Timber Sale Appraisal
MOUNTAIN CAT
Sale FG-341-2021-W00475-01

District: Forest Grove

Date: March 29, 2021

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,848,459.96	$0.00	$1,848,459.96
		Project Work:	($35,585.00)
		Advertised Value:	$1,812,874.96

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District: Forest Grove **Date: March 29, 2021**

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	19	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	2,322	1,131	3,453
Total	2,322	1,131	3,453

Comments: LOCAL POND VALUES USED, FEBRUARY 2021

WESTERN REDCEDAR AND OTHER CEDARS:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
$841.97 = $1,125 - $283.03

RED ALDER:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
$321.97 = $605 - $283.03

BIGLEAF MAPLE AND OTHER HARDWOODS:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
$14.97 = $298 - $283.03

WESTERN HEMLOCK AND OTHER CONIFERS:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
$334.97 = $618 - $283.03

BRANDING AND PAINTING ALLOWANCE $2.00/MBF

FUEL COST ALLOWANCE = $3.00/GAL

HAULING COST ALLOWANCE = $950 DAILY TRUCK COST

OTHER COSTS (WITH PROFIT & RISK ADDED): N/A

OTHER COSTS (NO PROFIT & RISK TO BE ADDED):
EQUIPMENT CLEANING:
3 PIECES @ $1,000/PIECE = $3,000
MACHINE TIME TO PILE LANDING SLASH:
20HRS @ $150/HR = $3,000
SLASH TREATMENT:
13 AC @ $200/AC = $2,600
TOTAL OTHER COSTS (NO P&R) = $8,600

ROAD MAINTENANCE
MOVE-IN(INCLUDES ALL ROAD MAINTENANCE EQUIPMENT NECESSARY):
$2,133.22
ROAD MAINTENANCE: 3.99 MILES X $2,034.17/MILE = $8,116.34
TOTAL ROAD MAINTENANCE: $10,249.56/3,453 MBF = $2.97/MBF

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District: Forest Grove **Date: March 29, 2021**

Logging Conditions

Combination#: 1 Douglas - Fir 84.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing

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

tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 10 **bd. ft / load:** 5000

cost / mbf: $155.61

machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 16.00%

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

yarding distance: Short (400 ft) **downhill yarding:** No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 11 **bd. ft / load:** 5000

cost / mbf: $64.33

machines: Feller Buncher w/ Delimber

Timber Sale Appraisal
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District: Forest Grove **Date: March 29, 2021**

Logging Costs

Operating Seasons:	1.00	**Profit Risk:**	15%
Project Costs:	$35,585.00	**Other Costs (P/R):**	$0.00
Slash Disposal:	$0.00	**Other Costs:**	$8,600.00

Miles of Road

Road Maintenance: $2.97

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	5.0

Timber Sale Appraisal
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District: Forest Grove

Date: March 29, 2021

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$141.01	$3.03	$1.27	$96.90	$0.00	$36.33	$0.00	$2.00	$2.49	$283.03

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$818.35	$535.32	$0.00

Timber Sale Appraisal
MOUNTAIN CAT
Sale FG-341-2021-W00475-01

District: Forest Grove **Date: March 29, 2021**

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,453	$535.32	$1,848,459.96

Gross Timber Sale Value

Recovery: $1,848,459.96

Prepared By: Nate Hunter **Phone:** 503-359-7434

TIMBER SALE SUMMARY
Mountain Cat
FG-341-2021-W00475-01

1. **Location:** Portions of Sections 13 & 14, T2N, R5W, W.M., Washington County, Oregon.

2. **Type of Sale:** This timber sale is 80 net acres of Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.

3. **Revenue Distribution:** 100% BOF, Washington County.

4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.

5. **Cruise**: The Timber Sale was cruised by ODF Cruisers in March of 2021. For more information see Cruise Report.

6. **Timber Description:** The Timber Sale Area consists of a well stocked 80-year-old Douglas-fir stand with minor amounts of bigleaf maple, western redcedar, western hemlock and red alder. The stand has an average of 181 ft^2 of basal area (non-reserved species), an average Douglas-fir DBH of 19 inches and an estimated average net Douglas-fir volume of approximately 43.2 MBF per acre.

