

Sale KL-341-2021-GF8319-01

District: Northeast Date: April 14, 2020

## **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$15,668.67	\$0.00	\$15,668.67
		Project Work:	\$0.00
		Advertised Value:	\$15,668.67



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### **Timber Description**

Location: T.4S., R.29E., Section 32 and 33.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	12	0	90
Lodgepole Pine	6	0	90
Western Larch	10	0	90

Volume by Grade	Pulp	8"+	Camprun	Poles / Pilings	Total
White Fir	20	122	0	0	142
Lodgepole Pine	0	0	46	0	46
Western Larch	0	73	0	64	137
Total	20	195	46	64	325

**Comments:** Pond Values Used: Local Pond Values, March 2020

Log Markets: La Grande, Elgin, Pilot Rock, Pendleton

Other Costs (no Profit and Risk): Road Surface Replacement on 5300 road \$405.46

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

ROAD MAINTENANCE General Road Maintenance:

Closed Road 0.9 mile x \$900.00 per mile = \$810.00; \$2.50/MBF



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**Logging Conditions** 

Combination#: 1 White Fir 100.00%

Lodgepole Pine 100.00% Western Larch 100.00%

Logging System: Wheel Skidder Process: Feller Buncher

yarding distance: Short (400 ft) downhill yarding: Yes

tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF

loads / day: 11 bd. ft / load: 4000

cost / mbf: \$86.29

machines: Log Loader (B)

Stroke Delimber (B) Feller Buncher w/ Delimber

Tire Skidder



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## **Logging Costs**

**Operating Seasons:** 2.00

Profit Risk: 10%

Project Costs: \$0.00

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

**Other Costs:** \$405.46

#### Miles of Road

Road Maintenance:

\$2.50

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

#### **Hauling Costs**

Species	\$/MBF	Trips/Day	MBF / Load
White Fir	\$0.00	2.0	4.0
Lodgepole Pine	\$0.00	2.0	4.0
Western Larch	\$0.00	2.0	4.0



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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
White Fir									
\$86.29	\$2.75	\$27.01	\$130.62	\$0.00	\$24.67	\$0.00	\$0.00	\$1.25	\$272.59
Lodgepole	Pine								
\$86.29	\$2.75	\$27.01	\$130.62	\$0.00	\$24.67	\$0.00	\$0.00	\$1.25	\$272.59
Western L	arch								
\$86.29	\$2.75	\$27.01	\$130.62	\$0.00	\$24.67	\$0.00	\$0.00	\$1.25	\$272.59

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$285.92	\$13.33	\$0.00
Lodgepole Pine	\$0.00	\$300.00	\$27.41	\$0.00
Western Larch	\$0.00	\$363.94	\$91.35	\$0.00



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### **Summary**

#### Amortized

Specie	MBF	Value	Total
White Fir	0	\$0.00	\$0.00
Lodgepole Pine	0	\$0.00	\$0.00
Western Larch	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total
White Fir	142	\$13.33	\$1,892.86
Lodgepole Pine	46	\$27.41	\$1,260.86
Western Larch	137	\$91.35	\$12,514.95

#### **Gross Timber Sale Value**

**Recovery:** \$15,668.67

Prepared By: Mike Billman Phone: 541-362-6760

# Four Corners - GNA

### KL-341-2021-GF8319-01 Cruise Report



**SALE NAME:** Four Corners - GNA

#### **LEGAL DESCRIPTION:**

Portions of Sections 32 and 33, T4S, R29E, W.M., Morrow County, Oregon.

#### **BOUNDARY LINES:**

Unit boundaries are posted with "Timber Sale Boundary" signs, marked with orange paint and blue flagging.

#### **ACREAGE**:

Gross Sale Acreage: 66 Acres

Exclusion Acreage 0 Acres

Net Sale Acreage: 66 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 partial cut harvest.

#### **CRUISE METHOD:**

Variable plot cruise with all plots measured.

#### **BASAL AREA FACTOR:**

Area	BAF	Type Acreage
Area 1	10 BAF	66

#### **MEASUREMENTS AND GRADING:**

- DBH and Height were measured on all "in" trees for measure plots.
- All trees were graded using the segment system.

#### 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:**

9.0" DBH for sawlog volume.

