



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Yankee Branch  
Sale TL-341-2022-W00913-01

District: Tillamook

Date: June 30, 2021

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**Cost Summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$249,726.14	\$6,566.02	\$256,292.16
		<b>Project Work:</b>	\$0.00
		<b>Advertised Value:</b>	\$256,292.16



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### Timber Description

**Location:** Section(s) 17 & 18, T1S, R9W, Tillamook County, Oregon.

**Stand Stocking: 20%**

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	90
Western Hemlock / Fir	15	0	90
Sitka Spruce	17	0	90
Alder (Red)	14	0	90

Volume by Grade	3S & 4S 6" - 11"	2S	8" - 9"	6" - 7"	Total
Douglas - Fir	10	0	0	0	10
Western Hemlock / Fir	736	297	0	0	1,033
Sitka Spruce	79	85	0	0	164
Alder (Red)	0	0	18	19	37
<b>Total</b>	825	382	18	19	1,244

**Comments:** Additional Costs – Yankee Branch  
Pond Values Used: August 2021  
Region: Astoria, Forest Grove, and Tillamook

Western red cedar & other cedars stumpage price = \$1,347.00/MBF - \$434.99/MBF = \$912.01/MBF

Pulp (Conifer and Hardwood) Price = \$ 2.50/ Ton

BRAND AND PAINT ALLOWANCE = \$2.00/ MBF

FUEL COST ALLOWANCE = \$3.00/ Gallon

HAULING COST ALLOWANCE

Hauling cost equivalent to \$950 daily truck cost \$95.00/hr x 10 hr. = \$950.00

Other Costs with Profit and Risk to be added:

Non-Project Rd. 1: 4+75 sta. \$150/sta. = \$712.50

Non-Project Rd. 2: 4+55 sta. \$150/sta. = \$682.50

Non-Project Rd. 3: 18+15 sta. \$150/sta. = \$2,722.50

Non-Project Rd. 4: 1+75 sta. \$150/sta. = \$262.50

Non-Project Rd. 5: 9+15 sta. \$150/sta. = \$1,372.50

Non-Project Rd. 6: 5+05 sta. \$150/sta. = \$757.50

Closing Non-Project: 6 Roads x \$50 = \$300.00

Tank trap installation at entry to Non-Project Rd. 3: \$100/trap = \$100.00

TOTAL Other Costs with Profit and Risk to be added = \$6,910.00

Other Costs with No Profit and Risk Added:

Move-in Machine Cleaning: \$1,000/machine x 3 machines x 1 seasons = \$3,000.00

Slash piling and sorting (Cable Settings): \$5/ac x 73ac. = \$365.00

TOTAL Other Costs no Profit and Risk added = \$3,365.00

ROAD MAINTENANCE:

Spot Rocking at Point A : 5 loads of rock x \$300/load/1,244 MBF = \$1.21/MBF

Pre-sale Grading: \$1,150/mile x 2.5 mile/ 1,244 = \$2.31/MBF

Final Maintenance Grading: \$1,500/mile x 2.2 miles/ 1,244 MBF = \$2.65/MBF

Total Road Maintenance: = \$6.17/MBF



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### Logging Conditions

**Combination#: 1**

Douglas - Fir	73.00%
Western Hemlock / Fir	73.00%
Sitka Spruce	73.00%
Alder (Red)	73.00%

**Logging System:** Cable: Medium Tower >40 - <70      **Process:** Harvester Head Delimiting  
**yarding distance:** Medium (800 ft)      **downhill yarding:** No  
**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 9      **bd. ft / load:** 3800  
**cost / mbf:** \$227.50  
**machines:** Log Loader (A)  
Forwarder  
Harvester  
Tower Yarder (Medium)

**Combination#: 2**

Douglas - Fir	27.00%
Western Hemlock / Fir	27.00%
Sitka Spruce	27.00%
Alder (Red)	27.00%

**Logging System:** Shovel      **Process:** Harvester Head Delimiting  
**yarding distance:** Medium (800 ft)      **downhill yarding:** No  
**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 17      **bd. ft / load:** 3800  
**cost / mbf:** \$82.73  
**machines:** Forwarder  
Harvester



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### Logging Costs

<b>Operating Seasons:</b> 1.00	<b>Profit Risk:</b> 10%
<b>Project Costs:</b> \$0.00	<b>Other Costs (P/R):</b> \$6,910.00
<b>Slash Disposal:</b> \$0.00	<b>Other Costs:</b> \$3,365.00

**Miles of Road**

**Road Maintenance:** \$6.17

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	2.8
Western Hemlock / Fir	\$0.00	2.0	3.2
Sitka Spruce	\$0.00	2.0	3.5
Alder (Red)	\$0.00	2.0	2.0



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**Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
<b>Douglas - Fir</b>									
\$188.41	\$6.79	\$3.53	\$186.60	\$5.55	\$39.09	\$0.00	\$2.00	\$2.70	\$434.67
<b>Western Hemlock / Fir</b>									
\$188.41	\$6.79	\$3.53	\$163.28	\$5.55	\$36.76	\$0.00	\$2.00	\$2.70	\$409.02
<b>Sitka Spruce</b>									
\$188.41	\$6.79	\$3.53	\$149.28	\$5.55	\$35.36	\$0.00	\$2.00	\$2.70	\$393.62
<b>Alder (Red)</b>									
\$188.41	\$6.79	\$3.53	\$261.25	\$5.55	\$46.55	\$0.00	\$2.00	\$2.70	\$516.78

