"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Sharp Ridge
Sale 341-10-35

District: Tillamook

Date: December 11, 2009

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$215,330.02	$0.00	$215,330.02
		Project Work:	$(35,260.00)
		Advertised Value:	$180,070.02

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Sharp Ridge
Sale 341-10-35

District: Tillamook

Date: December 11, 2009

timber description

Location: Portions of Sections 19, 20, and 30, T1N, R9W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	24	0	95
Western Hemlock / Fir	19	0	95
Sitka Spruce	19	0	95

Volume by Grade	2S	3S	4S	SM	Total
Douglas - Fir	650	236	49	49	984
Western Hemlock / Fir	331	235	45	26	637
Sitka Spruce	19	34	9	0	62
Total	1,000	505	103	75	1,683

"STEWARDSHIP IN FORESTRY"

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Sharp Ridge
Sale 341-10-35

District: Tillamook **Date: December 11, 2009**

comments: Pond Values Used: 3rd Quarter Calendar Year 2009.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
$563/MBF = $740/MBF - $177/MBF

Red Alder & Other Hardwoods Stumpage Price = Pond Value minus Logging Cost
$358/MBF = $535/MBF - $177/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: $2/MBF x 1,718 MBF = $3,436
Snag Creation: $40/snag x 54 snags = $2,160
TOTAL Other Costs (with Profit and Risk to be added) = $5,596

Other Costs (No Profit & Risk added):
Slash Piling and Sorting: $1.20 acre of Partial Cut harvest x 54 acres = $ 64.80
Tank trap installation on un-surfaced road and road vacating: 1 x $ 75 + $300 = $375
Road vacating shall include water bars and slashing road segments A-B and C-D.
TOTAL Other Costs (No Profit & Risk added) = $439.80

ROAD MAINTENANCE
Final Grading: $500/mile x 6 miles/ 1718 MBF = $ 1.75/MBF
Spot rocking: ($15.00/cy x 6 miles x 10cy/MMBF/mile x 1.7MMBF)/1718 MBF = $.89

TOTAL ROAD MAINTENANCE COST: $ 2.64 / MBF

"STEWARDSHIP IN FORESTRY"

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Sharp Ridge
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District: Tillamook **Date: December 11, 2009**

logging conditions

combination#: 1

	Douglas - Fir	89.43%
	Western Hemlock / Fir	93.88%
	Sitka Spruce	93.55%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process:** Manual Delimbing
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 7.0 **bd. ft / load:** 4,800
cost / mbf: $80.39

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

combination#: 2

	Douglas - Fir	10.57%
	Western Hemlock / Fir	6.12%
	Sitka Spruce	6.45%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Manual Delimbing
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 13.0 **bd. ft / load:** 4,800
cost / mbf: $40.14

machines: Shovel Logger

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Sharp Ridge
Sale 341-10-35

District: Tillamook

Date: December 11, 2009

logging costs

Operating Seasons:	1.00	**Profit Risk:**	15.00%
Project Costs:	$35,260.00	**Other Costs (P/R):**	$439.80
Slash Disposal:	$0.00	**Other Costs:**	$5,596.00

Miles of Road

Road Maintenance: $2.64

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	$80.00	2.0	4.0
Western Hemlock / Fir	$56.70	3.0	4.0
Sitka Spruce	$59.70	3.0	4.0
Alder (Red)	$55.60	3.0	2.5

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Sharp Ridge
Sale 341-10-35

District: Tillamook **Date:** December 11, 2009

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
$76.14	$2.77	$2.61	$83.99	$0.26	$24.87	$0.00	$5.00	$3.33	$198.97
Western Hemlock / Fir									
$77.93	$2.77	$2.61	$59.49	$0.26	$21.46	$0.00	$5.00	$3.33	$172.85
Sitka Spruce									
$77.79	$2.77	$2.61	$62.68	$0.26	$21.92	$0.00	$5.00	$3.33	$176.36

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$347.60	$148.63	$0.00
Western Hemlock / Fir	$0.00	$269.07	$96.22	$0.00
Sitka Spruce	$0.00	$301.94	$125.58	$0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Sharp Ridge
Sale 341-10-35

District: **Tillamook** **Date:** **December 11, 2009**

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	984	$148.63	$146,251.92
Western Hemlock / Fir	637	$96.22	$61,292.14
Sitka Spruce	62	$125.58	$7,785.96

Gross Timber Sale Value

Recovery: $215,330.02

Prepared by: Nick Stumpf **Phone:** 503-842-2545

"STEWARDSHIP IN FORESTRY"

Sharp Ridge

Volume Summary

Area 1 - *Harvest Type*							PC
					54 acres		
SPECIES	QMD	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	23.6	76	225	17.1	926	5%	880
Hemlock	19.4	54	216	11.7	630	5%	598
Spruce	17.8	8	137	1.1	60	5%	57
Noble Fir				0.0	0	5%	0
TOTAL					1616		1535

Right Of Way Clearing							
					2 acres		
SPECIES	QMD	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	26.4	245	225	55.1	110	5%	105
Hemlock	21.9	95	216	20.5	41	5%	39
Spruce	42.6	19	137	2.6	5	5%	5
Noble Fir				0.0	0	5%	0
TOTAL					156		149

TOTAL SALE VOLUME	**56 acres**	
SPECIES	Gross Vol (MBF)	Net Vol (MBF)
Douglas-fir	1036	984
Hemlock	671	637
Spruce	66	62
Noble Fir	0	0
TOTAL	1773	1683

TC TLOGSTVB

Log Stock Table - MBF

Project: SRDG2

T01N R09W S20 TRECO

T01N R09W S20 TREC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	09W	20	AREA1	RECO	54.00	20	134

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Date 11/2/2009
Time 3:10:51PM

