



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Bits GNA  
Sale SW-341-2023-GF9219-01

District: S Cascade

Date: April 24, 2023

**Cost Summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$287,227.29	\$0.00	\$287,227.29
		<b>Project Work:</b>	(\$14,000.00)
		<b>Advertised Value:</b>	\$273,227.29



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Bits GNA Sale SW-341-2023-GF9219-01

District: S Cascade

Date: April 24, 2023

## Timber Description

Location: Springfield

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	98
Western Hemlock / Fir	12	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	39	948	987
Western Hemlock / Fir	22	512	534
<b>Total</b>	61	1,460	1,521

**Comments:**

**SOURCE OF POND VALUES**

Local Pond Values, February, 2023.

**PULP PRICE**

Pulp (Conifer and Hardwood) Price = \$42/Ton

**OTHER COSTS WITH PROFIT & RISK TO BE ADDED**

Tree marking in ground-based yarding areas: \$80/ac x 38 ac = \$3,040

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

New temporary road construction: \$15,000/mi x 0.08 mi= \$1,200

Existing temporary road construction: \$12,000/mi x 0.68 mi = \$8,160

Prior to wet weather season or heavy rain events, landings and temporary roads water barred: \$4,000 x 2 wet seasons = \$8,000

Temporary road subsoiled to depth of 20 inches, water bars installed, seeded, mulched and entrance blocked: \$5,000/mi x 0.76 mi = \$3,800

Landing subsoiled to depth of 20 inches, seeded, and application of mulch or weed-free straw: \$150 x 30 landings = \$4,500

Primary skid trail subsoiled to depth of 20 inches, water bars installed, seeded, mulched and entrance blocked = \$2,500

Seeding and application of weed-free straw of all disturbed sites with seed provided by STATE (disposal sites and other areas determined by STATE) = \$3,000

TOTAL Other Cost (with Profit & Risk to be added) = \$40,350

**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 temporary and system roads: \$1,000/mi x 3 mi = \$3,000

Pile landing slash: 30 Landings (30hrs @ \$100/hr) = \$3,000

Covering piles: (\$12/pile x 90 piles) + (\$22/hr x 2 covering personnel x 40 hours) = \$2,840

TOTAL Slash Disposal Costs = \$9,851

**ROAD MAINTENANCE COSTS**

TOTAL Road Maintenance: \$60,724.30/1,521 MBF = \$39.92/MBF

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

**ROAD RECONSTRUCTION PROJECT COSTS**

TOTAL Road Reconstruction Cost: \$14,000

See the attached 'Timber sale summary of reconstruction costs' for cost estimates of the work specified in Exhibit E.



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### Logging Conditions

**Combination#: 1**  
Douglas - Fir 64.00%  
Western Hemlock / Fir 64.00%

**Logging System:** Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimiting  
**yarding distance:** Short (400 ft) **downhill yarding:** No  
**tree size:** Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF  
**loads / day:** 7 **bd. ft / load:** 3800  
**cost / mbf:** \$274.43  
**machines:** Log Loader (A)  
Forwarder  
Harvester  
Tower Yarder (Medium)

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**Combination#: 2**  
Douglas - Fir 36.00%  
Western Hemlock / Fir 36.00%

**Logging System:** Shovel **Process:** Harvester Head Delimiting  
**yarding distance:** Short (400 ft) **downhill yarding:** No  
**tree size:** Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF  
**loads / day:** 13.5 **bd. ft / load:** 3800  
**cost / mbf:** \$146.20  
**machines:** Forwarder  
Harvester

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Bits GNA  
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**District: S Cascade**

**Date: April 24, 2023**

### Logging Costs

<b>Operating Seasons:</b> 2.00	<b>Profit Risk:</b> 15%
<b>Project Costs:</b> \$14,000.00	<b>Other Costs (P/R):</b> \$40,350.00
<b>Slash Disposal:</b> \$9,851.00	<b>Other Costs:</b> \$0.00

**Miles of Road**

**Road Maintenance:** \$39.92

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	3.8
Western Hemlock / Fir	\$0.00	3.0	3.8