7. **Topography and Logging Method:** Slopes within the sale areas range from 0% to 80%, with a generally southern aspect. The timber sale is 84% cable and 16% ground-based logging. The average cable road length is 600 feet and the maximum is approximately 1,000 feet. The average horizontal skid trail length is 200 feet and the maximum is approximately 500 feet.

8. **Access:** All access to the Timber Sale Area is surfaced all-weather roads. From Forest Grove, travel northwest on Highway 8 to its junction with Highway 6. Turn left on Highway 6 and proceed 3.2 miles to Timber Road. Turn right onto Timber Road and proceed 1.8 miles to Wildcat Mountain Road. Turn right and continue for 2.5 miles on Wildcat Mountain Road to access the northern portion of the Timber Sale Area. A key to the gate on the Wildcat Mountain Road is available at the Forest Grove District Office.

9. **Projects:**

Project No. 1: Road Improvement	$22,383.27
Project No. 2: Road Brushing	$13,201.73
Total Credit for all Projects	**$35,585.00**

PROJECT COST SUMMARY SHEET

Timber Sale: Mountain Cat
Sale Number: FG-341-2021-W00475-01

PROJECT NO. 1: ROAD IMPROVEMENT

Road Segment	Length	Cost
A to B	169+25	$11,012.85
C to D	25+10	$5,686.90
E to F	1+05	$490.23
G to H	1+00	$357.01
I to J	14+20	$2,378.31
	210+60 stations 3.99 miles	

Total Rock = 1,197 cy 1½" - 0

Move-in = $2,457.98

TOTAL PROJECT COST = $22,383.27

PROJECT NO. 2: ROAD BRUSHING

	Length	Cost
Brushing	542+78 10.28 miles	$11,752.00

Move-in = $1,449.73

TOTAL PROJECT COST = $13,201.73

TOTAL CREDITS = $35,585.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mountain Cat | Sale Number: FG-341-2021-W00475-01

Road Segment: A to B | Improvement: 169+25 stations; 3.21 miles

PROJECT NO. 1: ROAD IMPROVEMENT

IMPROVEMENT						
Clearing & grubbing (scatter)	1.95	ac @	$1,078.00	per acre =	$2,102.10	
Clean culvert inlet & outlet, scatter waste	11	ea @	$25.00	per ea =	$275.00	
Improve Turnarounds	1	ea @	$41.25	per ea =	$41.25	
Grade, ditch, & roll	169.25	sta @	$36.00	per sta =	$6,093.00	
				TOTAL IMPROVEMENT COSTS =		$8,511.35

CULVERTS						
Culverts and Bands						
18" Diameter	30	LF @	$20.00	per LF =	$600.00	
Markers & Stakes						
Culvert Markers	18	ea @	$10.00	per ea =	$180.00	
				TOTAL CULVERT COSTS =		$780.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$1.65	$1.86	$0.50	24	$96.24
				Subtotal =	24	$96.24
Surfacing rock						
Spot rock	1½" - 0	$1.65	$1.86	$1.22	250	$1,182.50
Turnaround	1½" - 0	$1.65	$1.86	$1.22	6	$28.38
				Subtotal =	256	$1,210.88
			Totals	All Rock =	280	
				1½" - 0 =	280	

TOTAL ROCK COSTS = $1,307.12

EROSION CONTROL						
Grass seed & fertilizer	0.975	ac @	$425.00	per ac =	$414.38	
				TOTAL EROSION CONTROL COSTS =		$414.38

TOTAL PROJECT COST = $11,012.85

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mountain Cat | Sale Number: FG-341-2021-W00475-01

