"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Murphy
Sale 341-10-84

District: Tillamook **Date:** March 08, 2010

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$250,636.33	$164,117.36	$414,753.69
		Project Work:	$(91,290.00)
		Advertised Value:	$323,463.69

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Murphy
Sale 341-10-84

District: **Tillamook** **Date:** **March 08, 2010**

timber description

Location: Portions of Sections 34 and 35, T1S, R7W and portions of Section 2, T2S, R7W, W.M., Tillamook County, Oregon.

Stand Stocking: 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	95
Western Hemlock / Fir	12	0	95
Alder (Red)	14	0	95

Volume by Grade	10" - 11"	2S	3S	4S	6" - 7"	8" - 9"	Total
Douglas - Fir	0	204	1,073	488	0	0	1,765
Western Hemlock / Fir	0	0	115	91	0	0	206
Alder (Red)	206	0	0	0	784	142	1,132
Total	206	204	1,188	579	784	142	3,103

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Murphy
Sale 341-10-84

District: Tillamook **Date: March 08, 2010**

comments: Pond Values Used: 4th Quarter Calendar Year 2009.

Western Red Cedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost
$510/MBF = $790/MBF - $280/MBF

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: $1/MBF x 3,103 MBF = $3,103
TOTAL Other Costs (with Profit and Risk to be added) = $3,103

Other Costs (No Profit & Risk added):
Tank trap installation on un-surfaced road: 1 x $ 75 = $75
TOTAL Other Costs (No Profit & Risk added) = $75

ROAD MAINTENANCE
Road Maintenance: North Fork Trask, Bark Shanty and Township Roads
Interim Grading: $250/mile x 8.5 miles x 2 times / 3,103 MBF = $ 1.37/mbf
Final Grading: $500/ mile x 8.5 miles / 3,103 MBF = $ 1.37/ MBF
Maintenance Rock 3" x 90 cy x 4.99/ cy / 3,103 MBF = $ 0.14

TOTAL ROAD MAINTENANCE COST: $ 2.88 / MBF

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Murphy
Sale 341-10-84

District: Tillamook **Date: March 08, 2010**

logging conditions

combination#: 1

	Douglas - Fir	94.14%
	Western Hemlock / Fir	99.47%
	Alder (Red)	94.40%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 5.5 **bd. ft / load:** 4,100
cost / mbf: $148.30

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

combination#: 2

	Douglas - Fir	3.54%
	Western Hemlock / Fir	0.53%
	Alder (Red)	3.83%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 5.0 **bd. ft / load:** 4,000
cost / mbf: $71.91

machines: Stroke Delimber (B)

combination#: 3

	Douglas - Fir	2.32%
	Alder (Red)	1.77%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Feller Buncher
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 5.0 **bd. ft / load:** 3,700
cost / mbf: $77.76

machines: Feller Buncher w/ Delimber

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Murphy
Sale 341-10-84

District: Tillamook **Date:** March 08, 2010

logging costs

Operating Seasons:	2.00	**Profit Risk:**	10.00%
Project Costs:	$91,290.00	**Other Costs (P/R):**	$3,103.00
Slash Disposal:	$0.00	**Other Costs:**	$75.00

Miles of Road

Road Maintenance: $2.88

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	4.1
Western Hemlock / Fir	$0.00	4.0	3.8
Alder (Red)	$0.00	2.0	3.5

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Murphy
Sale 341-10-84

District: Tillamook **Date: March 08, 2010**

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
$143.96	$3.02	$2.83	$54.33	$1.00	$20.51	$0.00	$5.00	$0.02	$230.67
Western Hemlock / Fir									
$147.89	$3.02	$2.83	$43.96	$1.00	$19.87	$0.00	$5.00	$0.02	$223.59
Alder (Red)									
$144.12	$3.02	$2.83	$95.46	$1.00	$24.64	$0.00	$5.00	$0.02	$276.09

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$366.28	$135.61	$0.00
Western Hemlock / Fir	$0.00	$278.37	$54.78	$0.00
Alder (Red)	$0.00	$421.07	$144.98	$0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Murphy
Sale 341-10-84

District: Tillamook **Date:** March 08, 2010

summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,765	$135.61	$239,351.65
Western Hemlock / Fir	206	$54.78	$11,284.68
Alder (Red)	1,132	$144.98	$164,117.36

Gross Timber Sale Value

Recovery: $414,753.69

Prepared by: Kevin Boyd **Phone:** 503-842-2545

PROJECT SUMMARY SHEET

Sale: North Murphy

CONSTRUCTION

Point	A to B	19+55	stations =	$24,608.11
Point	E to F	9+25	stations =	$24,538.69
			SUBTOTAL CONSTRUCTION	**$49,146.80**

IMPROVEMENT

Point	G to H	306+90	stations =	$4,971.45
			SUBTOTAL IMPROVEMENT	**$4,971.45**

RECONSTRUCTION

Point	A to B	6+90	stations =	$3,295.83
Point	C to D	3+50	stations =	$5,309.30
Point	E to F	30+25	stations =	$22,199.26
			SUBTOTAL RECONSTRUCTION	**$30,804.39**

SPECIAL PROJECTS

Bridge Guard Rail Repair @ Point I	$600.00
SUBTOTAL SPECIAL PROJECTS	**$600.00**

MOVE IN **$5,767.36**

GRAND TOTAL **$91,290.00**

North Murphy

Species	Stems/ac	x Acres	Total Stems	BF/Stem	Total MBF	Total Tons
Douglas-fir	78	200	15600	10	156	1560
Hemlock	20	200	4000	10	40	400
Alder	73	200	14600	10	146	1460

