2820	\$34,150.20
Stockpile (1-1/2" Crushed)	0.93	1.00	6.27	8.20	1000	\$8,200.00
				Total C.Y.	6950	Sub Total

TOTAL ROCKING COSTS \$92,890.30

TC TLOGSTVB

Log Stock Table - MBF

Project: MCPHERSN

T03N R09W S26 TMC

T03N R09W S26 TMC

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 03N 09W 26 AREA 1 MC 102.00 16 97 1
 Date 3/24/2010
 Time 3:50:13PM

SPP	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches													
										rt	de	Len	MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
RA		8	2	32		59		59	4.8						59								
RA		8	2	40		102	2.6	99	8.1						62	38							
RA		8	3	32		53	5.4	50	4.1						50								
RA		8	3	33		5		5	.4			5											
RA		8	3	36		19		19	1.6						19								
RA		8	3	40		250		250	20.5			14	18		217								
RA		8	4	15		10		10	.8			10											
RA		8	4	17		10		10	.8			10											
RA		8	4	19		9		9	.7			9											
RA		8	4	20		12		12	1.0			12											
RA		8	4	21		22		22	1.8			22											
RA		8	4	22		15		15	1.2			15											
RA		8	4	24		13		13	1.0			13											
RA		8	4	25		5		5	.4			5											
RA		8	4	26		21		21	1.7			21											
RA		8	4	27		24		24	2.0			24											
RA		8	4	28		24		24	2.0			5	19										
RA		8	4	29		21	3.8	20	1.7			20											
RA		8	4	30		13		13	1.1			13											
RA		8	4	31		4		4	.4			4											
RA		8	4	32		42		42	3.4				21	21									
RA		8	4	33		36		36	3.0			36											
RA		8	4	34		16		16	1.3			16											
RA		8	4	35		8		8	.7			8											
RA		8	4	36		114		114	9.3				92	21									
RA		8	4	37		7		7	.6			7											
RA		8	4	40		312		312	25.6			197	116										
RA		Totals					1,226		1,220	57.9			466	267	329	120	38						
DF		8	2	32		12		12	2.1						12								
DF		8	2	40		110	.5	110	18.9						57	53							
DF		8	3	20		4		4	.7					4									
DF		8	3	32		44	5.3	42	7.2			19	22										
DF		8	3	36		24		24	4.2					24									
DF		8	3	40		262	.9	260	44.7				94	96	48	21							
DF		8	4	17		11		11	1.9			11											
DF		8	4	18		2		2	.3			2											
DF		8	4	19		2		2	.4			2											
DF		8	4	21		2		2	.3			2											
DF		8	4	25		7	33.3	5	.8			5											
DF		8	4	26		4		4	.7			4											
DF		8	4	27		6		6	1.0			6											
DF		8	4	30		5		5	.9			5											
DF		8	4	34		6		6	1.1			6											
DF		8	4	35		3		3	.5			3											
DF		8	4	36		12		12	2.0			12											
DF		8	4	40		70		70	12.1			27	43										
DF		Totals					589	1.3	581	27.6			86	62	117	125	48	90	53				
DL		8	2	32		20		20	9.1										20				
DL		8	2	40		172	.9	171	77.6									25		83	66		

Log Stock Table - MBF

Project: MCPHERSN

T03N R09W S26 TMC

T03N R09W S26 TMC

Twp Rge Sec Tract Type Acres Plots Sample Trees
 03N 09W 26 AREA 1 MC 102.00 16 97

Page 2
 Date 3/24/2010
 Time 3:50:13PM

SPP	T	S rt	So de	Gr Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches														
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+			
DL		8	3	31	3	6.7	2	1.1					2										
DL		8	3	33	3		3	1.3				3											
DL		8	3	40	24		24	11.0			4								21				
DL		Totals			222		220	10.5			4		3	2			23	41	83	66			
SS		8	3	32	8	14.3	7	21.9				7											
SS		8	3	40	19		19	65.3					19										
SS		8	4	16	2		2	7.3		2													
SS		8	4	21	2		2	5.4		2													
SS		Totals			31	3.5	30	1.4		4		7		19									
WH		8	3	32	34		34	75.0			16	18											
WH		8	4	17	5		5	11.9		5													
WH		8	4	25	6		6	13.1		6													
WH		Totals			46		46	2.2		11	16	18											
BM		8	4	16	10		10	100.0			10												
BM		Totals			10		10	.5			10												
Total All Species					2,124		2,107	100.0		101	558	408	457	191	128	75	41	83	66				