Road Segment: C to D | Improvement: 25+10 stations; 0.48 miles

PROJECT NO. 1: ROAD IMPROVEMENT

IMPROVEMENT						
Clearing & grubbing (scatter)	0.29	ac @	$1,078.00	per acre =	$312.62	
Clean culvert inlet & outlet, scatter waste	1	ea @	$25.00	per ea =	$25.00	
Cutslope layback						
Excavate & load	250	cy @	$1.90	per cy =	$475.00	
Haul	325	cy @	$0.66	per cy =	$214.50	
Shape and compact waste material	325	cy @	$0.30	per cy =	$97.50	
Improve Turnouts	2	ea @	$33.00	per ea =	$66.00	
Improve Turnarounds	1	ea @	$41.25	per ea =	$41.25	
Improve Roadside Landing	3	ea @	$82.50	per ea =	$247.50	
Improve Landing	1	ea @	$157.00	per ea =	$157.00	
Grade, ditch, & roll	25.10	sta @	$36.00	per sta =	$903.60	
				TOTAL IMPROVEMENT COSTS =		$2,539.97

CULVERTS						
Culverts and Bands						
18" Diameter	30	LF @	$20.00	per LF =	$600.00	
Markers & Stakes						
Culvert Markers	1	ea @	$10.00	per ea =	$10.00	
				TOTAL CULVERT COSTS =		$610.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$1.65	$1.67	$0.50	24	$91.68
				Subtotal =	24	$91.68
Surfacing rock						
Surfacing rock	1½" - 0	$1.65	$1.67	$1.22	377	$1,711.58
Turnaround	1½" - 0	$1.65	$1.67	$1.22	6	$27.24
Roadside landing	1½" - 0	$1.65	$1.67	$1.22	75	$340.50
Landing	1½" - 0	$1.65	$1.67	$1.22	45	$204.30
				Subtotal =	503	$2,283.62

Totals		
	All Rock =	527
	1½" - 0 =	527

TOTAL ROCK COSTS = $2,375.30

EROSION CONTROL						
Grass seed & fertilizer	0.145	ac @	$425.00	per ac =	$61.63	
Straw Mulch Bale	10	ea @	$10.00	per ea =	$100.00	
				TOTAL EROSION CONTROL COSTS =		$161.63

TOTAL PROJECT COST = $5,686.90

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mountain Cat | Sale Number: FG-341-2021-W00475-01

Road Segment: E to F | Improvement: 1+05 stations; 0.02 miles

PROJECT NO. 1: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.02	ac @	$1,078.00	per acre =		$21.56
Improve Landing	1	ea @	$157.00	per ea =		$157.00
Grade, ditch, & roll	1.05	sta @	$36.00	per sta =		$37.80

TOTAL IMPROVEMENT COSTS = $216.36

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	1½" - 0	$1.65	$1.55	$1.22	16	$70.72
Landing	1½" - 0	$1.65	$1.55	$1.22	45	$198.90
				Subtotal =	61	$269.62

Totals		
	All Rock =	61
	1½" - 0 =	61

TOTAL ROCK COSTS = $269.62

EROSION CONTROL

Grass seed & fertilizer	0.010	ac @	$425.00	per ac =		$4.25

TOTAL EROSION CONTROL COSTS = $4.25

TOTAL PROJECT COST = $490.23

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mountain Cat | Sale Number: FG-341-2021-W00475-01

Road Segment: G to H | Improvement: 1+00 stations; 0.02 miles

PROJECT NO. 1: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.02	ac @	$1,078.00	per acre =		$21.56
Improve Landing	1	ea @	$110.00	per ea =		$110.00
Grade, ditch, & roll	1.00	sta @	$36.00	per sta =		$36.00

TOTAL IMPROVEMENT COSTS = $167.56

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	1½" - 0	$1.65	$1.76	$1.22	15	$69.45
Landing	1½" - 0	$1.65	$1.76	$1.22	25	$115.75
				Subtotal =	40	$185.20

Totals		
	All Rock =	40
	1½" - 0 =	40

TOTAL ROCK COSTS = $185.20

EROSION CONTROL

Grass seed & fertilizer	0.010	ac @	$425.00	per ac =		$4.25

TOTAL EROSION CONTROL COSTS = $4.25

TOTAL PROJECT COST = $357.01

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mountain Cat | Sale Number: FG-341-2021-W00475-01