Species	Pond/MBF	Log + Haul	Stumpage	Tons/per MBF	Price/Ton	Total Tons	Total Value	Total P/R 10%
Douglas-fir	$260	$230.74	$29.26	10	$2.93	1560	$4,564.56	$4,108.10
Hemlock	$300	$223.34	$76.66	10	$7.67	400	$3,066.40	$2,759.76
Alder	$320	$275.96	$44.04	10	$4.40	1460	$6,429.84	$5,786.86
						3,420		
Total Price							**$14,060.80**	**$12,654.72**
Price/Ton							**$4.11**	**$3.70**
Price/MBF							**$41.11**	**$37.00**

"STEWARDSHIP IN FORESTRY"

North Murphy

Volume Summary

Area 1-Modified Clearcut				
		110 acres		
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF
Douglas-fir	10.5	1157	5%	1099
Hemlock	1.9	205	5%	195
Alder	6.9	754	10%	678
TOTAL	19.2	2116		1972

Areas 2-Modified Clearcut				
		86 acres		
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF
Douglas-fir	7.7	658	5%	625
Hemlock	0.1	11	5%	10
Alder	5.6	482	10%	434
TOTAL	13.4	1152		1070

Areas 3-Partial Cut				
		4 acres		
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF
Douglas-fir	10.8	43	5%	41
Hemlock		0	5%	0
Alder	5.5	22	10%	20
TOTAL	16.3	65		61

TOTAL SALE VOLUME	200 acres	
SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)
Douglas-fir	1858	1765
Hemlock	216	206
Red Alder	1258	1132
TOTAL	3332	3103

TC TLOGSTVB

Log Stock Table - MBF

Project: NMURPHY

T01S R07W S35 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	35	SALE	0100	110.00	18	112

T01S R07W S35 T0100

Page 1
Date 2/5/2009
Time 2:22:44PM

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		CU	CL	6																
DF		DO	2M	32	153		153	13.3						20	87	46				
DF		DO	2M	36	15		15	1.3						15						
DF		DO	2M	40	47		47	4.1						19	28					
DF		DO	3M	32	269	.4	268	23.3			31	54	110	73						
DF		DO	3M	33	4		4	.3			4									
DF		DO	3M	36	16		16	1.4			16									
DF		DO	3M	40	342	.9	338	29.4			16	72	100	151						
DF		DO	4M	17	5		5	.5		5										
DF		DO	4M	18	5		5	.5		5										
DF		DO	4M	19	3		3	.2			3									
DF		DO	4M	21	7		7	.6				7								
DF		DO	4M	22	22		22	1.9		22										
DF		DO	4M	25	10		10	.9		10										
DF		DO	4M	26	5		5	.4		5										
DF		DO	4M	27	15		15	1.3		15										
DF		DO	4M	28	2		2	.2		2										
DF		DO	4M	29	8		8	.7		8										
DF		DO	4M	30	12		12	1.0		12										
DF		DO	4M	31	12		12	1.1		12										
DF		DO	4M	32	4		4	.4			4									
DF		DO	4M	34	5		5	.4		5										
DF		DO	4M	35	42		42	3.7		42										
DF		DO	4M	36	8		8	.7		8										
DF		DO	4M	37	34		34	2.9		34										
DF		DO	4M	39	3		3	.2		3										
DF		DO	4M	40	103		103	9.0		52	51									
DF		DO	4M	41	7		7	.6		7										
DF		Totals			1,156		1,152	47.3		247	124	132	210	278	115	46				
RA		CU	CL	5																
RA		CU	CL	6																
RA		CU	CL	11																
RA		CU	CL	14	12	100.0														
RA		DO	2M	11																
RA		DO	2M	15	12		12	1.7								12				
RA		DO	2M	40	61	1.1	61	8.3						38	23					
RA		DO	3M	32	66	3.5	64	8.8				8	56							
RA		DO	3M	36	28		28	3.8			7		21							
RA		DO	3M	40	80		80	10.9					80							
RA		DO	4M	15	26		26	3.5			26									
RA		DO	4M	17	4		4	.5			4									
RA		DO	4M	19	10		10	1.4			10									
RA		DO	4M	20	10		10	1.3			10									
RA		DO	4M	21	10		10	1.4			10									
RA		DO	4M	22	12		12	1.7			12									
RA		DO	4M	23	10		10	1.4			10									
RA		DO	4M	24	5		5	.7			5									
RA		DO	4M	25	21		21	2.8			21									
RA		DO	4M	26	4		4	.6			4									

TC TLOGSTVB

Log Stock Table - MBF

Project: NMURPHY

T01S R07W S35 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	35	SALE	0100	110.00	18	112