TC TLOGSTVB

Log Stock Table - MBF

Project: MCPHERSN

T03N R09W S26 TPC

T03N R09W S26 TPC

Twp Rge Sec Tract
03N 09W 26 AREA 2

Type Acres Plots Sample Trees
PC 5.00 2 15

Page 1
Date 3/24/2010
Time 3:55:52PM

SPP	T	S rt	So Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
DL		8	2	40	16		16	25.7					7	9							
DL		8	3	16	1		1	2.3				1									
DL		8	3	40	37		37	58.0			1	18	17								
DL		8	4	33	2		2	2.4		2											
DL		8	4	34	3		3	4.0		3											
DL		8	4	36	2		2	3.0		2											
DL		8	4	40	3		3	4.5			3										
DL		Totals			63		63	59.3		6	4	19	17	7	9						
DF		8	3	32	8		8	24.9			8										
DF		8	3	40	8		8	27.5				8									
DF		8	4	17	3		3	8.3		3											
DF		8	4	34	3		3	9.2		3											
DF		8	4	40	9		9	30.1			9										
DF		Totals			31		31	28.9		5	17	8									
RA		8	4	15	4		4	30.5			4										
RA		8	4	39	3		3	25.6			3										
RA		8	4	40	5		5	43.9			5										
RA		Totals			12		12	11.8			12										
Total All Species					106		106	100.0		11	34	8	19	17	7	9					

TC TLOGSTVB

Log Stock Table - MBF

Project: **MCPHERSN**

T03N R09W S35 TMC

T03N R09W S35 TMC

Twp Rge Sec
03N 09W 35

Tract
AREA 3

Type
MC

Acres
119.00

Plots
21

Sample Trees
121

Page
2

Date
3/24/2010

Time
3:57:37PM

SPP	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA				Totals	447	1.4	440	19.8				272	84	52	15	17				
DL	8	2	32		19	6.3	17	8.4									17			
DL	8	2	40		147	1.8	145	69.3									74	46	24	
DL	8	3	26		10	5.1	9	4.5									9			
DL	8	3	28		3		3	1.2						3						
DL	8	3	35		3	12.5	2	1.1					2							
DL	8	3	39		3	11.1	3	1.5					3							
DL	8	3	40		26		26	12.5				3		4	19					
DL	8	4	19		1		1	.6			1									
DL	8	4	31		2		2	.9			2									
DL				Totals	214	2.3	209	9.4			6	5	7	19		101	46	24		
BM	8	2	32		15	6.2	15	22.5						15						
BM	8	4	24		3		3	4.5			3									
BM	8	4	29		8		8	12.0				8								
BM	8	4	38		12		12	19.2			12									
BM	8	4	40		27		27	41.8			27									
BM				Totals	66	1.5	65	2.9			42	8		15						
SS	8	3	21		13	7.7	12	35.4						12						
SS	8	3	40		10		10	29.1			10									
SS	8	4	15		2		2	5.9			2									
SS	8	4	33		10		10	29.6			10									
SS				Totals	34	2.9	33	1.5			12	10		12						
Total All Species					2,251	1.3	2,222	100.0			277	574	466	356	205	84	189	46	24	

Log Stock Table - MBF

T03N R09W S26 TyMC 102.00
 T03N R09W S26 TyPC 5.00
 T03N R09W S35 TyMC 119.00

Project: MCPHERSN
 Acres 226.00

Page 3
 Date 3/24/2010
 Time 10:54:28AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
DL		8	3	26	10	5.1	9	1.9								9					
DL		8	3	28	3		3	.5					3								
DL		8	3	31	3	6.7	2	.5							2						
DL		8	3	33	3		3	.6					3								
DL		8	3	35	3	12.5	2	.5						2							
DL		8	3	39	3	11.1	3	.6													
DL		8	3	40	87		87	17.6			8			22	36				21		
DL		8	4	19	1		1	.3			1										
DL		8	4	31	2		2	.4			2										
DL		8	4	33	2		2	.3			2										
DL		8	4	34	3		3	.5			3										
DL		8	4	36	2		2	.4			2										
DL		8	4	40	3		3	.6			3										
DL		Totals			499	1.3	492	11.1			6	14	5	29	39	7	132	87	107	66	
SS		8	3	21	13	7.7	12	18.5						12							
SS		8	3	32	8	14.3	7	10.4				7									
SS		8	3	40	29		29	46.4			10			19							
SS		8	4	15	2		2	3.1			2										
SS		8	4	16	2		2	3.5			2										
SS		8	4	21	2		2	2.6			2										
SS		8	4	33	10		10	15.5			10										
SS		Totals			65	3.2	63	1.4			15	10	7	31							
BM		8	2	32	15	6.2	15	19.5						15							
BM		8	4	16	10		10	13.1			10										
BM		8	4	24	3		3	3.9			3										
BM		8	4	29	8		8	10.4				8									
BM		8	4	38	12		12	16.7			12										
BM		8	4	40	27		27	36.4			27										
BM		Totals			75	1.3	74	1.7			52	8		15							
Total		All Species			4,481	1.0	4,436	100.0			390	1166	882	832	413	219	273	87	107	66	