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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>									
\$228.27	\$40.72	\$22.87	\$111.84	\$26.53	\$64.53	\$6.48	\$2.00	\$0.00	\$503.24
<b>Western Hemlock / Fir</b>									
\$228.27	\$40.72	\$22.87	\$111.84	\$26.53	\$64.53	\$6.48	\$2.00	\$0.00	\$503.24

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$784.29	\$281.05	\$0.00
Western Hemlock / Fir	\$0.00	\$521.65	\$18.41	\$0.00



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Date: April 24, 2023

### 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	987	\$281.05	\$277,396.35
Western Hemlock / Fir	534	\$18.41	\$9,830.94

**Gross Timber Sale Value**

Recovery: \$287,227.29

Prepared By: Kolton Vickers

Phone: 971-375-6232

Road Maintenance Appraisal

Bits GNA

Road Number	From	To	T-811 Blade Mile	T-813 Surface CY	T-831 Ditch Mtc. Mile	T-832 End Haul Mile	T-834 Drain Struct. Mile	T-836 Joint Use Mile	T-842 Cut Veg. Mile	T-854 Danger Trees Quantity	T-891 Water Mile
2022000	Hwy 20	2026000	7.1	35	7.1	7.1	7.1	7.1	7.1	5	7.1
2026000	2022000	End of Area 5	7.6	75	7.6	7.6	7.6	7.6	7.6	5	7.6
2026335	MP 0.0	MP 2.2	2.2	60	2.2	2.2	2.2	2.2	2.2	5	2.2
			Total	170	16.9	16.9	16.9	16.9	16.9	15	16.9
			Unit Cost	\$800/mile	\$32/CY	\$242/Mile	\$300/Mile	\$722/Mile	\$652/mile	\$140/tree	\$300/mile
			Total Cost	\$ 13,520.00	\$ 5,440.00	\$ 4,089.80	\$ 5,070.00	\$ 12,201.80	\$ 11,018.80	\$ 2,100.00	\$ 5,070.00

Total =           \$ 60,724.30  
Road Maintenance Cost/MBF           \$ 39.92



**TIMBER SALE SUMMARY**  
**Bits GNA**  
**Contract No. SW-341-2023-GF9219-01**

1. **Location:** Portions of Sections 7, 8, 16, 17 & 18, T15S, R4E, W.M., Linn County, Oregon.
2. **Type of Sale:** This timber sale has 12 Areas; 5 Areas of partial cut harvest (108 ac.) and 7 Areas of patch cut harvest (11 ac.). 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 119 acres.
4. **Cruise:** The Timber Sale was cruised by ODF Cruisers in May of 2020. For more information see the Cruise Report.
5. **Timber Description:** The Timber Sale Area consists of stands ranging from 42 to 57 years old. The predominate tree species is Douglas-fir with a moderate component of true firs (P. silver fir and noble fir). A minor component of western hemlock and Chinkapin are also present. The average DBH for all take trees is 12". The estimated net volume/ac. for all take trees is 13 MBF/Acre.

6. **Volume Summary:**

SPECIES	DBH	Grade			
		2S	3S	4S	Total
Douglas fir	12.7	39	783	165	987
P. silver fir	11.8	15	346	52	413
noble fir	10	7	61	15	83
W. hemlock	11.8		25	13	38
<b>Total MBF of Take Trees:</b>		<b>61</b>	<b>1,215</b>	<b>245</b>	<b>1,521</b>

Total harvest volume is estimated to be 1,521 MBF ± 103 at a 68% confidence level and a sampling error of 6.8%. 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 3,300 to 4,300 feet. Slopes within the sale areas range from 5-125%. The Timber Sale Area is 32% or 38 ac. ground-based, 53% or 63 ac. cable, and 15% or 18 ac. downhill cable logging.
8. **Access:** The Timber Sale Area is located northeast of Vida, Oregon, within the Willamette National Forest on the Sweet Home Ranger District. Access to the Timber Sale Area is as follows: from Springfield, OR head east on Hwy. 126 for approximately 20 miles until you reach Gate Creek Rd. in Vida, OR, turn left. Continue on Gate Creek Rd. (Giustina Mainline) for approximately 9 miles then turn right on the 3800 Rd. Continue for 3 miles until you reach the Calapooia mainline, turn right. Continue on the Calapooia Mainline for 1.5 miles then turn left on the 3970 Rd. After 1 mile, keep right to get on the NF-2026 Rd. After 5.5 miles on NF-2026, you will reach the western end of the Timber Sale Area.