T01S R07W S35 T0100

Date 2/5/2009

Time 2:22:44PM

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		DO	4M	27	6		6	.8			6									
RA		DO	4M	28	21		21	2.8			21									
RA		DO	4M	29	10		10	1.4			10									
RA		DO	4M	31	3		3	.4			3									
RA		DO	4M	32	133		133	18.2			37	72	23							
RA		DO	4M	35	11		11	1.5			11									
RA		DO	4M	36	19		19	2.6				19								
RA		DO	4M	37	6		6	.9			6									
RA		DO	4M	38	13		13	1.8			13									
RA		DO	4M	40	172	11.7	152	20.8			103	49								
RA		Totals			765	4.5	731	30.0			329	149	180	38	23	12				
OG		CU	CL	15	40	100.0														
OG		CU	CL	19	3	100.0														
OG		CU	CL	21	16	100.0														
OG		CU	CL	22	1	100.0														
OG		CU	CL	24	1	100.0														
OG		CU	CL	26	19	100.0														
OG		CU	CL	27	2	100.0														
OG		CU	CL	29	19	100.0														
OG		Totals			101	100.0														
WH		DO	3M	32	83		83	40.3			19		26	19	20					
WH		DO	3M	40	40		40	19.3				18	22							
WH		DO	4M	19	3		3	1.4		3										
WH		DO	4M	26	9		9	4.5		9										
WH		DO	4M	34	5		5	2.3		5										
WH		DO	4M	35	6		6	2.9		6										
WH		DO	4M	36	31		31	15.1		31										
WH		DO	4M	37	19		19	9.1		19										
WH		DO	4M	38	10		10	5.1		10										
WH		Totals			205		205	8.4		83	19	18	48	19	20					
DL		DO	2M	32	21		21	14.4								21				
DL		DO	2M	40	77		77	53.2								77				
DL		DO	3M	28	3		3	1.8			3									
DL		DO	3M	32	31		31	21.2						31						
DL		DO	3M	34	3		3	2.3			3									
DL		DO	3M	36	4		4	2.5			4									
DL		DO	3M	40	12	62.5	5	3.2						5						
DL		DO	4M	30	2		2	1.5			2									
DL		Totals			153	5.1	145	5.9			12			35		98				
WL		CU	CL	5																
WL		DO	2M	40	136	1.2	134	77.4									66	68		
WL		DO	3M	24	4		4	2.6				2	2							
WL		DO	3M	33	3		3	2.0					3							
WL		DO	3M	36	19		19	11.1							19					
WL		DO	3M	40	12		12	6.9								12				
WL		Totals			175		173	7.1				2	6		19	12	66	68		

TC TLOGSTVB

Log Stock Table - MBF

Project: NMURPHY

T01S R07W S35 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	35	SALE	0100	110.00	18	112

T01S R07W S35 T0100

Page 3
Date 2/5/2009
Time 2:22:44PM

Spp	S T	So	Grade	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+
OC		CU	CL	19	2	100.0														
OC		CU	CL	26	22	100.0														
OC		CU	CL	27	1	100.0														
OC		Totals			26	100.0														
OH		CU	CL	23	3	100.0														
OH		Totals			3	100.0														
RC		DO	2M	32	22		22	68.2										22		
RC		DO	3M	25	1		1	3.5				1								
RC		DO	3M	32	9		9	28.2								9				
RC		Totals			32		32	1.3				1				9		22		
Total All Species					2,615	6.8	2,438	100.0		329		484	302	444	369	177	177	66	90	

TC TLOGSTVB

Log Stock Table - MBF

Project: NMURPHY

T01S R07W S35 T0200

T01S R07W S35 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	35	SALE	0200	86.00	15	88

Page 1
Date 2/5/2009
Time 2:25:17PM

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		CU	CL	2																
RA		CU	CL	3																
RA		CU	CL	7																
RA		CU	CL	23	4	100.0														
RA		DO	2M	16	23		23	5.2							11	12				
RA		DO	2M	32	16	6.3	15	3.4						15						
RA		DO	2M	36	15		15	3.4						15						
RA		DO	2M	40	20	5.0	19	4.3						19						
RA		DO	3M	14	7		7	1.6					7							
RA		DO	3M	32	31	8.3	29	6.6					29							
RA		DO	4M	12	2		2	.4			2									
RA		DO	4M	14	7		7	1.7			7									
RA		DO	4M	15	3		3	.6			3									
RA		DO	4M	16	8		8	1.9			8									
RA		DO	4M	17	3		3	.6			3									
RA		DO	4M	18	7		7	1.7			7									
RA		DO	4M	19	1		1	.3			1									
RA		DO	4M	21	4		4	1.0			4									
RA		DO	4M	22	15		15	3.5			8	7								
RA		DO	4M	24	3		3	.7			3									
RA		DO	4M	25	19		19	4.4			19									
RA		DO	4M	27	14		14	3.1			14									
RA		DO	4M	30	26		26	6.0			26									
RA		DO	4M	31	17	100.0														
RA		DO	4M	32	61	5.1	58	13.4				58								
RA		DO	4M	34	22	100.0														
RA		DO	4M	35	26		26	5.9			26									
RA		DO	4M	37	13	16.7	10	2.4			10									
RA		DO	4M	38	13		13	2.9			13									
RA		DO	4M	40	108	.7	108	24.9			73	34								
RA		Totals			486	11.0	433	35.8			227	99	36	48	11	12				
DF		CU	CL	3																
DF		CU	CL	34	16	100.0														
DF		CU	CL	35	4	100.0														
DF		DO	2M	35	11		11	1.7						11						
DF		DO	3M	23	8	16.7	7	1.1				7								
DF		DO	3M	32	59	10.1	53	8.1				37	16							
DF		DO	3M	36	119		119	18.4			88		17	14						
DF		DO	3M	40	285	.7	283	43.6			88	122	35	38						
DF		DO	4M	14	6		6	1.0	6											
DF		DO	4M	15	17		17	2.6	17											
DF		DO	4M	17	9		9	1.3	9											
DF		DO	4M	18	7		7	1.0	7											
DF		DO	4M	19	19		19	3.0	13			6								
DF		DO	4M	20	2		2	.2	2											
DF		DO	4M	21	7		7	1.0	7											
DF		DO	4M	22	8		8	1.3	8											
DF		DO	4M	23	5		5	.8	5											
DF		DO	4M	25	5		5	.8	5											

