Timber Sale Appraisal
Wall GNA

Sale SW-341-2020-GF9019-01

District: S Cascade

Date: April 14, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$175,751.55	$0.00	$175,751.55
		Project Work:	$0.00
		Advertised Value:	$175,751.55

Timber Sale Appraisal
Wall GNA

Sale SW-341-2020-GF9019-01

District: S Cascade **Date: April 14, 2020**

Timber Description

Location: Section 26, T20S, R4E, W.M., Lane County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	14	0	100
Western Hemlock / Fir	12	0	100

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	174	400	574
Western Hemlock / Fir	2	43	45
Total	176	443	619

Comments: SOURCE OF POND VALUES

Local Pond Values, March, 2020.

PULP PRICE

Pulp (Conifer and Hardwood) Price = $1/Ton

OTHER COSTS WITH PROFIT & RISK TO BE ADDED

Equipment move-in: (($120/hr + ($22/hr x 2 pilots)) x 5 hr move cycle x 5 machines= $4,100

Equipment weed wash: (($120/hr + ($22/hr x 2 pilots)) x 2.5 hr wash = $410 x 5 machines = $2,050

Landing subsoiled to depth of 20 inches, seeded, and application of mulch or weed-free straw: $300 x 10 landings = $3,000

Primary skid trail subsoiled to depth of 20 inches, water bars installed, seeded, mulched and entrance blocked = $3,000

Seeding and application of weed-free straw of all disturbed sites with seed provided by STATE (disposal sites and other areas determined by STATE) =$2,000

TOTAL Other Cost (with Profit & Risk to be added) = $14,150

SLASH DISPOSAL COSTS

Move-In: (($120/hour loaded transport) + ($22/hour x 2 pilots)) X 4 hour Move-In Cycle = $656 X 1 Excavator = $656

Equipment weed wash: (($120/hour loaded transport) + ($22/hour X 1 pilot/wash personnel)) X 2.5 hour wash time = $355 X 1 Excavator = $355

Roadside grapple piling along system roads: $1,000/mi x 1.46 mi = $1,460

Pile landing slash: 10 landings (20hrs @ $100/hr) = $2,000

Covering piles: ($12/pile x 40 piles) + ($22/hr x 2 covering personnel x 40 hours) = $2,240

TOTAL Slash Disposal Costs =$6,711

ROAD MAINTENANCE COSTS

TOTAL Road Maintenance: $25,028.90 /619 MBF = $40.43/MBF

See the attached ‘Road Maintenance Appraisal’ for cost estimates of dust abatement, blading, brushing, etc. for maintenance of USFS system roads by Purchaser.

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District: S Cascade **Date: April 14, 2020**

Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	Western Hemlock / Fir	100.00%

Logging System: Shovel **Process:** Feller Buncher

yarding distance: Medium (800 ft) **downhill yarding:** No

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 6 **bd. ft / load:** 3700

cost / mbf: $159.37

machines: Feller Buncher w/ Delimber

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District: S Cascade **Date: April 14, 2020**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	15%
Project Costs:	$0.00	**Other Costs (P/R):**	$14,150.00
Slash Disposal:	$6,711.00	**Other Costs:**	$0.00

Miles of Road

Road Maintenance: $40.43

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

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	$90.00	0.0	0.0
Western Hemlock / Fir	$90.00	0.0	0.0

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District: S Cascade

Date: April 14, 2020

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$159.37	$40.43	$14.18	$90.00	$22.86	$49.03	$10.84	$2.00	$0.00	$388.71
Western Hemlock / Fir									
$159.37	$40.43	$14.18	$90.00	$22.86	$49.03	$10.84	$2.00	$0.00	$388.71

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$686.16	$297.45	$0.00
Western Hemlock / Fir	$0.00	$500.16	$111.45	$0.00

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Sale SW-341-2020-GF9019-01

District: S Cascade **Date: April 14, 2020**

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	574	$297.45	$170,736.30
Western Hemlock / Fir	45	$111.45	$5,015.25

