



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Mishmash  
Sale FG-341-2021-W00260-01

District: Forest Grove

Date: August 25, 2020

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,236,760.72	\$27,788.40	\$2,264,549.12
		Project Work:	(\$114,000.00)
		Advertised Value:	\$2,150,549.12



# Timber Sale Appraisal Mishmash Sale FG-341-2021-W00260-01

**District: Forest Grove**

**Date: August 25, 2020**

## Timber Description

**Location:** Portions of Sections 34 & 35, T3N, R6W, W.M., and portions of Section 3, T2N, R6W, W.M., Washington County, Oregon

**Stand Stocking:** 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	98
Western Hemlock / Fir	23	0	98
Alder (Red)	16	0	95

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	3,325	1,155	0	4,480
Western Hemlock / Fir	538	184	0	722
Alder (Red)	0	0	135	135
<b>Total</b>	<b>3,863</b>	<b>1,339</b>	<b>135</b>	<b>5,337</b>

**Comments:** Pond Values Used: Local Pond Values, June 2020.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:  
\$919.76/MBF = \$1,118/MBF - \$198.24/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE  
Hauling costs equivalent to \$950 daily truck cost.

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

Other Costs (No Profit & Risk added):  
Machine Time to Block/Waterbar Roads, and Skid Trails:  
10 hours x \$150/hour = \$1,500  
Machine Time to Pile Landing Slash and Sort Firewood:  
20 hours x \$150/hour = \$3,000  
Equipment Cleaning: 3 pieces x \$1,000/Piece = \$3,000  
Slash Disposal: 15 acres x \$200/acre = \$3,000  
TOTAL Other Costs (No Profit & Risk added) = \$10,500

ROAD MAINTENANCE  
Normal Road Maintenance (includes move-in, grading, rolling, and spot rocking):  
13.0 miles x \$2,651.53/mile = \$34,469.89  
TOTAL Road Maintenance: \$34,469.89/5,337MBF = \$6.45/MBF



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**Logging Conditions**

<b>Combination#:</b> 1	Douglas - Fir	69.50%
	Western Hemlock / Fir	70.00%
	Alder (Red)	65.33%
<b>Logging System:</b>	Cable: Medium Tower >40 - <70	<b>Process:</b> Stroke Delimber
<b>yarding distance:</b>	Medium (800 ft)	<b>downhill yarding:</b> No
<b>tree size:</b>	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
<b>loads / day:</b>	12	<b>bd. ft / load:</b> 4600
<b>cost / mbf:</b>	\$108.70	
<b>machines:</b>	Log Loader (A)	
	Stroke Delimber (A)	
	Tower Yarder (Medium)	
<b>Combination#:</b> 2	Douglas - Fir	30.50%
	Western Hemlock / Fir	30.00%
	Alder (Red)	34.67%
<b>Logging System:</b>	Shovel	<b>Process:</b> Manual Delimbing
<b>yarding distance:</b>	Short (400 ft)	<b>downhill yarding:</b> No
<b>tree size:</b>	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
<b>loads / day:</b>	14	<b>bd. ft / load:</b> 4600
<b>cost / mbf:</b>	\$51.67	
<b>machines:</b>	Shovel Logger	

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### Logging Costs

Operating Seasons: 1.00	Profit Risk: 15%
Project Costs: \$114,000.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$10,500.00

Miles of Road

Road Maintenance: \$6.45

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	4.6
Western Hemlock / Fir	\$0.00	2.0	4.6
Alder (Red)	\$0.00	2.0	3.0



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Mishmash Sale FG-341-2021-W00260-01

District: Forest Grove

Date: August 25, 2020

## 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>									
\$91.31	\$6.58	\$0.82	\$70.22	\$0.00	\$25.34	\$0.00	\$2.00	\$1.97	\$198.24
<b>Western Hemlock / Fir</b>									
\$91.59	\$6.58	\$0.82	\$105.33	\$0.00	\$30.65	\$0.00	\$2.00	\$1.97	\$238.94
<b>Alder (Red)</b>									
\$88.93	\$6.77	\$0.82	\$166.25	\$0.00	\$39.42	\$0.00	\$2.00	\$1.97	\$306.16