TC TLOGSTVB

Log Stock Table - MBF

Project: NMURPHY

T01S R07W S35 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	35	SALE	0200	86.00	15	88

T01S R07W S35 T0200

Date 2/5/2009

Time 2:25:17PM

Spp	ST	So	Grade	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	4M	26	7		7	1.1		7										
DF		DO	4M	27	9		9	1.3		9										
DF		DO	4M	28	7		7	1.0		7										
DF		DO	4M	31	4		4	.6		4										
DF		DO	4M	34	8		8	1.3		8										
DF		DO	4M	35	5		5	.7		5										
DF		DO	4M	40	51		51	7.9		26	25									
DF			Totals		679	4.4	649	53.7		145	201	172	68	64						
OG		CU	CL	8																
OG		CU	CL	15	46	100.0														
OG		CU	CL	19	4	100.0														
OG		CU	CL	24	4	100.0														
OG		CU	CL	26	20	100.0														
OG		CU	CL	27	1	100.0														
OG		CU	CL	28	46	100.0														
OG		CU	CL	29	14	100.0														
OG		CU	CL	30	2	100.0														
OG		CU	CL	34	21	100.0														
OG		CU	CL	39	2	100.0														
OG			Totals		159	100.0														
DL		CU	CL	25	15	100.0														
DL		DO	2M	32	78	8.4	71	60.9								46		25		
DL		DO	3M	24	2	11.1	2	1.7						2						
DL		DO	3M	32	24	5.6	22	19.1				5	9	9						
DL		DO	3M	40	16	8.3	15	12.6						15						
DL		DO	4M	12	1		1	.6			1									
DL		DO	4M	27	2		2	1.6			2									
DL		DO	4M	31	4		4	3.6		2	2									
DL			Totals		141	17.1	117	9.7		2	5	5	11	24		46		25		
WH		DO	4M	17	11		11	100.0		11										
WH			Totals		11		11	.9		11										
Total All Species					1,477	18.1	1,209	100.0		158	433	276	114	135	11	58		25		

TC TLOGSTVB

Log Stock Table - MBF

Project: NMURPHY

T01S R07W S35 T0300

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	35	SALE	0300	4.00	3	24

T01S R07W S35 T0300

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Date 2/5/2009
Time 2:08:25PM

Spp	ST	Sort	Grade	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	3M	32	7		7	17.2			3	4								
DF		DO	3M	36	5		5	11.4			5									
DF		DO	3M	40	14		14	33.1			5	10								
DF		DO	4M	16	2		2	3.8		2										
DF		DO	4M	21	1		1	2.6		1										
DF		DO	4M	24	4		4	10.3		2	3									
DF		DO	4M	26	2		2	4.7		2										
DF		DO	4M	29	2		2	4.0		2										
DF		DO	4M	30	1		1	3.4		1										
DF		DO	4M	36	4		4	9.4		4										
DF		Totals			43		43	42.0		14	16	14								
DL		DO	2M	32	5		5	11.7										5		
DL		DO	3M	25	0		0	.6		0										
DL		DO	3M	32	2		2	4.0						2						
DL		DO	3M	40	26		26	64.3			8	14	5							
DL		DO	4M	22	1		1	2.4		1										
DL		DO	4M	25	3		3	8.4		3										
DL		DO	4M	26	1		1	2.7		1										
DL		DO	4M	30	1		1	1.9		1										
DL		DO	4M	39	2		2	4.1		2										
DL		Totals			41		41	39.9		8	8	14	5	2				5		
RA		CU	CL	2																
RA		CU	CL	7																
RA		DO	2M	18	3		3	15.1						3						
RA		DO	3M	13	2	12.5	2	9.6						2						
RA		DO	3M	20	3		3	15.8					3							
RA		DO	4M	17	1		1	6.2			1									
RA		DO	4M	26	1		1	5.9			1									
RA		DO	4M	32	4	85.7	1	3.1				1								
RA		DO	4M	36	2		2	8.2			2									
RA		DO	4M	39	2		2	8.2			2									
RA		DO	4M	40	5		5	27.8			5									
RA		Totals			22	16.6	18	18.0			10	1	3	5						
OG		CU	CL	24	1	100.0														
OG		CU	CL	29	0	100.0														
OG		Totals			1	100.0														
Total All Species					107	4.2	102	100.0		22	34	28	7	6				5		