Road Segment: I to J | Improvement: 14+20 stations; 0.27 miles

PROJECT NO. 1: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.17	ac @	$1,078.00	per acre =	$183.26
Improve Turnarounds	1	ea @	$41.25	per ea =	$41.25
Improve Roadside Landing	1	ea @	$82.50	per ea =	$82.50
Improve Landing	1	ea @	$157.00	per ea =	$157.00
Grade, ditch, & roll	14.20	sta @	$36.00	per sta =	$511.20

TOTAL IMPROVEMENT COSTS = $975.21

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	1½" - 0	$1.65	$1.86	$1.22	213	$1,007.49
Turnaround	1½" - 0	$1.65	$1.86	$1.22	6	$28.38
Roadside landing	1½" - 0	$1.65	$1.86	$1.22	25	$118.25
Landing	1½" - 0	$1.65	$1.86	$1.22	45	$212.85
				Subtotal =	289	$1,366.97

Totals		
	All Rock =	289
	1½" - 0 =	289

TOTAL ROCK COSTS = $1,366.97

EROSION CONTROL

Grass seed & fertilizer	0.085	ac @	$425.00	per ac =	$36.13

TOTAL EROSION CONTROL COSTS = $36.13

TOTAL PROJECT COST = $2,378.31

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mountain Cat | Sale Number: FG-341-2021-W00475-01

Road Segment: All roads | Improvement: 542+78 stations; 10.28 miles

PROJECT NO. 2: ROAD BRUSHING

IMPROVEMENT			
Roadside brushing	10.28 mi @ $1,143.19 per mi =	$11,752.00	

TOTAL PROJECT COST = $11,752.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mountain Cat Sale Number: FG-341-2021-W00475-01

PROJECT No. 1 & 2 MOVE-IN, WITHIN AREA MOVE, & CLEANING COSTS

Equipment	Total
Brush Cutter	$601.08
Grader	$805.74
Roller Compactor	$538.75
Excavator (Large) - Equipment Cleaning	$1,805.74
Dump Truck (10cy +)	$156.40
TOTAL MOVE-IN COSTS =	**$3,907.71**

STOCKPILE LOADING COST SUMMARY

Timber Sale: Mountain Cat
Sale Number: FG-341-2021-W00475-01
Stockpile Name: Wildcat Stockpile

1 1/2" - 0: 1,197 cy (truck measure)
Total truck yardage: 1,197 cy

Move-in					
Move in loader					$696.99
Move in Dump Trucks					$321.81
				Subtotal =	$1,018.80
				Per CY =	$0.85
1 1/2"-0 Base Cost					
Load dump truck	$0.80	/ cy x	1,197	cy =	$957.60
				Subtotal =	$957.60
				Per CY =	$0.80

1 1/2"-0 Cost = **$1.65/cy**

CRUISE REPORT
Mountain Cat
FG-341-2021-W00475-01

1. LOCATION:

Portions of Sections 13 and 14, T2N, R5W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

The timber cruise was designed using an estimated coefficient of variation (CV) of 59%, average stand diameter of 18 inches, sampling error (SE) of 11% and a minimum of 100 grade trees.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in March of 2021 with 28 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 4 chain x 5 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

145 trees were measured and graded producing a standard error of 8.6% on the Douglas-fir Basal Area and 8.7% on the Douglas-fir Board Foot Volume.

5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following the Official Log Scaling and Grading Rules as adopted by the NW Log Rules Advisory Group. 40 foot segments were favored.

a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.
b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
c) **Form Factors:** Measured for each grade tree using a form point of 16 feet.