Gross Timber Sale Value

Recovery: $175,751.55

Prepared By: Kyle Sullivan **Phone:** 541-285-8685

Road Maintenance Appraisal

Wall GNA

				T-811	T-812	T-813	T-814	T-831	T-832	T-834	T-836	T-842	T-854	T-891
	Termini			Blade	Dust	Surface	Asphalt	Ditch Mtc.	End Haul	Drain Struct	Joint Use	Cut Veg.	Danger Trees	Water
Road Number	From	To	Actual Miles	Mile	M-Gal.	CY	Ton	Mile	Mile	Mile	Mile	Mile	Mile	Mile
2400000	0	8.18	8.18				100			8.18		8.18	5	
1934000	0	1.25	1.25	1.25	40	50		1.25	1.25	1.25	1.25	1.25		1.25
1934232	0	0.21	0.21	0.21		10					0.21			0.21
			Total	1.46		60		1.25	1.25	9.43	1.46	9.43	5	1.46
			Unit Cost	$1,500/mile	$25/M-Gal.	$28/CY	$100/Ton	$300/Mile	$300/Mile	$130/Mile	$950/Mile	$600/mile	$140/tree	$300/mile
			Total Cost	$ 2,190.00	$ 1,000.00	$ 1,680.00	$ 10,000.00	$ 375.00	$ 375.00	$ 1,225.90	$ 1,387.00	$ 5,658.00	$ 700.00	$ 438.00

Total =	$ 25,028.90
Road Maintenance Cost/MBF	$ 40.43

CRUISE REPORT
Wall GNA
Contract No. SW-341-2020-GF9019-01

1. Locations: Portions of Section 26, T20S, R4E, W.M., Lane County, Oregon.

2. Cruise Design:
A Coefficient of Variation of 80% and an average stand diameter of 12 inches (take trees) is estimated prior to cruising. For sales of this size and approximate value, ODF cruise standards require a sampling error of 15% at a 68% confidence level. The cruise design chosen for this sale is a fixed area plot cruise broken up into two strata to account for a difference in density between the two stands. The silvicultural prescription calls for 60 Douglas-fir and/or western hemlock trees per acre to be retained for both stands. Trees that are 'likely take' based on the prescription were cruised. For strata 1 (stand 2495) a $1/5^{th}$ acre plot was used and for strata 2 (stand 2506) a $1/20^{th}$ acre plot was used. $1/5^{th}$ acre plots = 52.66 ft. radius; $1/20^{th}$ acre plots = 26.33 ft. radius.

3. Sampling Methods:
Plots were laid out on a 250 ft. x 250 ft. grid. Plots falling on or near the Timber Sale Boundary or existing roads were offset 1 chain (66 ft.). A grade to count plot ratio of 1:1 was used for strata 1 and a ratio of 1:2 was used for strata 2 (Count odd plots, measure even plots).

4. Cruise Report:
Additional and more specific cruise summaries are included in the SuperAce outputs: Project Statistics, Stand Table Summary, Log Stock Table, and Species, Sort, Grade Table.

5. Tree Measurement and Grading:
All grade plot sample trees were measured and graded following Columbia River Log Scale grade rules.

a) Height Standards: Total tree heights were measured to the nearest foot. Bole heights are measured to a minimum of a 6" DIB.

b) Diameter Standards: Diameters were measured outside bark at breast height to the nearest tenth of an inch. Minimum merchantable diameter is 8" DBH for all conifers.

c) Form Factors: Measured or estimated for each grade tree using a form point of 16 feet.

d) Tree Segments: Log segments were recorded in 40' lengths whenever possible. Preferred lengths are 40', 38', 36', 32', 28', 26', and descending 2' multiples. The maximum segment is 40' and the minimum is 12' for all grades.

e) Sort and Grade: Conifer will graded to a merchantable top specified by the official log scaling rules. For all Douglas-fir, 2S segments were graded to a 12" top DIB and minimum net volume 60 bf (12' @ 12"), 3S to 6" top DIB and minimum net volume 50 bf (34' @ 6") and 4S to a 6" top DIB and minimum net volume 10 bf (5' @ 6").

f) Field Procedures: Mark plot center with blue pin flag or a stick with green flagging with plot number written on it. Flag 'likely take' trees in green.