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		DO	SM	40	411		411	16.9									154	233	25	
DL		DO	2M	32	15		15	.6							7	8				
DL		DO	2M	40	1,596	.2	1,593	65.4						8	184	359	532	375	135	
DL		DO	3M	17	3		3	.1					3							
DL		DO	3M	19	5		5	.2				4	1							
DL		DO	3M	20	2		2	.1				2								
DL		DO	3M	24	2		2	.1					2							
DL		DO	3M	26	4		4	.1					4							
DL		DO	3M	29	2		2	.1			2									
DL		DO	3M	30	1		1	.1			1									
DL		DO	3M	31	2		2	.1					2							
DL		DO	3M	32	40		40	1.6				2	11	10	18					
DL		DO	3M	33	12		12	.5			2	4	5							
DL		DO	3M	34	7		7	.3				7								
DL		DO	3M	35	2		2	.1				2								
DL		DO	3M	36	2		2	.1			2									
DL		DO	3M	40	290	.1	290	11.9			10	35	51	27	38	86	21	22		
DL		DO	4M	14	1		1	.0			1									
DL		DO	4M	15	1		1	.0				1								
DL		DO	4M	16	1		1	.0				1								
DL		DO	4M	17	4		4	.2			2	2								
DL		DO	4M	19	2		2	.1				2								
DL		DO	4M	20	3		3	.1		1			2							
DL		DO	4M	21	1		1	.1				1								
DL		DO	4M	27	3		3	.1		2	2									
DL		DO	4M	28	6		6	.2		6										
DL		DO	4M	39	5		5	.2		5										
DL		DO	4M	40	16		16	.7		3	13									
DL		Totals			2,439		2,436	50.5		16	35	64	80	44	247	453	707	630	160	
DF		DO	SM	40	52	5.0	49	5.3									24	25		
DF		DO	2M	32	8	5.0	8	.9								8				
DF		DO	2M	40	662	5.3	627	67.6						31	96	309	191			
DF		DO	3M	19	1	5.0	1	.1				1								
DF		DO	3M	24	1	5.0	1	.1				1								
DF		DO	3M	30	2	5.0	2	.2			2									
DF		DO	3M	32	31	5.0	30	3.2			2	6	10	11						
DF		DO	3M	34	2	5.0	2	.2			2									
DF		DO	3M	35	3	5.0	2	.3				2								
DF		DO	3M	40	186	5.0	177	19.1			12	14	83	45	24					
DF		DO	4M	14	1	5.0	1	.1				1								
DF		DO	4M	15	2	5.0	2	.2		2										
DF		DO	4M	16	1	5.0	1	.1				1								
DF		DO	4M	17	1	5.0	1	.1			1									
DF		DO	4M	19	1	5.0	1	.1				1								
DF		DO	4M	22	1	5.0	1	.1		1										
DF		DO	4M	23	3	5.0	3	.3		2	1									
DF		DO	4M	26	3	5.0	3	.3		2	1									
DF		DO	4M	27	2	5.0	2	.2			2									
DF		DO	4M	30	4	5.0	4	.4			4									

TC TLOGSTVB

Log Stock Table - MBF

Project: SRDG2

T01N R09W S20 TRECO

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	09W	20	AREA1	RECO	54.00	20	134

Date 11/2/2009
Time 3:10:51PM

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		DO	4M	32	6	5.0	6	.6		3	3									
DF		DO	4M	39	2	5.0	2	.3		2										
DF		DO	4M	40	2	5.0	2	.2		2										
DF			Totals		979	5.2	928	19.2		14	29	28	93	88	119	317	215	25		
WH		DO	SM	40	27	5.0	26	4.0									26			
WH		DO	2M	40	348	5.0	331	52.2						21	90	120	101			
WH		DO	3M	32	54	5.0	51	8.0				25	18	8						
WH		DO	3M	33	4	5.0	4	.6			4									
WH		DO	3M	34	3	5.0	3	.5			3									
WH		DO	3M	35	6	5.0	6	.9			6									
WH		DO	3M	40	182	5.0	172	27.2			4	12	54	55	48					
WH		DO	4M	15	4	5.0	3	.5			3									
WH		DO	4M	19	2	5.0	2	.3			2									
WH		DO	4M	20	1	5.0	1	.2			1									
WH		DO	4M	21	4	5.0	4	.6			4									
WH		DO	4M	22	2	5.0	1	.2			1									
WH		DO	4M	27	2	5.0	2	.3				2								
WH		DO	4M	40	29	5.0	27	4.3		2	12	14								
WH			Totals		667	5.0	634	13.1		2	41	52	72	83	137	120	126			
WL		DO	SM	40	134		134	23.5									79	29	27	
WL		DO	2M	32	16		16	2.8						7		9				
WL		DO	2M	40	338	2.1	330	57.7						9	10	108	66	112	26	
WL		DO	3M	16	1		1	.2					1							
WL		DO	3M	27	2		2	.3				2								
WL		DO	3M	32	17		17	2.9					6	5		6				
WL		DO	3M	33	2		2	.4					2							
WL		DO	3M	35	2		2	.4						2						
WL		DO	3M	40	56		56	9.8			2	3	24		27					
WL		DO	4M	14	1		1	.1				1								
WL		DO	4M	15	1		1	.2			1									
WL		DO	4M	17	2		2	.3			2									
WL		DO	4M	18	2		2	.4			2									
WL		DO	4M	22	3		3	.5			1	1								
WL		DO	4M	23	1		1	.2				1								
WL		DO	4M	34	2		2	.4			2									
WL			Totals		580	1.2	572	11.9			11	8	33	23	37	123	145	141	52	
SL		DO	2M	40	134		134	85.7								35	18	28	53	
SL		DO	3M	22	1		1	.8				1								
SL		DO	3M	26	2		2	1.3						2						
SL		DO	3M	30	2		2	1.0				2								
SL		DO	3M	32	7		7	4.4						7						
SL		DO	3M	40	9		9	6.0									9			
SL		DO	4M	21	1		1	.8			1									
SL			Totals		156		156	3.2			1	3		9		35	28	28	53	
SS		DO	2M	40	20	5.0	19	31.3								19				

