



Timber Sale Appraisal
Common Meadows
Sale 341-11-69

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: January 11, 2011

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$364,709.16	\$0.00	\$364,709.16
		Project Work:	\$(36,050.00)
		Advertised Value:	\$328,659.16



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timber description

Location: Portions of Sections 1, 2, 10, 11, and 12, T3N, R9W, W.M., Tillamook County, Oregon.

Stand Stocking: 80%

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

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	53	941	462	1,456
Western Hemlock / Fir	18	328	236	582
Total	71	1,269	698	2,038



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comments: Pond Values Used: 4th Quarter Calendar Year 2010.

Western Red Cedar & Other Cedars Stumpage Price = Pond Value minus
Logging Cost
\$700/MBF = \$960/MBF - \$260/MBF

Red Alder & Other Hardwoods Stumpage Price = Pond Value minus
Logging Cost
\$280/MBF = \$540/MBF - \$260/MBF

Pulp (Conifer and Hardwood) Price = \$43/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 2,038 MBF = \$4,076
TOTAL Other Costs (with Profit & Risk to be added) = \$4,076

Other Costs (No Profit & Risk added):
Slash Piling and sorting: \$2.50/acre x 93(cable) acres = \$233
Cover Material for piles: 20 piles x \$5/pile = \$100
Snag Creation: \$10/snag x 108 snags = \$1,080
Non-Project Road 1: \$100/station x 10 stations = \$1,000
TOTAL Other Costs (No Profit & Risk added) = \$2,413

ROAD MAINTENANCE
Maintenance Rock: (\$9.00/cu. yd. x 6.4 miles x 20 cu.
yd./MMBF/mile x 2.038 MMBF)/2,038 MBF = \$1.15/MBF

Final Maintenance:
Grading - \$500/Mile x 6.4 miles x 1 grading/2,038 MBF = \$1.57/MBF

TOTAL ROAD MAINTENANCE COSTS: \$ 2.72/MBF



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logging conditions

combination#: 1 Douglas - Fir 8.00%
 Western Hemlock / Fir 10.00%

yarding distance: Medium (800 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: 5.0 **bd. ft / load:** 3,400
cost / mbf: \$166.72

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

combination#: 2 Douglas - Fir 22.00%
 Western Hemlock / Fir 55.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 3.0 **bd. ft / load:** 3,300
cost / mbf: \$145.28

machines: Stroke Delimber (B)

combination#: 3 Douglas - Fir 70.00%
 Western Hemlock / Fir 35.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Track Skidder **Process:** Feller Buncher
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 12.0 **bd. ft / load:** 3,300
cost / mbf: \$88.86

machines: Log Loader (B)
Stroke Delimber (B)
Feller Buncher w/ Delimber
Track Skidder



"STEWARDSHIP IN FORESTRY"

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Common Meadows
Sale 341-11-69

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logging costs

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$36,050.00	Other Costs (P/R):	\$4,076.00
Slash Disposal:	\$0.00	Other Costs:	\$2,413.00

Miles of Road

Road Maintenance: \$2.72

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	3.2
Western Hemlock / Fir	\$0.00	3.0	3.4



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 Sale 341-11-69

"STEWARDSHIP IN FORESTRY"

District: Tillamook

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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$107.50	\$2.86	\$4.30	\$99.87	\$2.00	\$32.48	\$0.00	\$5.00	\$1.18	\$255.19
Western Hemlock / Fir									
\$127.68	\$2.86	\$4.30	\$62.66	\$2.00	\$29.92	\$0.00	\$5.00	\$1.18	\$235.60

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$440.29	\$185.10	\$0.00
Western Hemlock / Fir	\$0.00	\$399.18	\$163.58	\$0.00



"STEWARDSHIP IN FORESTRY"

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Common Meadows
Sale 341-11-69

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Date: January 11, 2011

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,456	\$185.10	\$269,505.60
Western Hemlock / Fir	582	\$163.58	\$95,203.56

Gross Timber Sale Value

Recovery: \$364,709.16

Prepared by: David Luttrell

Phone: 503-815-7025

Pulp Appraisal

Sale Name	Common Meadows
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Species	Douglas-fir	Hemlock	Alder	
Stems Per/ac.	104	30	0	0
Acres	68	68	0	0
Total Stems	7072	2040	0	0
BF/Stem, Conversion	10	10	10	10
Total MBF Per/Species	71	20	0	0
Pond Value Per/MBF	\$270	\$340	\$340	\$0
* Logging + Hauling Costs	\$207.37	\$207.37	\$0.00	\$0.00
Stumpage	\$62.63	\$132.63	\$340.00	\$0.00
Tons Per/MBF, Conversion	10	10	10	10
Price Per/Ton	\$6.26	\$13.26	\$34.00	\$0.00
Total Tons Per/Species	707	204	0	0
Total Value	\$4,429.19	\$2,705.65	\$0.00	\$0.00

	Total Price	Price/Ton	Price/MBF
	\$7,134.85	\$7.83	\$78.30
Total Less P/R45%	\$3,924.17	\$4.31	\$43.07

** Contract Price	\$43
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* Used Douglas-fir logging and hauling price for conifer.

** Pulp price rounded down to nearest whole dollar



"STEWARDSHIP IN FORESTRY"

Common Meadows

Volume Summary

Area 1-Partial Cut				
65 acres				
SPECIES	Gross MBF/Acre	Gross MBF	Hidden & Visible D&B	Net Vol MBF
Douglas-fir	1.6	101	5.0%	96
Hemlock	6.8	443	5.4%	419
Spruce		0	5.0%	0
Noble Fir		0	5.0%	0
Alder		0	10.0%	0
TOTAL	8.4	544		515

Areas 2-Partial Cut				
65 acres				
SPECIES	Gross MBF/Acre	Gross MBF	Hidden & Visible D&B	Net Vol MBF
Douglas-fir	6.0	389	5.3%	368
Hemlock	1.5	96	5.0%	91
Spruce		0	5.0%	0
Noble Fir		0	5.0%	0
Alder		0	10.0%	0
TOTAL	7.5	485		460