#### **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	54.3	10.8	66

#### **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**

	Ave.	Gross Vol/Acre	Net Vol/Acre	Net Sale Vol
Species	DBH	(bf)	(bf)	(Mbf)
Douglas-Fir	12.8	194	167	11
White fir &				
Other	12.4	3,499	2,146	142
Lodgepole pine	5.7	1,344	685	45
W Larch	9.7	3,016	1,919	127
	Total	8,054	4,918	325

**TOTAL NET SAWLOG VOLUME: 325 MBF** 

TC PSTATS USFS					OJECT S OJECT		TICS RNERS		PAGE DATE	1 3/16/2020	
TWP RGE	SC	TRACT	ŗ	ГҮРЕ		ACI	RES	PLOTS	TREES	CuFt	BdFt
04S 29E	33	002	,	VP			66.00	26	197	S	W
					TREES	]	ESTIMATED TOTAL		ERCENT AMPLE		
	PL	OTS	TREES		PER PLOT		TREES	,	TREES		
TOTAL		26	197		7.6						
CRUISE DBH COUNT REFOREST		14	106		7.6		13,618		.8		
COUNT BLANKS 100 %		12	91		7.6						
				STA	ND SUMM	ARY					
		IPLE REES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
CON FIR		33	30.6	12.4	44	7.3	25.8	3,320	2,042	634	634
W LARCH		32	48.4	9.7	45	7.9	24.6	3,016	1,919	577	577
LP PINE E SPRUCE		34 5	119.6 5.7	5.7 8.6	30 25	8.9 0.8	21.2 2.3	1,344 179	685 104	239 39	239 39
DOUG FIR		2	2.1	12.8	25 46	0.8	2.3 1.9	179 194	104 167	39	39 39
TOTAL		106	206.3	8.2	36	26.5	75.8	8,054	4,918	1,529	1,529
	58.1 TI	WILD OUT	OI 100 IIIL	VOLUME	WILL BL W		IE SAMPLE E	KKOK			
CL 68.1		COEFF			SAMPLE	TREES -	BF	# (	OF TREES R	EQ.	INF. POP.
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SD: 1.0 CON FIR W LARCH		VAR.% 84.6 67.5	14.7 11.9	L	OW 106 62	AVG 124 71	HIGH 142 79	# (		-	
SD: 1.0 CON FIR W LARCH LP PINE		VAR.% 84.6 67.5 184.6	14.7 11.9 31.6	D	OW 106 62 15	AVG 124 71 22	HIGH  142  79  29	# (		-	
SD: 1.0 CON FIR W LARCH		VAR.% 84.6 67.5	14.7 11.9	L	OW 106 62	AVG 124 71	HIGH 142 79	# (		-	
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SD: 1.0 CON FIR W LARCH LP PINE E SPRUCE DOUG FIR TOTAL CL 68.1 SD: 1.0		VAR.% 84.6 67.5 184.6 150.3 74.1 113.0 COEFF VAR.%	14.7 11.9 31.6 74.7 69.4 11.0		0W 106 62 15 14 32 64 SAMPLE	AVG  124  71  22  56  105  72  TREES -  AVG	HIGH  142  79  29  98  178  80		5	10	5
SD: 1,0 CON FIR W LARCH LP PINE E SPRUCE DOUG FIR TOTAL  CL 68.1 SD: 1,0 CON FIR		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2	14.7 11.9 31.6 74.7 69.4 11.0 S.E.%		0W 106 62 15 14 32 64 SAMPLE 0W	124 71 22 56 105 72 2 TREES - AVG	HIGH  142  79  29  98  178  80  CF  HIGH  41		5 510 OF TREES R	10 128 EQ.	1 5 INF. POP.
SD: 1,0 CON FIR W LARCH LP PINE E SPRUCE DOUG FIR TOTAL  CL 68.1 SD: 1,0 CON FIR W LARCH		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2 61.3	14.7 11.9 31.6 74.7 69.4 11.0 S.E.% 10.8		0W 106 62 15 14 32 64 SAMPLE 0W 33 19	AVG  124  71  22  56  105  72  CTREES -  AVG  37  21	HIGH  142  79  29  98  178  80   CF  HIGH  41  24		5 510 OF TREES R	10 128 EQ.	1 5 INF. POP.
SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2	14.7 11.9 31.6 74.7 69.4 11.0 S.E.%		0W 106 62 15 14 32 64 SAMPLE 0W	124 71 22 56 105 72 2 TREES - AVG	HIGH  142  79  29  98  178  80  CF  HIGH  41		5 510 OF TREES R	10 128 EQ.	1 5 INF. POP.
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SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR TOTAL  CL 68.1 SD: 1,0  CON FIR		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2 61.3 156.6 110.4 86.5 93.6  COEFF VAR.% 80.9	14.7 11.9 31.6 74.7 69.4 11.0 S.E.% 10.8 10.8 26.8 54.9 81.0 9.1 S.E.% 16.2	L	OW 106 62 15 14 32 64 SAMPLE OW 33 19 5 8 5 20 TREES/A	AVG  124  71  22  56  105  72  CTREES -  AVG  37  21  8  17  26  22  ACRE  AVG  31	HIGH  142  79  29  98  178  80   CF  HIGH  41  24  10  27  48  24  HIGH  36	# (	5 510 OF TREES R 5 350 OF PLOTS R	128 EQ. 10	5 INF. POP. 1
SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2 61.3 156.6 110.4 86.5 93.6  COEFF VAR.% 80.9 101.6	14.7 11.9 31.6 74.7 69.4 11.0  S.E.% 10.8 10.8 26.8 54.9 81.0 9.1  S.E.% 16.2 20.3	L	OW 106 62 15 14 32 64 SAMPLE OW 33 19 5 8 5 20 TREES/A	AVG  124  71  22  56  105  72  TREES -  AVG  37  21  8  17  26  22  ACRE  AVG  31  48	HIGH  142  79  29  98  178  80   CF  HIGH  41  24  10  27  48  24  HIGH  36  58	# (	5 510 OF TREES R 5 350 OF PLOTS R	128 EQ. 10	5 INF. POP. 1 INF. POP.
SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE CL 68.1 SD: 1,0		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2 61.3 156.6 110.4 86.5 93.6  COEFF VAR.% 80.9 101.6 180.2	14.7 11.9 31.6 74.7 69.4 11.0  S.E.% 10.8 10.8 26.8 54.9 81.0 9.1  S.E.% 16.2 20.3 36.0	L	OW 106 62 15 14 32 64 SAMPLE OW 33 19 5 8 5 20 TREES/A	AVG  124 71 22 56 105 72 CTREES - AVG 37 21 8 17 26 22 ACRE AVG 31 48 120	HIGH  142  79  29  98  178  80   CF  HIGH  41  24  10  27  48  24  HIGH  36  58  163	# (	5 510 OF TREES R 5 350 OF PLOTS R	128 EQ. 10	5 INF. POP. 1 INF. POP.