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$654.01	\$455.77	\$0.00
Western Hemlock / Fir	\$0.00	\$508.90	\$269.96	\$0.00
Alder (Red)	\$0.00	\$512.00	\$205.84	\$0.00



Timber Sale Appraisal  
Mishmash  
Sale FG-341-2021-W00260-01

District: Forest Grove

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### Summary

#### Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total
Douglas - Fir	4,480	\$455.77	\$2,041,849.60
Western Hemlock / Fir	722	\$269.96	\$194,911.12
Alder (Red)	135	\$205.84	\$27,788.40

#### Gross Timber Sale Value

Recovery: \$2,264,549.12

Prepared By: Kenton Burns

Phone: 503-359-7477

**TIMBER SALE SUMMARY**  
**Mishmash**  
**#FG-341-2021-W00260-01**

1. **Location:** Portions of Sections 34 & 35, T3N, R6W, W.M., and portions of Section 3, T2N, R6W, W.M., Washington County, Oregon.
2. **Type of Sale:** This timber sale is 116 net acres of Modified Clearcut, and 2 acres of Right-of-Way Timber. 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 July of 2020. For more information, see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of an over-stocked 70 year old Douglas-fir stand with minor amounts of western hemlock, noble fir, and red alder. The stand has an average of 230 ft<sup>2</sup> of basal area (all species), an average Douglas-fir DBH of 20 inches, and an estimated average net Douglas-fir volume of approximately 39 MBF per acre.
7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 65%, and variable in aspect. 70% of the harvest area is cable yarding and 30% is tractor yarding. The average cable corridor length is 800 feet and the maximum is 1,500 feet. The average horizontal skid trail length is approximately 250 feet and the maximum is approximately 750 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, travel north on Highway 8 to its junction with Highway 6. Turn left and travel west approximately 3.5 miles to Timber road. Turn right, proceed north on Timber road approximately 6.5 miles, and turn left onto Cochran road. Continue west on Cochran road for 3.8 miles to the Round Top road and turn left. Continue an additional 3.5 miles and bear right onto Bell Camp road. Continue west on Bell Camp road for 2 miles and turn onto the spur on the right. Continue another 0.6 miles to the east side of the Timber Sale Area.

**9. Projects:**

Project No. 1: Rocked Road Construction	\$52,458.92
Project No. 2: Dirt Road Construction	\$1,304.05
Project No. 3: Road Improvement	\$57,310.10
Project No. 4: Road Vacating	\$2,926.93
Total Credit for all Projects:	\$114,000.00

**PROJECT COST SUMMARY SHEET**

Timber Sale: Mishmash  
Sale Number: FG-341-2021-W00260-01

**PROJECT NO. 1: ROCKED ROAD CONSTRUCTION & RECONSTRUCTION**

Road Segment	Length	Cost
B to C	15+40	\$26,346.51
D to E	16+35	\$18,278.84
F to G	1+00	\$986.80
I to J	3+10	\$3,458.54
	35+85 stations 0.68 miles	
Total Rock =		
3,127 cy	Jaw-run	
375 cy	Pit-run	
72 cy	Riprap	
	Move-in =	\$3,388.24
<b>TOTAL PROJECT COST =</b>		<b>\$52,458.92</b>

**PROJECT NO. 2: DIRT ROAD CONSTRUCTION**

Road Segment	Length	Cost
L to M	1+75	\$1,219.83
	1+75 stations 0.03 miles	
	Move-in =	\$84.23
<b>TOTAL PROJECT COST =</b>		<b>\$1,304.05</b>

**PROJECT NO. 3: ROAD IMPROVEMENT**

Road Segment	Length	Cost
A to B	80+90	\$34,129.31
H to I	21+35	\$4,586.80
A to K	131+60	\$14,892.43
	233+85 stations 4.43 miles	
Total Rock =		
1,845 cy	1½" - 0	
2,887 cy	Jaw-run	
	Move-in =	\$3,701.57
<b>TOTAL PROJECT COST =</b>		<b>\$57,310.10</b>

