



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Sick Kid-GNA  
Sale KL-341-2020-GF8217-01

District: Klamath/Lake

Date: January 10, 2020

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$379,028.58	\$0.00	\$379,028.58
		Project Work:	(\$175,274.19)
		Advertised Value:	\$203,754.39



# Timber Sale Appraisal Sick Kid-GNA Sale KL-341-2020-GF8217-01

**District: Klamath/Lake**

**Date: January 10, 2020**

## Timber Description

**Location:** Portions of Sections 18 and 19, Township 35 South, Range 8 East, Portions of Sections 11, 12, 13, 14, and 24, Township 35 South, Range 7 East, Willamette Meridan, Klamath County, Oregon

**Stand Stocking:** 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	19	0	95
White Fir	18	0	95
Ponderosa Pine	15	0	95

Volume by Grade	2S	3S & 4S 6"-11"	3S 12"+	6" - 11"	12"-15"	16"+	Total
Douglas - Fir	178	212	0	0	0	0	390
White Fir	397	240	48	0	0	0	685
Ponderosa Pine	0	0	0	2,172	677	65	2,914
<b>Total</b>	575	452	48	2,172	677	65	3,989

**Comments:** Pond Values Used: Local Pond Values, December 2019.

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk): None

Other Costs (with Profit & Risk to be added): None

### ROAD MAINTENANCE

Move-in: \$400.00

General Road Maintenance: 8.5 miles x \$211.00 per mile x 2 bladings = \$3,587.00

Total Road Maintenance: \$3,987.00, \$1.00 per Mbf



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**Logging Conditions**

**Combination#: 1**

Douglas - Fir	70.00%
White Fir	62.00%
Ponderosa Pine	77.00%

**Logging System:** Wheel Skidder **Process:** Feller Buncher  
**yarding distance:** Medium (800 ft) **downhill yarding:** Yes  
**tree size:** Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF  
**loads / day:** 10 **bd. ft / load:** 4000  
**cost / mbf:** \$94.92  
**machines:** Log Loader (B)  
Stroke Delimber (B)  
Feller Buncher w/ Delimber  
Tire Skidder

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**Combination#: 2**

Douglas - Fir	30.00%
White Fir	38.00%
Ponderosa Pine	23.00%

**Logging System:** Track Skidder **Process:** Manual Falling/Delimbing  
**yarding distance:** Medium (800 ft) **downhill yarding:** Yes  
**tree size:** Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF  
**loads / day:** 10 **bd. ft / load:** 4100  
**cost / mbf:** \$107.58  
**machines:** Log Loader (B)  
Track Skidder

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### Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$175,274.19	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$1.00

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	4.0
White Fir	\$0.00	3.0	4.0
Ponderosa Pine	\$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>									
\$98.72	\$1.05	\$1.10	\$124.69	\$0.00	\$22.56	\$0.00	\$2.00	\$0.00	\$250.12
<b>White Fir</b>									
\$99.73	\$1.05	\$1.10	\$83.13	\$0.00	\$18.50	\$0.00	\$2.00	\$0.00	\$205.51
<b>Ponderosa Pine</b>									
\$97.83	\$1.05	\$1.10	\$87.50	\$0.00	\$18.75	\$0.00	\$2.00	\$0.00	\$208.23

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$503.11	\$252.99	\$0.00
White Fir	\$0.00	\$378.19	\$172.68	\$0.00
Ponderosa Pine	\$0.00	\$263.85	\$55.62	\$0.00



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**Summary**

**Amortized**

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
White Fir	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	390	\$252.99	\$98,666.10
White Fir	685	\$172.68	\$118,285.80
Ponderosa Pine	2,914	\$55.62	\$162,076.68

**Gross Timber Sale Value**

**Recovery:** \$379,028.58

**Prepared By:** Chris Weekly

**Phone:** 541-883-5681

Sick Kid - GNA  
KL-341-2020-GF8217-01

*Other Costs*

*Road Maintenance*

Move-in cost (grader):	\$400.00
Number of Miles to be Bladed:	8.5
Number of Bladings:	2
Total Miles:	17
Miles/Hour for Equipment:	0.5
Cost/Hour (grader with operator):	\$105.50
Total Grading Hours:	34
Grading Cost:	\$3,587.00
<b>Total Cost:</b>	<b>\$3,987.00</b>
Cost/Mbf:	\$1.00