TC TLOGSTVB

Log Stock Table - MBF

Project: SRDG2

T01N R09W S20 TRECO

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	09W	20	AREA1	RECO	54.00	20	134

Date 11/2/2009
Time 3:10:51PM

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+
SS		DO	3M	32	13	5.0	12	20.1				6		6						
SS		DO	3M	40	22	5.0	21	34.1								21				
SS		DO	4M	15	2	5.0	2	3.7			2									
SS		DO	4M	34	7	5.0	7	10.8			7									
SS		Totals			63	5.0	60	1.3			9	6	6			21	19			
RA		DO	CR	52	20	5.0	19	49.3				19								
RA		DO	CR	60	20	5.0	19	50.7				19								
RA		Totals			40	5.0	38	.8				38								
Total All Species					4,923	2.0	4,823	100.0		32	126	199	285	246	560	1066	1220	824	265	

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: SRDG2

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Date 11/2/2009
Time 3:13:44PM

T01N R09W S20 TRECO

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
01N	09W	20	AREA1	RECO	54.00	20	134	S	W

T01N R09W S20 TRECO

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
DL		DO	SM	16		7,615	7,615	411				100				100	40	1073	4.42	7.1
DL		DO	2M	66	.2	29,834	29,777	1,608			15	85			1	99	40	662	2.98	44.9
DL		DO	3M	16	.1	6,932	6,926	374		41	33	26	3	2	17	78	36	175	1.23	39.7
DL		DO	4M	2		785	785	42	38	62			27	24		49	29	39	0.44	20.3
DL	**Totals**			50	.1	45,165	45,102	2,436	1	7	15	77	1	1	3	95	36	402	2.11	112.1
DF		DO	SM	5	5.0	955	907	49				100				100	40	987	4.18	.9
DF		DO	2M	68	5.3	12,415	11,762	635			33	67			1	99	40	437	2.18	26.9
DF		DO	3M	24	5.0	4,211	4,001	216		63	37		1	2	16	82	37	139	0.96	28.8
DF		DO	4M	3	5.0	542	515	28	50	50			18	45	22	15	26	29	0.43	17.5
DF	**Totals**			19	5.2	18,124	17,185	928	1	16	31	51	1	2	5	92	36	232	1.41	74.2
WH		DO	SM	4	5.0	499	474	26				100				100	40	798	3.46	.6
WH		DO	2M	52	5.0	6,452	6,129	331			33	67				100	40	430	2.06	14.2
WH		DO	3M	37	5.0	4,603	4,373	236		53	47				27	73	37	135	0.91	32.5
WH		DO	4M	7	5.0	797	757	41	4	96			16	18		66	28	43	0.45	17.5
WH	**Totals**			13	5.0	12,350	11,732	634	0	26	35	39	1	1	10	88	35	181	1.13	64.8
WL		DO	SM	23		2,489	2,489	134				100				100	40	1036	4.28	2.4
WL		DO	2M	60	2.0	6,544	6,410	346			22	78			5	95	39	610	2.89	10.5
WL		DO	3M	14		1,484	1,484	80		50	42	7	1	2	27	70	37	175	1.22	8.5
WL		DO	4M	3		218	218	12		100			49	32	19		20	29	0.55	7.5
WL	**Totals**			12	1.2	10,735	10,601	572		9	19	72	1	1	7	91	33	366	2.13	28.9
SL		DO	2M	85		2,473	2,473	134				100				100	40	969	4.24	2.6
SL		DO	3M	14		389	389	21		14	42	44		23	33	44	30	181	1.65	2.1
SL		DO	4M	1		24	24	1		100				100			21	30	0.53	.8
SL	**Totals**			3		2,885	2,885	156		3	6	92		4	4	92	33	525	3.00	5.5
SS		DO	2M	31	5.0	367	349	19				100				100	40	437	2.49	.8
SS		DO	3M	54	5.0	637	605	33		37	63				37	63	35	170	1.17	3.6
SS		DO	4M	15	5.0	171	162	9		100			26		74		25	34	0.56	4.7
SS	**Totals**			1	5.0	1,176	1,117	60		35	34	31	4		31	65	30	123	1.06	9.1
RA		DO	CR	100	5.0	736	699	38		100						100	56	225	1.16	3.1
RA	**Totals**			1	5.0	736	699	38		100						100	56	225	1.16	3.1
Type Totals					2.0	91,170	89,322	4,823	1	13	21	66	1	1	5	93	36	300	1.70	297.7

TC TSTNDSUM

Stand Table Summary

Project SRDG2

T01N R09W S20 TRECO

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	09W	20	AREA1	RECO	54.00	20	134