**PROJECT NO. 4: ROAD VACATING**

Road Segment	Length	Cost
L to M	1+75	\$783.96
	1+75 stations 0.03 miles	
	Move-in =	\$2,142.97
<b>TOTAL PROJECT COST =</b>		<b>\$2,926.93</b>

**TOTAL CREDITS = \$114,000.00**



# SUMMARY OF CONSTRUCTION COST

Timber Sale: Mishmash  
 Road Segment: A to B

Sale Number: FG-341-2021-W00260-01  
 Improvement: 80+90 stations  
1.53 miles

## PROJECT NO. 3

### IMPROVEMENT

Clearing & grubbing (scatter)	0.93	ac @	\$1,078.00	per acre =	\$1,002.54
Roadside brushing (light)	1.53	mi @	\$850.00	per mi =	\$1,302.37
Clean ditch & scatter waste material	40.45	sta @	\$60.00	per sta =	\$2,427.00
Clean culvert inlet & outlet, scatter waste	3	ea @	\$25.00	per ea =	\$75.00
Road widening					
Excavate & load	53	cy @	\$1.64	per cy =	\$87.47
Haul	60	cy @	\$0.59	per cy =	\$35.56
Shape and compact waste material	60	cy @	\$0.30	per cy =	\$18.08
Construct Settling Ponds	6	ea @	\$25.00	per ea =	\$150.00
Construct Roadside 50' landing	2	ea @	\$165.00	per ea =	\$330.00
Grade, ditch, & roll	80.90	sta @	\$36.00	per sta =	\$2,912.40

**TOTAL IMPROVEMENT COSTS = \$8,637.41**

### CULVERTS

Culverts and Bands					
18" Diameter	60	LF @	\$20.00	per LF =	\$1,200.00
Markers & Stakes					
Culvert Markers	5	ea @	\$10.00	per ea =	\$50.00

**TOTAL CULVERT COSTS = \$1,250.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Subgrade rock</b>						
Bedding and backfill	1½" - 0	\$0.88	\$2.50	\$0.50	48	\$186.40
				Subtotal =	48	\$186.40
<b>Surfacing rock</b>						
Surfacing rock	Jaw-run	\$6.22	\$1.85	\$1.10	2,558	\$23,449.50
Junction	Jaw-run	\$6.22	\$1.85	\$1.10	24	\$220.02
Turnout	Jaw-run	\$6.22	\$1.85	\$1.10	14	\$128.34
				Subtotal =	2,596	\$23,797.86

Totals

All Rock =	2,644
1½" - 0 =	48
Jaw-run =	2,644

**TOTAL ROCK COSTS = \$23,984.27**

### EROSION CONTROL

Grass seed & fertilizer	0.47	ac @	\$425.00	per ac =	\$197.63
Straw Mulch Bale	6	ea @	\$10.00	per ea =	\$60.00

**TOTAL EROSION CONTROL COSTS = \$257.63**

**TOTAL PROJECT COST = \$34,129.31**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Mishmash  
Road Segment: B to C

Sale Number: FG-341-2021-W00260-01  
Construction: 15+40 stations  
0.29 miles

## PROJECT NO. 1

### CONSTRUCTION

Clearing & grubbing (scatter)	1.77	ac @	\$1,078.00	per ac =	\$1,908.06
Balanced road construction	13.40	sta @	\$110.00	per sta =	\$1,474.00
Turnouts	2	ea @	\$66.00	per ea =	\$132.00
Turnarounds	2	ea @	\$82.50	per ea =	\$165.00
Roadside 50' landing	2	ea @	\$165.00	per ea =	\$330.00
Landing	1	ea @	\$220.00	per ea =	\$220.00
Grade, ditch, & roll	15.40	sta @	\$36.00	per sta =	\$554.40

**TOTAL CONSTRUCTION COSTS = \$5,143.46**

### CULVERTS

Culverts and Bands					
18" Diameter	120	LF @	\$20.00	per LF =	\$2,400.00
24" Diameter	60	LF @	\$29.00	per LF =	\$1,740.00
Markers & Stakes					
Culvert markers	6	ea @	\$10.00	per ea =	\$60.00