6. DATA PROCESSING:

a) **Volumes and Statistics:** Cruise estimates and sampling statistics were derived from SuperAce 2008 cruise software.

b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

7. CRUISERS: The sale was cruised by Scott Felder, Ian Goodwin, Mark Savage, Adrian Torres, and Nate Hunter.

Prepared by: Nate Hunter 3-11-2021

Reviewed by: Mark Savage 3-25-2021
Date

TC PSTATS

PROJECT STATISTICS

PROJECT MTNCAT

DATE 3/16/2021

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
02N	05	13	MTNCAT	0001	80.00	28	145	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	28	145	5.2		
CRUISE	28	145	5.2	10,399	1.4
DBH COUNT					
REFOREST					
COUNT					
BLANKS					
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	127	97.3	18.5	132	42.2	181.4	44,120	44,049	8,889	8,889
BL MAPLE-L	14	30.1	11.0	75	6.0	20.0	1,984	1,984	402	402
WR CEDAR-L	4	2.6	20.2	94	1.3	5.7	734	734	209	209
TOTAL	*145*	*130.0*	*17.1*	*118*	*50.1*	*207.1*	*46,838*	*46,767*	*9,501*	*9,501*

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	48.6	4.7	784	822	861			
BL MAPLE-L	68.8	20.7	84	106	128			
WR CEDAR-L	98.3	68.0	207	647	1,086			
TOTAL	*58.8*	*5.3*	*708*	*747*	*787*	*138*	*35*	*15*

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	39.9	3.8	156	162	168			
BL MAPLE-L	64.4	19.4	17	22	26			
WR CEDAR-L	73.8	51.1	81	165	249			
TOTAL	*50.8*	*4.6*	*141*	*148*	*155*	*103*	*26*	*11*

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	72.5	13.9	84	97	111			
BL MAPLE-L	201.5	38.8	18	30	42			
WR CEDAR-L	529.2	101.8		3	5			
TOTAL	*67.2*	*12.9*	*113*	*130*	*147*	*187*	*47*	*21*

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	44.7	8.6	166	181	197			
BL MAPLE-L	184.6	35.5	13	20	27			
WR CEDAR-L	529.2	101.8		6	12			
TOTAL	*44.6*	*8.6*	*189*	*207*	*225*	*82*	*21*	*9*

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	45.4	8.7	40,206	44,049	47,892			
BL MAPLE-L	216.0	41.5	1,160	1,984	2,808			
WR CEDAR-L	529.2	101.8		734	1,481			
TOTAL	*42.7*	*8.2*	*42,928*	*46,767*	*50,606*	*75*	*19*	*8*

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	45.4	8.7	8,112	8,889	9,666			
BL MAPLE-L	213.3	41.0	237	402	568			

PROJECT STATISTICS

PROJECT **MTNCAT**

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
02N	05	13	MTNCAT	0001	80.00	28	145	S	W

CL 68.1
SD: 1.00

	COEFF VAR.	S.E.%	NET CUFT FT/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WR CEDAR-L	529.2	101.8		209	423			
TOTAL	*42.7*	*8.2*	*8,721*	*9,501*	*10,280*	*75*	*19*	*8*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T02N R05W S13 Ty0001 80.00

Project: **MTNCAT**

Acres **80.00**

Page **1**

Date **3/16/2021**

Time **3:48:16PM**

Spp	ST	Sort Grad	% 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		CU														28	21		0.00	.7
DF		2M	67	.1	29,642	29,616	2,369			51	49			3	97	39	15	367	1.77	80.7
DF		3M	29	.2	12,744	12,715	1,017		100	0			1	12	87	38	9	106	0.64	119.8
DF		4M	4	.9	1,733	1,718	137		100			51	38	11		20	6	25	0.31	68.8
DF	**Totals**		94	.2	44,120	44,049	3,524		33	34	33	2	2	6	91	34	10	163	0.98	269.9
BM		CU														12	10		0.00	1.8
BM		C	100		1,984	1,984	159		78	22		31	9	34	26	22	8	57	0.52	34.6
BM	**Totals**		4		1,984	1,984	159		78	22		31	9	34	26	22	8	54	0.51	36.4
RC		C	100		734	734	59	4	35	32	29				100	40	10	196	1.40	3.7
RC	**Totals**		2		734	734	59	4	35	32	29				100	40	10	196	1.40	3.7
Totals				0.2	46,838	46,767	3,741	0	35	34	31	3	2	7	88	32	10	151	0.95	310.1