T01N R09W S20 TREC

Page: 1
Date: 11/02/200
Time: 3:14:50PM

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		11	1	91	70	4.125	2.72	4.13	14.8	60.0	1.68	61	248	91	33	13
DL		12	1	90	85	3.466	2.72	6.93	13.5	60.0	2.57	94	416	139	50	22
DL		21	3	86	119	3.396	8.17	9.06	39.9	163.7	9.93	361	1,483	536	195	80
DL		22	1	86	105	1.031	2.72	3.09	37.5	166.7	3.19	116	516	172	63	28
DL		24	1	87	109	.867	2.72	2.60	43.6	190.0	3.12	113	494	168	61	27
DL		25	1	86	115	.799	2.72	2.40	47.7	210.0	3.14	114	503	170	62	27
DL		26	3	86	133	2.215	8.17	6.65	61.4	282.2	11.22	408	1,876	606	220	101
DL		27	2	89	134	1.369	5.45	4.11	67.1	330.0	7.58	276	1,356	409	149	73
DL		28	5	89	134	3.183	13.61	10.19	69.1	357.5	19.36	704	3,642	1,045	380	197
DL		29	4	89	127	2.374	10.89	7.12	76.0	390.8	14.88	541	2,784	804	292	150
DL		30	6	89	140	3.328	16.34	11.09	78.7	411.0	24.01	873	4,559	1,297	471	246
DL		31	1	88	180	.519	2.72	2.08	89.2	522.5	5.10	185	1,086	275	100	59
DL		32	5	90	132	2.437	13.61	7.80	87.8	462.5	18.83	685	3,607	1,017	370	195
DL		33	3	88	150	1.375	8.17	5.04	90.3	493.6	12.53	456	2,489	676	246	134
DL		34	7	89	135	3.023	19.06	9.07	105.9	557.1	26.41	960	5,052	1,426	519	273
DL		35	3	89	164	1.222	8.17	4.48	106.1	605.5	13.07	475	2,714	706	257	147
DL		36	3	90	138	1.155	8.17	3.85	106.8	601.0	11.32	411	2,315	611	222	125
DL		37	3	89	141	1.094	8.17	3.28	128.6	712.2	11.60	422	2,337	627	228	126
DL		38	2	90	130	.691	5.45	2.07	120.9	661.7	6.90	251	1,372	372	135	74
DL		39	2	87	161	.656	5.45	1.97	131.6	706.7	7.13	259	1,391	385	140	75
DL		40	1	91	178	.312	2.72	1.25	142.6	892.5	4.89	178	1,114	264	96	60
DL		41	1	88	133	.297	2.72	.89	159.4	876.7	3.90	142	781	211	77	42
DL		42	2	91	146	.566	5.45	1.98	153.9	907.1	8.38	305	1,797	453	165	97
DL		46	1	92	186	.236	2.72	.94	202.3	1242.5	5.25	191	1,172	283	103	63
DL		Totals	62	89	124	39.739	168.80	112.07	76.6	402.5	235.98	8,581	45,102	12,743	4,634	2,436
DF		17	2	87	93	3.454	5.45	8.64	22.2	83.6	5.47	192	722	296	104	39
DF		18	1	82	100	1.541	2.72	3.08	32.8	114.0	2.88	101	351	156	55	19
DF		20	2	85	123	2.496	5.45	7.49	34.3	142.5	7.31	257	1,067	395	139	58
DF		21	1	85	139	1.132	2.72	3.40	39.9	161.5	3.86	135	548	208	73	30
DF		22	3	89	138	3.094	8.17	10.31	41.8	193.8	12.29	431	1,999	664	233	108
DF		23	1	90	130	.944	2.72	2.83	48.8	218.5	3.93	138	619	212	75	33
DF		24	3	90	122	2.600	8.17	7.80	50.3	225.9	11.17	392	1,762	603	212	95
DF		25	4	90	125	3.195	10.89	9.58	54.7	250.2	14.95	525	2,398	807	283	129
DF		27	3	89	137	2.054	8.17	6.16	68.9	325.1	12.09	424	2,003	653	229	108
DF		28	2	89	128	1.273	5.45	3.82	71.1	342.0	7.74	272	1,306	418	147	71
DF		29	2	88	141	1.187	5.45	4.15	69.1	342.0	8.18	287	1,421	442	155	77
DF		31	2	90	154	1.039	5.45	4.16	77.2	408.5	9.14	321	1,697	494	173	92
DF		32	1	90	110	.487	2.72	1.46	80.6	414.8	3.36	118	607	181	64	33
DF		34	1	91	121	.432	2.72	1.30	101.3	528.8	3.74	131	685	202	71	37
DF		Totals	28	88	124	24.927	76.23	74.18	50.2	231.7	106.13	3,724	17,185	5,731	2,011	928
WH		13	1	91	66	2.954	2.72	2.95	22.7	85.5	2.14	67	253	116	36	14
WH		14	1	84	80	2.547	2.72	5.09	15.4	57.0	2.52	79	290	136	42	16
WH		16	3	88	90	5.850	8.17	11.70	25.6	99.7	9.59	300	1,167	518	162	63
WH		18	2	88	110	3.081	5.45	7.70	33.0	133.0	8.14	255	1,025	440	137	55
WH		19	2	91	118	2.765	5.45	8.30	32.0	145.7	8.49	265	1,208	459	143	65
WH		20	1	92	130	1.248	2.72	3.74	38.7	186.8	4.64	145	699	251	78	38
WH		21	1	91	108	1.132	2.72	3.40	35.6	164.7	3.87	121	559	209	65	30
WH		23	1	90	120	.944	2.72	2.83	44.3	205.8	4.01	125	583	217	68	31
WH		24	2	90	145	1.733	5.45	6.07	51.6	249.7	10.02	313	1,515	541	169	82
WH		25	1	89	132	.799	2.72	2.40	59.0	259.7	4.52	141	622	244	76	34
WH		26	1	91	118	.738	2.72	2.22	65.3	329.3	4.63	145	730	250	78	39

TC TSTNDSUM

Stand Table Summary

Project SRDG2

T01N R09W S20 TRECO

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	09W	20	AREA1	RECO	54.00	20	134