Sick Kid - GNA  
KL-341-2020-GFXXXX-01

*Project Costs*

*Project #1 Dust Abatement (Profit & Risk to be added in Appraisal)*

PP	2914 Mbf	73%	Average Load	3.8 Mbf	No. of Loads	767
WF	685 Mbf	17%	Average Load	4.0 Mbf	No. of Loads	171
DF	390 Mbf	10%	Average Load	4.0 Mbf	No. of Loads	98
<b>Total:</b>	<b>3989 Mbf</b>				<b>Total Loads</b>	<b>1036</b>

Assume:	4 Trucks/Day	86 Days of Dust Abatement
	3 Trips/Day	3 Hours/Day
	<u>12 Loads per Day</u>	259 Total Hours
	<b>86 Hauling Days</b>	\$88.00 Cost/Hour
		\$200.00 Move in for Water Truck
		\$9.00 per 1000 gallons
		9,000 <b>gallons per day</b>
		\$81.00 Daily Water Cost
		<u>\$29,973.27</u> Dust Abatement Cost
		\$7.51 Cost/Mbf



# Sick Kid - GNA

## KL-341-2020-GF8217-01

### *Project Costs*

*Project #2 Road Improvement and Construction*

#### Improvement

**Move in Cost Dozer:     \$500**

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	X to V	3421	1000	3.42	\$132.50	\$453.28
Open/Clear/Shape	II to JJ	4269	1000	4.27	\$132.50	\$565.64
Open/Clear/Shape	MM to NN	4168	1000	4.17	\$132.50	\$552.26
Open/Clear/Shape	KK to LL	1765	1000	1.77	\$132.50	\$233.86
Open/Clear/Shape	G to C	2048	1000	2.05	\$132.50	\$271.36
Open/Clear/Shape	A to B	269	1000	0.27	\$132.50	\$35.64
Open/Clear/Shape	Z to AA	2942	1000	2.94	\$132.50	\$389.82
Open/Clear/Shape	Z to T	3410	1000	3.41	\$133.50	\$455.24
Open/Clear/Shape	CC to BB	1834	1000	1.83	\$132.50	\$243.01
<b>Total Open/Clear /Shape</b>						<b>\$3,200.11</b>

#### Roadside Brush Plucking

**Move in Cost Excavator:     \$500.00**

Pluck and Pile Encroaching Brush

	Hours	Cost/Hour	Cost
Excavator	10	\$132.50	\$1,325.00

#### Improve stream crossing at Point F Restore at Conclusion of Log Hauling

Delivery 20 yards of fill:     \$420.00

Spreading Fill

	Hours	Cost/Hour	Cost
Dozer	3	\$132.50	\$397.50

Removing Fill and Restorting Channel

	Hours	Cost/Hour	Cost
Excavator	4	\$132.50	\$530.00
Dozer	4	\$132.50	\$530.00
<b>Total</b>			<b>\$1,060.00</b>

# Sick Kid - GNA

## KL-341-2020-GF8217-01

### *Project Costs*

#### *Project #2 Road Improvement and Construction*

#### Construction

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Construct Spur	FF to HH	1342	750	1.79	\$132.50	\$237.09
Construct Spur	N to O	1141	750	1.52	\$132.50	\$201.58
Construct Spur	B to D	1077	750	1.44	\$132.50	\$190.27
Construct Spur	P to Q	1004	750	1.34	\$132.50	\$177.37
Construct Spur	G to H	791	750	1.05	\$132.50	\$139.74
Construct Spur	D to E	780	750	1.04	\$132.50	\$137.80
Construct Spur	V to W	767	750	1.02	\$132.50	\$135.50
Construct Spur	I to J	729	750	0.97	\$132.50	\$128.79
Construct Spur	R to S	613	750	0.82	\$132.50	\$108.30
Construct Spur	K to L	566	750	0.75	\$132.50	\$99.99
Construct Spur	T to U	330	750	0.44	\$132.50	\$58.30
Construct Spur	DD to EE	233	750	0.31	\$132.50	\$41.16
Construct Spur	FF to GG	175	750	0.23	\$132.50	\$30.92
Construct Landing	A			0.5	\$132.50	\$66.25
Construct Landing	M			0.5	\$132.50	\$66.25
<b>Total Construction</b>						<b>\$1,819.31</b>

#### *Project #2 Summary*

Move In Costs	\$1,000.00
Improvement Cost	\$5,982.61
Construction Cost	\$1,819.31
<b>Project # 2 Total</b>	<b>\$8,801.92</b>
per Mbf	\$2.21