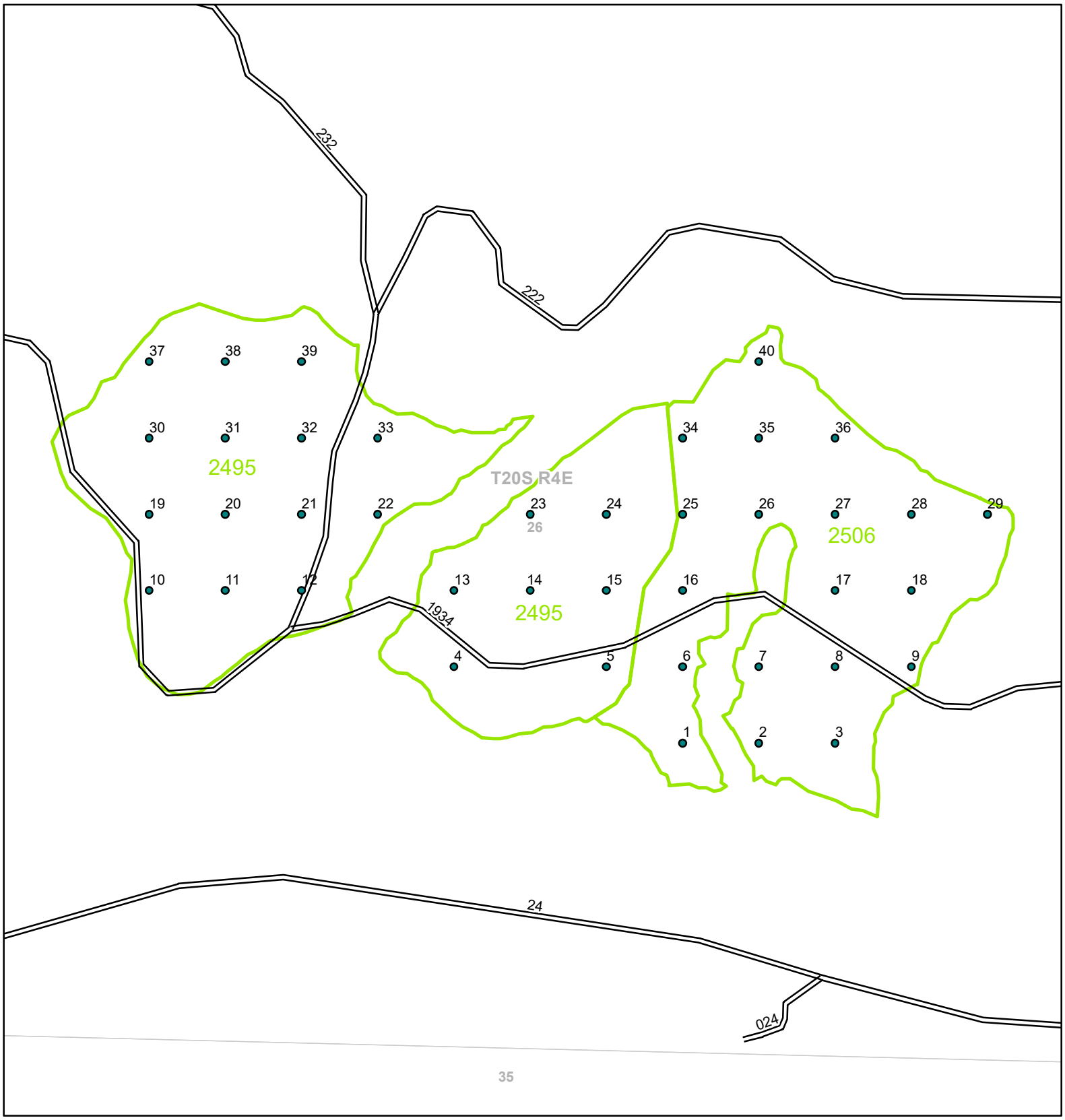
5. Data Processing:

a) **Volumes and Statistics**, Cruise, volume estimates and sampling statistics were derived from Super Ace 2008 cruise software.