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
WH		27	2	91	135	1.369	5.45	4.11	71.3	354.7	9.38	293	1,457	506	158	79
WH		28	1	88	150	.637	2.72	2.55	64.5	330.1	5.25	164	841	284	89	45
WH		29	1	91	141	.594	2.72	1.78	87.0	440.2	4.96	155	784	268	84	42
WH		Totals	20	89	106	26.390	54.45	64.83	39.6	181.0	82.18	2,568	11,732	4,438	1,387	634
WL		16	1	87	70	1.950	2.72	3.90	22.8	85.0	2.84	89	331	153	48	18
WL		22	1	91	110	1.031	2.72	3.09	40.4	190.0	4.00	125	588	216	67	32
WL		24	1	83	100	.867	2.72	2.60	42.5	180.0	3.53	110	468	191	60	25
WL		25	1	90	105	.799	2.72	2.40	49.1	236.7	3.77	118	567	203	64	31
WL		27	3	91	126	2.054	8.17	6.16	68.6	357.8	13.53	423	2,205	731	228	119
WL		31	2	90	115	1.039	5.45	3.12	83.3	440.0	8.31	260	1,371	449	140	74
WL		32	2	90	145	.975	5.45	3.41	92.9	508.6	10.15	317	1,735	548	171	94
WL		34	1	91	124	.432	2.72	1.30	110.5	616.7	4.58	143	799	247	77	43
WL		38	1	90	136	.346	2.72	1.04	145.9	740.0	4.84	151	767	262	82	41
WL		41	1	91	158	.297	2.72	1.19	140.9	800.0	5.36	167	950	289	90	51
WL		45	1	89	131	.246	2.72	.74	204.9	1106.7	4.85	152	818	262	82	44
WL		Totals	15	89	112	10.035	40.84	28.94	71.0	366.3	65.75	2,055	10,601	3,551	1,110	572
SL		25	1	87	111	.799	2.72	2.40	51.8	240.0	3.23	124	575	174	67	31
SL		32	1	90	98	.487	2.72	.97	92.1	375.0	2.33	90	366	126	48	20
SL		35	1	90	132	.407	2.72	1.22	116.5	616.7	3.70	142	754	200	77	41
SL		47	1	91	178	.226	2.72	.90	210.2	1317.5	4.94	190	1,191	267	103	64
SL		Totals	4	89	120	1.920	10.89	5.50	99.4	524.9	14.20	546	2,885	767	295	156
SS		14	1	82	70	2.547	2.72	2.55	21.5	47.5	1.42	55	121	77	30	7
SS		19	1	90	100	1.383	2.72	4.15	29.9	126.7	3.23	124	525	174	67	28
SS		25	1	86	106	.799	2.72	2.40	47.3	196.3	2.95	113	470	159	61	25
SS		Totals	3	85	85	4.728	8.17	9.09	32.1	122.8	7.60	292	1,117	410	158	60
RA		17	1	79	70	1.727	2.72	1.73	55.0	199.5	2.61	95	345	141	51	19
RA		19	1	80	90	1.383	2.72	1.38	75.9	256.5	2.89	105	355	156	57	19
RA		Totals	2	79	79	3.110	5.45	3.11	64.3	224.8	5.50	200	699	297	108	38
Totals			134	88	115	110.849	364.82	297.71	60.3	300.0	517.35	17967	89,322	27,937	9,702	4,823

Volume Relationships by Species

State	County	Project	Twn	Rng	Sec	Tract	Type No.	Acres
		SRDG2						54.00

		Species						
Item	Total	DL	DF	WH	WL	SL	SS	RA
Total Gross Cunits	9,702	4,634	2,011	1,387	1,110	295	158	108
Total Net Cunits	9,702	4,634	2,011	1,387	1,110	295	158	108
Total Gross MBF	4,923	2,439	979	667	580	156	63	40
Total Net MBF	4,823	2,436	928	634	572	156	60	38
Total Tons	27,937	12,743	5,731	4,438	3,551	767	410	297
BA / Acre	364.82	168.80	76.23	54.45	40.84	10.89	8.17	5.45
Trees / Acre	110.849	39.739	24.927	26.390	10.035	1.920	4.728	3.110
QM DBH	24.6	27.9	23.7	19.4	27.3	32.3	17.8	17.9
Gross CuFt / Acre	17,966	8,581	3,724	2,568	2,055	546	292	200
Net CuFt / Acre	17,967	8,581	3,724	2,568	2,055	546	292	200
Net / Gross Ratio	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Gross BdFt / Acre	91,170	45,165	18,124	12,350	10,735	2,885	1,176	736
Net BdFt / Acre	89,322	45,102	17,185	11,732	10,601	2,885	1,117	699
Net / Gross Ratio	0.980	0.999	0.948	0.950	0.988	1.000	0.950	0.950
Tons / Acre	517	236	106	82	66	14	8	6
Logs Per Acre	298	112	74	65	29	5	9	3
Avg Log Length	36.6	36.0	35.0	34.0	32.0	33.0	30.0	56.0
Lineal Ft Per Acre	10,888	4,034	2,596	2,204	926	181	273	174
G CuFt / SqFt BA	49.2	50.8	48.8	47.2	50.3	50.2	35.8	36.7
N CuFt / SqFt BA	49.2	50.8	48.8	47.2	50.3	50.2	35.8	36.7
G BdFt / SqFt BA	249.9	267.6	237.8	226.8	262.9	265.0	143.9	135.2
N BdFt / SqFt BA	244.8	267.2	225.4	215.5	259.6	265.0	136.7	128.4
Tons / SqFt BA	1.42	1.40	1.39	1.51	1.61	1.30	0.93	1.01
G CuFt / G MBF	197	190	205	208	191	189	249	272
N CuFt / N MBF	201	190	217	219	194	189	262	286
G BdFt / G CuFt	5.07	5.26	4.87	4.81	5.22	5.28	4.02	3.68
N Bdft / N CuFt	4.97	5.26	4.61	4.57	5.16	5.28	3.82	3.50
Tons / G CCF	2.88	2.75	2.85	3.20	3.20	2.60	2.60	2.75
Tons / G MBF	5.67	5.22	5.86	6.65	6.13	4.92	6.46	7.47
Lbs / G CuFt	57.59	55.00	57.00	64.00	64.00	52.00	52.00	55.00
Lbs / N BdFt	11.58	10.46	12.35	14.01	12.41	9.85	13.60	15.73
N CuFt / Lineal Ft	1.65	2.13	1.43	1.17	2.22	3.01	1.07	1.15
N BdFt / Lineal Ft	8.20	11.18	6.62	5.32	11.45	15.91	4.09	4.02
Lbs / Lineal Ft	95.03	116.98	81.76	74.57	142.00	156.60	55.71	63.17