TC TSTNDSUM

Stand Table Summary

Project NMURPHY

T01S R07W S35 T0300

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	35	SALE	0300	4.00	3	24

T01S R07W S35 T0300

Page: 1
Date: 02/05/2005
Time: 2:01:48PM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		9	1	81	74	25.359	11.20	25.36	10.4	40.0	7.52	264	1,014	30	11	4
DF		10	1	80	108	20.541	11.20	41.08	8.0	40.0	9.37	329	1,643	37	13	7
DF		11	2	81	84	33.952	22.41	50.93	11.5	46.7	16.89	585	2,377	68	23	10
DF		12	3	83	95	42.794	33.61	85.59	12.0	50.0	29.38	1,031	4,279	118	41	17
DF		13	1	88	102	12.154	11.20	24.31	15.0	60.0	10.38	364	1,459	42	15	6
DF		Totals	8	82	91	134.800	89.63	227.27	11.3	47.4	73.55	2,573	10,772	294	103	43
DL		12	2	85	103	28.529	22.41	57.06	12.4	50.0	19.49	709	2,853	78	28	11
DL		13	1	86	91	12.154	11.20	24.31	14.0	55.0	9.37	341	1,337	37	14	5
DL		14	1	85	113	10.480	11.20	20.96	20.7	80.0	11.96	435	1,677	48	17	7
DL		15	1	87	89	9.129	11.20	18.26	18.9	75.0	9.47	344	1,369	38	14	5
DL		18	1	85	89	6.340	11.20	12.68	28.3	105.0	9.88	359	1,331	40	14	5
DL		31	1	79	103	2.137	11.20	6.41	61.9	260.0	11.00	397	1,667	44	16	7
DL		Totals	7	85	99	68.770	78.42	139.68	18.5	73.3	71.17	2,585	10,235	285	103	41
RA		12	2	79	86	28.529	22.41	42.79	14.9	30.0	17.71	636	1,284	71	25	5
RA		15	1	81	67	9.129	11.20	18.26	15.0	55.0	7.53	274	1,004	30	11	4
RA		17	1	80	64	7.108	11.20	7.11	28.5	60.0	5.56	202	426	22	8	2
RA		18	2	76	74	12.680	22.41	25.36	20.7	75.0	14.69	525	1,902	59	21	8
RA		Totals	6	79	77	57.446	67.22	93.52	17.5	49.4	45.50	1,637	4,616	182	65	18
OG		35	3	69	28	5.030	33.61				12.45			50		
OG		Totals	3	69	28	5.030	33.61				12.45			50		
Totals			24	82	89	266.046	268.88	460.46	14.8	55.6	202.68	6795	25,623	811	272	102

TC TSTNDSUM

Stand Table Summary

North Murphy **Project** NMURPHY

T01S R07W S35 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	35	SALE	0100	110.00	18	112

T01S R07W S35 T0100

Page: 1
Date: 03/10/2005
Time: 2:50:11PM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		8	2	81	74	10.698	3.73	10.70	8.7	40.0	2.66	93	428	293	103	47
DF		9	3	81	65	12.680	5.60	12.68	9.0	33.3	3.25	114	423	358	126	46
DF		10	2	82	93	6.847	3.73	6.85	12.3	50.0	2.66	84	342	292	92	38
DF		11	1	82	78	2.829	1.87	2.83	17.1	60.0	1.38	48	170	152	53	19
DF		12	4	83	85	9.510	7.47	19.02	10.8	42.5	5.84	205	808	643	225	89
DF		13	2	84	90	4.051	3.73	8.10	13.2	47.5	3.06	107	385	336	118	42
DF		14	3	82	102	5.240	5.60	10.48	17.7	60.0	5.34	186	629	587	205	69
DF		15	2	84	98	3.043	3.73	7.61	16.2	66.0	3.50	123	502	386	135	55
DF		16	2	84	107	2.675	3.73	5.35	25.1	95.0	3.83	134	508	421	148	56
DF		17	1	81	101	1.185	1.87	2.37	27.4	95.0	1.85	65	225	203	71	25
DF		18	3	84	118	3.170	5.60	8.45	26.1	106.3	6.29	221	898	692	243	99
DF		19	4	82	111	3.793	7.47	9.48	29.6	107.0	8.04	281	1,015	885	309	112
DF		20	4	84	108	3.423	7.47	8.56	33.0	127.0	8.05	283	1,087	886	311	120
DF		21	3	82	102	2.329	5.60	5.43	37.0	142.9	5.73	201	776	630	221	85
DF		22	7	83	99	4.951	13.07	11.32	41.5	149.4	13.40	470	1,691	1,474	517	186
DF		23	1	78	127	.647	1.87	1.94	38.5	153.3	2.13	75	298	235	82	33
DF		24	1	81	109	.594	1.87	1.78	38.5	163.3	1.96	69	291	215	75	32
DF		Totals	45	82	89	77.666	84.03	132.95	20.8	78.8	78.97	2,759	10,476	8,687	3,035	1,152
RA		8	2	79	34	10.698	3.73	10.70	4.5	20.0	1.32	48	214	145	53	24
RA		9	2	80	56	8.453	3.73	8.45	8.2	30.0	1.91	70	254	210	76	28
RA		10	2	79	90	6.847	3.73	6.85	16.0	60.0	3.01	109	411	331	120	45
RA		11	2	81	107	5.659	3.73	11.32	9.7	40.0	3.01	110	453	331	120	50
RA		12	1	77	48	2.377	1.87	2.38	14.2	40.0	.93	34	95	102	37	10
RA		13	7	83	90	14.180	13.07	22.28	18.1	60.9	11.12	403	1,357	1,224	444	149
RA		14	3	86	83	5.240	5.60	10.48	16.6	65.0	4.77	173	681	525	191	75
RA		15	3	80	84	4.565	5.60	7.61	17.4	66.0	4.14	132	502	456	146	55
RA		16	4	81	77	5.349	7.47	9.36	23.8	81.4	6.13	223	762	674	245	84
RA		17	3	85	76	3.554	5.60	5.92	26.7	94.0	4.34	158	557	478	174	61
RA		18	4	81	77	4.227	7.47	8.45	23.0	76.3	5.97	195	645	657	214	71
RA		19	1	84	100	.948	1.87	1.90	36.6	130.0	1.91	69	247	210	76	27
RA		23	2	80	70	1.294	3.73	2.59	40.7	122.5	2.90	105	317	319	116	35
RA		24	1	81	87	.594	1.87	1.19	57.4	195.0	1.88	68	232	206	75	25
RA		Totals	37	81	74	73.986	69.09	109.48	17.3	61.4	53.34	1,898	6,726	5,868	2,088	740
WH		9	1	81	76	4.227	1.87	4.23	10.7	40.0	1.45	45	169	159	50	19
WH		10	1	78	68	3.423	1.87	3.42	12.3	40.0	1.34	42	137	148	46	15
WH		11	2	78	81	5.659	3.73	8.49	11.5	43.3	3.12	97	368	343	107	40
WH		12	1	81	55	2.377	1.87	2.38	17.5	40.0	1.33	42	95	147	46	10
WH		16	2	81	91	2.675	3.73	5.35	23.3	82.5	3.98	124	441	438	137	49
WH		18	1	82	128	1.057	1.87	3.17	25.7	106.7	2.60	81	338	286	89	37
WH		21	1	80	125	.776	1.87	2.33	33.8	136.7	2.52	79	318	277	87	35
WH		Totals	9	80	80	20.194	16.81	29.36	17.4	63.6	16.34	511	1,867	1,797	562	205
WL		34	1	86	176	.296	1.87	1.18	98.1	545.0	3.74	116	646	412	128	71
WL		37	1	78	180	.250	1.87	1.00	109.3	565.0	3.50	109	565	385	120	62
WL		38	1	75	153	.237	1.87	.71	102.7	510.0	2.34	73	363	257	80	40
WL		Totals	3	80	170	.783	5.60	2.90	103.1	543.3	9.58	299	1,574	1,054	328	173
DL		24	1	84	123	.594	1.87	1.78	41.4	176.7	2.03	74	315	223	81	35
DL		25	1	82	134	.548	1.87	1.64	49.6	206.7	2.24	81	340	246	90	37
DL		26	1	85	125	.506	1.87	1.52	54.0	230.0	2.26	82	349	248	90	38
DL		27	1	84	136	.470	1.87	1.41	61.3	223.3	2.39	86	315	263	95	35