Areas 3-Modified Clearcut				
54 acres				
SPECIES	Gross MBF/Acre	Gross MBF	Hidden & Visible D&B	Net Vol MBF
Douglas-fir	19.4	1050	5.6%	991
Hemlock	1.4	76	5.0%	72
Spruce		0	5.0%	0
Noble Fir		0	5.0%	0
Alder		0	10.0%	0
TOTAL	20.9	1126		1063

TOTAL SALE VOLUME			184 acres
SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)	
Douglas-fir	1540	1456	
Hemlock	615	582	
Spruce	0	0	



STEWARDSHIP IN FORESTRY

Common Meadows

Volume Summary

Noble Fir	0	0
Red Alder	0	0
TOTAL	2155	2038



PROJECT SUMMARY SHEET

Sale: Common Meadows

IMPROVEMENT

Point	A to B	51+35	stations =	\$2,691.93
Point	C to D	163+70	stations =	\$13,800.65
Point	E to F	60+00	stations =	\$3,154.50
SUBTOTAL IMPROVEMENT				\$19,647.08

SPECIAL PROJECTS

Construct Heliport at Point G	\$1,095.00
Rock Quarry Cleanup and Development (Points H and I)	\$7,426.00
SUBTOTAL SPECIAL PROJECTS	\$8,521.00

MOVE IN **\$3,131.92**

GRAND TOTAL **\$36,050.00**

SUMMARY OF CONSTRUCTION COST

Sale:

Common Meadows

Road:

A to B

<u>Construction -</u>	0+00	stations	<u>Improvement -</u>	51+35	stations	<u>Reconstruction -</u>	0+00	stations
	0.00	miles		0.97	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Scattering blowdown material outside road prism	3.000	Hours @	\$145.00 per Hour =	\$435.00	
			TOTAL CLEARING AND GRUBBING		\$435.00

IMPROVEMENT: EXCAVATION -

Road Earthwork (Endhaul organic matter to Waste Area)	51.35	sta. @	\$20.00 per sta. =	\$1,027.00	
			TOTAL EXCAVATION		\$1,027.00

ROCK

Spot Rock	50	cy. of	Crushed @	\$8.68 per c.y. =	\$434.00
			TOTAL ROCK		\$434.00

SPECIAL PROJECTS

Grade and shape road -	51.35	stations @	\$15.50 per station =	\$795.93	
			TOTAL SPECIAL PROJECTS		\$795.93

GRAND TOTAL	\$2,691.93
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SUMMARY OF CONSTRUCTION COST

Sale: Common Meadows Road: C to D

<u>Construction -</u>	0+00	stations	<u>Improvement -</u>	163+70	stations	<u>Reconstruction -</u>	0+00	stations
	0.00	miles		3.10	miles		0.00	miles

IMPROVEMENT:

Roadside Clearing- Scatter brush and old logging debris outside road prism	16.00	Hours @	\$145.00 per hour =	\$2,320.00	
			TOTAL CLEARING AND GRUBBING		\$2,320.00

IMPROVEMENT: EXCAVATION -

Road Earthwork (Ditchline excavation & Endhaul)	50.00	sta. @	\$70.00 per sta. =	\$3,500.00	
			TOTAL EXCAVATION		\$3,500.00

ROCK

29+00 to	40+00	110	cy. of	Crushed	@	\$9.19 per c.y.=	\$1,010.90	
52+40 to	56+40	40	cy. of	Crushed	@	\$9.19 per c.y.=	\$367.60	
92+10 to	96+30	210	cy. of	Pit Run	@	\$5.85 per c.y.=	\$1,228.50	
97+50 to	103+40	310	cy. of	Pit Run	@	\$5.85 per c.y.=	\$1,813.50	
Spot rock	42+70	10	cy. of	Crushed	@	\$9.48 per c.y.=	\$94.80	
Spot Rock	48+90	10	cy. of	Crushed	@	\$9.48 per c.y.=	\$94.80	
Spot Rock	62+40	20	cy. of	Crushed	@	\$9.48 per c.y.=	\$189.60	
Spot Rock	72+30	20	cy. of	Crushed	@	\$9.48 per c.y.=	\$189.60	
Turnaround	119+30	40	cy. of	Pit-Run	@	\$5.85 per c.y.=	\$234.00	
						TOTAL ROCK		\$5,223.30

SPECIAL PROJECTS

Grade and shape road -	163.70	stations @	\$15.50 per station	\$2,537.35	
Grass seed and fertilize -	1.00	acres @	\$220.00 per acre	\$220.00	
			TOTAL SPECIAL PROJECTS		\$2,757.35

GRAND TOTAL **\$13,800.65**

SUMMARY OF CONSTRUCTION COST

Sale: **Common Meadows** Road: **E to F**

Construction -	0+00	stations	Improvement -	60+00	stations	Reconstruction -	0+00	stations
	0.00	miles		1.14	miles		0.00	miles

ROCK								
Spot Rock	*	150	cy. of	Crushed	@	\$10.83 per c.y.=	\$1,624.50	
							TOTAL ROCK	\$1,624.50
SPECIAL PROJECTS								
Grade and shape road -		60.00	stations @			\$15.50 per station	\$930.00	
							TOTAL SPECIAL PROJECTS	\$930.00
							GRAND TOTAL	\$3,154.50

SUMMARY OF HELIPORT CONSTRUCTION COST

Sale:

Common Meadows

Road:

Point G

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

CLEARING OF HELIPORT ACCESS ROAD OF BRUSH

Roadside Brushing 0.30 miles @ \$600.00 per mile = \$180.00

ROCK

Heliport Surfacing 0+00 100 cy. of Pit-Run @ \$6.25 per c.y.= \$625.00
TOTAL ROCK \$625.00

SPECIAL PROJECTS

Construct Heliport - 2.00 hours @ \$145.00 per hour \$290.00
TOTAL SPECIAL PROJECTS \$290.00

GRAND TOTAL \$1,095.00

SUMMARY OF ROCK QUARRY CLEANUP - POINT H

Sale:

Common Meadows

Point

H

DETAILED COSTS

Sorting and Stockpiling of Rip Rap and Pit Run Rock	8.00	hours @	\$145.00	per hour	\$1,160.00	
Piling of slash and trees and construct burn pile of all woody debris	4.00	hours @	\$145.00	per hour	\$580.00	
Leveling of quarry floor with cat	4.00	hours @	\$145.00	per hour	\$580.00	
Improve Quarry Access Road	2.00	hours @	\$145.00	per hour	\$290.00	
Grass seed and fertilize -	0.30	acres @	\$220.00	per acre	\$66.00	
				TOTAL SPECIAL PROJECTS		\$2,676.00
				GRAND TOTAL		\$2,676.00

SUMMARY OF ROCK QUARRY CLEANUP - POINT I

Sale:

Common Meadows

Point I

DETAILED COSTS

Sorting and Stockpiling of Rip Rap and Pit Run Rock	16.00	hours @	\$145.00	per hour	\$2,320.00	
Piling of slash and trees and construct burn pile of all woody debris	6.00	hours @	\$145.00	per hour	\$870.00	
Leveling of quarry floor with cat	8.00	hours @	\$145.00	per hour	\$1,160.00	
Improve Drainage to Quarry Access Road	2.00	hours @	\$145.00	per hour	\$290.00	
Grass seed and fertilize -	0.50	acres @	\$220.00	per acre	\$110.00	
				TOTAL SPECIAL PROJECTS		\$4,750.00
				GRAND TOTAL		\$4,750.00

ROCK COST SUMMARY

Pit:	Crushed	Location:	SW 1/4 SE 1/4 Section 9 T3N R9W W.M.
Sale:	Common Meadows	Road:	410 c.y.
		Total Truck Loads:	410 c.y.

Load Dump Truck:	\$0.70 /cu.yd.	x	410 cu.yds.	=	\$287.00
			Subtotal		\$287.00

Move in Grader	1	@	\$201.97	=	\$201.97
Move in Loader	1	@	\$761.96	=	\$761.96
Move in Trucks	2	@	\$225.29	=	\$450.58
			Subtotal		\$1,414.51

Base Cost=	\$4.15	Per Cu.Yd.	TOTAL PRODUCTION COSTS	\$1,701.51
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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 Spot Rock (Crushed)	3.43	1.10	4.15	8.68	50	\$434.00
C to D 2900 4000 (Crushed)	3.94	1.10	4.15	9.19	110	\$1,010.90
C to D 5240 5640 (Crushed)	3.94	1.10	4.15	9.19	40	\$367.60
C to D Spot rock (Crushed)	4.23	1.10	4.15	9.48	10	\$94.80
C to D Spot Rock (Crushed)	4.23	1.10	4.15	9.48	10	\$94.80
C to D Spot Rock (Crushed)	4.23	1.10	4.15	9.48	20	\$189.60
C to D Spot Rock (Crushed)	4.23	1.10	4.15	9.48	20	\$189.60
E to F Spot Rock (Crushed)	5.58	1.10	4.15	10.83	150	\$1,624.50
				Total C.Y.	410	Sub Total \$4,005.80

TOTAL ROCKING COSTS \$4,005.80

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

Sale: **Common Meadows**

LOWBOY HAUL (Round Trip)	
DIST. (mi)	AVE SPEED (mph)
50.0	30
14.0	7
2.0	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within		Total Cost
								Area Cost	Area Cost	
1	Excavators (Large)	\$1,027.99	1	\$44.80	0.00	0.00	2	\$89.60	\$1,117.59	
1	Tractors (D7)	\$921.42	2	\$11.30	0.00	0.00	2	\$22.60	\$944.02	
1	Dump Truck (Off Hiway)	\$829.82	1	\$4.75	0.00	2.00	2	\$9.50	\$839.32	
1	Water Truck (1500 Gal)	\$225.29		\$2.85	0.00	2.00	2	\$5.70	\$230.99	
TOTAL MOVE-IN COSTS:									\$3,131.92	

ROAD SEGMENT:		A to B		STATIONS:		0+00 to 51+35	
Application	Rock Size and Type	Location	Approx. Total (CY)				
Spot Rock	Crushed 1 1/2"-0"	*	50				
ROAD SEGMENT:		C to D		STATIONS:		29+00 to 103+40	
Application	Rock Size and Type	Location	Compacted Depth	Volume (CY) per	Number of Units	Curve Widening (CY)	Approx. Total (CY)
Road Rock	Crushed 1 1/2"-0"	29+00 to 40+00	2"	station 10	11.00	0	110
Road Rock	Crushed 1 1/2"-0"	52+40 to 56+40	2"	station 10	4.00	0	40
Road Rock	Pit Run 6"-0"	92+10 to 96+30	9"	station 48	4.20	10	210
Road Rock	Pit Run 6"-0"	97+50 to 103+40	9"	station 48	5.90	10	310
Turnaround	Pit Run 6"-0"	119+30					40
Application	Rock Size and Type	Location	Approx. Total (CY)				
Spot rock	Crushed 1 1/2"-0"	42+70	10				
Spot Rock	Crushed 1 1/2"-0"	48+90	10				
Spot Rock	Crushed 1 1/2"-0"	62+40	20				
Spot Rock	Crushed 1 1/2"-0"	72+30	20				
ROAD SEGMENT:		E to F		STATIONS:		0+00 to 60+00	
Application	Rock Size and Type	Location	Approx. Total (CY)				
Spot Rock	Crushed 1 1/2"-0"	*	150				
Heliport		Point G					
Heliport Surfacing	Pit-Run 6"-0"	Point G	100				
Rock Totals (CY)		1 1/2"-0"	6"-0" pit-run				
		410	660				