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 3/16/2021

T02N R05W S13 Ty0001 80.00

Project MTNCAT
Acres 80.00

Time: 3:48:15PM
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	2	87	83	8.185	2.86	8.19	5.6	30.0	1.30	46	246	104	36	20
DF		10	1	89	121	2.619	1.43	2.62	14.2	70.0	1.06	37	183	85	30	15
DF		11	2	88	90	4.329	2.86	4.33	14.6	65.0	1.80	63	281	144	51	23
DF		12	1	89	124	1.819	1.43	3.64	15.0	75.0	1.56	55	273	124	44	22
DF		13	2	89	116	3.100	2.86	6.20	17.7	82.5	3.13	110	511	250	88	41
DF		14	7	89	127	9.354	10.00	25.39	16.3	77.9	11.80	414	1,978	944	331	158
DF		15	10	89	130	11.641	14.29	33.76	18.9	90.0	18.14	636	3,038	1,451	509	243
DF		16	7	89	140	7.162	10.00	21.49	22.0	101.4	13.46	472	2,179	1,077	378	174
DF		17	5	89	128	4.532	7.14	12.69	24.6	111.4	8.91	313	1,414	713	250	113
DF		18	11	89	144	8.892	15.71	28.29	27.4	129.1	22.12	776	3,654	1,770	621	292
DF		19	2	89	139	1.451	2.86	4.35	32.7	158.3	4.06	142	689	325	114	55
DF		20	10	90	139	6.548	14.29	20.30	34.0	160.0	19.65	690	3,248	1,572	552	260
DF		21	4	90	154	2.376	5.71	7.72	39.4	193.8	8.67	304	1,497	693	243	120
DF		22	8	90	142	4.329	11.43	14.07	41.0	196.9	16.42	576	2,771	1,314	461	222
DF		23	8	89	150	3.961	11.43	13.86	44.5	220.4	17.60	618	3,055	1,408	494	244
DF		24	5	89	154	2.274	7.14	8.64	45.0	226.3	11.09	389	1,955	887	311	156
DF		25	11	89	146	4.610	15.71	15.51	53.0	262.4	23.42	822	4,069	1,874	658	326
DF		26	7	89	153	2.712	10.00	10.07	50.9	262.7	14.62	513	2,646	1,170	410	212
DF		27	7	90	153	2.515	10.00	8.98	61.6	329.2	15.76	553	2,957	1,261	442	237
DF		28	2	90	146	.668	2.86	2.34	64.8	334.3	4.32	152	782	346	121	63
DF		29	8	90	163	2.492	11.43	10.28	65.0	354.8	19.05	669	3,647	1,524	535	292
DF		30	2	89	141	.582	2.86	1.75	67.1	338.3	3.34	117	591	267	94	47
DF		31	1	90	150	.273	1.43	1.09	72.5	400.0	2.25	79	436	180	63	35
DF		32	1	89	181	.256	1.43	1.02	90.5	515.0	2.64	93	527	211	74	42
DF		34	2	89	161	.453	2.86	1.81	91.9	517.5	4.75	167	938	380	133	75
DF		35	1	89	163	.214	1.43	.86	99.0	565.0	2.41	85	483	193	68	39
DF		Totals	127	89	132	97.347	181.43	269.24	33.0	163.6	253.33	8,889	44,049	20,267	7,111	3,524
BM		8	2	89	69	8.185	2.86	8.19	3.2	20.0	.70	26	164	56	21	13
BM		9	1	90	67	3.234	1.43	3.23	4.9	30.0	.42	16	97	34	13	8
BM		10	1	91	78	2.619	1.43	2.62	11.3	60.0	.79	30	157	63	24	13
BM		11	2	85	54	4.329	2.86	4.33	11.1	40.0	1.28	48	173	102	39	14
BM		12	3	90	85	5.457	4.29	9.09	11.6	58.0	2.81	106	527	225	85	42
BM		13	2	93	93	3.100	2.86	3.10	17.9	100.0	1.47	55	310	117	44	25
BM		14	1	90	71	1.336	1.43	1.34	25.4	90.0	.90	34	120	72	27	10
BM		17	2	93	98	1.813	2.86	2.72	32.0	160.0	2.31	87	435	185	70	35
BM		Totals	14	90	75	30.073	20.00	34.62	11.6	57.3	10.66	402	1,984	853	322	159
RC		18	2	81	83	1.617	2.86	1.62	50.3	150.0	1.91	81	243	153	65	19
RC		19	1	80	104	.726	1.43	1.45	38.9	120.0	1.33	56	174	106	45	14
RC		34	1	81	140	.227	1.43	.68	105.5	466.7	1.69	72	317	135	57	25
RC		Totals	4	81	94	2.569	5.71	3.75	55.9	195.8	4.92	209	734	394	168	59
Totals			145	89	118	129.989	207.14	307.61	30.9	152.0	268.92	9,501	46,767	21,514	7,601	3,741