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$770.00	\$335.33	\$0.00
Western Hemlock / Fir	\$0.00	\$621.06	\$212.04	\$0.00
Sitka Spruce	\$0.00	\$560.30	\$166.68	\$0.00
Alder (Red)	\$0.00	\$694.24	\$177.46	\$0.00



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### Summary

**Amortized**

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

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	10	\$335.33	\$3,353.30
Western Hemlock / Fir	1,033	\$212.04	\$219,037.32
Sitka Spruce	164	\$166.68	\$27,335.52
Alder (Red)	37	\$177.46	\$6,566.02

**Gross Timber Sale Value**

Recovery: \$256,292.16

Prepared By: Sara Stack

Phone: 503-815-7041



## OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Yankee Branch*

### 1. Type of Sale

Regeneration harvest, Recovery.

### 2. Legal Description

Sections 17 & 18, T1S, R9W, W.M. Tillamook County, Oregon.

### 3. Sale Acreage

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

	<b>ACRES</b>	
	<u>Gross</u>	<u>Net</u>
<b>Unit 1 (Modified Clearcut)</b>	64	44
<b>Unit 2 (Modified Clearcut)</b>	23	19
<b>Unit 3 (Modified Clearcut)</b>	11	10
<b>Total Acres</b>	97	73

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

Unit 1 was cruised utilizing a 175' x 175' grid. Unit 2 was cruised utilizing a 200' x 200' grid. Units 3 was cruised utilizing a 250' x 135' grid.

All timber sale units were cruised with a variable plot sampling method. All conifers 8" DBH and greater, and all hardwoods 10" DBH and greater, were recorded on all plots. Each plot recorded the following data: species, diameter at breast height (DBH), bole height, form factor, and grade. Merchantable heights were recorded at 6" and 7" outside bark diameters for conifer and hardwoods, respectively.

#### B. Plot size

**Point of observation was 4.0'. Form factor was measured at 16.0'.**

Unit	BAF
1	40.00
2	40.00
3	40.00



### **C. Grading System**

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40-foot lengths.

### **5. Computation Procedure**

Cruise data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table summary for each species and type. Cruise plots were cruised from January to May of 2021. Plots landing in riparian areas or areas excluded from the timber sale harvest areas were removed from computation procedures.

Net sale acreage was used for volume calculation.

Cruise Statistics (Board Foot Volumes)			
Unit	Number of Plots	SE (%)	CV (%)
1	40	16.1	101.8
2	18	9.3	38.2
3	13	19.4	67.4
Total	71	9.3 (avg.)	78.5 (avg.)

### **6. Hidden Defect and Breakage**

A 1-10% reduction was applied to conifers, and a 2-3% reduction applied to hardwood volumes for hidden defect and breakage.

### **7. Timber Description**

Unit 1 is approximately 42 years old and is a predominantly western hemlock conifer-dominated stand with a very minor red alder component, as well as minor amounts of Douglas-fir and Sitka spruce. An east wind weather event in the fall of 2020 resulted in patches of windthrow in the stand

Unit 2 is approximately 55 years old and is dominated by western hemlock with a minor red alder component, and a minor amount of Sitka spruce, and scattered other miscellaneous conifers. An east wind weather event in the fall of 2020 caused some windthrow in a few spots in the stand. Additional minor amounts of windthrow exist along the southern stand boundary, where it abuts a neighboring clear cut reproduction unit.

Unit 3 is approximately 49 years old and is a western hemlock dominated stand with a minor red alder component, and small scattered amounts of Sitka spruce, and other conifers. An east wind event in fall of 2020 caused some windthrow in portions of the stand. Additional minor amounts of windthrow exist along the southern stand boundary, where it abuts a neighboring clear cut reprod unit.

An estimated 5 acres of windthrow is found across the sale area; utilization of this material was part of the purpose behind establishing the sale. The windthrow material is composed of both broken tops and whole tree tip overs.

The sale is comprised of multiple merchantable species, please see the table below:

Unit #	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	Douglas-fir	10.9	26	5
1	Red alder	12.9	27	6
1	Western hemlock	14.0	39	5
2	Douglas-fir	14.3	51	5
2	Red alder	19.0	40	6
2	Western hemlock	15.9	61	5
3	Red alder	14.7	32	6
3	Western hemlock	16.3	70	5

Above data derived from Statistics (type) report using SuperAce 2008, developed by Atterbury consultants, Inc.

### **8. Cruiser Names/Dates**

The timber sale was cruised by the Marketing Unit and members of the Reforestation Unit of the Tillamook District from March to June of 2021.