Log Stock Table - MBF

T03N R09W S04 Ty01 65.00

Project: CMEADOWS
Acres 65.00

Page 2
Date 11/15/2010
Time 10:28:30AM

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+	
DF		Totals			101		101	6.5		45	36	19									
WL		8	2	40	225	1.6	221	28.3					67	52	102						
WL		8	3	32	38		38	4.8			19	19									
WL		8	3	35	4		4	.5			4										
WL		8	3	36	5		5	.7		5											
WL		8	3	37	7		7	.9		7											
WL		8	3	38	5		5	.7		5											
WL		8	3	40	398		398	50.9		48	12	168	100	70							
WL		8	4	18	3		3	.4		3											
WL		8	4	19	6		6	.7		6											
WL		8	4	22	15		15	1.9		15											
WL		8	4	23	2		2	.3		2											
WL		8	4	24	4		4	.5		4											
WL		8	4	25	5		5	.6		5											
WL		8	4	27	3		3	.4		3											
WL		8	4	28	14		14	1.8		14											
WL		8	4	29	7		7	.9		7											
WL		8	4	32	10		10	1.3		10											
WL		8	4	33	12		12	1.5		12											
WL		8	4	36	5		5	.6		5											
WL		8	4	38	5		5	.6		5											
WL		8	4	39	14		14	1.8		14											
WL		Totals			786		783	50.9		170	35	186	168	122	102						
SS		8	3	36	4		4	100.0		4											
SS		Totals			4		4	.2		4											
Total		All Species			1,545		1,538	100.0		78	393	250	406	187	122	102					

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)								Page 1										
		Project: CMEADOWS								Date 11/15/2010										
										Time 10:36:39AM										
T03N R09W S02 T02										T03N R09W S02 T02										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
03N	09W	02	AREA2	02	65.00	13	62	S	W											
Spp	S T	So rt	Gr ad	%	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 Ft	Bd Ft	CF/ Lf	
DF	8	2	9		589	589	38	100				100				40	264	1.82	2.2	
DF	8	3	42		2,506	2,506	163	100				100				40	84	0.54	29.8	
DF	8	4	49	.7	2,885	2,866	186	89	11				28	22	6	44	27	29	0.31	98.1
DF	Totals			36	.3	5,980	5,960	387	43	47	10		13	10	3	73	30	46	0.41	130.1
WL	8	2	24		1,321	1,321	86	100				100				40	281	1.83	4.7	
WL	8	3	45		2,457	2,457	160	100				24 76				38	83	0.63	29.6	
WL	8	4	31	2.1	1,694	1,659	108	14	86			16	52	4	29	25	36	0.42	46.7	
WL	Totals			33	.6	5,472	5,437	353	4	71	24		5	16	12	67	31	67	0.62	81.0
DL	8	3	61	2.1	2,371	2,321	151	100				10 90				39	108	0.71	21.4	
DL	8	4	39	3.8	1,524	1,465	95	82	18			8	31	12	49	29	33	0.42	44.1	
DL	Totals			23	2.8	3,895	3,786	246	32	68			3	12	11	74	33	58	0.54	65.6
WH	8	3	44		666	666	43	100				100				40	118	0.77	5.7	
WH	8	4	56		815	815	53	35	65			42	35	23		22	27	0.29	30.4	
WH	Totals			9		1,481	1,481	96	20	80			23	19	13	45	25	41	0.41	36.1
Type Totals					1.0	16,827	16,664	1,083	26	63	11		9	13	9	69	30	53	0.50	312.7

TC		TSTNDSUM		Stand Table Summary												
Project														CMEADOW		
T03N R09W S02 T02										T03N R09W S02 T02						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees			Page:	1					
03N	09W	02	AREA2	02	65.00	13	62			Date:	11/15/2010					
										Time:	10:38:00AM					
Spc	S T	Sample			Av			Average Log		Net			Totals			
		DBH	Trees	FF 16'	Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Cunits	MBF
DF		8	1	84	34	8.815	3.08	8.81	4.0	20.0	1.01	36	176	66	23	11
DF		9	4	85	54	27.859	12.31	27.86	7.5	30.0	5.96	209	836	387	136	54
DF		10	5	86	70	28.207	15.38	39.49	8.4	34.3	9.46	332	1,354	615	216	88
DF		11	3	88	57	13.987	9.23	13.99	12.5	43.3	4.97	174	606	323	113	39
DF		12	4	86	75	15.671	12.31	19.59	13.7	48.0	7.67	269	940	499	175	61
DF		15	1	83	94	2.507	3.08	5.01	20.7	75.0	2.96	104	376	193	68	24
DF		17	1	84	89	1.952	3.08	3.90	25.8	85.0	2.89	101	332	188	65	22
DF		18	2	88	81	3.482	6.15	6.96	26.3	95.0	5.22	183	662	339	119	43
DF		22	1	83	92	1.166	3.08	2.33	45.1	140.0	3.00	105	326	195	68	21
DF		23	1	88	87	1.066	3.08	2.13	46.9	165.0	2.85	100	352	185	65	23
DF	Totals	23	86	64	104.712	70.77	130.09	12.4	45.8	46.00	1,613	5,960	2,990	1,049	387	
WL		8	1	84	31	8.815	3.08	8.81	3.8	20.0	1.08	34	176	70	22	11
WL		10	1	93	35	5.641	3.08	5.64	7.7	30.0	1.38	43	169	90	28	11
WL		11	2	89	88	9.325	6.15	13.99	11.7	46.7	5.22	163	653	339	106	42
WL		12	2	87	112	7.835	6.15	15.67	13.9	60.0	6.95	217	940	452	141	61
WL		13	1	93	52	3.338	3.08	3.34	18.7	60.0	1.99	62	200	130	40	13
WL		14	1	93	45	2.878	3.08	2.88	19.6	50.0	1.80	56	144	117	37	9
WL		15	3	92	58	7.522	9.23	10.03	20.8	67.5	6.68	209	677	434	136	44
WL		16	1	84	104	2.204	3.08	4.41	25.5	100.0	3.60	113	441	234	73	29
WL		17	1	89	38	1.952	3.08	1.95	24.5	30.0	1.53	48	59	100	31	4
WL		18	1	85	79	1.741	3.08	3.48	28.8	90.0	3.18	100	313	207	65	20
WL		19	1	83	91	1.563	3.08	3.13	34.7	120.0	3.47	108	375	225	70	24
WL		20	1	86	58	1.410	3.08	1.41	48.2	120.0	2.18	68	169	141	44	11
WL		22	1	88	84	1.166	3.08	2.33	45.9	160.0	3.43	107	373	223	70	24
WL		23	1	88	83	1.066	3.08	2.13	48.4	160.0	3.30	103	341	215	67	22
WL		25	1	88	87	.903	3.08	1.81	61.2	225.0	3.53	110	406	230	72	26
WL	Totals	19	89	67	57.359	58.46	81.01	19.0	67.1	49.33	1,542	5,437	3,207	1,003	353	
DL		11	2	74	50	9.325	6.15	9.32	13.4	30.0	3.43	125	280	223	81	18
DL		12	1	92	87	3.918	3.08	7.84	12.4	55.0	2.67	97	431	174	63	28
DL		13	4	85	74	13.353	12.31	20.03	16.4	50.0	9.03	328	1,001	587	213	65
DL		15	5	87	76	12.537	15.38	20.06	21.3	70.0	11.73	427	1,404	763	277	91
DL		16	1	89	89	2.204	3.08	4.41	22.5	90.0	2.73	99	397	177	64	26
DL		17	1	85	65	1.952	3.08	3.90	18.8	70.0	2.02	73	273	131	48	18
DL	Totals	14	84	71	43.287	43.08	65.56	17.5	57.8	31.60	1,149	3,786	2,054	747	246	
WH		8	1	84	26	8.815	3.08	8.81	3.6	20.0	1.02	32	176	67	21	11
WH		10	2	90	29	11.283	6.15	11.28	6.4	25.0	2.31	72	282	150	47	18
WH		11	1	91	48	4.662	3.08	4.66	11.0	40.0	1.72	51	186	111	33	12
WH		12	1	84	117	3.918	3.08	7.84	14.5	60.0	3.63	113	470	236	74	31
WH		18	1	88	82	1.741	3.08	3.48	28.7	105.0	3.20	100	366	208	65	24
WH	Totals	6	88	45	30.419	18.46	36.08	10.2	41.0	11.88	369	1,481	772	240	96	
Totals		62	86	63	235.777	190.77	312.73	14.9	53.3	138.81	4,673	16,664	9,023	3,038	1,083	