TC TSTNDSUM

Stand Table Summary

Project **MCPHERSN**

T03N R09W S26 TMC

T03N R09W S26 TMC

Twp Rge Sec Tract Type Acres Plots Sample Trees
03N 09W 26 AREA 1 MC 102.00 16 97

Page: 2
Date: 03/24/2010
Time: 3:53:19PM

S Spc	T	Sample DBH	FF Trees	Av Ht 16'	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
								Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF		
OC		Totals	12	75	29	5.422	25.21										
		Totals	97	83	76	170.426	203.76	251.16	21.9	82.2	153.17	5507	20,657	15,623	5,618	2,107	

Stand Table Summary																		
TC TSTNDSUM																		
Project MCPHERSN																		
T03N R09W S26 TPC										T03N R09W S26 TPC								
Page: 1																		
Date: 03/22/2010																		
Time: 11:39:35AM																		
Twp Rge Sec Tract Type Acres Plots Sample Trees																		
03N 09W 26 AREA 2 PC 5.00 2 15																		
Spc	S T	Sample			Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF		
DL		16	1	91	99	12.500	16.81	25.00	23.5	95.0	16.17	588	2,375	81	29	12		
DL		18	2	88	103	19.019	33.61	38.04	31.5	120.0	32.93	1,198	4,565	165	60	23		
DL		20	1	86	90	7.703	16.81	15.41	35.1	120.0	14.89	541	1,849	74	27	9		
DL		25	1	82	81	4.930	16.81	9.86	51.2	175.0	13.89	505	1,725	69	25	9		
DL		28	1	80	100	3.930	16.81	7.86	77.0	265.0	16.63	605	2,083	83	30	10		
DL		Totals			6	87	97	48.082	100.83	96.16	35.7	131.0	94.52	3,437	12,597	473	172	63
DF		10	1	90	75	30.811	16.81	30.81	12.8	60.0	11.21	393	1,849	56	20	9		
DF		11	1	89	78	25.464	16.81	50.93	8.2	40.0	11.93	418	2,037	60	21	10		
DF		15	1	83	102	14.067	16.81	28.13	21.6	80.0	17.32	608	2,251	87	30	11		
DF		Totals			3	88	81	70.342	50.42	109.87	12.9	55.9	40.46	1,419	6,136	202	71	31
RA		9	1	85	17	38.039	16.81	38.04	4.6	20.0	4.84	176	761	24	9	4		
RA		13	1	80	68	18.232	16.81	18.23	22.4	60.0	11.21	408	1,094	56	20	5		
RA		17	1	81	50	10.661	16.81	10.66	34.6	60.0	10.13	369	640	51	18	3		
RA		Totals			3	83	36	66.932	50.42	66.93	14.2	37.3	26.18	952	2,494	131	48	12
OC		30	1	98	17	3.423	16.81											
OC		40	1	54	20	1.926	16.81											
OC		45	1	53	20	1.522	16.81											
OC		Totals			3	76	19	6.871	50.42									
Totals					15	86	67	192.227	252.08	272.97	21.3	77.8	161.16	5809	21,228	806	290	106

TC TSTNDSUM

Stand Table Summary

Project **MCPHERSN**

T03N R09W S35 TMC

T03N R09W S35 TMC

Twp Rge Sec Tract
03N 09W 35 AREA 3

Type Acres Plots Sample Trees
MC 119.00 21 121

Page: **2**
 Date: **03/24/2011**
 Time: **3:59:37PM**

Spc	T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
OC		22	1	81	47	.606	1.60										
OC		25	1	99	17	.470	1.60										
OC		30	1	98	17	.326	1.60										
OC		35	2	76	19	.479	3.20										
OC		40	3	71	33	.550	4.80										
OC		45	2	84	56	.290	3.20										
OC		55	1	81	42	.097	1.60										
OC		Totals		12	83	59	6.441	19.21									
Totals			121	86	75	175.146	193.66	258.43	19.2	72.3	139.00	4953	18,676	16,541	5,894	2,222	