Sick Kid - GNA  
KL-341-2020-GF8217-01  
*Project Costs*

*Project #3 Fell, Skid, and Pile Submerchantable Material*

Total Sub-Sawlog Volume: 430 MBF

Fell and Skid/MBF:	\$50.00
Sort/MBF:	\$10.00
<b>Total</b>	<b>\$25,800.00</b>
per MBF	\$6.47

*Landing Slash Piling*

Number of Landings: 56

Shovel Time:	1 Hour per Landing	Cost per Hour:	\$125.00	Total Cost	\$7,000.00
Cat Time:	1 Hour per Landing	Cost per Hour:	\$132.50	Total Cost	\$7,420.00
		<b>Total</b>	<b>\$14,420.00</b>		
		per MBF	\$3.61		

*Unit Slash Piling*

Acres to be Piled	50
Hours per Acre	2
Cost per Hour	\$85.00
Cost of Piling	\$8,500.00
<b>Total Cost</b>	<b>\$8,500.00</b>
per Mbf	\$2.13

*Project #3 Summary*

Fell, Skid, Pile Submerchantable Material	\$25,800.00
Landing Slash Piling	\$14,420.00
Unit Piling	\$8,500.00
<b>Total Cost</b>	<b>\$48,720.00</b>
per Mbf	\$12.21

# Sick Kid - GNA

## KL-341-2020-GF8217-01

### Project Costs

#### Project #4 Spot Rocking

#### Spot Rocking - Delivered

<b>3/4 -</b>	<b>Rock Size</b>
1985	Cubic Yards
1.5	Tons per Cubic Yard
2977.5	Tons
\$14.00	cost per ton (delivered)
<b>\$41,685.00</b>	<b>Total</b>
\$10.45	per MBF

#### Rock Spreading (Grader)

80	Total Grader Hours
\$105.50	Cost per Hour
<u>\$8,440.00</u>	Total
80	Total Water Truck Hours
\$88.00	Cost per Hour
<u>\$7,040.00</u>	Total
<b>\$15,480.00</b>	<b>Total Rock Spreading</b>
<u>\$3.88</u>	per MBF

#### Project #4 Summary

Total cost Rock	\$41,685.00
Total cost Spreading	\$15,480.00
<b>Total</b>	<b>\$57,165.00</b>
per MBF	\$14.33

Sick Kid - GNA  
KL-341-2020-GF8217-01  
*Project Costs*

*Project #5 Road Closures and Waterbarring*

*Road Closures*

12	Number of Closure Points - Point G, X, K, Z, BB, DD, FF (2), II, MM, T, A
<u>\$132.50</u>	Cost per Hour (Cat)
<b><u>\$1,590.00</u></b>	<b>Total</b>
\$0.39	per Mbf

*Skid Trail Waterbarring*

56	Number of Landings
2	Hours per Landing
<u>\$132.50</u>	Cost per Hour (Cat)
<b><u>\$14,840.00</u></b>	<b>Total</b>
\$3.72	per Mbf

*Project #5 Summary*

Road Closure:	\$1,590.00
Waterbarring:	<u>\$14,840.00</u>
<b>Total:</b>	<b><u>\$16,430.00</u></b>
per Mbf:	\$4.12

*Project #6 Fungicide Treatment*

**State to Provide Chemical Supplies**

Acres to be treated:	985
Cutting Days (assume 5 acres per day):	197
Hours per Day:	3
Cost per Hour:	<u>\$24.00</u>
<b>Total Cost:</b>	<b><u>\$14,184.00</u></b>
Cost per Mbf:	\$3.56

Sick Kid - GNA  
KL-341-2020-GF8217-01

*Project Costs*

*Cost Summary All Projects*

Project No.1 - Dust Abatement	\$29,973.27
Project No.2 - Road Improvement and Construction	\$8,801.92
Project No.3 - Fell, Skid, and Pile Submerchantable Material	\$48,720.00
Project No. 4 Spot Rocking	\$57,165.00
Project No.5 - Road Closures and Waterbarring	\$16,430.00
Project No. 6 - Fungicide Treatment	\$14,184.00
<b>Total Cost</b>	<b>\$175,274.19</b>
per Mbf	\$43.94

# ***Sick Kid – GNA***

## ***KL-341-2020-GF8217-01***

### ***Cruise Report***



**SALE NAME:** Sick Kid – GNA

**LEGAL DESCRIPTION:**

Township 35S, Range 8E, Portions of Sections 18 and 19, Township 35S, Range 7E, Portions of Sections 11, 12, 13, 14, and 24, Willamette Meridian, Klamath County, Oregon.