Stand Table Summary																
TC TSINDSUM																
Project CMEADOW																
T03N R09W S03 T03										T03N R09W S03 T03						
Page: 1																
Date: 11/15/2010																
Time: 10:41:55AM																
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees									
03N	09W	03	AREA3	03	54.00	8	39									
Spc	S T	Sample			Av			Average Log		Net			Totals			
		DBH	Trees	FF 16'	Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Cunits	MBF
DF		8	1	87	70	14.324	5.00	14.32	7.1	40.0	2.88	101	573	156	55	31
DF		9	2	92	58	22.635	10.00	11.32	9.5	40.0	3.05	107	453	165	58	24
DF		11	1	88	63	7.576	5.00	7.58	13.6	40.0	2.94	103	303	159	56	16
DF		12	3	90	70	19.099	15.00	31.83	11.7	44.0	10.58	371	1,401	572	201	76
DF		13	4	91	71	21.698	20.00	37.97	14.0	52.9	15.13	531	2,007	817	287	108
DF		14	2	86	96	9.354	10.00	18.71	17.2	67.5	9.16	321	1,263	495	174	68
DF		15	5	90	78	20.372	25.00	40.74	18.2	73.0	21.14	742	2,974	1,141	400	161
DF		16	6	91	82	21.486	30.00	42.97	22.0	88.3	27.00	947	3,796	1,458	512	205
DF		17	4	91	84	12.688	20.00	25.38	25.5	101.2	18.43	647	2,569	995	349	139
DF		18	4	91	85	11.318	20.00	22.64	28.0	110.0	18.04	633	2,490	974	342	134
DF		19	1	93	77	2.539	5.00	5.08	29.1	105.0	4.22	148	533	228	80	29
DF		20	1	92	68	2.292	5.00	4.58	29.4	110.0	3.85	135	504	208	73	27
DF		21	1	88	76	2.079	5.00	4.16	35.2	110.0	4.17	146	457	225	79	25
DF	Totals		35	90	74	167.460	175.00	267.28	18.5	72.3	140.59	4,933	19,323	7,592	2,664	1,043
WH		18	1	85	104	2.829	5.00	5.66	35.1	130.0	6.36	199	736	343	107	40
WH		20	1	88	91	2.292	5.00	4.58	40.3	145.0	5.91	185	665	319	100	36
WH	Totals		2	86	98	5.121	10.00	10.24	37.4	136.7	12.26	383	1,400	662	207	76
WL		23	1	84	95	1.733	5.00	3.47	54.6	210.0	6.06	189	728	327	102	39
WL		30	1	87	82	1.019	5.00	2.04	85.0	165.0	5.54	173	336	299	94	18
WL	Totals		2	85	90	2.752	10.00	5.50	65.9	193.3	11.60	363	1,064	627	196	57
Totals			39	90	75	175.333	195.00	283.02	20.1	77.0	164.46	5679	21,788	8,881	3,067	1,177

T03N R09W S03 T03		T03N R09W S03 T03
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt		BdFt
03N 09W 03 AREA3 03 54.00 8 39 S W		

Spp	S T	So rt	Gr ad	%	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 Ft	Bd Ft	CF/ Lf			
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF		8	2	2		416	416	22										40	200	1.48	2.1	
DF		8	3	74	.6	14,433	14,342	774		86	14				10	90		39	132	0.81	109.1	
DF		8	4	24	.5	4,587	4,566	247	100					20	25	18	36	28	29	0.32	156.1	
DF	Totals			89	.6	19,436	19,323	1,043	24	64	13			5	6	12	77	32	72	0.57	267.3	
WH		8	2	39		550	550	30								100		40	240	1.55	2.3	
WH		8	3	48		680	680	37		17	83					17	83	37	133	0.99	5.1	
WH		8	4	13		170	170	9		100							100	39	60	0.49	2.8	
WH	Totals			6		1,400	1,400	76	20	80						8	92	38	137	0.98	10.2	
WL		8	3	90	25.3	1,286	960	52		5	65	30			5		95	37	255	2.28	3.8	
WL		8	4	10		104	104	6		100							100	38	60	0.71	1.7	
WL	Totals			5	23.5	1,390	1,064	57		15	59	27			5		95	37	193	1.77	5.5	
Type Totals					2.0	22,226	21,788	1,177	21	58	19	1			4	6	11	79	33	77	0.62	283.0