b) **Deductions:** An estimate visible defect or damage as a length deduction, diameter deduction, or percentage deduction was made. A 5 percent volume deduction will be used for all species and log segments to account for hidden defect and breakage in addition to any visible defect.

c) **Acreage:** The total timber sale area is 64 net acres.

6. Cruisers: The sale was cruised by ODF cruisers Patten, Post, Heflin, Cline, and Sullivan



0.25 0 0.25 Miles

Wall GNA Cruise Map
250' x 250' Spacing
Stand 2495: 1/5th acre fixed area plot
Stand 2506: 1/20th acre fixed area plot

Legend

- Cruise Plot
- Cruise Stands
- Road

Springfield GIS

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

TC PSPCSTGR

Kyle Sullivan

Species, Sort Grade - Board Foot Volumes (Project)

T20S R04E S22 TyS1	38.40
T20S R04E S22 TyS2	25.60

Project: **WALL**

Acres **64.00**

Page **1**

Date **3/11/2020**

Time **1:03:30PM**

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of 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	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		DO 2M	30	8.7	2,984	2,724	174		11	82	7				100	40	13	237	1.31	11.5
DF		DO 3M	61	5.8	5,862	5,523	353		98	2		0	1	3	95	39	8	86	0.54	64.1
DF		DO 4M	9	5.0	771	733	47		100			34	29	18	19	13	6	15	0.27	48.7
DF	**Totals**		93	6.6	9,617	8,980	575		72	26	2	3	3	3	91	29	8	72	0.59	124.2
WH		DO 2M	4	5.0	34	33	2			100					100	40	13	228	1.34	.1
WH		DO 3M	81	17.7	686	565	36		100			0	5	6	89	38	8	70	0.51	8.1
WH		DO 4M	15	5.0	110	105	7		100			12	88			15	6	17	0.30	6.2
WH	**Totals**		7	15.5	830	702	45		95	5		2	17	5	76	28	7	48	0.48	14.5
Totals				7.3	10,448	9,682	620		73	25	2	3	4	3	89	29	7	70	0.58	138.7

TC PSTATS
Kyle Sullivan

PROJECT STATISTICS

PROJECT WALL

DATE 3/11/2020

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
20S	04E	22	WALL	S1	64.00	40	227	S	W
20S	04E	22	WALL	S2					

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	40	227	5.7		
CRUISE	27	167	6.2	3,749	4.5
DBH COUNT	8	60	7.5		
REFOREST					
COUNT					
BLANKS	5				
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
DOUG FIR	133	51.3	14.0	101	14.7	55.2	9,617	8,980	2,115	2,115
WHEMLOCK	34	7.2	12.2	82	1.7	5.9	830	702	191	191
TOTAL	*167*	*58.6*	*13.8*	*99*	*16.4*	*61.1*	*10,448*	*9,682*	*2,306*	*2,306*

CONFIDENCE LIMITS OF THE SAMPLE

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

CL 68.1 SD: 1.0

SAMPLE TREES - BF

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	65.8	5.7	222	236	249			
WHEMLOCK	63.7	10.9	79	89	98			
TOTAL	*74.1*	*5.7*	*194*	*206*	*217*	*220*	*55*	*24*

CL 68.1 SD: 1.0

SAMPLE TREES - CF

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	62.4	5.4	52	55	58			
WHEMLOCK	68.5	11.7	19	22	25			
TOTAL	*70.5*	*5.4*	*46*	*48*	*51*	*198*	*50*	*22*