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SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  W LARCH LP PINE E SPRUCE DOUG FIR		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2 61.3 156.6 110.4 86.5 93.6  COEFF VAR.% 80.9 101.6 180.2 289.8 255.6 109.0	14.7 11.9 31.6 74.7 69.4 11.0  S.E.% 10.8 10.8 26.8 54.9 81.0 9.1  S.E.% 16.2 20.3 36.0 58.0 51.1	L D	OW 106 62 15 14 32 64 SAMPLE OW 33 19 5 8 5 20 TREES/A OW 26 39 76 2 1 161	AVG  124  71  22  56  105  72  CTREES -  AVG  37  21  8  17  26  22  ACRE  AVG  31  48  120  6  2	HIGH  142  79  29  98  178  80   CF  HIGH  41  24  10  27  48  24  HIGH  36  58  163  9  3  251	# (	5 510 OF TREES R 5 350 OF PLOTS R 5	128 EQ. 10 87 EQ. 10	5 INF. POP. 1  Solve of the state of the sta
SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2 61.3 156.6 110.4 86.5 93.6  COEFF VAR.% 80.9 101.6 180.2 289.8 255.6 109.0  COEFF VAR.% 81.5	14.7 11.9 31.6 74.7 69.4 11.0  S.E.% 10.8 10.8 26.8 54.9 81.0 9.1  S.E.% 16.2 20.3 36.0 58.0 51.1 21.8  S.E.% 16.3	L D	OW 106 62 15 14 32 64 SAMPLE OW 33 19 5 8 5 20 TREES/A OW 26 39 76 2 1 161 BASAL A OW 22	AVG  124 71 22 56 105 72  TREES - AVG 37 21 8 17 26 22  ACRE AVG 31 48 120 6 2 206  AREA/ACI AVG 26	HIGH  142  79  29  98  178  80   CF  HIGH  41  24  10  27  48  24  HIGH  36  58  163  9  3  251  RE  HIGH  30	# (	510 OF TREES R 5 350 OF PLOTS R 5	10  128  EQ. 10  87  EQ. 10	5 INF. POP. 1  Solve of the state of the sta
SD: 1,0  CON FIR W LARCH LP PINE E SPRUCE DOUG FIR TOTAL  CL 68.1 SD: 1,0  CON FIR W LARCH LP PINE E SPRUCE DOUG FIR TOTAL  CL 68.1 SD: 1,0  CON FIR W LARCH LP PINE E SPRUCE DOUG FIR TOTAL  CON FIR W LARCH LP PINE E SPRUCE DOUG FIR TOTAL  CON FIR W LARCH LP PINE E SPRUCE DOUG FIR TOTAL  CL 68.1 SD: 1,0  CON FIR TOTAL		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2 61.3 156.6 110.4 86.5 93.6  COEFF VAR.% 80.9 101.6 180.2 289.8 255.6 109.0  COEFF VAR.% 81.5 94.2	14.7 11.9 31.6 74.7 69.4 11.0  S.E.% 10.8 10.8 26.8 54.9 81.0 9.1  S.E.% 16.2 20.3 36.0 58.0 51.1 21.8  S.E.% 16.3 18.8	L D	OW 106 62 15 14 32 64 SAMPLE OW 33 19 5 8 5 20 TREES/A OW 26 39 76 2 1 161 BASAL A OW 22 20	AVG  124 71 22 56 105 72  TREES - AVG 37 21 8 17 26 22  ACRE AVG 31 48 120 6 2 206  AREA/ACI AVG 26 25	HIGH  142  79  29  98  178  80   CF  HIGH  41  24  10  27  48  24  HIGH  36  58  163  9  3  251  RE  HIGH  30  29	# (	510 OF TREES R 5 350 OF PLOTS R 5	10  128  EQ. 10  87  EQ. 10	5 INF. POP. 1  Solve 1  1  1  1  1  1  1  1  1  1  1  1  1
SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR TOTAL  CL 68.1 SD: 1,0  CON FIR W LARCH LP PINE E SPRUCE DOUG FIR TOTAL		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2 61.3 156.6 110.4 86.5 93.6  COEFF VAR.% 80.9 101.6 180.2 289.8 255.6 109.0  COEFF VAR.% 81.5 94.2 124.2	14.7 11.9 31.6 74.7 69.4 11.0  S.E.% 10.8 10.8 26.8 54.9 81.0 9.1  S.E.% 16.2 20.3 36.0 58.0 51.1 21.8  S.E.% 16.3 18.8 24.8	L D	OW 106 62 15 14 32 64 SAMPLE OW 33 19 5 8 5 20 TREES/A OW 26 39 76 2 1 161 BASAL A OW 22 20 16	AVG  124 71 22 56 105 72  TREES - AVG 37 21 8 17 26 22  ACRE AVG 31 48 120 6 2 206  AREA/ACI AVG 26 25 21	HIGH  142  79  29  98  178  80  CF  HIGH  41  24  10  27  48  24  HIGH  36  58  163  9  3  251  RE  HIGH  30  29  26	# (	510 OF TREES R 5 350 OF PLOTS R 5	10  128  EQ. 10  87  EQ. 10	5 INF. POP. 1  S. 5.
SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR  TOTAL  CL 68.1 SD: 1,0  CON FIR  W LARCH LP PINE E SPRUCE DOUG FIR TOTAL  CL 68.1 SD: 1,0  CON FIR W LARCH LP PINE CON FIR TOTAL		VAR.%  84.6 67.5 184.6 150.3 74.1 113.0  COEFF VAR.% 62.2 61.3 156.6 110.4 86.5 93.6  COEFF VAR.% 80.9 101.6 180.2 289.8 255.6 109.0  COEFF VAR.% 81.5 94.2	14.7 11.9 31.6 74.7 69.4 11.0  S.E.% 10.8 10.8 26.8 54.9 81.0 9.1  S.E.% 16.2 20.3 36.0 58.0 51.1 21.8  S.E.% 16.3 18.8	L D	OW 106 62 15 14 32 64 SAMPLE OW 33 19 5 8 5 20 TREES/A OW 26 39 76 2 1 161 BASAL A OW 22 20	AVG  124 71 22 56 105 72  TREES - AVG 37 21 8 17 26 22  ACRE AVG 31 48 120 6 2 206  AREA/ACI AVG 26 25	HIGH  142  79  29  98  178  80   CF  HIGH  41  24  10  27  48  24  HIGH  36  58  163  9  3  251  RE  HIGH  30  29	# (	510 OF TREES R 5 350 OF PLOTS R 5	10  128  EQ. 10  87  EQ. 10	5 INF. POP. 1  Solve of the state of the sta