**TOTAL CULVERT COSTS = \$4,200.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Subgrade rock</b>						
Bedding and backfill	1½" - 0	\$0.88	\$2.50	\$0.50	0	\$0.00
Energy dissipator	Riprap	\$4.08	\$3.68	\$1.60	72	\$673.59
Fill armor		\$0.00	\$0.00	\$1.60	0	\$0.00
Subgrade reinforcement	Pit-run	\$3.28	\$3.68	\$0.75	375	\$2,889.52
Subtotal =					447	\$3,563.10
<b>Surfacing rock</b>						
Base rock	Jaw-run	\$6.22	\$2.46	\$1.22	1,001	\$9,907.38
Junction	Jaw-run	\$6.22	\$2.46	\$1.22	24	\$237.54
Turnout	Jaw-run	\$6.22	\$2.46	\$1.22	58	\$574.05
Turnaround	Jaw-run	\$6.22	\$2.46	\$1.22	20	\$197.95
Roadside landing	Jaw-run	\$6.22	\$2.46	\$1.22	95	\$940.26
Landing	Jaw-run	\$6.22	\$2.46	\$1.22	95	\$940.26
Subtotal =					1,293	\$12,797.44

Totals

All Rock =	1,740
Jaw-run =	1,293
Pit-run =	375
Riprap =	72

**TOTAL ROCK COSTS = \$16,360.55**

### EROSION CONTROL

Grass seed & fertilizer	0.89	ac @	\$500.00	per ac =	\$442.50
Straw mulch (bale)	20	ea @	\$10.00	per ea =	\$200.00

**TOTAL EROSION CONTROL COSTS = \$642.50**

**TOTAL PROJECT COST = \$26,346.51**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Mishmash  
Road Segment: D to E

Sale Number: FG-341-2021-W00260-01  
Construction: 16+35 stations  
0.31 miles

## PROJECT NO. 1

### CONSTRUCTION

Clearing & grubbing (scatter)	1.88	ac @	\$1,078.00	per ac =	\$2,026.64
Balanced road construction	15.50	sta @	\$110.00	per sta =	\$1,705.00
Drift	0.85	sta @	\$180.00	per sta =	\$153.00
Remove large stump	4.00	ea @	\$82.50	per ea =	\$330.00
Turnouts	2	ea @	\$66.00	per ea =	\$132.00
Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Roadside 50' landing	1	ea @	\$165.00	per ea =	\$165.00
Landing	1	ea @	\$220.00	per ea =	\$220.00
Grade, ditch, & roll	16.35	sta @	\$36.00	per sta =	\$588.60

**TOTAL CONSTRUCTION COSTS = \$5,402.74**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Base rock	Jaw-run	\$6.22	\$1.72	\$1.22	1,063	\$9,732.11
Junction	Jaw-run	\$6.22	\$1.72	\$1.22	24	\$219.78
Turnout	Jaw-run	\$6.22	\$1.72	\$1.22	58	\$531.13
Turnaround	Jaw-run	\$6.22	\$1.72	\$1.22	20	\$183.15
Roadside landing	Jaw-run	\$6.22	\$1.72	\$1.22	95	\$869.96
Landing	Jaw-run	\$6.22	\$1.72	\$1.22	95	\$869.96
Subtotal =					1,355	\$12,406.10

Totals	All Rock =	1,355
	Jaw-run =	1,355

**TOTAL ROCK COSTS = \$12,406.10**

### EROSION CONTROL

Grass seed & fertilizer	0.94	ac @	\$500.00	per ac =	\$470.00
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**TOTAL EROSION CONTROL COSTS = \$470.00**

**TOTAL PROJECT COST = \$18,278.84**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Mishmash  
 Road Segment: F to G

Sale Number: FG-341-2021-W00260-01  
 Construction: 1+00 stations  
0.02 miles

## PROJECT NO. 1

### CONSTRUCTION

Clearing & grubbing (scatter)	0.12	ac @	\$1,078.00	per ac =	\$129.36
Balanced road construction	1.00	sta @	\$110.00	per sta =	\$110.00
Wide junction	0.50	sta @	\$110.00	per sta =	\$55.00
Grade, ditch, & roll	1.00	sta @	\$36.00	per sta =	\$36.00