9. **Projects:**

Road Reconstruction

\$14,000.00

**CRUISE REPORT**  
**Bits GNA**  
**Contract No. SW-341-2023-GF9219-01**

1. **Location:** Portions of Sections 7, 8, 16, 17 & 18, T15S, R4E, W.M., Linn County, Oregon.

2. **Cruise Design:**

A Coefficient of Variation of 90% and an average stand diameter of 10 inches (take trees) is estimated prior to cruising. For sales of this size and approximate value, ODF cruise standards require a sampling error of 13% at a 68% confidence level. The cruise design chosen for this sale is a count plot/measure plot variable plot cruise. The basal area factor (BAF) of 20 was used.

3. **Sampling Methods:**

Plots were laid out on a 225 ft. x 225 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 1:2 was used (count odd plots, measure even plots). The 'likely take' trees were cruised based on each Area's silviculture prescription.

4. **Cruise Report:**

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:**

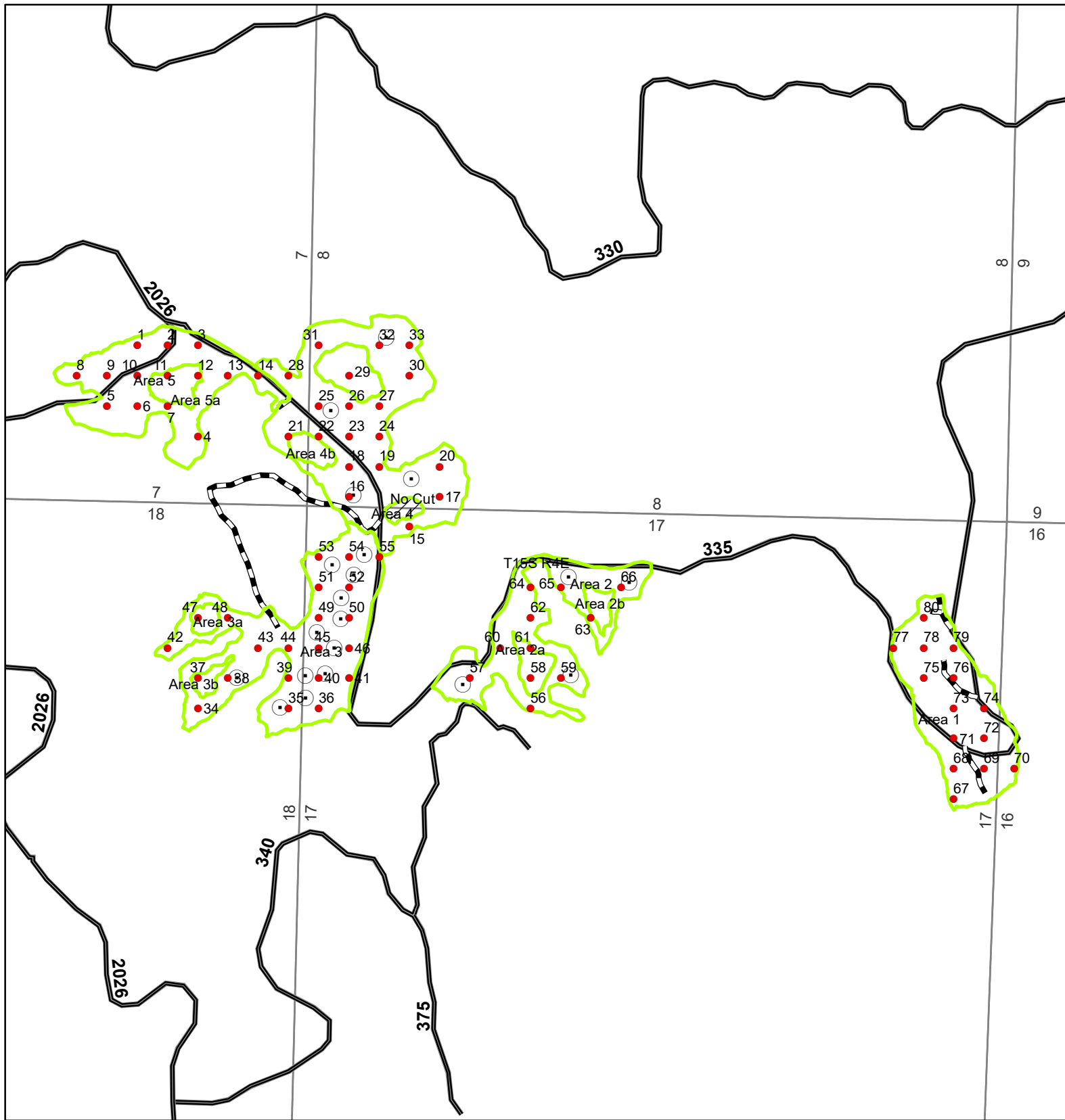
All grade plot sample trees were measured and graded following Columbia River Log Scale grade rules.