TC PLOGSTVB

Log Stock Table - MBF

T02N R05W S13 Ty0001 80.00

Project: MTNCAT
Acres 80.00

Page 1
Date 3/16/2021
Time 3:48:17PM

Spp	ST	So	Grade	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+
DF			2M	32	33		33	.9									33			
DF			2M	34	33		33	.9						14		10	10			
DF			2M	36	323		323	9.2						131		114	79			
DF			2M	40	1,982		1,980	56.2						354		380	770	393	84	
DF			3M	24	3		3	.1					3							
DF			3M	26	3		3	.1				3								
DF			3M	32	19		19	.5			19									
DF			3M	34	107		107	3.0			13	28	66							
DF			3M	36	268		268	7.6			81	70	113	4						
DF			3M	40	620		617	17.5			61	236	321							
DF			4M	16	33		33	.9			33									
DF			4M	18	30		30	.8			30									
DF			4M	20	7		7	.2			7									
DF			4M	24	30		30	.9			30									
DF			4M	26	19		19	.5			19									
DF			4M	30	3		3	.1			3									
DF			4M	32	17	7.5	15	.4			15									
DF		Totals			3,530		3,524	94.2			310	337	503	502	503	859	426	84		
BM			C	12	13		13	8.3			13									
BM			C	14	6		6	3.7			6									
BM			C	16	8		8	4.9			8									
BM			C	18	7		7	4.1						7						
BM			C	20	16		16	9.9				6	10							
BM			C	24	14		14	8.7			14									
BM			C	32	54		54	34.2			13	13	15	14						
BM			C	40	42		42	26.2				27		15						
BM		Totals			159		159	4.2			53	46	25	35						
RC			C	40	59		59	100.0		2	1		19	12		7	17			
RC		Totals			59		59	1.6		2	1		19	12		7	17			
Total		All Species			3,747		3,741	100.0		2	365	383	547	549	503	866	443	84		

VOLUME SUMMARY

(Shown in MBF)