**TOTAL CONSTRUCTION COSTS = \$330.36**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Base rock	Jaw-run	\$6.22	\$1.59	\$1.22	65	\$586.79
Junction	Jaw-run	\$0.00	\$0.00	\$1.22	33	\$39.65
				Subtotal =	98	\$626.44

Totals	All Rock =	98
	Jaw-run =	98

**TOTAL ROCK COSTS = \$626.44**

### EROSION CONTROL

Grass seed & fertilizer	0.06	ac @	\$500.00	per ac =	\$30.00
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**TOTAL EROSION CONTROL COSTS = \$30.00**

**TOTAL PROJECT COST = \$986.80**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Mishmash  
Road Segment: H to I

Sale Number: FG-341-2021-W00260-01  
Improvement: 21+35 stations  
0.40 miles

## PROJECT NO. 3

### IMPROVEMENT

Clearing & grubbing (scatter)	0.25	ac @	\$1,078.00	per acre =	\$269.50
"Y" Junction	1.00	sta @	\$110.00	per sta =	\$110.00
Improve Turnouts	2	ea @	\$33.00	per ea =	\$66.00
Grade, ditch, & roll	21.35	sta @	\$36.00	per sta =	\$768.60

**TOTAL IMPROVEMENT COSTS = \$1,214.10**

### CULVERTS

Culverts and Bands					
18" Diameter	40	LF @	\$20.00	per LF =	\$800.00
Markers & Stakes					
Culvert Markers	1	ea @	\$10.00	per ea =	\$10.00

**TOTAL CULVERT COSTS = \$810.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Spot rock	Jaw-run	\$6.22	\$3.01	\$1.10	150	\$1,549.12
"Y" Junction	Jaw-run	\$6.22	\$3.01	\$1.10	65	\$671.29
Turnout	Jaw-run	\$6.22	\$3.01	\$1.10	28	\$289.17
Subtotal =					243	\$2,509.58

Totals

All Rock =	243
Jaw-run =	243

**TOTAL ROCK COSTS = \$2,509.58**

### EROSION CONTROL

Grass seed & fertilizer	0.13	ac @	\$425.00	per ac =	\$53.13
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**TOTAL EROSION CONTROL COSTS = \$53.13**

**TOTAL PROJECT COST = \$4,586.80**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Mishmash  
Road Segment: I to J

Sale Number: FG-341-2021-W00260-01  
Construction: 3+10 stations  
0.06 miles

## PROJECT NO. 1

### CONSTRUCTION

Clearing & grubbing (scatter)	0.36	ac @	\$1,078.00	per ac =	\$388.08
Balanced road construction	3.10	sta @	\$110.00	per sta =	\$341.00
Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
70' Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	3.10	sta @	\$36.00	per sta =	\$111.60

**TOTAL CONSTRUCTION COSTS = \$1,237.18**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Base rock	Jaw-run	\$6.22	\$3.14	\$1.22	202	\$2,131.36
Landing	Jaw-run	\$6.22	\$3.14	\$1.22	180	\$1,903.95
				<b>Subtotal =</b>	<b>382</b>	<b>\$2,131.36</b>

Totals	All Rock =	382
	Jaw-run =	382

**TOTAL ROCK COSTS = \$2,131.36**

### EROSION CONTROL

Grass seed & fertilizer	0.18	ac @	\$500.00	per ac =	\$90.00
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**TOTAL EROSION CONTROL COSTS = \$90.00**

**TOTAL PROJECT COST = \$3,458.54**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Mishmash  
 Road Segment: A to K

Sale Number: FG-341-2021-W00260-01  
 Improvement: 131+60 stations  
2.49 miles

## PROJECT NO. 3

### IMPROVEMENT

Clearing & grubbing (scatter)	1.52	ac @	\$1,078.00	per acre =	\$1,638.56
Clean culvert inlet & outlet, scatter waste	2	ea @	\$25.00	per ea =	\$50.00
Improve Turnouts	11	ea @	\$33.00	per ea =	\$363.00
Grade, ditch, & roll	131.60	sta @	\$36.00	per sta =	\$4,737.60