TC TSTATS

STATISTICS

PROJECT SRDG2

DATE 11/2/2009

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01N	09W	20	AREA1	RECO	54.00	20	134	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	20	134	6.7		
CRUISE	20	134	6.7	5,986	2.2
DBH COUNT					
REFOREST					
COUNT					
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF-LEAVE	62	39.7	27.9	106		168.8	45,165	45,102	8,581	8,581
DOUG FIR	28	24.9	23.7	109	17	76.2	18,124	17,185	3,724	3,724
WHEMLOCK	20	26.4	19.5	90	10	54.5	12,350	11,732	2,568	2,568
WH-LEAVE	15	10.0	27.3	99		40.8	10,735	10,601	2,055	2,055
SL-LEAVE	4	1.9	32.3	98		10.9	2,885	2,885	546	546
S SPRUCE	3	4.7	17.8	60		8.2	1,176	1,117	292	292
R ALDER	2	3.1	17.9	59		5.4	736	699	200	200
TOTAL	*134*	*110.8*	*24.6*	*99*		*364.8*	*91,170*	*89,322*	*17,966*	*17,967*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL: 68.1 %	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF-LEAVE	55.0	7.0	1,467	1,577	1,687			
DOUG FIR	48.6	9.3	747	824	902			
WHEMLOCK	65.2	15.0	523	615	707			
WH-LEAVE	62.6	16.7	1,222	1,467	1,712			
SL-LEAVE	100.0	57.1	921	2,148	3,374			
S SPRUCE	80.6	55.8	150	339	528			
R ALDER	17.7	16.6	190	228	266			
TOTAL	*72.8*	*6.3*	*1,155*	*1,233*	*1,310*	*212*	*53*	*24*

CL: 68.1 %	COEFF		SAMPLE TREES - CF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF-LEAVE	46.4	5.9	275	292	309			
DOUG FIR	40.6	7.8	160	174	187			
WHEMLOCK	58.0	13.3	113	130	147			
WH-LEAVE	58.2	15.5	234	277	320			
SL-LEAVE	82.9	47.4	201	382	564			
S SPRUCE	71.6	49.5	43	84	126			
R ALDER	22.6	21.1	52	65	79			
TOTAL	*61.5*	*5.3*	*224*	*236*	*249*	*151*	*38*	*17*

CL: 68.1 %	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF-LEAVE	96.7	22.2	31	40	49			
DOUG FIR	91.3	20.9	20	25	30			
WHEMLOCK	122.8	28.2	19	26	34			
WH-LEAVE	177.9	40.8	6	10	14			
SL-LEAVE	227.8	52.2	1	2	3			
S SPRUCE	273.1	62.6	2	5	8			
R ALDER	309.9	71.0	1	3	5			
TOTAL	*46.4*	*10.6*	*99*	*111*	*123*	*90*	*23*	*10*

CL: 68.1 %	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15

STATISTICS

PROJECT SRDG2

DATE 11/2/2009

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01N	09W	20	AREA1	RECO	54.00	20	134	S	W

BASAL AREA/ACRE

CL: 68.1 % / SD: 1.0	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-LEAVE	46.7	10.7	151	169	187			
DOUG FIR	87.9	20.2	61	76	92			
WHEMLOCK	117.0	26.8	40	54	69			
WH-LEAVE	166.8	38.2	25	41	56			
SL-LEAVE	205.2	47.0	6	11	16			
S SPRUCE	244.2	56.0	4	8	13			
R ALDER	307.8	70.6	2	5	9			
TOTAL	*26.1*	*6.0*	*343*	*365*	*387*	*29*	*7*	*3*

NET BF/ACRE

CL: 68.1 % / SD: 1.0	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-LEAVE	42.4	9.7	40,720	45,102	49,485			
DOUG FIR	96.3	22.1	13,392	17,185	20,979			
WHEMLOCK	135.2	31.0	8,096	11,732	15,368			
WH-LEAVE	169.9	39.0	6,471	10,601	14,730			
SL-LEAVE	226.8	52.0	1,385	2,885	4,386			
S SPRUCE	275.5	63.2	411	1,117	1,822			
R ALDER	307.8	70.6	206	699	1,193			
TOTAL	*33.5*	*7.7*	*82,463*	*89,322*	*96,181*	*47*	*12*	*5*

NET CUFT FT/ACRE

CL: 68.1 % / SD: 1.0	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-LEAVE	42.4	9.7	7,747	8,581	9,415			
DOUG FIR	92.4	21.2	2,935	3,724	4,512			
WHEMLOCK	126.7	29.0	1,822	2,568	3,314			
WH-LEAVE	166.8	38.2	1,269	2,055	2,840			
SL-LEAVE	214.0	49.1	278	546	814			
S SPRUCE	257.9	59.1	119	292	465			
R ALDER	308.2	70.7	59	200	341			
TOTAL	*30.3*	*7.0*	*16,718*	*17,967*	*19,216*	*39*	*10*	*4*

Enter Data Here

Sharps Ridge 9/25/09

DBH	Douglas-fir T Trees	Douglas-fir L Trees	Spruce T Trees	Spruce L Trees	Cedar L Trees	alder T Trees	Hemlock T Trees	Hemlock L Trees	No. Plots
8"									20
9"									20
10"									20
11"	1								20
12"	1								20
13"							1		20
14"			1				1		20
15"									20
16"	2					1	3	1	20
18"	1		1			1	4		20
20"	3	3					2		20
22"	4	1					1	1	20
24"	7	2	1	1			3	2	20
26"	3	5					3	3	20
28"	4	9					2		20
30"	2	7						2	20
32"	1	8		1				2	20
34"	1	25		2				4	20