- 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. The 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 be 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 20 bf.
- f) **Field Procedures:** Mark plot center with blue pin flag with the 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 119 net acres.

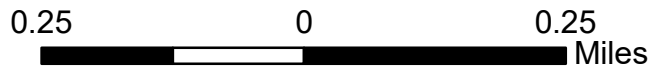
6. **Cruisers:** The sale was cruised by ODF cruisers Patten, Post, Heflin, Cline, and Sullivan.



**Bits GNA TS Cruise Map**  
**225' x 225' Spacing**  
**BAF: 20**

**Legend**

- Timber Sale Boundary
- Cruise Plot
- DTR
- Temporary Road
- USFS System Road



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

TC PSTATS		<b>PROJECT STATISTICS</b>							PAGE	<b>1</b>	
		<b>PROJECT</b>			<b>BITS</b>				DATE	6/5/2020	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
15S	04E	07	BITS	0001		119.00	80	433	S	W	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			80	433	5.4						
CRUISE			39	213	5.5	19,488	1.1				
DBH COUNT REFOREST											
COUNT			38	220	5.8						
BLANKS			3								
100 %											
<b>STAND SUMMARY</b>											
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	99.5	12.7	65	24.5	87.2	8,790	8,296	2,223	
PS FIR		63	47.4	11.8	66	10.5	36.0	3,674	3,464	967	
NOB FIR		11	10.0	11.6	59	2.2	7.3	755	705	191	
WHEMLOCK		6	6.9	11.8	57	1.5	5.2	344	321	113	
<b>TOTAL</b>		<i>213</i>	<i>163.8</i>	<i>12.3</i>	<i>64</i>	<i>38.7</i>	<i>135.8</i>	<i>13,562</i>	<i>12,787</i>	<i>3,494</i>	
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		
DOUG FIR		60.3	5.2	102	107	113					
PS FIR		65.7	8.3	86	94	101					
NOB FIR		62.5	19.8	74	92	111					
WHEMLOCK		28.2	12.6	44	51	57					
<b>TOTAL</b>		<i>62.6</i>	<i>4.3</i>	<i>97</i>	<i>101</i>	<i>105</i>	<i>157</i>	<i>39</i>	<i>17</i>		
CL	68.1	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		57.1	4.9	26	27	29					
PS FIR		61.4	7.7	23	25	27					
NOB FIR		65.8	20.8	19	24	29					
WHEMLOCK		38.2	17.0	15	18	21					
<b>TOTAL</b>		<i>58.8</i>	<i>4.0</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>138</i>	<i>34</i>	<i>15</i>		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		71.7	8.0	91	99	107					
PS FIR		159.7	17.8	39	47	56					
NOB FIR		387.0	43.2	6	10	14					
WHEMLOCK		372.6	41.6	4	7	10					
<b>TOTAL</b>		<i>54.9</i>	<i>6.1</i>	<i>154</i>	<i>164</i>	<i>174</i>	<i>120</i>	<i>30</i>	<i>13</i>		
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		72.4	8.1	80	87	94					
PS FIR		159.1	17.8	30	36	42					
NOB FIR		387.4	43.3	4	7	11					
WHEMLOCK		370.4	41.4	3	5	7					
<b>TOTAL</b>		<i>55.1</i>	<i>6.2</i>	<i>127</i>	<i>136</i>	<i>144</i>	<i>121</i>	<i>30</i>	<i>13</i>		
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		76.8	8.6	7,585	8,296	9,008					
PS FIR		163.9	18.3	2,830	3,464	4,099					
NOB FIR		390.7	43.6	398	705	1,013					
WHEMLOCK		373.8	41.8	187	321	455					