TC TLOGSTVB

Log Stock Table - MBF

Project: **CMEADOWS**

T03N R09W S02 T02

T03N R09W S02 T02

Twp Rge Sec Tract Type Acres Plots Sample Trees
 03N 09W 02 AREA2 02 65.00 13 62

Page 2
 Date 11/15/2010
 Time 10:35:10AM

Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	SpC	2-3	4-5	6-7	8-9	10-11	12-13	14-15
WH		8	3	40		43		43	45.0				23	20						
WH		8	4	18		11		11	11.9		11									
WH		8	4	19		3		3	3.5			3								
WH		8	4	20		7		7	7.6		7									
WH		8	4	22		11		11	11.4			11								
WH		8	4	23		8		8	7.9			8								
WH		8	4	31		12		12	12.6			12								
WH		Totals				96		96	8.9		19	34	23	20						
Total All Species						1,094		1,083	100.0		278	268	218	196	38	62	23			

TC TLOGSTVB

Log Stock Table - MBF

Project: CMEADOWS

T03N R09W S03 T03

T03N R09W S03 T03

Twp Rge Sec Tract Type Acres Plots Sample Trees
 03N 09W 03 AREA3 03 54.00 8 39

Page 1
 Date 11/15/2010
 Time 10:39:35AM

Spp	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches												
									MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
DF	8	2	40		22		22	2.2					22								
DF	8	3	32		77		77	7.4				50	26								
DF	8	3	40		703	.7	698	66.9			24	206	357	111							
DF	8	4	15		4		4	.4		4											
DF	8	4	16		11		11	1.0		11											
DF	8	4	17		12		12	1.1		12											
DF	8	4	18		10		10	.9		10											
DF	8	4	19		10		10	1.0		10											
DF	8	4	20		3		3	.3		3											
DF	8	4	21		6		6	.6		6											
DF	8	4	22		9		9	.9		9											
DF	8	4	23		13		13	1.2		13											
DF	8	4	24		14	8.0	13	1.2		13											
DF	8	4	26		11		11	1.0		11											
DF	8	4	30		11		11	1.0		11											
DF	8	4	34		7		7	.7		7											
DF	8	4	35		39		39	3.7		39											
DF	8	4	37		10		10	1.0		10											
DF	8	4	38		12		12	1.2		12											
DF	8	4	39		24		24	2.3		24											
DF	8	4	40		42		42	4.0		42											
DF	Totals				1,050		1,043	88.7		247	24	256	383	133							
WH	8	2	40		30		30	39.3					30								
WH	8	3	33		6		6	8.2		6											
WH	8	3	40		31		31	40.4					31								
WH	8	4	39		9		9	12.1		9											
WH	Totals				76		76	6.4		15			60								
WL	8	3	28		3		3	4.8			3										
WL	8	3	40		67	26.4	49	85.4					34	15							
WL	8	4	38		6		6	9.8		6											
WL	Totals				75	23.5	57	4.9		6	3		34	15							
Total All Species					1,200	2.0	1,177	100.0		247	45	259	383	193	34	15					

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page 1								
Project: CMEADOWS												Date 11/15/2010								
												Time 10:30:40AM								
T03N R09W S04 T01										T03N R09W S04 T01										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
03N	09W	04	AREA1	01	65.00	12	68	S	W											
Spp	S	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log			Logs
					Net	Def%	Gross		Net	Log Scale Dia.				Log Length				Ln	Bd	
								Net MBF	4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	Ft	Lf	Per
WL	8	2		28	1.6	3,461	3,407	221			75	25				100	40	317	1.99	10.8
WL	8	3		58		7,044	7,044	458		63	37				9	91	39	134	1.00	52.6
WL	8	4		14		1,594	1,594	104		100			8	48	22	22	27	36	0.46	44.0
WL	Totals			51	.4	12,099	12,045	783		50	43	7	1	6	8	84	34	112	0.94	107.3
WH	8	3		58		3,987	3,987	259		92	8				15	85	39	117	0.82	34.0
WH	8	4		42	1.0	2,829	2,801	182		100			16	36	23	25	25	37	0.44	76.1
WH	Totals			29	.4	6,815	6,788	441		96	4		7	15	18	60	30	62	0.59	110.1
DL	8	3		82	.6	2,676	2,659	173		100					9	91	39	124	0.88	21.5
DL	8	4		18		567	567	37	89	11			27	73			24	26	0.31	21.5
DL	Totals			14	.5	3,242	3,225	210	16	84			5	13	8	75	31	75	0.67	42.9
DF	8	3		55		853	853	55		100					70	30	34	66	0.48	12.9
DF	8	4		45		696	696	45	100				47	18		35	24	26	0.25	26.6
DF	Totals			7		1,549	1,549	101	45	55			21	8	39	32	28	39	0.34	39.5
SS	8	3		100		59	59	4		100						100	36	60	2.43	1.0
SS	Totals			0		59	59	4		100						100	36	60	2.43	1.0
Type Totals					.4	23,765	23,667	1,538	5	68	23	4	4	10	13	73	31	79	0.71	300.8