C PSTATS JSFS				PROJECT PROJECT		STICS DRNERS			PAGE DATE	<b>2</b> 3/16/2020	
WP RG	E SC	TRACT	TYP	PΕ	A	CRES	PLOTS	TREES	CuFt	BdFt	
04S 29E	33	002	VP			66.00		197	S	W	
CL 68.1	1	COEFF		NET BI	F/ACRE			# OF PLOTS RE	EQ.	INF. POP.	
SD: 1.0	)	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
CON FIR	•	90.9	18.2	1,671	2,042	2,414		·		·	
W LARCH		102.5	20.5	1,526	1,919	2,313					
LP PINE		122.3	24.4	517	685	852					
E SPRUCE		305.1	61.0	41	104	168					
DOUG FIR		255.6	51.1	82	167	252					
TOTAL		54.3	10.8	4,384	4,918	5,451		122	31	14	
CL 68.1	l	COEFF		NET C	UFT FT/A	CRE		# OF PLOTS RE	EQ.	INF. POP.	
SD: 1.0	)	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
CON FIR		89.9	18.0	520	634	748					
W LARCH		98.4	19.7	463	577	690					
LP PINE		111.7	22.3	186	239	293					
E SPRUCE		311.8	62.4	15	39	64					
DOUG FIR		255.6	51.1	19	39	60					
TOTAL		50.9	10.2	1,373	1,529	1,684		108	27	12	