"STEWARDSHIP IN FORESTRY"

McPherson Ridge

Volume Summary

Area 1 - Modified Clearcut						
102 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir			5.8	589	5%	560
Sitka Spruce			0.3	31	5%	29
Red Alder			12.0	1226	10%	1104
Hemlock			0.5	46	5%	44
TOTAL				1892		1736

Area 2 - Partial Cut						
5 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir			6.1	31	5%	29
Red Alder			2.5	12	10%	11
TOTAL				43		40

Area 3 - Modified Clearcut						
119 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir			12.5	1491	5%	1417
Sitka Spruce			0.3	34	5%	32
Red Alder			3.8	447	10%	402
TOTAL				1972		1851

TOTAL SALE VOLUME			226 acres
SPECIES	Gross Vol. (MBF)	Vol. (MBF)	
Douglas-fir	2111	2005	
Sitka Spruce	65	61	
Red Alder	1685	1517	



"STEWARDSHIP IN FORESTRY"

McPherson Ridge

Volume Summary

Hemlock	46	44
TOTAL	3907	3627



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *McPherson Ridge*

1. Type of Sale

Partial Cut/Regeneration Harvest, Recovery

2. Legal Description

Portions of Sections 25, 26 and 35, T3N, R9W, W.M., Tillamook County, Oregon.

3. Sale Acreage

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

	ACRES	
	<u>Gross</u>	<u>Net</u>
Area 1 (Clearcut)	115	102
Area 2 (Partial Cut)	6	5
Area 3 (Clearcut)	124	119

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

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

4. Cruising Procedures

A. Cruise Method

A total of 38 variable radius plots were taken on the sale area, spaced on a rectangular grid of 350' x 700'. All plots were full cruise plots. All conifers 8 inches DBH and greater containing 20 net board feet and all hardwoods 10 inches DBH and greater containing 30 net board feet were recorded on all plots. Species were recorded on all trees, and they were graded and measured for merchantable height, diameter, and form factor.

B. Plot size

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

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Tree heights were recorded to a 6 inch top outside bark for all conifers and 7 inches top outside bark for hardwoods; or three tenths (0.3) of DBH for all species, whichever was greater. Log lengths all favored 40 feet for all species. Height and diameter measurement standards were to the nearest foot or inch respectively.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, stand tables, and volume for each species and type. This data was then entered into the Volume Summary table to compute sale volumes. The standard error for the cruise was 9.1% and the coefficient of variation was 56.7 % based on 20 MBF per acre.

6. Hidden Defect and Breakage

5% hidden defect and breakage was taken on conifers and 10% hidden defect and breakage was taken on hardwoods.

7. Timber Description

The entire sale area was burned in the 1933 Tillamook and the 1945 Salmonberry fires. A portion of Area 1 was replanted in 1963 and 1964 but is now predominantly red alder. There is some smaller zombie alder (alder aerially spray in the 1970's) near the ridges that have short boles and multiple tops. Lower slopes have higher quality alder. Area 2 is dominated by Douglas-fir with pockets of alder. The area was planted and is dense with co-dominant and intermediate Douglas-fir. The majority of Area 3 was planted in 1963 and 1964 with Douglas-fir. This stand is also dense with Douglas-fir and has scattered pockets of alder and big leaf maple. No other management has occurred on the sale area.

8. Cruiser Names/Dates

Service Contract Cruiser 2007

9. Revenue Distribution

FDF

Tax Code: 56-1

Deed Numbers: 35

10. Attachments

Stand Table (partial cut)