TC TSTNDSUM

Stand Table Summary

North Murphy

Project NMURPHY

T01S R07W S35 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	35	SALE	0100	110.00	18	112

Date: 03/10/2005
Time: 2:50:11PM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DL		Totals	4	84	129	2.118	7.47	6.35	50.9	207.5	8.92	324	1,319	981	356	145
RC		45	1	74	108	.169	1.87	.51	138.9	566.7	1.66	70	287	182	77	32
RC		Totals	1	74	108	.169	1.87	.51	138.9	566.7	1.66	70	287	182	77	32
OC		35	1	53	21	.279	1.87				.56			61		
OC		40	1	86	60	.214	1.87				1.21			133		
OC		Totals	2	67	38	.493	3.73				1.77			194		
OG		9	1	73	60	4.227	1.87				.99			109		
OG		20	1	74	36	.856	1.87				.78			85		
OG		25	2	76	19	1.096	3.73				1.14			126		
OG		35	3	74	43	.838	5.60				2.84			313		
OG		40	1	66	26	.214	1.87				.66			73		
OG		45	1	98	17	.169	1.87				.62			68		
OG		Totals	9	74	47	7.399	16.81				7.04			774		
OH		45	1	62	26	.169	1.87				.72			79		
OH		Totals	1	62	26	.169	1.87				0.72			79		
Totals			111	81	81	182.978	207.26	281.55	20.8	79.0	178.33	5860	22,248	19,616	6,446	2,447

TC TSTNDSUM

Stand Table Summary

North Murphy

Project NMURPHY

T01S R07W S35 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	35	SALE	0200	86.00	15	88