**BOUNDARY LINES:**

Unit boundaries are posted with “Timber Sale Boundary” signs, marked with fluorescent orange paint and fluorescent orange flagging. Boundaries following roads may not be marked.

**ACREAGE:**

Gross Sale Acreage:	1,120 Acres
Exclusion Acreage	135 Acres
Net Sale Acreage:	985 Acres

Mapping was accomplished using a handheld Global Positioning System unit with the data run on the district Geographical Information System Program.

**TREATMENT:**

The Timber Sale is a purchaser select, partial cut harvest.

**CRUISE METHOD:**

Variable plot cruise with a ratio of a count plot for every measure plot. Fixed plot cruise for all sub-merchantable material (5.0” to 10.0”) DBH for all Areas.

**BASAL AREA FACTOR:**

Area	BAF	Type Acreage
Areas 1 and 2	13.61 BAF	985

**PLOT DESIGNATION:**

Plot centers were established at every plot with blue flag wire stakes with the corresponding plot number. Blue flagging was attached to the nearest available tree branch.

**SAMPLE SIZE CALCULATIONS:**

AREA	CV%	DESIRED SE%	ACRES
Area 1	100%	12%	985

$$\text{Number of Plots} = \frac{T^2 C^2}{A^2}$$

C = Coefficient of Variation in Percent (Taken from inventory data)

T = Number of Standard Errors

A = Desired Sampling Error for a sale of this size and value

$$N = \frac{(1)^2(100)^2}{(12)^2} = 69 \text{ plots}$$

**Measurements and Grading:**

- Ratio of a count plot for every measure plot.
- DBH and Height were measured on all “in” trees for measure plots.
- Pulp volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.
- Separate fixed plot cruise for all submerchantable material (5”to 10” DBH).

**TREE HEIGHT:**

All trees were measured to a fixed diameter outside bark. This height is usually taken as high up the bole as possible, where the cruiser can clearly see the bole, and the taper remains constant (usually 6 or 8 inches). The log segments are broken out and graded accordingly.



**MINIMUM D.B.H:**

10.0" DBH for sawlog volume. 5.0" DBH for submerchantable material.

**DIAMETER STANDARDS:**

1" diameter class

**BTR:**

Standard ratios were used. See attached species tables.

**FORM FACTOR:**

Form factor was measured or estimated at 16' for each tree. Each tree was assigned its own FF.

**FORM POINT:**

All trees were sighted at DBH.

**VOLUME COMPUTATION:**

All cruise data was input and run at the district on Atterbury's Super Ace program.

**FINAL CRUISE RESULTS:**

AREA	CV%	SE%	ACRES
Area 1	75	8.1	985

## **TIMBER DESCRIPTION**

### **SAWLOG VOLUME:**

This volume was obtained from the variable plot cruise. All material graded camprun. See grade table for minimum standards.

### **TOTAL SAWLOG VOLUME**

Species	Ave. DBH	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
Ponderosa pine	15.0	2,998	2,958	2,914
White fir	18.0	708	695	685
Douglas-fir	19.0	397	396	390
	<b>Total</b>	4,103	4,049	3,988

**TOTAL NET SAWLOG VOLUME: 3,988 MBF**

### **GREEN PULP VOLUME:**

This volume was obtained by combining material from the fixed plot cruise (5.0" – 9.0" DBH) with material from the variable plot cruise.

All material was graded green pulp, see grade table for minimum standards.

### **FIXED PLOT CRUISE**

Species	Vol/Acre (bf)	Sale Vol (Mbf)
Ponderosa Pine	99	98
White fir	35	34
Western Juniper	17	17
<b>Total</b>	151	149

### VARIABLE PLOT CRUISE

Species	Vol/Acre (bf)	Sale Vol (Mbf)
Ponderosa pine	139	137
Western juniper	5	5
<b>Total</b>	141	281