	Douglas-fir	Spruce	Cedar	alder	Hemlock
Trees/plt	4.50	0.05	0.00	0.10	1.75
Tk trs/plt	1.50	0.15	0.00	0.10	1.00
Lv trs/plt	3.00	0.20	0.00	0.00	0.75

Sharps Ridge Right Of Way
09/25/2009

Take / Leave Stand Table

DBH	Total Tk trs/acre	Total Lv trs/acre	Hemlock Tk trs/acre	Hemlock Lv trs/acre	Spruce Tk trs/acre	Spruce Lv trs/acre	Cedar Lv trs/acre	Douglas-fir Tk trs/acre	Douglas-fir Lv trs/acre	Alder trs/acre
8"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11"	4.1	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0
12"	3.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0
13"	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14"	5.1	0.0	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0
15"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16"	11.3	0.0	7.9	0.0	0.0	0.0	0.0	3.5	0.00	1.7
18"	8.8	0.0	5.8	0.0	1.4	0.0	0.0	1.5	0.0	1.4
20"	9.4	0.0	2.4	0.0	0.0	0.0	0.0	7.0	0.0	0.0
22"	7.1	0.0	1.9	0.0	0.0	0.0	0.0	5.0	0.0	0.0
24"	13.2	0.0	4.2	0.0	1.6	0.0	0.0	7.5	0.0	0.0
26"	9.8	0.0	4.2	0.0	0.0	0.0	0.0	5.7	0.0	0.0
28"	9.3	0.0	1.2	0.0	0.0	0.0	0.0	8.1	0.0	0.0
30"	5.9	0.0	1.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0
32"	5.8	0.0	1.0	0.0	0.5	0.0	0.0	4.3	0.0	0.0
34"	11.6	0.0	1.3	0.0	0.6	0.0	0.0	9.7	0.0	0.0
Total	106	0	35	0	7	0	0	65	0	3

TOTAL STAND

BA acre	365
Lv BA/ac	0
Tk BA/ac	365

Current Ave Stand Diameter	24.9
Leave Stand QM Diameter	0.0
Take trees QM Diameter	24.9

Hemlock	BA	QMD
Total	95	21.9
Leave	0	0.0
Take	54	16.5

Douglas-fir	BA	QMD
Total	245	26.4
Leave	0	0.0
Take	245	26.4

Trees/acre	Douglas-fir	Hemlock	Spruce	alder
Total	65	36	7	
Lv trs/ac	0	0	0	0
Tk trs/ac	65	36	7	

Spruce	BA	QMD
Total	19	42.6
alder	BA	QMD
Total	5.45	17.9

Relative Density	73
RD: Expected	0

Stand Density Index	77
SDI: Expected	0

If all you want is Conifer information, don't put in alder information

Sharps Ridge 9\25\09

Douglas-fir Tk trs/plt	Douglas-fir Lv trs/plt	Spruce Tk trs/plt	Spruce Lv trs/plt	Cedar Lv trs/plt	alder Tk trs/plt	Hemlock Tk trs/plt	Hemlock Lv trs/plt	54 BAF
0	0	0	0	0	0	0	0.0	156
0	0	0	0	0	0	0	0.0	123
0	0	0	0	0	0	0	0.0	100
0.05	0	0	0	0	0	0	0.0	82
0.05	0	0	0	0	0	0	0.0	69
0	0	0	0	0	0	0.05	0.0	59
0	0	0.05	0	0	0	0.05	0.0	51
0	0	0	0	0	0	0	0.0	44
0.1	0	0	0	0	0.05	0.15	0.1	39
0.05	0	0.05	0	0	0.05	0.2	0.0	31
0.15	0.15	0	0	0	0	0.1	0.0	25
0.2	0.05	0	0	0	0	0.05	0.1	21
0.35	0.1	0.05	0.05	0	0	0.15	0.1	17
0.15	0.25	0	0	0	0	0.15	0.2	15
0.2	0.45	0	0	0	0	0.1	0.0	13
0.1	0.35	0	0	0	0	0	0.1	11
0.05	0.4	0	0.05	0	0	0	0.1	10
0.05	1.25	0	0.1	0	0	0	0.2	9

"STEWARDSHIP IN FORESTRY"

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
Sharp Ridge

1. Type of Sale

Partial Cut: Conifer– recovery.

2. Legal Description

Portions of Sections 19, 20, and 30, T1N, R9W, W.M., Tillamook County, Oregon

3. Sale Acreage

The sale boundaries were plotted on a digital ortho photograph and the acreage was calculated with GIS.

Acres		
	Sale	**Net**
Area 1 (Partial cut)	57	54
ROW (modified clearcut)	2	2
Total Acres	59	56

Sale Acres
Area within the Timber Sale Boundary signs

Net acres
Used for calculating the advertised volume.
Clearcut - Sale acres, less green tree retention, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.
Partial Cut – Sale acres less areas of low stocking, hardwoods, roads and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. Cruising Procedures

A. Cruise Method

A total of 20 variable radius plots, measured and graded, were taken across the sale area. All plots in all areas were spaced on a square grid pattern. All conifers 11 inches and greater and all hardwoods 10 inches DBH and greater 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 BAF of 54.45 was used for all trees. The point of observation was at 4.5 feet.