**PROJECT STATISTICS****PROJECT BITS**

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
15S	04E	07	BITS	0001	119.00	80	433	S	W
CL	68.1	COEFF	<b>NET BF/ACRE</b>			# OF PLOTS REQ.		INF. POP.	
SD:	1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
<b>TOTAL</b>		<i>61.2</i>	<i>6.8</i>	<i>11,913</i>	<i>12,787</i>	<i>13,662</i>	<i>150</i>	<i>37</i>	<i>17</i>
CL	68.1	COEFF	<b>NET CUFT FT/ACRE</b>			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR		76.4	8.5	1,932	2,112	2,292			
PS FIR		161.8	18.1	753	920	1,086			
NOB FIR		390.3	43.6	102	181	260			
WHEMLOCK		369.9	41.3	64	109	153			
<b>TOTAL</b>		<i>60.0</i>	<i>6.7</i>	<i>3,099</i>	<i>3,321</i>	<i>3,544</i>	<i>144</i>	<i>36</i>	<i>16</i>

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																
T15S R04E S07 Ty0001 119.00				Project: <b>BITS</b>										Page <b>1</b>						
				Acres <b>119.00</b>										Date <b>6/5/2020</b>						
														Time <b>7:47:08AM</b>						
Spp	So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre	
			Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
							4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
NF	DO 2M	8	14.5	69	59	7			100						40	12	171	1.12	.3	
NF	DO 3M	73	5.9	549	516	61	31	69							39	6	63	0.41	8.2	
NF	DO 4M	19	5.0	137	130	15	100			32	25	43		19	5	18	0.25	7.1		
<b>NF Totals</b>		6	6.6	755	705	84	41	51	8	6	5	8	82	30	6	45	0.38	15.6		
DF	DO 2M	4	5.0	349	331	39		53	47					40	12	186	1.11	1.8		
DF	DO 3M	79	5.5	6,960	6,579	783		96	4	0	3	5	92	38	8	82	0.55	80.0		
DF	DO 4M	17	6.4	1,481	1,386	165		100		36	46	12	5	14	6	16	0.30	88.8		
<b>DF Totals</b>		65	5.6	8,790	8,296	987		95	5	6	10	6	78	26	7	49	0.49	170.6		
WH	DO 3M	65	7.5	226	209	25		100						39	6	59	0.52	3.5		
WH	DO 4M	35	5.0	118	112	13		100			43	57		22	6	23	0.36	4.8		
<b>WH Totals</b>		3	6.6	344	321	38		100			15	20	65	29	6	38	0.45	8.4		
SF	DO 2M	3	5.0	132	125	15			100					40	13	231	1.33	.5		
SF	DO 3M	84	5.8	3,084	2,905	346	17	79	4		1	3	96	39	7	67	0.46	43.3		
SF	DO 4M	13	5.0	457	435	52	91	9		48	20	30	3	14	5	11	0.23	38.4		
<b>SF Totals</b>		27	5.7	3,674	3,464	412	25	67	7	6	3	6	85	27	6	42	0.41	82.2		
<b>Totals</b>			5.7	13,562	12,787	1,522	9	85	6	6	8	7	79	26	6	46	0.45	276.8		