**TOTAL GREEN PULP VOLUME: 430 Mbf**

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	SICKKID	DATE				8/19/2019
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
035	007	13	368	FIXD	985.00	86	28	1	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL			86	28	.3					
CRUISE			4	5	1.3	14,890	.0			
DBH COUNT			7	16	2.3					
REFOREST										
COUNT										
BLANKS			74							
100 %										
STAND SUMMARY										
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC
P PINE			1	9.9	6.5	24	0.9	2.3	99	99
WHITE F			2	3.5	7.5	24	0.4	1.1	35	35
OTH CON			2	1.7	6.7	18	0.2	.4	17	17
TOTAL			5	15.1	6.8	23	1.4	3.8	151	151
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.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	0			
P PINE										
WHITE F					10	10	10			
OTH CON					10	10	10			
TOTAL					10	10	10			
CL:	68.1 %	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	0			
P PINE										
WHITE F			20.2	18.9	3	4	4			
OTH CON			28.3	26.5	2	3	3			
TOTAL			23.6	11.7	3	3	3	27	7	3
CL:	68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE			370.7	39.9	6	10	14			
WHITE F			529.1	57.0	1	3	5			
OTH CON			529.1	57.0	1	2	3			
TOTAL			268.8	29.0	11	15	19	2,885	721	321
CL:	68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE			370.7	39.9	1	2	3			
WHITE F			529.1	57.0	0	1	2			
OTH CON			548.0	59.0	0	0	1			
TOTAL			266.3	28.7	3	4	5	2,831	708	315
CL:	68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE			370.7	39.9	59	99	138			
WHITE F			529.1	57.0	15	35	55			
OTH CON			529.1	57.0	7	17	27			
TOTAL			268.8	29.0	107	151	195	2,885	721	321
CL:	68.1 %	COEFF	NET CUFT FT/ACRE					# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE			370.7	39.9	18	30	41			
WHITE F			529.1	57.0	5	12	19			
OTH CON			536.3	57.8	2	4	7			

TC TSTATS				<b>STATISTICS</b> <b>PROJECT      SICKKID</b>				PAGE      2 DATE      8/19/2019		
<b>TWP</b>	<b>RGE</b>	<b>SECT</b>	<b>TRACT</b>	<b>TYPE</b>	<b>ACRES</b>	<b>PLOTS</b>	<b>TREES</b>	<b>CuFt</b>	<b>BdFt</b>	
<b>035</b>	<b>007</b>	<b>13</b>	<b>368</b>	<b>FIXD</b>	985.00	86	28	1	E	
CL:	68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
<b>TOTAL</b>		271.1	29.2	33	46	60	2,934	734	326	

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page		1																							
				Project: SICKKID										Date		8/19/2019																							
														Time		10:50:56AM																							
T035 R007 S13 TVARI														T035 R007 S13 TVARI																									
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt																					
035		007		13		368		VARI		985.00		85		91		1		E																					
S So Gr T rt ad Spp				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre																		
									Log Scale Dia.				Log Length				Ln Dia Bd CF/ Ft In Ft Lf																						
PP		CR		CR		95		1.3		2,998		2,958		2,914		74		23		2		22		30		48		25		9		82		0.81		35.9			
PP		CR		GP		5				139		139		137		21		57		22				100				13		5		13		0.27		10.3			
PP		Totals				74		1.3		3,136		3,097		3,051		1		74		23		2		25		29		46		22		8		67		0.73		46.2	
WF		CR		CR		100		1.8		708		695		685		35		49		16				11		13		76		26		10		136		1.18		5.1	
WF		Totals				17		1.8		708		695		685		35		49		16				11		13		76		26		10		136		1.18		5.1	
DF		CR		CR		100		.4		397		396		390		54		46						5		7		88		29		10		139		1.02		2.8	
DF		Totals				9		.4		397		396		390		54		46						5		7		88		29		10		139		1.02		2.8	
OC		CR		GP		100				5		5		5		100								100				12		6		15		0.46		.4			
OC		Totals				0				5		5		5		100								100				12		6		15		0.46		.4			
Type Totals								1.3		4,247		4,193		4,131		1		65		30		4		21		24		55		23		8		77		0.80		54.5	