**TOTAL IMPROVEMENT COSTS = \$6,789.16**

### CULVERTS

Markers & Stakes					
Culvert Markers	14	ea @	\$10.00	per ea =	\$140.00

**TOTAL CULVERT COSTS = \$140.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Spot rock	1½" - 0	\$0.88	\$2.19	\$1.10	500	\$2,086.71
Surfacing rock	1½" - 0	\$0.88	\$2.19	\$1.22	1,172	\$5,031.88
Junction	1½" - 0	\$0.88	\$2.19	\$1.10	48	\$200.32
Turnout	1½" - 0	\$0.88	\$2.19	\$1.10	77	\$321.35
Subtotal =					1,797	\$7,640.27

Totals	All Rock =	1,797
	1½" - 0 =	1,797

**TOTAL ROCK COSTS = \$7,640.27**

### EROSION CONTROL

Grass seed & fertilizer	0.76	ac @	\$425.00	per ac =	\$323.00
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**TOTAL EROSION CONTROL COSTS = \$323.00**

**TOTAL PROJECT COST = \$14,892.43**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Mishmash  
 Road Segment: L to M

Sale Number: FG-341-2021-W00260-01  
 Construction: 1+75 stations  
0.03 miles

## PROJECT NO. 2

### CONSTRUCTION

Clearing & grubbing (scatter)	0.09	ac @	\$1,078.00	per ac =	\$97.02
Balanced road construction	1.75	sta @	\$110.00	per sta =	\$192.50
Fill Construction					
Excavate & load	54	cy @	\$1.64	per cy =	\$88.31
Haul fill material	70	cy @	\$4.05	per cy =	\$283.50
Place and Compact fill	70	cy @	\$2.90	per cy =	\$203.00
Landing	1	ea @	\$220.00	per ea =	\$220.00
Grade, ditch, & roll	1.75	sta @	\$36.00	per sta =	\$63.00
TOTAL CONSTRUCTION COSTS =					\$1,147.33

### EROSION CONTROL

Winterization blocking	1	ea @	\$50.00	per ea =	\$50.00
Grass seed & fertilizer	0.05	ac @	\$500.00	per ac =	\$22.50
TOTAL EROSION CONTROL COSTS =					\$72.50

**TOTAL PROJECT COST =** \$1,219.83



# SUMMARY OF CONSTRUCTION COST

Timber Sale: \_\_\_\_\_ Timber Sale: \_\_\_\_\_ Sale Number: FG-341-2021-W00260-01  
Road Segment: L to M Vacating: 1+75 stations  
0.03 miles

## PROJECT NO. 4 ROAD VACATE

### Fill Removal

Excavate & load	54	cy @	\$1.64	per cy =	\$88.31
Haul material	70	cy @	\$4.05	per cy =	\$283.50
Place and Compact Material	70	cy @	\$2.90	per cy =	\$203.00
Rip dirt road surface	1.00	sta @	\$25.00	per sta =	\$25.00
Rip & narrow landing	1	ea @	\$150.00	per ea =	\$150.00
Grass seed & fertilizer	0.08	ac @	\$425.00	per ac =	\$34.15

**TOTAL PROJECT COST = \$783.96**

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mishmash

Sale Number: FG-341-2021-W00260-01

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**PROJECT No. 1, 2 & 3 MOVE-IN, WITHIN AREA MOVE, & CLEANING COSTS**

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<u>Equipment</u>	<u>Total</u>
Brush Cutter	\$592.17
Grader	\$976.59
Loader (Med. & Large)	\$855.76
Roller (smooth/grid) & Compactor	\$592.17
Excavator (Large) - Equipment Cleaning	\$1,976.59
Dozer (Large) - Equipment Cleaning	\$2,021.17
Dump Truck (10cy +)	\$159.58
	<b><u>TOTAL MOVE-IN COSTS = \$7,174.03</u></b>

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**PROJECT No. 4, MOVE-IN, WITHIN AREA MOVE, & CLEANING COSTS**

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<u>Equipment</u>	<u>Total</u>
Excavator (Large) - Equipment Cleaning	\$1,976.59
Dump Truck (10cy +)	\$166.38
	<b><u>TOTAL MOVE-IN COSTS = \$2,142.97</u></b>