TC		PSTNDSUM											Stand Table Summary			Page	1
													Date:	6/5/2020			
		T15S R04E S07 Ty0001		119.00		Project			BITS			Time:			7:47:09AM		
						Acres			119.00			Grown Year:					
S Spc	T	DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF		8	2	83	37	4.211	1.51	4.21	3.4	19.0	.44	14	80	52	17	10	
DF		9	5	87	62	8.160	3.38	9.72	5.6	25.4	1.64	55	247	195	65	29	
DF		10	15	88	63	18.040	10.11	26.34	7.5	32.0	5.93	196	843	706	234	100	
DF		11	9	88	56	9.044	5.95	12.89	8.2	32.2	3.15	105	415	375	125	49	
DF		12	17	90	63	14.032	10.92	25.51	8.6	32.5	6.51	219	828	774	260	99	
DF		13	19	89	76	13.544	12.45	24.87	11.7	42.8	8.73	291	1,064	1,039	347	127	
DF		14	16	88	79	10.235	10.77	20.47	13.4	48.4	8.26	275	990	983	328	118	
DF		15	15	90	83	7.890	9.64	16.79	16.2	63.7	8.18	272	1,069	973	324	127	
DF		16	8	90	92	3.684	5.10	7.37	21.7	89.0	4.80	160	656	571	190	78	
DF		17	17	90	87	7.106	10.92	14.65	21.9	90.7	9.63	321	1,328	1,146	382	158	
DF		18	5	88	92	1.887	3.30	4.49	23.1	87.9	3.12	104	395	372	124	47	
DF		19	4	90	88	1.335	2.56	2.67	29.6	113.3	2.37	79	303	282	94	36	
DF		20	1	90	90	.298	.63	.60	33.8	133.0	.60	20	79	72	24	9	
DF		Totals	133	89	70	99.465	87.24	170.57	12.4	48.6	63.37	2,112	8,296	7,541	2,513	987	
SF		8	3	88	61	4.642	1.76	4.64	7.8	31.8	1.08	36	148	128	43	18	
SF		9	4	89	50	5.421	2.31	6.80	5.8	26.5	1.20	40	180	142	47	21	
SF		10	4	88	69	4.093	2.36	6.03	9.1	30.3	1.63	55	183	194	65	22	
SF		11	13	89	68	11.490	7.55	22.03	7.7	27.7	5.07	169	611	604	201	73	
SF		12	11	89	69	8.230	6.37	14.89	10.2	36.3	4.56	152	540	543	181	64	
SF		13	7	89	80	4.370	3.99	9.31	11.8	46.1	3.32	110	429	395	131	51	
SF		14	5	90	76	2.701	2.79	5.40	14.4	52.9	2.37	78	286	282	93	34	
SF		15	7	91	81	3.222	3.89	6.44	18.1	71.6	3.52	117	461	419	139	55	
SF		16	4	89	90	1.620	2.27	3.24	22.3	86.6	2.19	72	281	260	86	33	
SF		17	2	91	83	.715	1.09	1.43	24.1	88.0	1.04	34	126	123	41	15	
SF		18	1	91	92	.315	.54	.63	30.0	109.2	.57	19	69	68	22	8	
SF		19	1	93	107	.259	.52	.78	26.4	114.0	.62	21	89	74	24	11	
SF		20	1	87	78	.284	.59	.57	31.4	109.3	.54	18	62	64	21	7	
SF		Totals	63	89	69	47.360	36.03	82.20	11.2	42.1	27.70	920	3,464	3,296	1,094	412	
NF		9	2	89	69	3.122	1.35	3.12	8.4	33.5	.66	26	104	78	31	12	
NF		10	2	90	60	2.525	1.33	3.71	7.0	25.9	.66	26	96	78	31	11	
NF		11	1	91	90	.959	.64	1.92	9.6	42.7	.47	18	82	56	22	10	
NF		13	2	90	73	1.391	1.33	2.78	11.5	42.6	.81	32	119	96	38	14	
NF		14	1	89	88	.635	.69	1.27	16.4	71.3	.53	21	90	63	25	11	
NF		15	2	89	80	1.067	1.36	2.13	17.3	66.4	.94	37	142	111	44	17	
NF		18	1	93	92	.345	.63	.69	30.0	104.5	.53	21	72	62	25	9	
NF		Totals	11	90	72	10.045	7.34	15.63	11.6	45.1	4.57	181	705	544	216	84	
WH		10	1	82	59	1.697	.91	1.70	10.9	38.0	.62	19	64	74	22	8	
WH		11	1	78	48	1.676	1.03	1.68	11.4	28.5	.62	19	48	74	23	6	
WH		12	1	88	63	1.039	.79	1.04	16.1	57.0	.57	17	59	68	20	7	
WH		13	2	85	60	1.892	1.71	2.76	13.5	42.1	1.24	37	116	148	44	14	
WH		16	1	89	56	.589	.77	1.18	14.3	28.5	.56	17	34	67	20	4	
WH		Totals	6	83	57	6.893	5.21	8.35	13.0	38.5	3.62	109	321	430	129	38	
Totals			213	89	69	163.762	135.82	276.75	12.0	46.2	99.25	3,321	12,787	11,811	3,952	1,522	