TC		TSTNDSUM		Stand Table Summary												
Project													CMEADOW			
T03N R09W S04 T01										T03N R09W S04 T01						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1			Date:	11/15/2010			
03N	09W	04	AREA1	01	65.00	12	68	Time:	10:32:32AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.		Net Bd.Ft.	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
WL		11	1	81	31	5.051	3.33	5.05	9.4	30.0	1.52	48	152	99	31	10
WL		12	2	86	81	8.488	6.67	12.73	14.1	53.3	5.76	180	679	374	117	44
WL		13	2	81	63	7.233	6.67	7.23	22.1	60.0	5.11	160	434	332	104	28
WL		15	1	84	100	2.716	3.33	5.43	22.9	90.0	3.98	125	489	259	81	32
WL		16	4	84	87	9.549	13.33	19.10	22.8	85.0	13.91	435	1,623	904	283	106
WL		17	3	86	83	6.344	10.00	10.57	30.1	106.0	10.18	318	1,121	662	207	73
WL		18	1	81	87	1.886	3.33	3.77	29.4	105.0	3.55	111	396	231	72	26
WL		19	2	84	91	3.386	6.67	6.77	34.8	120.0	7.54	236	813	490	153	53
WL		20	4	83	100	6.112	13.33	12.22	41.2	140.0	16.11	503	1,711	1,047	327	111
WL		21	3	88	95	4.158	10.00	8.32	45.1	171.7	11.99	375	1,427	780	244	93
WL		22	2	81	83	2.525	6.67	5.05	43.0	127.5	6.96	217	644	452	141	42
WL		23	2	78	97	2.311	6.67	4.62	53.8	175.0	7.96	249	809	517	162	53
WL		24	1	86	98	1.061	3.33	2.12	61.3	230.0	4.16	130	488	271	85	32
WL		25	1	88	97	.978	3.33	1.96	67.6	260.0	4.23	132	508	275	86	33
WL		26	1	83	90	.904	3.33	.90	101.7	340.0	2.94	92	307	191	60	20
WL		29	1	84	93	.727	3.33	1.45	85.3	305.0	3.97	124	443	258	81	29
WL		Totals	31	84	82	63.428	103.33	107.31	32.0	112.2	109.86	3,433	12,045	7,141	2,232	783
WH		8	1	80	17	9.549	3.33	9.55	3.8	20.0	1.17	36	191	76	24	12
WH		9	1	87	30	7.545	3.33	7.55	5.2	20.0	1.25	39	151	81	25	10
WH		11	2	79	40	10.102	6.67	5.05	15.0	50.0	2.42	76	253	157	49	16
WH		12	4	82	67	16.977	13.33	21.22	15.0	50.0	10.15	317	1,061	660	206	69
WH		13	3	83	69	10.849	10.00	14.47	17.8	57.5	8.26	258	832	537	168	54
WH		14	2	84	74	6.236	6.67	9.35	20.5	70.0	6.15	192	655	399	125	43
WH		15	3	85	91	8.149	10.00	16.30	20.7	76.7	10.83	337	1,249	704	219	81
WH		16	4	85	89	9.549	13.33	19.10	23.5	85.0	14.34	448	1,623	932	291	106
WH		18	2	86	82	3.773	6.67	7.55	27.8	102.5	6.71	209	773	436	136	50
WH		Totals	22	83	61	82.729	73.33	110.13	17.4	61.6	61.28	1,914	6,788	3,983	1,244	441
DL		14	1	85	82	3.118	3.33	6.24	14.9	55.0	2.55	93	343	166	60	22
DL		15	3	85	84	8.149	10.00	16.30	17.6	63.3	7.91	288	1,032	514	187	67
DL		16	1	85	93	2.387	3.33	4.77	24.5	90.0	3.22	117	430	209	76	28
DL		17	2	84	88	4.229	6.67	8.46	24.8	90.0	5.76	209	761	374	136	49
DL		18	1	86	73	1.886	3.33	3.77	24.3	85.0	2.52	92	321	164	60	21
DL		19	1	85	88	1.693	3.33	3.39	30.5	100.0	2.82	103	339	183	67	22
DL		Totals	9	85	85	21.463	30.00	42.93	21.0	75.1	24.78	902	3,225	1,611	586	210
DF		9	1	77	31	7.545	3.33	7.55	4.9	20.0	1.04	37	151	68	24	10
DF		10	1	85	68	6.112	3.33	6.11	11.6	40.0	2.01	71	244	131	46	16
DF		11	1	84	82	5.051	3.33	10.10	8.1	40.0	2.34	82	404	152	53	26
DF		12	1	84	89	4.244	3.33	8.49	11.1	50.0	2.69	94	424	175	61	28
DF		13	1	84	85	3.616	3.33	7.23	12.3	45.0	2.54	89	325	165	58	21
DF		Totals	5	82	66	26.568	16.67	39.48	9.4	39.2	10.63	373	1,549	691	242	101
SS		25	1	63	48	.978	3.33	.98	87.4	60.0	2.22	85	59	144	56	4
SS		Totals	1	63	48	.978	3.33	.98	87.4	60.0	2.22	85	59	144	56	4
Totals			68	83	71	195.166	226.67	300.82	22.3	78.7	208.76	6707	23,667	13,570	4,360	1,538



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Common Meadows*

1. **Type of Sale**

Thinning/Regeneration harvest, Recovery

2. **Legal Description**

Portions of Sections 1, 2, 10, 11 & 12, 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 (Partial Cut)	66	65
Area 2 (Partial Cut)	70	65
Area 3 (Clearcut)	56	54

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 33 variable radius plots were used on the sale area, spaced on a rectangular grid of 250' x 750'. All plots were full cruise plots. All conifers 8 inches DBH and greater containing 20 net board feet. No merchantable hardwoods were present on any plot. Species were recorded on all trees, and they were graded and measured for merchantable height, diameter, and form factor. The standard error and the coefficient of variation for the cruise as based on Net/BF per acre shown in the table below.

Cruise Statistics (Net/BF Volume Per Acre)			
Area	Number of Plots	SE(%)	CV (%)
1	12	10.6	35.2
2	13	16.8	58.3
3	8	12.0	31.7
Total	33	8.0	45.9

B. Plot size

A basal area factor of 40 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; or three tenths (0.3) of DBH, whichever was greater. Log lengths all favored 40 feet. 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.

6. Hidden Defect and Breakage

5% hidden defect and breakage was taken on conifers. There was an additional .3 percent visible defect for Douglas-fir and .4 percent visible defect for Hemlock.

7. Timber Description

Area 1 (Partial Cut) – This stand ranges from 43 to 70 years old consisting of a mix of Western Hemlock and Douglas-fir with minor amounts of Spruce, Western Red Cedar and Alder. The Hemlock and Douglas-fir averages 14.6 inches in DBH, with an average merchantable height of 71 feet to a merchantable top (5" d.i.b.). A small amount of Red alder was observed in the stand but was not captured in the cruise. Height to diameter ratios average 66 and crown ratios average 43%. The understory is comprised of mostly sword fern with small amounts of salmonberry and salal.

About 75% of the area was planted in 1967 and the rest of the stand is 60-70 year old natural regeneration. Approximately 15 acres on the western edge was pre-commercially thinned at about 15 years old. The rest of the stand has had no prior management.