C. Grading System

All conifer trees were graded according to the Columbia River Log Scaling and Grading Rules. Hardwoods were graded camp run. Tree heights were recorded to a 7 inch top outside bark for hemlock, Sitka spruce and cedar; six inch outside bark for Douglas-fir; nine inch top outside bark for hardwoods; or three tenths (0.3) of DBH for all species, whichever was greater. Log lengths all favored 40 feet. Height and diameter measurement standards were to the nearest foot or inch respectively. All diameters were taken at a height of 4.5 feet. Conifers less than 20 board feet and hardwoods less than 30 board feet were not recorded.

5. Computation Procedure

Plot data was entered into the SuperAce program for computation of basal area, stand tables, board foot volumes and grades for each species. This data was then entered into the Volume Summary Worksheet to compute the sale volumes.

Statistics for the cruise were computed using Atterbury Consultants, Inc. SuperAce 98 program. The coefficient of variation was 35% and the Standard Error was 7%

6. Hidden Defect and Breakage

Hidden defect and breakage was 5% for conifers and 10% for hardwoods on all of the areas.

7. Timber Description

The sale area is approximately 80-100 years old. The origin of the stand in natural regeneration with no stand management. See attached stand tables for species mix and tree sizes.

8. Cruiser Names/Dates

Ed Wallmark and Chad Allen, 2007

9. Revenue Distribution

CSL: 100%

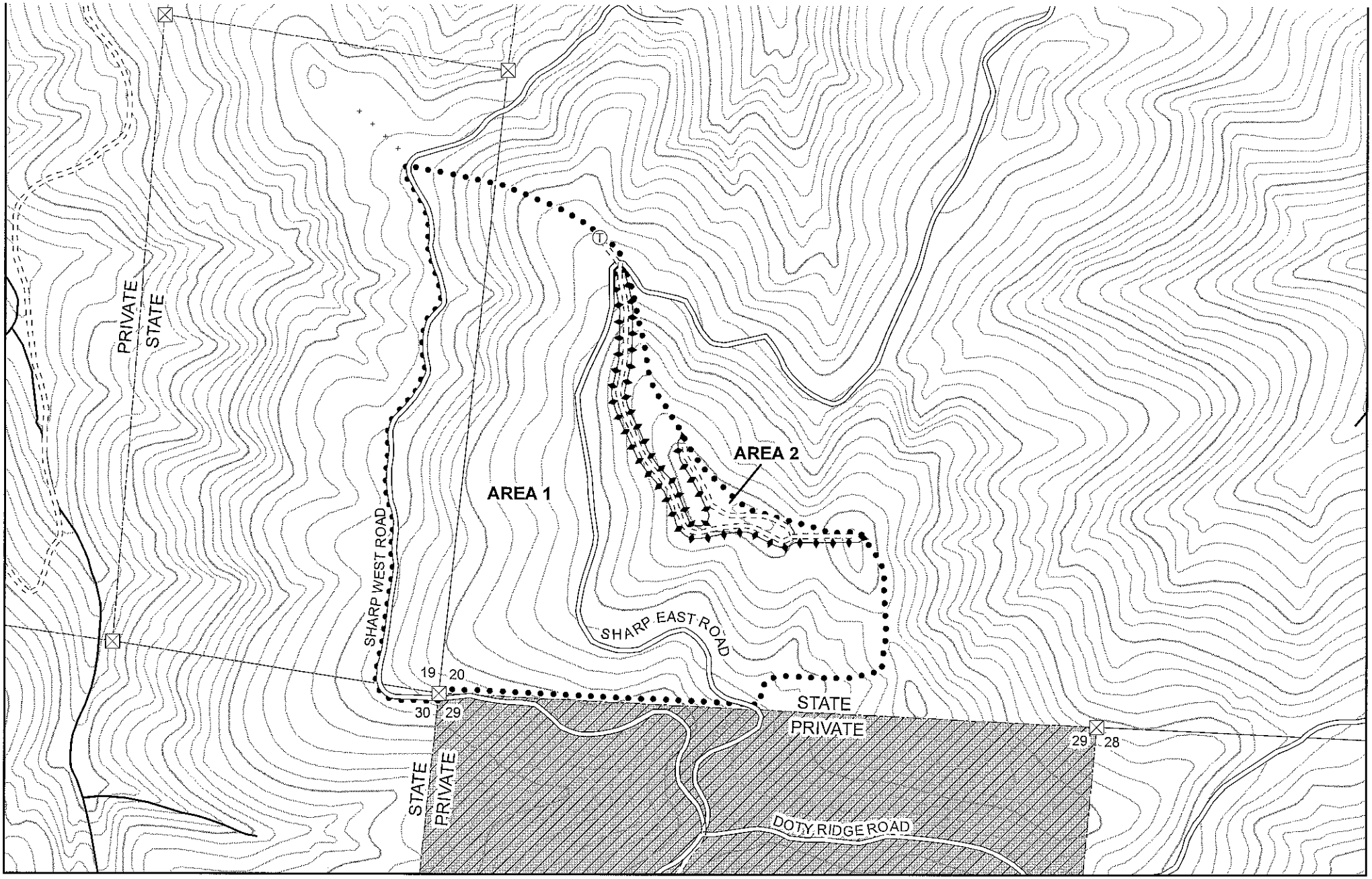
Tax Code: 9-2 = 100%

10. Attachments

Volume by grade, Log Stock table, Stand Table, Volume Summaries, and Logging Plan

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave
DF – Douglas-fir take
RA – Red alder
RC – Western red cedar
SS – Sitka spruce take
SL – Sitka spruce leave
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
- Tailhold Permit Required
- Right-of-Way 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

N

500 0 500 Feet

LOGGING PLAN

Timber Sale Contract No. 341-10-35
Sharp Ridge

Portions of Sections 19, 20, and 30,
T1N, R9W, W.M.,
Tillamook County, Oregon

Area	Type of Operation	Acres Gross	Net
1	Partial cut	57	54
2	ROW modified clearcut	2	2
Total		59	56

Tillamook District GIS 11/03/2009
This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.