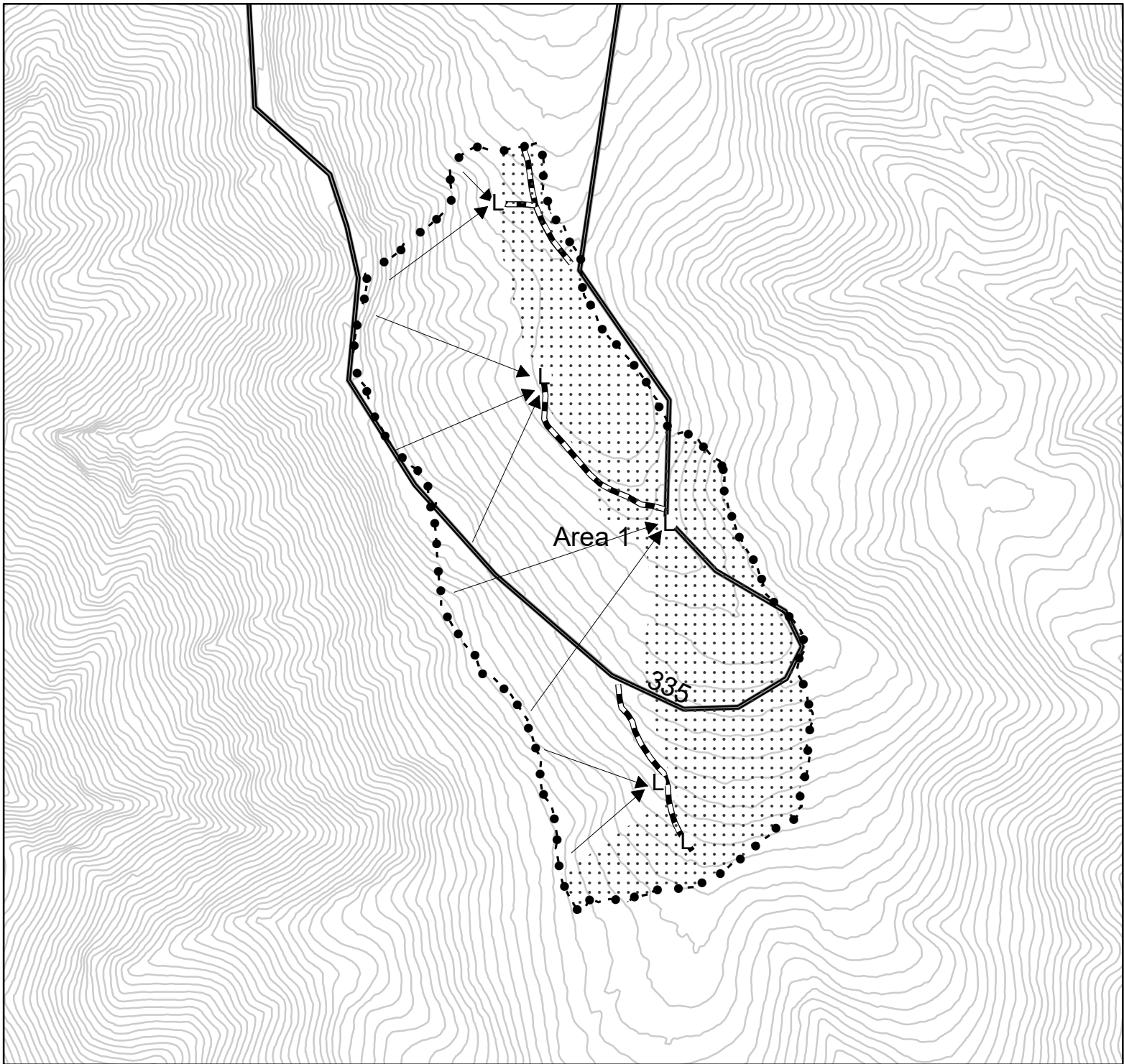
**Log Stock Table - MBF**

T15S R04E S07 Ty0001 119.00

**Project: BITS**  
**Acres 119.00**

**Page 3**  
**Date 6/5/2020**  
**Time 7:47:08AM**

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+		
SF		DO	4M	23	1	5.0	1	.2		1												
SF		DO	4M	24	1	5.0	1	.2		1												
SF		DO	4M	26	2	5.0	2	.4			2											
SF		DO	4M	27	2	5.0	2	.4		2												
SF		DO	4M	28	1	5.0	1	.3		1												
SF		DO	4M	32	11	5.0	10	2.5		10												
SF		DO	4M	34	4	5.0	4	.9		4												
SF		DO	4M	35	1	5.0	1	.3		1												
SF		DO	4M	38	2	5.0	1	.4		1												
SF		Totals			437	5.7	412	27.1		105	137	99	42	20	8							
Total		All Species			1,614	5.7	1,522	100.0		139	652	351	292	78	8							