TC TSTATS				STATISTICS				PAGE	1			
				PROJECT	SICKKID					DATE	8/19/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
035	007	13	368	VARI	985.00	85	308	1	E			
				TREES	ESTIMATED	PERCENT						
				PER PLOT	TOTAL	SAMPLE						
					TREES	TREES						
TOTAL			85	308	3.6							
CRUISE			23	90	3.9	37,217	.2					
DBH COUNT												
REFOREST												
COUNT			49	216	4.4							
BLANKS			13									
100 %												
STAND SUMMARY												
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
P PINE			63	32.5	15.0	39	10.3	39.9	3,136	3,097	756	756
WHITE F			19	3.7	17.6	43	1.5	6.2	708	695	159	159
DOUG-FIR			7	1.4	18.7	61	0.6	2.7	397	396	84	84
OTH CON			1	.2	12.8	26	0.0	.2	5	5	2	2
TOTAL			90	37.8	15.4	40	12.5	49.0	4,247	4,193	1,001	1,001
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		
P PINE			81.3	10.2	116	130	143					
WHITE F			65.1	15.3	231	273	314					
DOUG-FIR			36.5	14.8	260	306	351					
OTH CON												
TOTAL			82.1	8.6	157	172	187	269	67	30		
CL:	68.1 %	COEFF		SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
P PINE			65.0	8.2	28	31	33					
WHITE F			56.5	13.3	53	61	69					
DOUG-FIR			33.5	13.6	56	65	74					
OTH CON												
TOTAL			70.2	7.4	37	40	42	197	49	22		
CL:	68.1 %	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
P PINE			100.2	10.9	29	32	36					
WHITE F			242.1	26.2	3	4	5					
DOUG-FIR			316.0	34.2	1	1	2					
OTH CON			922.0	99.9	0	0	0					
TOTAL			83.7	9.1	34	38	41	280	70	31		
CL:	68.1 %	COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
P PINE			93.3	10.1	36	40	44					
WHITE F			216.8	23.5	5	6	8					
DOUG-FIR			306.7	33.2	2	3	4					
OTH CON			922.0	99.9	0	0	0					
TOTAL			74.3	8.0	45	49	53	220	55	24		
CL:	68.1 %	COEFF		NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
P PINE			93.4	10.1	2,784	3,097	3,411					
WHITE F			220.2	23.9	529	695	861					
DOUG-FIR			306.9	33.3	264	396	527					
OTH CON			922.0	99.9	0	5	11					
TOTAL			74.6	8.1	3,854	4,193	4,533	222	56	25		

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT		SICKKID		DATE	8/19/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
035	007	13	368	VARI	985.00	85	308	1	E	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE		93.3	10.1	679	756	832				
WHITE F		217.2	23.5	122	159	197				
DOUG-FIR		307.0	33.3	56	84	112				
OTH CON		922.0	99.9	0	2	4				
TOTAL		74.0	8.0	921	1,001	1,082	219	55	24	



TC TLOGSTVB				Log Stock Table - MBF Project: SICKKID																		
T035 R007 S13 TVARI												T035 R007 S13 TVARI										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1													
035	007	13	368	VARI	985.00	85	91	Date	8/20/2019													
												Time	9:09:26AM									
S Spp	So T	Gr rt	Log de 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+			
PP	CR	CR	12	31		31	1.0							31								
PP	CR	CR	13	57		57	1.9						57									
PP	CR	CR	17	564	3.1	547	17.9			98	285	43	121									
PP	CR	CR	22	50		50	1.6							50								
PP	CR	CR	26	65		65	2.1									65						
PP	CR	CR	27	761		761	25.0			12	242	223	283									
PP	CR	CR	34	1,424	1.5	1,402	46.0			243	437	587	73	62								
PP	CR	GP	12	26		26	.8			26												
PP	CR	GP	13	58		58	1.9			28			31									
PP	CR	GP	14	36		36	1.2	12		24												
PP	CR	GP	16	17		17	.6	17														
PP	Totals			3,089	1.3	3,051	73.9	29		430	964	854	566	143		65						
WF	CR	CR	17	76		76	11.2			36	7	9				24						
WF	CR	CR	27	90	4.3	86	12.5			28	9	25	23									
WF	CR	CR	34	531	1.6	523	76.3			13	17	96	166	104	127							
WF	Totals			697	1.8	685	16.6			77	33	130	189	104	151							
DF	CR	CR	17	19		19	4.9				19											
DF	CR	CR	27	26		26	6.7			26												
DF	CR	CR	34	346	.4	344	88.4			30		136	83	95								
DF	Totals			391		390	9.4			57	19	136	83	95								
OC	CR	GP	12	5		5	100.0				5											
OC	Totals			5		5	.1				5											
Total All Species				4,183	1.3	4,131	100.0	29		564	1022	1120	838	342	151	65						