Area 2 (Partial Cut) – This is a mixed Douglas-fir and western hemlock stand. This area was planted between 1969 and 1973 and a portion of the stand was pruned in 1993. The hemlock and Douglas-fir averages 12.2 inches in DBH, with an average merchantable height of 63 feet to a merchantable top (5" d.i.b.). The area has slow growing Douglas-fir impacted by Swiss needle cast. The stand also has some hardwood and other conifer species present throughout the stand. Average live crown ratios are at about 40-45%. The understory is comprised of mostly sword fern with small amounts of salmonberry and salal. No recent fire activity in this stand.

Area 3 (Modified Clearcut) – This is a planted stand with an average age of 40 comprised of Douglas-fir stand that has a small amount of western hemlock. The

hemlock and Douglas-fir averages 14.3 inches in DBH, with an average merchantable height of 75 feet to a merchantable top (5" d.i.b.). The Douglas-fir is growing slow and is impacted by Swiss needle cast. A portion of the area was pruned around 1993 although a firm date is unavailable. There are a few hardwoods and other conifer species present throughout the stand. Average live crown ratios are at about 40-45%. The understory is comprised of mostly sword fern with small amounts of salmonberry and salal. No recent fire activity in this stand.

8. Cruiser Names/Dates

Dave Luttrell, Nick Stumpf, Ed Wallmark
Feb. 2007

9. Revenue Distribution

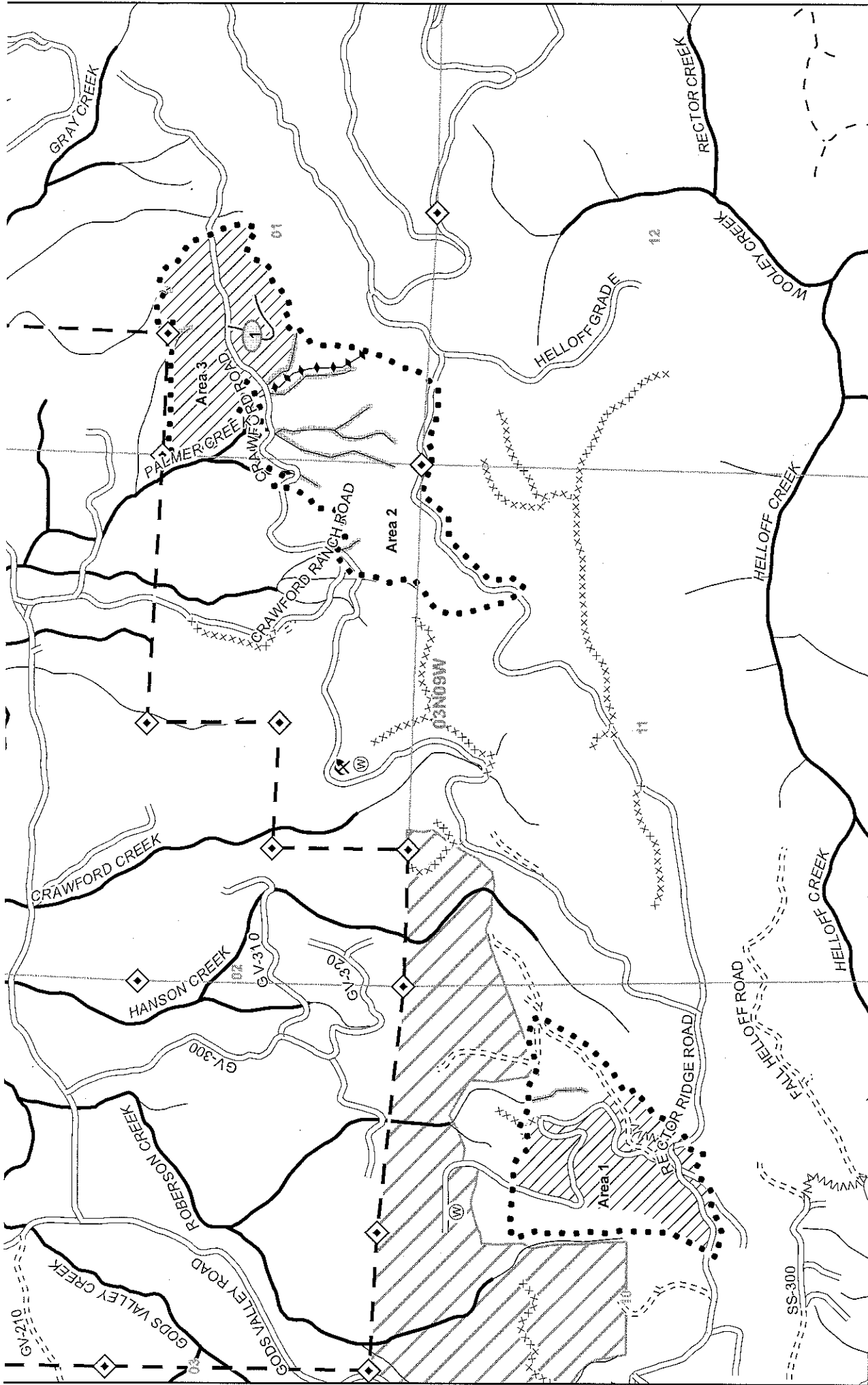
FDF: 100%
Tax Code: 56-1
Deed Numbers: 35, 70, 441

10. Attachments

Volume Summaries
Log Stand Table
Log Stock Tables
Species, Sort, Grade Tables
Logging Plan

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave
DF – Douglas-fir take
NF – Noble fir reserved
RA – Red alder
RC – Western red cedar reserved
SS – Sitka spruce
WL – Western hemlock leave
WH – Western hemlock take

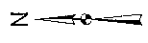


LOGGING PLAN

Timber Sale Contract No. 341-11-69
COMMON MEADOWS
 Portions of Sections 1, 2, 10, 11 and 12,
 T3N, R9W, W.M.,
 Tillamook County, Oregon

- 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
- OHV trail
- Non-motorized trail
- Transmission line
- Railroad
- Restricted Area

Type of Area Operation	Acres	Gross Net
1 Partial cut	66	65
2 Partial cut	70	65
3 Modified clearcut	56	54
Total	192	184



Tillamook District GIS
 11/12/2010
 This product is for informational use and may not have been prepared or suitable for legal application or enumeration purposes.