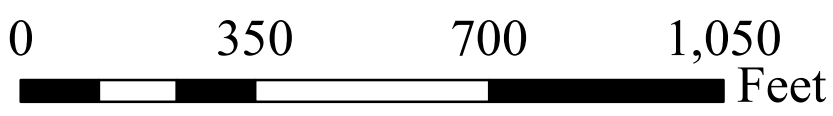
- Legend**
- Timber Sale Boundary
  - No Cut
  - Ground Based
  - Cable Corridor
  - Landing
  - DTR
  - Temporary Road
  - USFS System Road

**10 ft. Contour Lines**

**LOGGING PLAN**  
 Sale No. SW-341-2023-GF9219-01  
 Bits GNA Timber Sale  
 Sections 7, 8, 16, 17 & 18, T15S, R4E, W.M.  
 Linn County, Oregon  
 Regulated Use Area LN-1  
 Willamette National Forest



Approximate Net Acres	
Area	Acres
Area 1	19
Area 2	16
Area 2a	2
Area 2b	1
Area 3	26
Area 3a	1
Area 3b	1
Area 4	30
Area 4a	3
Area 4b	1
Area 5	17
Area 5a	2
<b>Total</b>	<b>119</b>





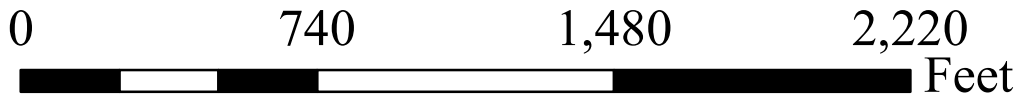
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<b>Total</b>	<b>119</b>





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