### **9. Revenue Distribution**

FDF: 100%

Tax Code: 905: 14%, 902: 86%

Deed Numbers: 168 and 333

### **10. Attachments**

Volume Summaries

Stand Tables (3)

Log Stock Tables (3)

Species, Sort, Grade Tables (3)

Logging Plan (1)

**11. Stand and Log Stock Tables Species Key**

DF – Douglas-fir take  
RA – Red alder take  
SS – Sitka spruce take  
SL – Sitka spruce leave  
WH – Western hemlock take

Prepared by: Sara Stack

Date: 09/15/2021

T01S R09W S17 T00MC										T01S R09W S17 T00MC				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
01S	09W	17	UNIT1	00MC	44.00	40	204	S	W					

Spp	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs Per /Acre					
								Net	Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/Lf	
													4-5	6-11	12-16	17+	12-20	21-30	31-35						36-99
WH	CO	2	14	2.1	1,662	1,626	72			95	5	6	24		70	33	13	205	1.58	7.9					
WH	CO	3	65	.3	7,394	7,375	325			97	3	2	2	0	96	39	8	105	0.73	70.3					
WH	CO	4	21		2,267	2,267	100	87	13			22	32	15	31	26	5	28	0.34	79.8					
<b>WH</b>	<b>Totals</b>		94	.5	11,324	11,269	496	18	66	15	1	6	11	3	79	32	7	71	0.62	158.0					
RA	H	3	11		65	65	3								100	40	7	70	0.67	.9					
RA	H	4	89	3.0	498	483	21						6	45	48	32	6	54	0.64	8.9					
<b>RA</b>	<b>Totals</b>		5	2.7	564	549	24						6	40	55	33	7	56	0.64	9.9					
DF	CO	4	100		100	100	4	100							100	28	5	30	0.31	3.3					
<b>DF</b>	<b>Totals</b>		1		100	100	4	100							100	28	5	30	0.31	3.3					
SS	CO	3	100	6.5	110	103	5							56	44	29	10	80	0.99	1.3					
<b>SS</b>	<b>Totals</b>		1	6.5	110	103	5							56	44	29	10	80	0.99	1.3					
<b>Type Totals</b>				.6	12,098	12,021	529	17	68	14	1	6	12	5	77	32	7	70	0.62	172.5					

TC		TSTNDSUM											Stand Table Summary			
Project													YANKBRAN			
T01S R09W S17 T00MC											T01S R09W S17 T00MC					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1		Date: 09/14/2021					
01S	09W	17	UNIT1	00MC	44.00	40	204	Time:	9:26:26AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
WH		8	2	81	28	5.730	2.00	5.73	3.9	15.0	.72	22	86	32	10	4
WH		9	7	95	29	15.845	7.00	4.53	7.4	40.0	1.07	33	181	47	15	8
WH		10	6	88	46	11.001	6.00	7.33	11.2	45.0	2.62	82	330	115	36	15
WH		11	12	91	49	18.183	12.00	12.12	13.2	47.5	5.14	160	576	226	71	25
WH		12	13	91	55	16.552	13.00	15.28	13.3	50.0	6.52	204	764	287	90	34
WH		13	16	89	63	17.358	16.00	20.61	15.9	57.9	10.46	327	1,193	460	144	53
WH		14	24	91	52	22.451	24.00	21.52	17.4	64.8	11.96	374	1,394	526	164	61
WH		15	17	90	57	13.853	17.00	16.30	19.9	72.5	10.36	324	1,182	456	142	52
WH		16	27	92	51	19.337	27.00	19.34	23.0	82.2	14.22	444	1,590	626	196	70
WH		17	18	93	54	11.420	18.00	11.42	27.5	98.9	10.05	314	1,129	442	138	50
WH		18	13	87	70	7.357	13.00	11.88	28.3	97.6	10.75	336	1,160	473	148	51
WH		19	6	92	57	3.047	6.00	3.05	35.7	135.0	3.48	109	411	153	48	18
WH		20	5	90	52	2.292	5.00	2.29	38.9	120.0	2.85	89	275	125	39	12
WH		21	3	83	81	1.247	3.00	2.49	38.5	131.7	3.08	96	328	135	42	14
WH		22	4	90	53	1.515	4.00	1.52	46.2	142.5	2.24	70	216	99	31	10
WH		23	3	89	59	1.040	3.00	1.39	40.8	137.5	1.81	57	191	80	25	8
WH		24	2	91	58	.637	2.00	.64	60.6	210.0	1.23	39	134	54	17	6
WH		25	2	92	55	.587	2.00	.59	63.0	220.0	1.18	37	129	52	16	6
WH		38	1	99	17	.127	1.00									
WH		Totals	181	91	51	169.577	181.00	158.02	19.7	71.3	99.75	3,118	11,269	4,389	1,372	496
RA		10	2	99	17	3.667	2.00									
RA		11	2	75	50	3.031	2.00	3.03	11.8	30.0	.98	36	91	43	16	4
RA		12	2	87	34	2.546	2.00	1.27	15.7	50.0	.55	20	64	24	9	3
RA		13	2	88	33	2.170	2.00	1.08	17.9	50.0	.53	19	54	23	9	2
RA		14	4	94	29	3.742	4.00	.94	26.7	70.0	.69	25	65	30	11	3
RA		15	2	82	57	1.630	2.00	1.63	27.2	70.0	1.22	44	114	54	19	5
RA		16	1	86	63	.716	1.00	.72	29.9	70.0	.59	21	50	26	9	2
RA		17	1	83	69	.634	1.00	.63	36.8	120.0	.64	23	76	28	10	3
RA		18	1	82	52	.566	1.00	.57	34.6	60.0	.54	20	34	24	9	1
RA		Totals	17	88	37	18.702	17.00	9.87	21.1	55.6	5.74	209	549	252	92	24
SS		15	1	98	17	.815	1.00									
SS		16	1	82	46	.716	1.00	.72	22.6	80.0	.42	16	57	19	7	3
SS		18	1	89	55	.566	1.00	.57	36.6	80.0	.54	21	45	24	9	2
SS		Totals	3	90	37	2.097	3.00	1.28	28.8	80.0	0.96	37	103	42	16	5
DF		10	1	85	41	1.833	1.00	1.83	7.8	30.0	.41	14	55	18	6	2
DF		11	1	81	44	1.515	1.00	1.52	9.9	30.0	.43	15	45	19	7	2
DF		12	1	98	17	1.273	1.00									
DF		Totals	3	87	35	4.622	3.00	3.35	8.7	30.0	0.83	29	100	37	13	4
Totals			204	90	49	194.998	204.00	172.52	19.7	69.7	107.28	3392	12,021	4,720	1,493	529