T01S R07W S35 T0200

Page: 1
Date: 03/10/200
Time: 2:50:11PM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		9	2	86	84	10.499	4.48	21.00	6.7	40.0	4.00	140	840	344	121	72
DF		10	7	84	73	28.254	15.68	44.38	8.4	39.1	10.68	375	1,733	918	322	149
DF		11	2	85	98	6.917	4.48	13.83	10.3	42.4	4.04	142	586	348	122	50
DF		12	1	89	88	2.853	2.24	5.71	13.2	60.0	2.15	76	342	185	65	29
DF		13	4	84	77	9.840	8.96	17.25	14.5	51.5	7.14	251	889	614	216	76
DF		14	3	86	91	6.288	6.72	12.58	16.8	66.7	6.01	211	838	517	181	72
DF		15	1	84	98	1.826	2.24	3.65	18.4	70.0	1.92	67	256	165	58	22
DF		16	3	84	63	4.919	6.72	8.23	18.0	56.4	4.25	149	464	365	128	40
DF		17	3	83	93	4.231	6.72	8.46	25.0	86.7	6.04	212	733	519	182	63
DF		18	1	83	89	1.268	2.24				1.99			172		
DF		20	2	83	104	2.054	4.48	4.11	40.2	132.5	4.75	165	544	408	142	47
DF		21	1	83	91	.932	2.24	1.86	30.7	100.0	1.69	57	186	145	49	16
DF		23	1	81	64	.777	2.24	.78	64.2	170.0	1.42	50	132	122	43	11
DF		Totals	31	85	81	80.658	69.46	141.84	13.4	53.2	56.09	1,894	7,545	4,824	1,629	649
RA		9	5	83	67	25.842	11.20	25.84	9.8	26.1	7.05	253	674	606	218	58
RA		10	3	82	48	12.325	6.72	12.32	9.5	33.3	3.27	117	411	281	101	35
RA		12	2	82	74	5.706	4.48	5.71	20.3	65.0	3.19	116	371	275	100	32
RA		13	4	83	58	9.724	8.96	12.15	16.6	48.0	5.54	201	583	476	173	50
RA		14	3	81	79	6.288	6.72	12.58	15.7	53.3	5.44	198	671	468	170	58
RA		15	4	80	44	7.303	8.96	9.13	18.4	40.0	4.63	168	365	398	145	31
RA		16	6	78	50	9.629	13.44	12.84	19.3	53.8	6.80	247	690	585	213	59
RA		17	1	79	75	1.422	2.24	2.84	22.6	70.0	1.77	64	199	152	55	17
RA		19	4	81	67	4.552	8.96	6.83	29.3	96.7	6.37	200	660	548	172	57
RA		22	1	83	51	.849	2.24	.85	59.8	80.0	1.40	51	68	120	44	6
RA		23	1	81	64	.777	2.24	1.55	41.0	120.0	1.75	64	186	151	55	16
RA		25	1	80	42	.657	2.24	1.31	30.0	115.0	1.09	39	151	93	34	13
RA		Totals	35	82	60	85.072	78.42	103.96	16.5	48.4	48.29	1,719	5,029	4,153	1,479	433
DL		23	2	78	88	1.553	4.48	3.11	30.3	82.5	3.79	94	256	326	81	22
DL		24	1	81	115	.713	2.24	2.14	39.0	163.3	2.30	83	349	197	72	30
DL		25	1	82	118	.657	2.24	1.97	44.3	190.0	2.40	87	375	206	75	32
DL		38	1	86	124	.292	2.24	.88	98.3	433.3	2.40	86	380	207	74	33
DL		Totals	5	80	103	3.216	11.20	8.09	43.4	168.0	10.89	351	1,360	937	302	117
WH		8	1	74	26	6.419	2.24	6.42	4.1	20.0	.85	26	128	73	23	11
WH		Totals	1	74	26	6.419	2.24	6.42	4.1	20.0	0.85	26	128	73	23	11
OG		7	1	63	100	8.384	2.24									
OG		21	1	88	17	.932	2.24									
OG		22	1	79	87	.849	2.24				1.89			163		
OG		28	1	89	20	.524	2.24				.61			52		
OG		30	2	89	17	.913	4.48				1.42			122		
OG		32	1	90	26	.401	2.24				.68			58		
OG		35	2	90	24	.671	4.48				1.50			129		
OG		40	1	89	42	.257	2.24				1.10			94		
OG		45	2	90	60	.406	4.48				2.95			253		
OG		50	3	89	43	.493	6.72				3.40			292		
OG		55	1	90	63	.136	2.24				1.65			142		
OG		Totals	16	73	75	13.965	35.85				15.19			1,306		
Totals			88	82	70	189.330	197.18	260.31	15.3	54.0	131.31	3991	14,063	11,293	3,432	1,209

"STEWARDSHIP IN FORESTRY"

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
North Murphy

1. Type of Sale

Regeneration/ Thinning harvest, Recovery

2. Legal Description

Portions of Sections 34 and 35, T1S, R7W and portions of Sections 2, T2S, R7W, W.M. Tillamook County, Oregon

3. Sale Acreage

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

ACRES

	Gross	Net
Area 1 (Modified clearcut)	110	110
Area 2 (Modified clearcut)	90	86
Area 3 (Partial cut)	5	4

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

Areas 1, 2, and 3 were cruised with plots spaced every 350' on lines 700' apart. Area 1's lines were on an N20°E bearing and Area 2 and 3's lines were on an N70°W bearing. Trees were measured to the nearest foot in height and inch in diameter. Top cruise diameter was 5" for conifers and 6" for other species or 25% of diameter breast height whichever was larger. Based on net board feet per acre the CV and SE for Area 1 is 13% and 35% respectively, for Area 2 is 14% and 52% respectively and for Area 3 31% and 44% respectively.

B. Plot Size

On all Areas a 33.61 BAF was used. 4½ feet was the point of tree observation.

C. Grading System

Trees were graded using Columbia River Log Scaling and Grading rules, favoring 40' logs. Describe the method of determining grade unless it was already specified in the Cruise Method.

5. Computation Procedure

Plot data was entered into SuperAce for computation of stand information and volume. For Areas 1 and 2 net volume was determined after removing the leave tree volume for leave trees and snags, from the largest trees.

6. Hidden Defect and Breakage

A 5% defect and breakage reduction was applied to conifers and a 10% reduction to hardwood volumes for hidden defect. This was in addition to visual defect deducted during the cruise.

7. Timber Description

The stand contains 40-45 year old timber. Initial seeding was completed in 1964-65 and a small portion at the southern end of Area 2 was planed in 1968-70. A small portion at the southern end of Area 2 was pre-commercially thinned. Douglas-fir trees show symptoms of Swiss Needle Cast. The alder was sprayed in the 1970's and has resulted short boles and multiple tops. All of the sale areas were burned in 1933 and 1939.