TC PLOGSTVB USFS		Log Stock Table - MBF	
T04S R29E S33 TyVP	66.00	Project: 4CORNERS Acres 66.00	Page 1 Date 3/16/2020 Time 4:18:46PM

s	Se	Gr	Log	Gross	Def	Net	%			let Volu	me by S	caling I	Diamete	r in Inch	es				
Ѕрр Т		de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11		14-15	16-19	20-23	24-29	30-39	40+
WL		UT	Γ 16	1		1	.8		1										
WL	PU	J	12	2		2	1.2		2										
WL	PU	J	14	6	39.4	4	3.1		1	3									
WL	PU	J	16	3		3	2.3		3										
WL	D	) 3N	1 16	166	36.9	105	82.8			36	38	21	9						
WL	PO	)	12	1	100.0														
WL	PO	)	16	20	35.9	13	9.9		8	4									
WL		Total	s	199	36.4	127	39.0		15	43	38	21	9						
WF		U	Γ 12	1		1	.4		1										
WF	PU	J	12	3	46.6	2	1.2		2										
WF	PU	J	14	6	29.3	4	3.0		1	3									
WF	PU	J	16	1	100.0														
WF	D	) 3N	1 16	209	38.5	129	95.4		2	11	21	30	26	27	12				
WF		Total	s	219	38.5	135	41.5		5	14	21	30	26	27	12				
LP	PU	J	14	0	100.0														
LP	D	) 3N	1 12	1	100.0														
LP	D	) 3N	<b>1</b> 16	48	39.6	29	64.8			6	5	16	2	1					
LP	PO	)	14	1		1	2.2		1										
LP	PO	)	15	2		2	4.6		2										
LP	PO	)	16	36	63.9	13	28.5		13										
LP		Total	s	89	49.1	45	13.9		16	6	5	16	2	1					
DF	D	) 3N	<b>1</b> 16	13	14.0	11	100.0			6		1		4					
DF		Total	s	13	14.0	11	3.4			6		1		4					
ES	PU	J	12	0		0	4.7		0										
ES	D	) 3N	1 16	11	42.9	7	95.3			1	1	1	4						
ES		Total	s	12	41.8	7	2.1		0	1	1	1	4						
Total	A	1 Speci	es	532	38.9	325	100.0		36	71	65	68	41	32	12				