TC TLOGSTVB

**Log Stock Table - MBF**

**Project: YANKBRAN**

**T01S R09W S17 T00MC**

**T01S R09W S17 T00M**

**Twp Rge Sec Tract Type Acres Plots Sample Trees**  
**01S 09W 17 UNIT1 00MC 44.00 40 204**

**Page 2**  
**Date 9/14/2021**  
**Time 9:26:25AM**

Spp	T	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
SS		CO	3	22		3	11.1	3	55.9				3						
SS		CO	3	38		2		2	44.1			2							
SS		Totals				5	6.5	5	.9			2	3						
Total All Species						532		529	100.0		92	81	145	131	52	19	9		

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page 1									
Project: YANKBRAN												Date 9/20/2021									
												Time 12:57:28PM									
T01S R09W S18 T00MC										T01S R09W S18 T00MC											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
01S	09W	18	UNIT2	00MC	19.00	18	119	S	W												
S Spp	So T	Gr rt ad	% Net BdFt	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	Dia	Bd	CF/ Lf		
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft			
WH	CO	2	38	.5	7,590	7,549	143			82	18				100	40	14	312	1.99	24.2	
WH	CO	3	49	.3	9,615	9,586	182			100				0	2	97	39	8	99	0.69	97.1
WH	CO	4	13		2,380	2,380	45	92	8				8	30	33	29	31	5	33	0.39	71.6
<b>WH</b>	<b>Totals</b>		67	.4	19,586	19,515	371	11	50	32	7		1	4	5	90	36	8	101	0.78	192.9
SS	CO	2	53	.7	4,751	4,720	90			50	50			6	6	88	37	15	329	2.30	14.3
SS	CO	3	28	.8	2,471	2,450	47			100			3		2	95	39	8	92	0.88	26.6
SS	CO	4	19		1,612	1,612	31	25	75				10	36		54	26	6	40	0.45	40.0
<b>SS</b>	<b>Totals</b>		30	.6	8,833	8,781	167	5	42	27	27		3	10	4	84	32	8	109	1.00	80.9
RA	H	4	100		271	271	5			100					100	40	6	60	1.08	4.5	
<b>RA</b>	<b>Totals</b>		1		271	271	5			100					100	40	6	60	1.08	4.5	
DF	CO	3	59		191	191	4			100					100	40	9	120	0.83	1.6	
DF	CO	4	41		128	128	2	100					25		75	32	5	32	0.52	4.0	
<b>DF</b>	<b>Totals</b>		1		319	319	6	40	60				10		90	34	6	57	0.63	5.6	
SL	CO	2	68		185	185	4			100			100			17	17	200	1.99	.9	
SL	CO	3	32		83	83	2			100					100	40	8	90	0.96	.9	
<b>SL</b>	<b>Totals</b>		1		268	268	5			31	69		69		31	29	13	145	1.27	1.8	
<b>Type Totals</b>				.4	29,277	29,154	554	9	48	29	13		2	5	5	88	35	8	102	0.84	285.8