CL 68.1 SD: 1.0

TREES/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	102.5	16.2	43	51	60			
WHEMLOCK	265.2	41.9	4	7	10			
TOTAL	*94.0*	*14.9*	*50*	*59*	*67*	*353*	*88*	*39*

CL 68.1 SD: 1.0

BASAL AREA/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	92.5	14.6	47	55	63			
WHEMLOCK	250.9	39.6	4	6	8			
TOTAL	*86.1*	*13.6*	*53*	*61*	*69*	*296*	*74*	*33*

CL 68.1 SD: 1.0

NET BF/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	89.5	14.1	7,711	8,980	10,249			
WHEMLOCK	259.5	41.0	414	702	990			
TOTAL	*83.6*	*13.2*	*8,403*	*9,682*	*10,961*	*279*	*70*	*31*

CL 68.1 SD: 1.0

NET CUFT FT/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	89.8	14.2	1,815	2,115	2,415			
WHEMLOCK	255.0	40.3	114	191	268			
TOTAL	*83.9*	*13.3*	*2,001*	*2,306*	*2,612*	*281*	*70*	*31*

TC PSTNDSUM

Kyle Sullivan

Stand Table Summary

Page 1

Date: 3/11/2020

T20S R04E S22 TyS1	38.40
T20S R04E S22 TyS2	25.60

Project WALL

Acres 64.00

Time: 1:03:30PM

Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	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		8	1	86	56	1.123	.40	2.25	2.3	9.5	.15	5	21	9	3	1
DF		9	6	87	87	2.817	1.21	4.37	6.2	34.0	.78	27	149	50	17	10
DF		10	10	88	108	8.288	4.59	16.58	8.2	37.0	3.87	136	613	248	87	39
DF		11	9	90	103	3.246	2.16	6.78	9.7	40.9	1.87	65	277	120	42	18
DF		12	10	92	104	6.328	4.78	13.92	11.7	50.1	4.67	164	697	299	105	45
DF		13	11	90	111	3.531	3.25	7.78	15.3	66.5	3.38	119	517	216	76	33
DF		14	12	91	107	6.614	7.05	18.72	13.6	57.7	7.22	254	1,080	462	163	69
DF		15	10	90	104	4.368	5.25	10.57	18.0	74.6	5.42	190	789	347	121	50
DF		16	16	92	118	4.246	5.84	10.49	22.6	95.6	6.75	237	1,003	432	152	64
DF		17	11	90	122	2.551	3.89	7.65	21.1	86.8	4.61	162	664	295	104	43
DF		18	12	91	123	2.694	4.79	8.08	25.7	103.8	5.93	208	839	379	133	54
DF		19	9	91	120	3.246	6.44	9.59	28.2	112.6	7.71	271	1,080	494	173	69
DF		20	5	91	135	.714	1.53	2.14	33.7	145.0	2.06	72	311	132	46	20
DF		21	6	94	141	.857	2.03	2.86	37.0	172.4	3.01	106	493	193	68	32
DF		22	3	93	141	.429	1.12	1.43	39.6	175.7	1.61	57	251	103	36	16
DF		23	1	90	150	.143	.43	.57	39.2	180.5	.64	22	103	41	14	7
DF		24	1	94	125	.143	.45	.43	48.9	218.5	.60	21	94	38	13	6
DF		Totals	133	90	109	51.338	55.20	124.21	17.0	72.3	60.27	2,115	8,980	3,857	1,354	575
WH		8	1	90	60	.143	.05	.14	5.8	28.5	.03	1	4	2	1	0
WH		9	11	86	92	1.571	.68	2.71	6.6	30.5	.57	18	83	36	11	5
WH		10	6	87	106	.857	.45	1.43	8.6	38.0	.39	12	54	25	8	3
WH		11	2	89	76	.286	.19	.57	7.5	28.5	.14	4	16	9	3	1
WH		12	5	86	96	.714	.56	1.57	11.7	43.2	.58	18	68	37	12	4
WH		13	4	88	99	.571	.53	1.43	13.1	46.6	.60	19	67	39	12	4
WH		14	3	88	94	2.812	3.01	5.77	17.5	59.1	3.22	101	341	206	64	22
WH		15	1	88	114	.143	.18	.43	16.6	63.3	.23	7	27	15	5	2
WH		18	1	90	114	.143	.26	.43	25.9	98.2	.35	11	42	23	7	3
WH		Totals	34	87	95	7.241	5.89	14.48	13.2	48.5	6.12	191	702	392	122	45
Totals			167	90	107	58.579	61.09	138.69	16.6	69.8	66.39	2,306	9,682	4,249	1,476	620