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## QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Mishmash  
Sale Number: FG-341-2021-W00260-01  
Stockpile Name: Standard Grade

1 1/2" - 0: 1,845 cy (truck measure)  
Total truck yardage: 1,845 cy

### Move-in

Move in loader

\$153.90

Subtotal = \$153.90

Per CY = \$0.08/cy

### 1 1/2"-0 Base Cost

Load dump truck

\$0.80

/ cy x

1,845

cy =

\$1,476.00

Subtotal = \$1,476.00

Per CY = \$0.80

Total = \$1,629.90

1 1/2"-0 Cost = **\$0.88/cy**

## QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Mishmash  
 Sale Number: FG-341-2021-W00260-01  
 Quarry Name: Bell Bottom

Pit-run 375 cy (truck measure)  
 Rip-rap 72 cy (truck measure)  
 Jaw-run: 6,014 cy (truck measure)  
 Total truck yardage: 6,461 cy  
 Total in place yardage: 5,231 cy  
 Oversize - Pile: 5%  
 Swell: 130%  
 Compaction: 116%

### Move-in & Other Base Cost

Quarry development & overburden removal					\$1,073.32
Equipment cleaning & move in excavator					\$2,005.50
Move in & setup crusher					\$1,505.50
Move in Dump Trucks					\$351.00
Gradation tests	\$71.50 /2,000cy x	<u>1</u>	tests =		<u>\$71.50</u>
			Subtotal =		<u>\$5,006.82</u>
			Per CY =		<u>\$0.77/cy</u>

### Pit-Run

Drill & shoot	<u>\$2.10</u>	/ cy x	<u>304</u>	cy =	\$637.65
Load dump truck	<u>\$0.80</u>	/ cy x	<u>375</u>	cy =	\$300.00
				Subtotal =	<u>\$937.65</u>
				Per CY =	<u>\$2.50/cy</u>

### Rip-rap

Drill & shoot	<u>\$2.10</u>	/ cy x	<u>58</u>	cy =	\$122.43
Load dump truck	<u>\$1.60</u>	/ cy x	<u>72</u>	cy =	\$115.20
				Subtotal =	<u>\$237.63</u>
				Per CY =	<u>\$3.30/cy</u>

### Jaw-run Base Cost

Rip Rock	<u>\$2.10</u>	/ cy x	<u>4,869</u>	cy =	\$10,225.64
Oversize - Pile	<u>\$0.80</u>	/ cy x	<u>317</u>	cy =	\$253.21
Load crusher	<u>\$0.80</u>	/ cy x	<u>6,014</u>	cy =	\$4,810.92
Crush (Jaw-run)	<u>\$2.10</u>	/ cy x	<u>6,014</u>	cy =	\$12,628.67
Load dump truck	<u>\$0.80</u>	/ cy x	<u>6,014</u>	cy =	\$4,810.92
				Subtotal =	<u>\$32,729.35</u>
				Per CY =	<u>\$5.44/cy</u>
				Total =	<u><u>\$38,911.45</u></u>

Pit-run Base Cost = **\$3.28/cy**  
 Rip-rap Base Cost = **\$4.08/cy**  
 Jaw-run Base Cost = **\$6.22/cy**