TC		TSTNDSUM											Stand Table Summary				
Project													YANKBRAN				
T01S R09W S18 T00MC											T01S R09W S18 T00MC						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1								
01S	09W	18	UNIT2	00MC	19.00	18	119	Date:	09/20/2021								
								Time:	12:57:29PM								
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
WH		10	3	84	70	19.929	10.87	19.93	13.1	53.3	8.34	261	1,063	158	50	20	
WH		11	2	84	66	10.980	7.25	10.98	16.3	50.0	5.74	179	549	109	34	10	
WH		12	1	88	110	4.613	3.62	9.23	15.3	65.0	4.53	142	600	86	27	11	
WH		13	3	89	76	11.792	10.87	15.72	17.8	65.0	8.94	279	1,022	170	53	19	
WH		14	4	83	86	13.557	14.49	23.72	19.2	64.3	14.61	457	1,525	278	87	29	
WH		15	4	87	83	11.810	14.49	20.67	21.9	85.7	14.50	453	1,771	276	86	34	
WH		16	3	85	78	7.785	10.87	12.97	25.6	90.0	10.64	333	1,168	202	63	22	
WH		17	6	88	89	13.792	21.74	27.58	26.8	100.0	23.63	739	2,758	449	140	52	
WH		18	1	92	102	2.050	3.62	4.10	36.2	150.0	4.75	148	615	90	28	12	
WH		19	2	81	89	3.680	7.25	7.36	32.9	117.5	7.75	242	865	147	46	16	
WH		20	2	84	95	3.321	7.25	6.64	39.6	135.0	8.41	263	897	160	50	17	
WH		21	2	85	98	3.013	7.25	6.03	45.3	157.5	8.74	273	949	166	52	18	
WH		23	3	88	84	3.767	10.87	7.53	49.2	190.0	11.87	371	1,432	225	70	27	
WH		24	3	80	83	3.460	10.87	6.92	52.2	153.3	11.55	361	1,061	219	69	20	
WH		25	3	85	93	3.189	10.87	6.38	63.6	226.7	12.98	405	1,446	247	77	27	
WH		26	2	89	98	1.965	7.25	3.93	71.2	285.0	8.96	280	1,120	170	53	21	
WH		27	1	72	81	.911	3.62	1.82	68.2	150.0	3.98	124	273	76	24	5	
WH		31	1	83	81	.691	3.62	1.38	87.3	290.0	3.86	121	401	73	23	8	
WH		Totals	46	85	82	120.306	166.67	192.91	28.2	101.2	173.78	5,431	19,515	3,302	1,032	371	
SS		11	2	79	90	12.459	8.22	18.69	12.3	43.3	5.96	229	810	113	44	15	
SS		13	3	86	100	13.380	12.33	26.76	16.2	65.0	11.30	435	1,739	215	83	33	
SS		18	1	83	62	2.326	4.11	4.65	20.6	70.0	2.49	96	326	47	18	6	
SS		19	1	82	56	2.088	4.11	2.09	46.4	80.0	2.52	97	167	48	18	3	
SS		20	1	77	64	1.884	4.11	1.88	56.9	120.0	2.79	107	226	53	20	4	
SS		21	3	88	87	5.128	12.33	8.55	49.9	172.0	11.10	427	1,470	211	81	28	
SS		22	1	89	76	1.557	4.11	3.11	41.5	135.0	3.36	129	420	64	25	8	
SS		24	1	86	84	1.309	4.11	2.62	49.7	185.0	3.38	130	484	64	25	9	
SS		26	1	78	59	1.115	4.11	1.12	98.7	180.0	2.86	110	201	54	21	4	
SS		27	2	82	87	2.068	8.22	4.14	69.9	225.0	7.52	289	931	143	55	18	
SS		28	2	85	85	1.923	8.22	3.85	72.9	265.0	7.29	281	1,019	139	53	19	
SS		29	1	92	75	.896	4.11	1.79	72.1	285.0	3.36	129	511	64	25	10	
SS		30	1	82	86	.838	4.11	1.68	78.0	285.0	3.40	131	477	65	25	9	
SS		Totals	20	83	87	46.971	82.22	80.92	32.0	108.5	67.33	2,590	8,781	1,279	492	167	
DF		13	1	72	66	2.411	2.22	2.41	24.1	40.0	1.66	58	96	31	11	2	
DF		16	1	88	78	1.592	2.22	3.18	19.6	70.0	1.78	62	223	34	12	4	
DF		Totals	2	78	71	4.002	4.44	5.59	21.5	57.1	3.43	120	319	65	23	6	
RA		19	1	84	48	4.515	8.89	4.51	43.3	60.0	5.38	196	271	102	37	5	
RA		Totals	1	84	48	4.515	8.89	4.51	43.3	60.0	5.38	196	271	102	37	5	
SL		21	1	89	88	.924	2.22	1.85	36.2	145.0	1.74	67	268	33	13	5	
SL		Totals	1	89	88	.924	2.22	1.85	36.2	145.0	1.74	67	268	33	13	5	
Totals			70	85	82	176.718	264.44	285.78	29.4	102.0	251.66	8403	29,154	4,781	1,597	554	