TC PLOGSTVC
Kyle Sullivan

Log Stock Table - CCF

T20S R04E S22 TyS1	38.40
T20S R04E S22 TyS2	25.60

Project: WALL
Acres 64.00

Date 3/11/2020
Time 1:03:29PM

Spp	ST	Sort	Grade	Log Len	Gross CCF	Def %	Net CCF	% 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	2M	40	385		386	28.5					48	182	95	61				
DF		DO	3M	20	3		3	.2			3									
DF		DO	3M	23	0		0	.0			0									
DF		DO	3M	25	6		6	.4			6									
DF		DO	3M	26	1		1	.0			1									
DF		DO	3M	28	5		5	.4			5									
DF		DO	3M	31	1		1	.1			1									
DF		DO	3M	32	7		7	.5			7									
DF		DO	3M	33	2		2	.1			2									
DF		DO	3M	34	10		10	.7			10									
DF		DO	3M	35	2		2	.2			2									
DF		DO	3M	36	10		10	.7			10									
DF		DO	3M	38	11		11	.8			11									
DF		DO	3M	39	1		1	.1			1									
DF		DO	3M	40	794		794	58.6			238	300	236	19						
DF		DO	4M																	
DF		DO	4M	4																
DF		DO	4M	5																
DF		DO	4M	7																
DF		DO	4M	8																
DF		DO	4M	9																
DF		DO	4M	10																
DF		DO	4M	11																
DF		DO	4M	12	2		2	.1			2									
DF		DO	4M	13	2		2	.1			2									
DF		DO	4M	14	3		3	.2			3									
DF		DO	4M	15	6		6	.4			6									
DF		DO	4M	16	8		8	.6			8									
DF		DO	4M	17	1		1	.1			1									
DF		DO	4M	18	5		5	.4			5									
DF		DO	4M	19	5		5	.3			5									
DF		DO	4M	20	6		6	.4			6									
DF		DO	4M	21	1		1	.1			1									
DF		DO	4M	22	2		2	.1			2									
DF		DO	4M	23	6		6	.4			6									
DF		DO	4M	24	2		2	.1			2									
DF		DO	4M	25	2		2	.2			2									
DF		DO	4M	26	11		11	.8			11									