8. Cruiser Names/Dates

The Areas were cruised under contract in 2008.

9. Revenue Distribution

FDF: 100%

Tax Code: 9-1: 8%
9-2: 92%

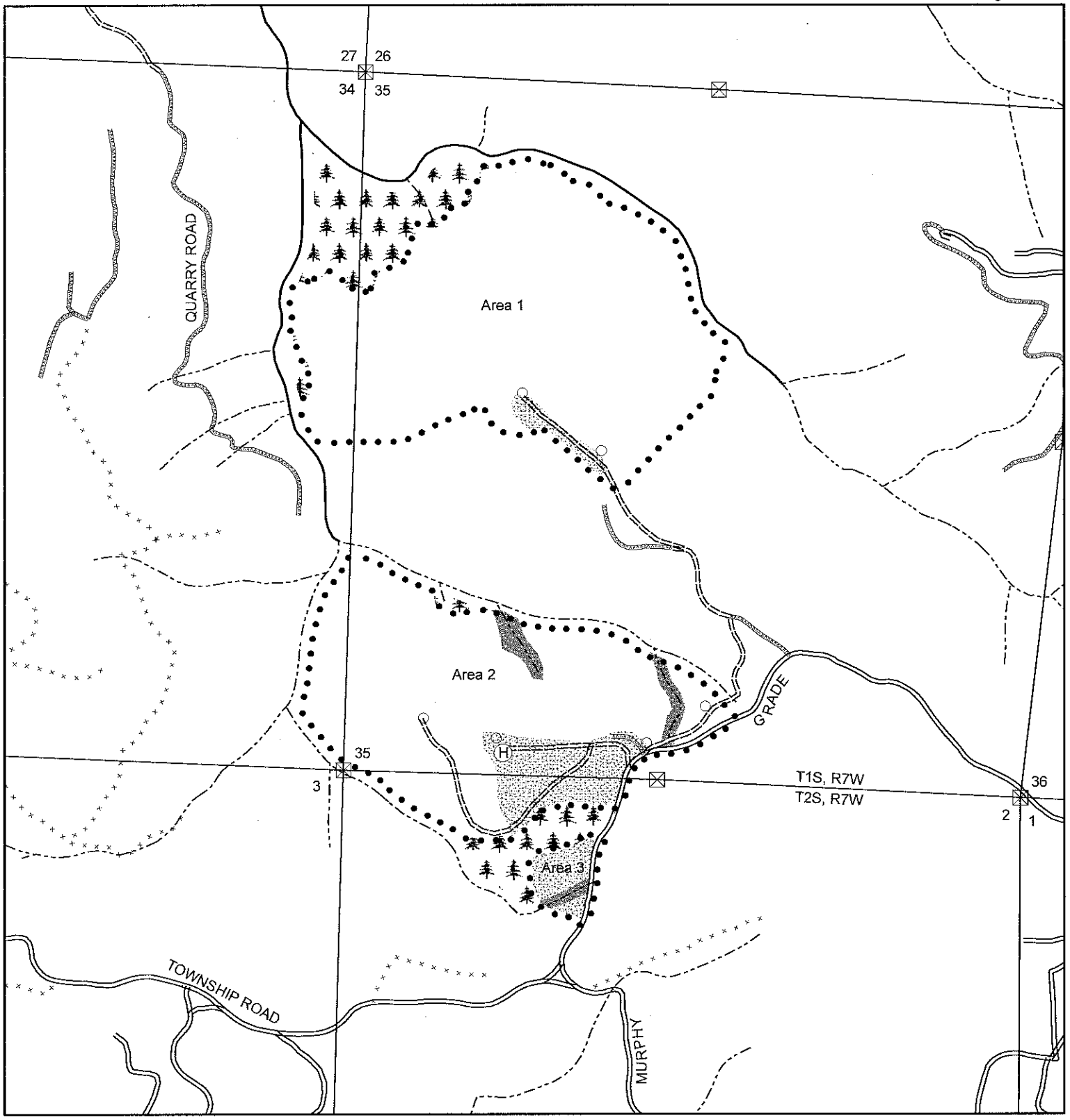
Deed Numbers: 161, 169

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
RL – Red alder leave
RA – Red alder take
RC – Western red cedar reserved
WL – Western hemlock leave
WH – Western hemlock take



- Landing
- Domestic water supply intake
- Helicopter landing zone
- Truck turn-around
- Survey corner
- Cable yarding
- Ground yarding
- Helicopter yarding
- Downhill yarding
- Buffer
- Non-required thinning
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- Unsurfaced road
- Surfaced road
- State/Federal highway
- County road
- Non-project road
- Swing road
- Legacy road
- Blocked road
- OHV trail
- Non-motorized trail
- Transmission line

LOGGING PLAN

Timber Sale Contract No. 341-10-84
North Murphy
Portions of Sections 34 and 35, T1S, R7W
and Portions of Section 2, T2S, R7W, W.M.,
Tillamook County, Oregon

1,000 0 1,000 Feet

Tillamook District GIS
02/10/2009
This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.

N

Area	Type of Operation	Acres Gross	Net
1	Modified clearcut	110	110
2	Modified clearcut	90	86
3	Partial cut	5	4
Total		205	200