TC		TLOGSTVB		Log Stock Table - MBF														
Project:										YANKBRAN								
T01S R09W S18 T00MC										T01S R09W S18 T00M								
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1									
01S	09W	18	UNIT2	00MC	19.00	18	119	Date	9/20/2021									
									Time	12:57:28PM								
Spp	T	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
WH	CO	2	40		144	.5	143	38.7					43	51	50			
WH	CO	3	26		1		1	.2										
WH	CO	3	32		4		4	1.1			4							
WH	CO	3	36		2		2	.6			2							
WH	CO	3	38		11		11	2.9			11							
WH	CO	3	40		165	.3	165	44.4			35	46	83					
WH	CO	4	18		2		2	.6		2	0							
WH	CO	4	20		1		1	.3		1								
WH	CO	4	22		1		1	.2		1								
WH	CO	4	23		1		1	.2			1							
WH	CO	4	26		4		4	1.0		4								
WH	CO	4	27		1		1	.2			1							
WH	CO	4	28		3		3	.8		2	1							
WH	CO	4	30		5		5	1.4		5								
WH	CO	4	32		3		3	.7		3								
WH	CO	4	33		4		4	.9		4								
WH	CO	4	34		9		9	2.4		8	1							
WH	CO	4	36		5		5	1.4		5								
WH	CO	4	38		1		1	.3		1								
WH	CO	4	39		4		4	1.1		4								
WH	CO	4	40		3		3	.7		3								
WH	Totals				372		371	66.9		42	56	47	83	43	51	50		
SS	CO	2	24		5		5	3.2					5					
SS	CO	2	34		6	10.0	5	3.2					5					
SS	CO	2	38		8		8	5.1					8					
SS	CO	2	40		71		71	42.3					7	19	45			
SS	CO	3	18		1		1	.9				1						
SS	CO	3	34		1		1	.7			1							
SS	CO	3	40		44	.9	44	26.4			12	23	10					
SS	CO	4	12		1		1	.5		1								
SS	CO	4	15		2		2	1.0		2								
SS	CO	4	20		1		1	.4				1						
SS	CO	4	21		1		1	.5			1							
SS	CO	4	22		1		1	.4				1						
SS	CO	4	23		3		3	1.9		3								
SS	CO	4	24		5		5	2.8			5							
SS	CO	4	26		1		1	.4			1							
SS	CO	4	29		1		1	.4		1								
SS	CO	4	40		17		17	9.9		1	5	10						
SS	Totals				168		167	30.1		8	24	34	11	12	33	45		
RA	H	4	40		5		5	100.0			5							
RA	Totals				5		5	.9			5							
DF	CO	3	40		4		4	59.8				4						
DF	CO	4	20		1		1	10.0		1								
DF	CO	4	40		2		2	30.2		2								
DF	Totals				6		6	1.1		2		4						
SL	CO	2	17		4		4	69.0							4			

TC TLOGSTVB

**Log Stock Table - MBF**

**Project: YANKBRAN**

**T01S R09W S18 T00MC**

**T01S R09W S18 T00M**

**Twp Rge Sec Tract Type Acres Plots Sample Trees**  
**01S 09W 18 UNIT2 00MC 19.00 18 119**

**Page 2**  
**Date 9/20/2021**  
**Time 12:57:28PM**

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
SL		CO	3		40	2		2	31.0				2							
SL		Totals				5		5	.9				2				4			
Total All Species						556		554	100.0		52	85	86	94	55	83	98			

<b>T01S R09W S18 T00MC</b>										<b>T01S R09W S18 T00MC</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
<b>01S</b>	<b>09W</b>	<b>18</b>	<b>167</b>	<b>00MC</b>	<b>10.00</b>	<b>13</b>	<b>73</b>	<b>S</b>	<b>W</b>					

S Spp	So T	Gr rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
								Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/		
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf		
WH	CO	2	40	10,492	10,492	105			73	27				100	40	14	324	1.91	32.4		
WH	CO	3	45	11,877	11,877	119			100					1	99	40	8	107	0.80	110.7	
WH	CO	4	15	3,677	3,677	37	79	21				5	27	18	51	32	5	36	0.36	101.0	
<b>WH</b>	<b>Totals</b>		97	26,045	26,045	260	11	49	30	11		1	4	3	93	37	8	107	0.80	244.1	
RA	H	4	100	810	810	8			100					8	30	62	28	6	44	0.79	18.3
<b>RA</b>	<b>Totals</b>		3	810	810	8			100					8	30	62	28	6	44	0.79	18.3
<b>Type Totals</b>				26,855	26,855	269	11	50	29	10		1	4	4	92	36	8	102	0.80	262.4	