TC PLOGSTVC
Kyle Sullivan

Log Stock Table - CCF

T20S R04E S22 TyS1 38.40
T20S R04E S22 TyS2 25.60

Project: WALL
Acres 64.00

Date 3/11/2020
Time 1:03:29PM

Spp	ST	Sort	Grade	Log Len	Gross CCF	Def %	Net CCF	% 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	27	2		2	.1			2									
DF		DO	4M	28	6		6	.5			6									
DF		DO	4M	29	2		2	.1			2									
DF		DO	4M	30	1		1	.1			1									
DF		DO	4M	31	3		3	.2			3									
DF		DO	4M	34	18		18	1.3			18									
DF		DO	4M	36	11		11	.8			11									
DF		DO	4M	38	9		9	.6			9									
DF		DO	4M	41	2		2	.1			2									
DF		Totals			1,353		1,354	91.7			412	300	284	201	95	61				
WH		DO	2M	40	5		5	4.0						5						
WH		DO	3M	19	0		0	.4			0									
WH		DO	3M	21	0		0	.4			0									
WH		DO	3M	28	1		1	.6			1									
WH		DO	3M	29	2	1.0	2	1.9			2									
WH		DO	3M	30	1		1	.8			1									
WH		DO	3M	31	1		1	.7			1									
WH		DO	3M	32	3		3	2.2			3									
WH		DO	3M	34	1	2.9	1	.7			1									
WH		DO	3M	36	1		1	.9			1									
WH		DO	3M	40	90		90	73.2			21	60	9							
WH		DO	4M																	
WH		DO	4M	6																
WH		DO	4M	8																
WH		DO	4M	12	0		0	.3			0									
WH		DO	4M	13	0		0	.2			0									
WH		DO	4M	14	1		1	.6				1								
WH		DO	4M	18	0		0	.3			0									
WH		DO	4M	21	0		0	.4			0									
WH		DO	4M	23	1		1	.5			1									
WH		DO	4M	25	13		13	11.0			13									
WH		DO	4M	26	1	3.6	1	.6			1									
WH		DO	4M	28	1		1	.6			1									
WH		Totals			122		122	8.3			48	60	9	5						
Total		All Species			1,476		1,476	100.0			460	361	293	206	95	61				

TIMBER SALE SUMMARY
Wall GNA
Contract No. SW-341-2020-GF9019-01

1. **Location:** Portions of Section 26, T20S, R4E, W.M., Lane County, Oregon.

2. **Type of Sale:** This timber sale has 2 Areas. Both Areas are a partial cut harvest. The timber will be sold on a recovery basis at a sealed bid auction.

3. **Sale Acreage:** Acreage was determined by traversing with a Trimble TDC 100 and ESRI ArcMap GIS software. Total sale acreage is 64 acres.

4. **Cruise**: The Timber Sale was cruised by ODF Cruisers in March of 2020. For more information see the Cruise Report.

5. **Timber Description:** The Timber Sale Area consists of stands ranging from 56 to 67 years old. The predominate tree species is Douglas-fir with a minor component of hemlock and red cedar. The average DBH for all species is 14" for take trees. The estimated net volume/ac. for all take species and trees is 9.5 MBF/Acre.