MOUNTAIN CAT

FG-341-2020-W00475-01

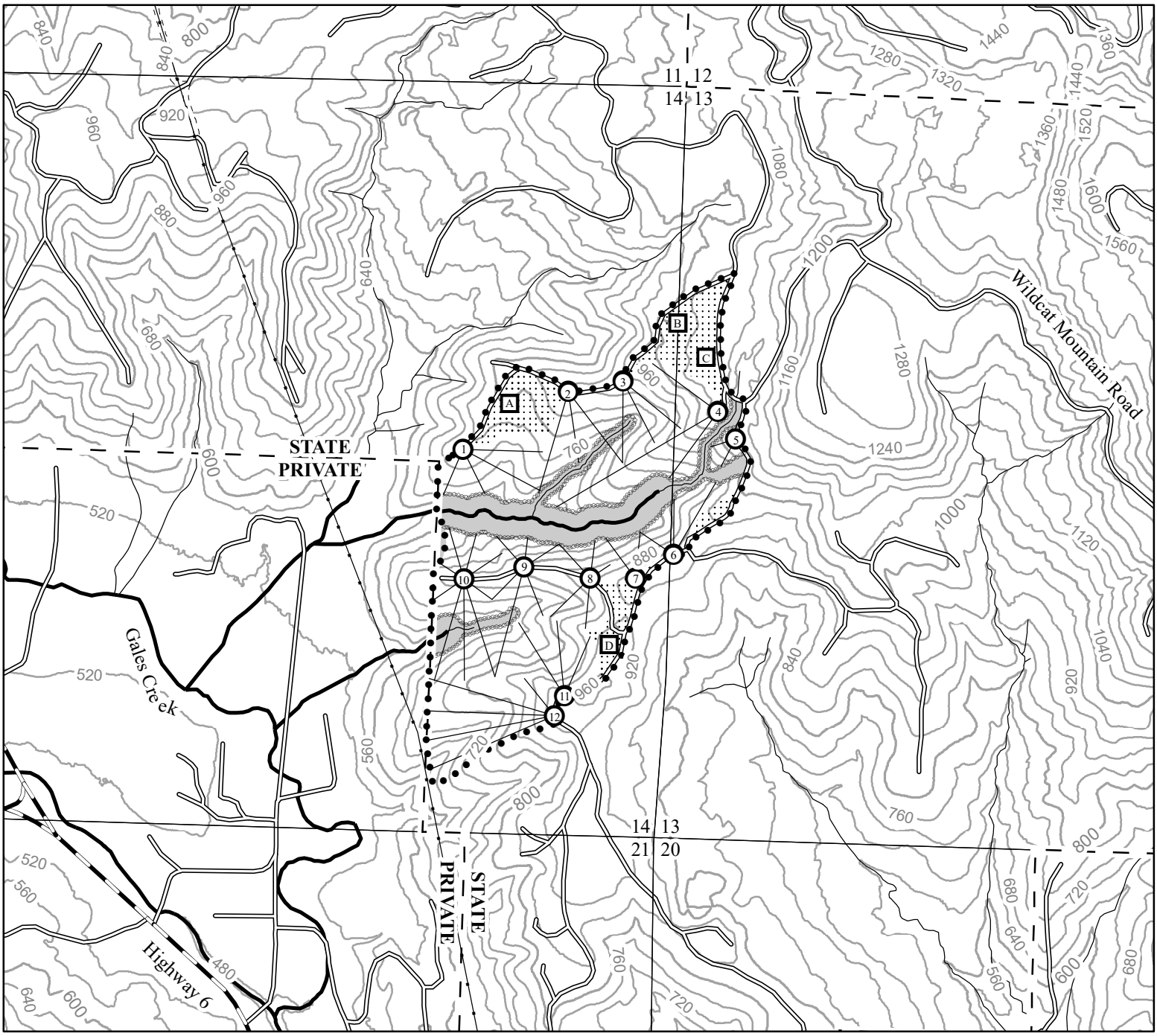
March 2021

UNIT 1: MC (80 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2,369	1,017	137	3,523
	Hidden D&B (2%)	(47)	(20)	(3)	(70)
	NET TOTAL	2,322	997	134	3,453
	% of Total	67	29	4	

SALE TOTAL:

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir		2,322	997	134	3,453
Total		2,322	997	134	3,453



LEGEND

- Timber Sale Boundary
- Stream Buffer Boundary
- ODF Ownership Boundary
- Paved Road
- Surfaced Road
- Unsurfaced Road
- Type-F Stream
- Type-N Stream
- Stream Buffer
- Cable Yarding Area
- Tractor Yarding Area
- Cable Landing
- Tractor Landing
- BPA Transmission Lines
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2021-W00475-01
MOUNTAIN CAT
PORTIONS OF SECTIONS 13 & 14, T2N, R5W, W.M.,
WASHINGTON COUNTY, OREGON

Forest Grove District GIS
March, 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

0 250 500 1,000 1,500 2,000
Feet

N

APPROXIMATE NET ACRES

	TRACTOR	CABLE
TOTAL	13	67