TC		TSTNDSUM		Stand Table Summary												
Project														YANKBRAN		
T01S R09W S18 T00MC											T01S R09W S18 T00MC					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees			Page:	1					
01S	09W	18	167	00MC	10.00	13	73			Date:	06/01/2021					
										Time:	6:27:29AM					
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
WH		9	1	66	100	11.042	4.88	11.04	13.6	40.0	4.82	151	442	48	15	4
WH		10	1	88	71	8.944	4.88	8.94	12.8	60.0	3.65	114	537	37	11	5
WH		11	1	88	72	7.392	4.88	7.39	14.8	60.0	3.51	110	443	35	11	4
WH		12	2	86	87	12.422	9.76	24.84	12.7	52.5	10.09	315	1,304	101	32	13
WH		13	4	86	96	21.169	19.51	42.34	16.1	62.5	21.87	683	2,646	219	68	26
WH		14	2	75	119	9.126	9.76	18.25	20.1	65.0	11.72	366	1,186	117	37	12
WH		15	1	85	75	3.975	4.88	3.97	31.5	90.0	4.01	125	358	40	13	4
WH		16	2	86	100	6.987	9.76	13.97	25.6	102.5	11.45	358	1,432	114	36	14
WH		17	4	80	106	12.379	19.51	24.76	29.4	103.8	23.27	727	2,569	233	73	26
WH		19	7	82	107	17.342	34.15	34.68	37.6	133.6	41.71	1,304	4,633	417	130	46
WH		20	3	77	94	6.708	14.63	13.42	39.3	120.0	16.86	527	1,610	169	53	16
WH		21	2	91	95	4.056	9.76	8.11	44.3	165.0	11.49	359	1,339	115	36	13
WH		22	1	71	96	1.848	4.88	3.70	47.8	120.0	5.65	177	443	57	18	4
WH		23	4	85	97	6.763	19.51	13.53	54.0	197.5	23.37	730	2,671	234	73	27
WH		24	1	81	100	1.553	4.88	3.11	42.6	170.0	4.24	132	528	42	13	5
WH		25	1	85	111	1.431	4.88	2.86	70.0	290.0	6.41	200	830	64	20	8
WH		26	1	90	102	1.323	4.88	2.65	72.9	310.0	6.17	193	820	62	19	8
WH		27	1	77	96	1.227	4.88	2.45	75.8	230.0	5.95	186	564	59	19	6
WH		29	1	88	103	1.063	4.88	2.13	95.0	425.0	6.46	202	904	65	20	9
WH		30	1	85	99	.994	4.88	1.99	96.2	395.0	6.12	191	785	61	19	8
WH		Totals	41	82	96	137.743	200.00	244.13	29.3	106.7	228.82	7,151	26,045	2,288	715	260
RA		10	1	56	17	6.582	3.59	6.58	4.5	10.0	.81	29	66	8	3	1
RA		15	1	89	56	2.925	3.59	2.93	26.7	70.0	2.15	78	205	21	8	2
RA		16	1	87	60	2.571	3.59	2.57	19.0	50.0	1.34	49	129	13	5	1
RA		17	2	78	52	4.555	7.18	4.55	37.9	65.0	4.75	173	296	48	17	3
RA		20	1	78	46	1.645	3.59	1.65	46.8	70.0	2.12	77	115	21	8	1
RA		Totals	6	73	41	18.278	21.54	18.28	22.2	44.3	11.17	406	810	112	41	8
Totals			47	81	90	156.021	221.54	262.41	28.8	102.3	239.98	7557	26,855	2,400	756	269

**Log Stock Table - MBF**

**Project: YANKBRAN**

**T01S R09W S18 T00MC**

**T01S R09W S18 T00M**

**Twp Rge Sec Tract**  
**01S 09W 18 167**

**Type Acres Plots Sample Trees**  
**00MC 10.00 13 73**

**Page 1**  
**Date 6/1/2021**  
**Time 6:27:28AM**

Spp	T	So	Gr	Log	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+	
WH		CO	2	40	105		105	40.3					26	39	25	14					
WH		CO	3	32	1		1	.3			1										
WH		CO	3	40	118		118	45.3			21	44	53								
WH		CO	4	16	1		1	.5		1											
WH		CO	4	20	0		0	.2		0											
WH		CO	4	23	1		1	.4		1											
WH		CO	4	26	2		2	.7		2											
WH		CO	4	28	3		3	1.1		3											
WH		CO	4	30	4		4	1.6		4											
WH		CO	4	32	2		2	.8		2											
WH		CO	4	34	4		4	1.7		4											
WH		CO	4	36	3		3	1.3		3											
WH		CO	4	37	1		1	.3		1											
WH		CO	4	38	1		1	.3		1											
WH		CO	4	40	14		14	5.3		6	8										
WH		Totals			260		260	97.0		29	29	44	53	26	39	25	14				
RA		H	4	12	1		1	8.1		1											
RA		H	4	34	2		2	30.1		1	1										
RA		H	4	36	1		1	16.9		1											
RA		H	4	40	4		4	44.9		4											
RA		Totals			8		8	3.0		7	1										
Total All Species					269		269	100.0		29	36	45	53	26	39	25	14				



"STEWARDSHIP IN FORESTRY"