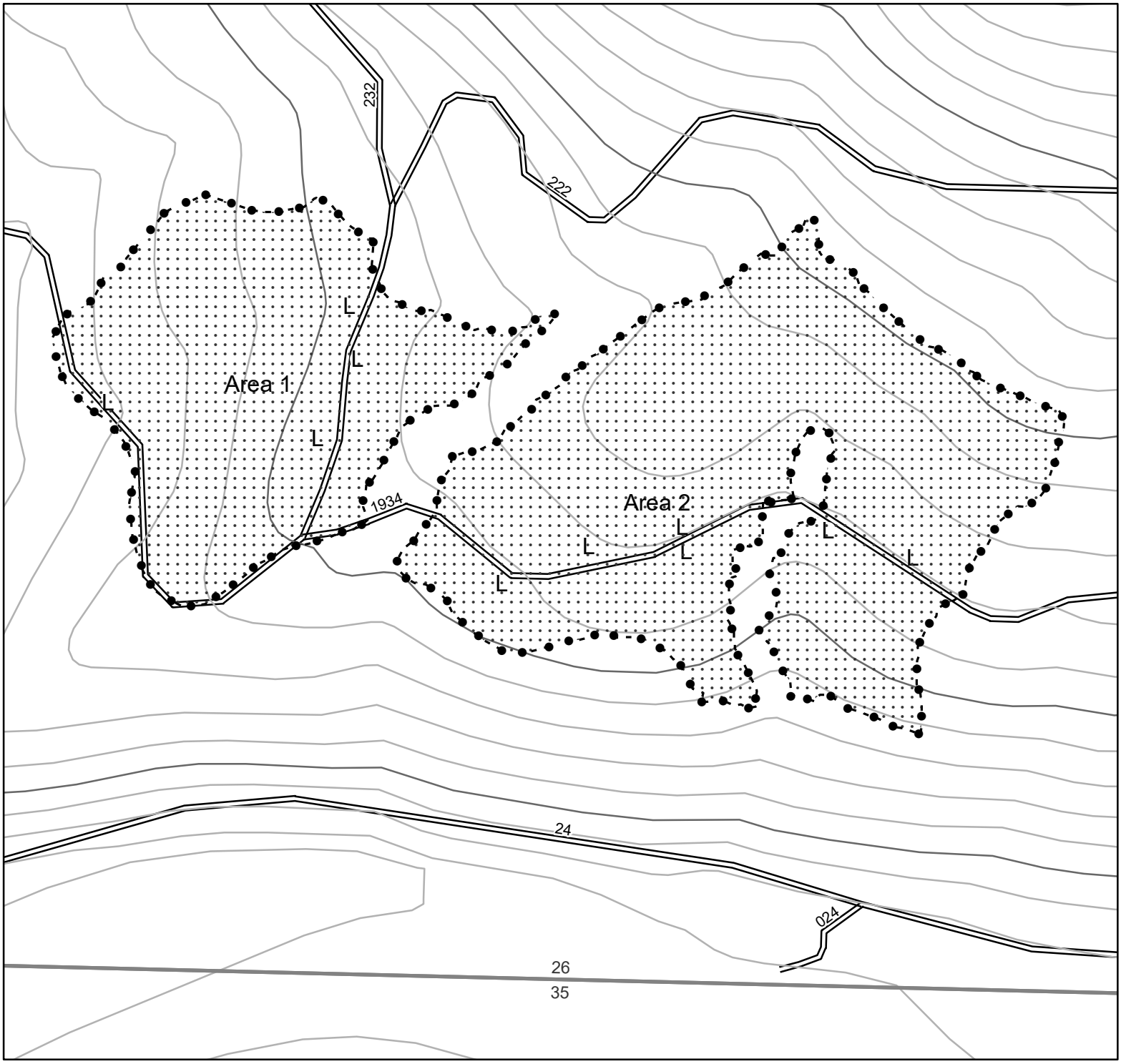
6. **Volume Summary:**

SPECIES	DBH	Grade			
		2S	3S	4S	Total
Douglas fir	14	174	353	47	574
Western hemlock	12.2	2	36	7	45
Total MBF of Take Trees:		**176**	**389**	**54**	**619**

Total harvest volume is estimated to be 619 ± 80.47 at a 68% confidence level and a sampling error of 13.2%. See attached SuperAce outputs: Project Statistics, Stand Table Summary, Log Stock Table, and Species, Sort, Grade Table for more cruise volume summary information.

7. **Topography and Logging Method:** The elevation for the Timber Sale ranges from 2,200 to 2,400 feet. Slopes within the sale areas range from 0-35%. The Timber Sale Area is 100% ground-based.

8. **Access:** The Timber Sale Area is located east of Oakridge, Oregon, within the Willamette National Forest on the Middle Fork Ranger District. Access to the Timber Sale Area is as follows: from the town of Oakridge, Oregon, continue on Hwy. 58 east for approximately 1.5 miles until you reach the Fish Hatchery Rd., turn left. Continue on Fish Hatchery Rd. for approximately 1.3 miles and take a right on Salmon Creek Rd. Continue on Salmon Creek Rd. for 8.2 miles until you reach NF-1934 or Blair Lake Rd., turn left. Drive approximately 0.5 miles on NF-1984 road to reach the western end of the Timber Sale Area.



Legend

- Timber Sale Boundary
- USFS System Road
- L Landing
- Ground Based

LOGGING PLAN

Sale No. SW-341-2020-GF9019-01

Wall GNA Timber Sale

Section 26, T20S, R4E W.M.

Lane County, Oregon

Regulated Use Area WL-2

Willamette National Forest

N

W E

S

Approximate Net Acres	
Area #	Acres
Area 1	24
Area 2	40

Contours = 40 ft.

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

0 1,000 2,000 3,000 Feet