Volume Summaries

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave

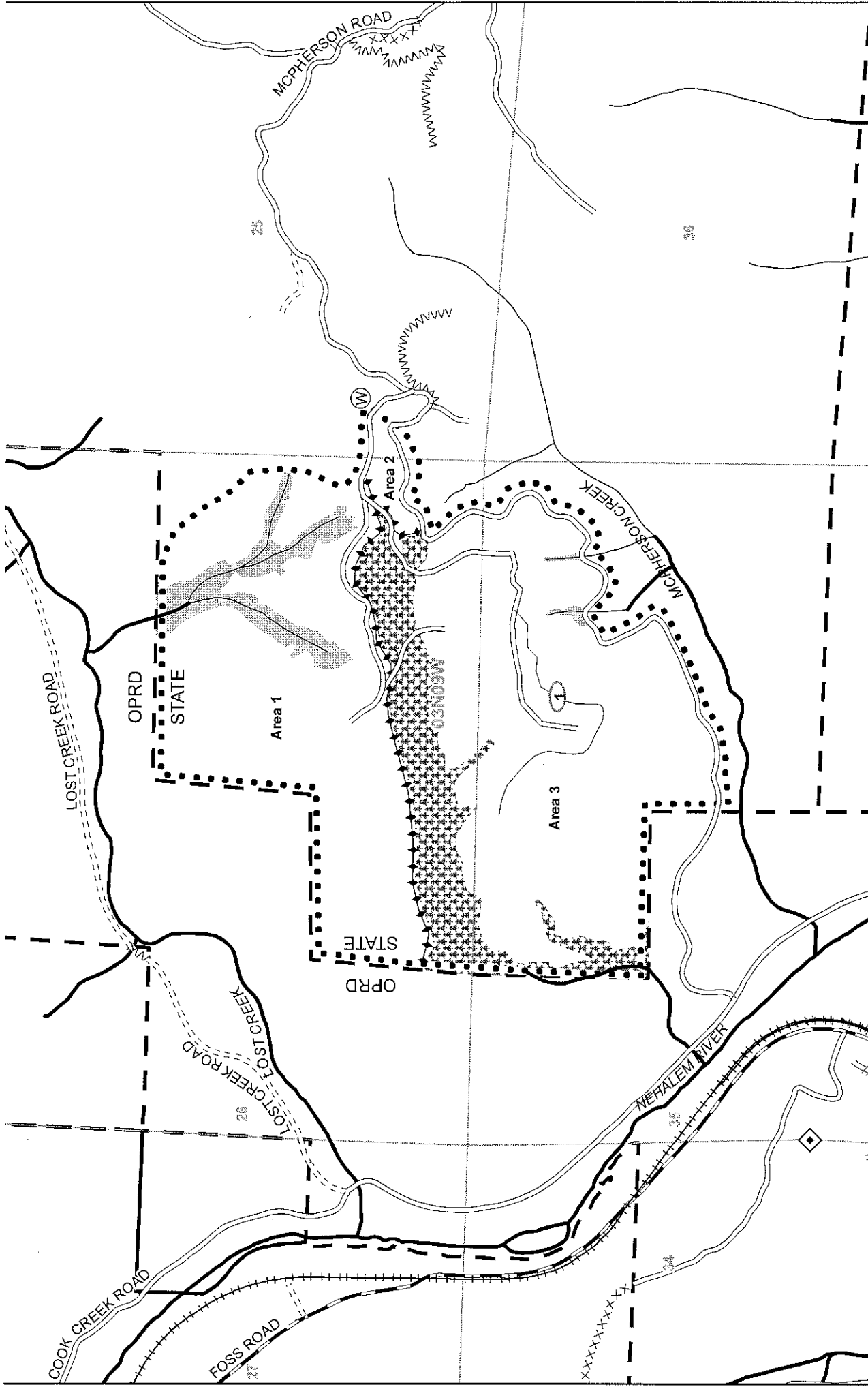
DF – Douglas-fir take

RA – Red alder take

RC – Western red cedar reserved

SS – Sitka spruce take

WH – Western hemlock take



LOGGING PLAN
 Timber Sale Contract No. 341-10-83
 McPherson Ridge
 Portions of Sections 25, 26 and 35
 T3N, R9W, W.M.,
 Tillamook County, Oregon

1,000 0 1,000 Feet

Tillamook District GIS
 3/18/2010
 This product is for informational use and may not have been prepared or suitable for local engineering or surveying purposes.

Area	Operation	Acres
1	Modified clearcut	116 102
2	Partial cut	5 5
3	Modified clearcut	160 119
Total		281 226

Legend:

- Rock source
- Stock pile
- Waste area
- Bridge
- Gate
- Survey corner
- Domestic water supply intake
- Truck turn-around
- Helicopter landing zone
- Landing
- Buffer
- Non-required thinning
- Cable yarding
- Ground yarding
- Helicopter yarding
- Downhill yarding
- Green tree
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- Unsurfaced road
- Surfaced road
- Paved road
- Abandoned road
- Swing road
- Non-project road
- Blocked road
- Road construction
- OHV trail
- Non-motorized trail
- Transmission line
- Railroad