**Yankee Branch**

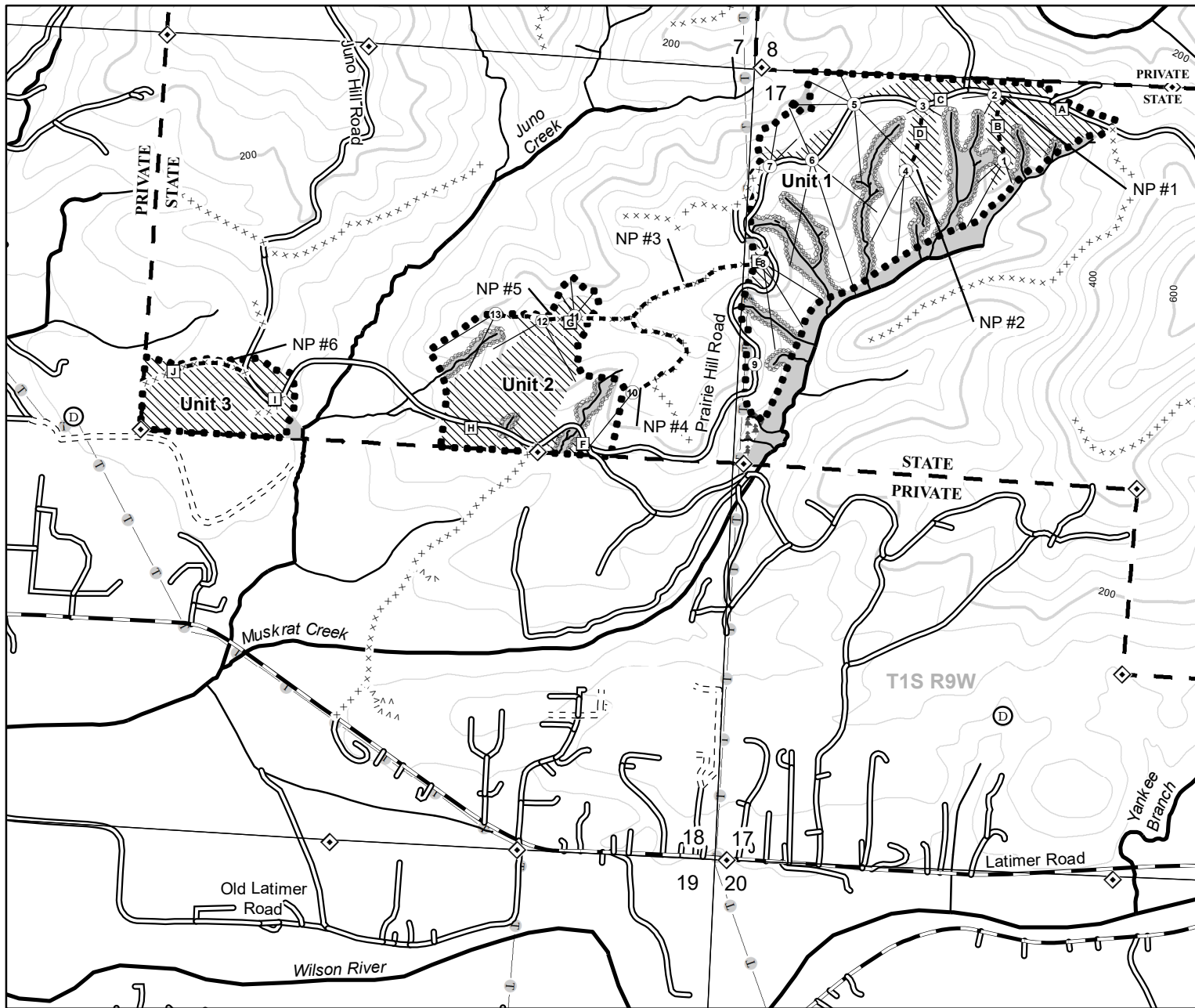
**Volume Summary**

<b>Unit 1-Harvest Type</b>				
44 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	0.1	4	2%	4
Hemlock	11.3	496	10%	446
Spruce	0.1	5	1%	4
Noble Fir		0	1%	0
Alder	0.5	24	2%	24
<b>TOTAL</b>	<b>12.0</b>	<b>529</b>		<b>479</b>

<b>Unit 2-Harvest Type</b>				
19 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	0.3	6	2%	6
Hemlock	19.5	371	5%	352
Spruce	8.8	167	4%	160
Noble Fir		0	1%	0
Alder	0.3	5	3%	5
<b>TOTAL</b>	<b>28.9</b>	<b>549</b>		<b>523</b>

<b>Unit 3-Harvest Type</b>				
10 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir		0	2%	0
Hemlock	26.0	260	10%	234
Spruce		0	1%	0
Noble Fir		0	1%	0
Alder	0.8	8	2%	8
<b>TOTAL</b>	<b>26.9</b>	<b>269</b>		<b>242</b>

<b>TOTAL SALE VOLUME</b>			<b>73</b>	<b>acres</b>
SPECIES	Cruised Net (MBF)	Net Sale (MBF)		
Douglas-fir	10	10		
Hemlock	1127	1033		
Spruce	171	164		
Noble Fir	0	0		
Red Alder	37	37		
<b>TOTAL</b>	<b>1346</b>	<b>1244</b>		



**Legend**

- ◆ Corners
- Ⓧ Domestic Water Intake
- ▭ Sections
- ▬ Property Line
- ⚡ Powerlines
- Cable Landing
- Tractor Landing
- ↙ Cable Logging
- Timber Sale Boundary
- ⋯ Riparian Boundary
- ▨ Ground Based Logging
- ⊠ Green Tree Retention Area
- ▨ Riparian Buffer
- ⋯ Non-Project Roads
- Paved Road
- Surfaced Road
- - - Unsurfaced Road
- ×××× Blocked Road
- vvvvv Abandoned Road
- Type-F Stream
- Type-N Stream
- 200' Contour
- 40' Contour

**LOGGING PLAN**  
 FOR TIMBER SALE CONTRACT  
 YANKEE BRANCH  
 TL-341-2022-W00913-01  
 PORTIONS OF SECTIONS 17, 18, T1S, R9W, W.M.  
 TILLAMOOK COUNTY, OREGON

Tillamook District GIS  
 October, 2021

This product is for informational use and may not be  
 suitable for legal, engineering, or surveying purposes.



1:12,000  
 1 inch = 1,000 feet



	NET ACRES		
	GROUND	CABLE	TOTAL
UNIT 1	12	32	44
UNIT 2	13	6	19
UNIT 3	10	0	10
<b>TOTAL</b>	<b>35</b>	<b>38</b>	<b>73</b>