TC PSTATS				PROJECT STATISTICS				PAGE 1			
				PROJECT		MISHMASH		DATE 7/20/2020			
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt	
T2N	R6	03	00U1	00MC	116.00		40	230	S	W	
				TREES		ESTIMATED	PERCENT				
				PER PLOT		TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES				
TOTAL			40	230	5.8						
CRUISE			40	230	5.8	12,126		1.9			
DBH COUNT											
REFOREST											
COUNT											
BLANKS											
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
DOUG FIR			190	86.8	20.0	117	42.5	190.0	39,473	39,129	8,481
NOB FIR			18	4.7	26.6	132	3.5	18.0	4,321	4,321	872
WHEMLOCK			13	6.5	19.1	97	3.0	13.0	2,026	2,018	498
R ALDER			9	6.5	15.9	79	2.3	9.0	1,183	1,147	276
TOTAL			230	104.5	20.1	114	51.3	230.0	47,004	46,616	10,128
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			66.5	4.8	763	801	840				
NOB FIR			63.0	15.3	1,059	1,250	1,441				
WHEMLOCK			76.6	22.1	369	473	578				
R ALDER			60.7	21.4	169	216	262				
TOTAL			71.5	4.7	757	795	832	204	51	23	
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			62.1	4.5	163	170	178				
NOB FIR			56.9	13.8	211	245	278				
WHEMLOCK			69.4	20.0	90	113	135				
R ALDER			57.7	20.4	41	51	62				
TOTAL			65.6	4.3	161	168	175	172	43	19	
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			82.3	13.0	76	87	98				
NOB FIR			143.6	22.7	4	5	6				
WHEMLOCK			235.7	37.2	4	7	9				
R ALDER			376.6	59.5	3	7	10				
TOTAL			68.6	10.8	93	105	116	188	47	21	
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			37.2	5.9	179	190	201				
NOB FIR			141.9	22.4	14	18	22				
WHEMLOCK			189.4	29.9	9	13	17				
R ALDER			355.7	56.2	4	9	14				
TOTAL			32.9	5.2	218	230	242	43	11	5	
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			42.4	6.7	36,507	39,129	41,752				
NOB FIR			153.6	24.3	3,273	4,321	5,370				
WHEMLOCK			195.2	30.8	1,396	2,018	2,640				
R ALDER			347.6	54.9	517	1,147	1,777				

TC PSTATS				PROJECT STATISTICS				PAGE	2	
				PROJECT	MISHMASH			DATE	7/20/2020	
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
T2N	R6	03	00U1	00MC	116.00		40	230	S	W
CL	68.1		COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL			40.8	6.4	43,610	46,616	49,621	67	17	7
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
DOUG FIR			40.1	6.3	7,944	8,481	9,018			
NOB FIR			147.2	23.3	670	872	1,075			
WHEMLOCK			188.7	29.8	350	498	647			
R ALDER			349.9	55.3	123	276	429			
TOTAL			37.5	5.9	9,527	10,128	10,728	56	14	6

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																
<div>TT2N RR6W S03 Ty00MC116.00</div>				Project:		MISHMASH										Page		1		
				Acres		116.00										Date		7/20/2020		
																Time		1:41:02PM		
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	
							Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
			Def%	Gross	Net		4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF	CU														10	17		0.00	1.1	
DF	2M	74	1.0	29,380	29,087	3,374			40	60			0	100	40	16	442	2.23	65.8	
DF	3M	23	.6	9,139	9,088	1,054		96	1	2		1	7	93	39	8	95	0.64	95.4	
DF	4M	3		954	954	111		100			47	53			19	6	24	0.34	40.4	
DF Totals		84	.9	39,473	39,129	4,539		25	30	45	1	1	2	96	35	10	193	1.19	202.7	
NF	2M	86		3,729	3,729	433			22	78			0	100	40	18	568	2.65	6.6	
NF	3M	12		514	514	60		100				2	2	96	39	9	122	0.93	4.2	
NF	4M	2		78	78	9		100			33	67			23	6	28	0.40	2.8	
NF Totals		9		4,321	4,321	501		14	19	67	1	1	1	97	36	13	319	1.78	13.6	
WH	CU														4	29		0.00	.4	
WH	2M	49	.8	1,009	1,001	116			70	30				100	40	14	320	1.85	3.1	
WH	3M	47		948	948	110		63	9	28				100	39	9	131	0.85	7.2	
WH	4M	4		69	69	8		100			64	36			19	6	23	0.40	3.0	
WH Totals		4	.4	2,026	2,018	234		33	39	28	2	1		97	34	10	147	1.06	13.8	
RA	CU														3	15		0.00	.9	
RA	R	100	3.0	1,183	1,147	133		56	32	12	2	12	19	67	31	9	105	0.80	10.9	
RA Totals		2	3.0	1,183	1,147	133		56	32	12	2	12	19	67	29	10	97	0.80	11.8	
Totals			0.8	47,004	46,616	5,407		25	30	45	1	2	2	95	35	10	193	1.20	241.8	

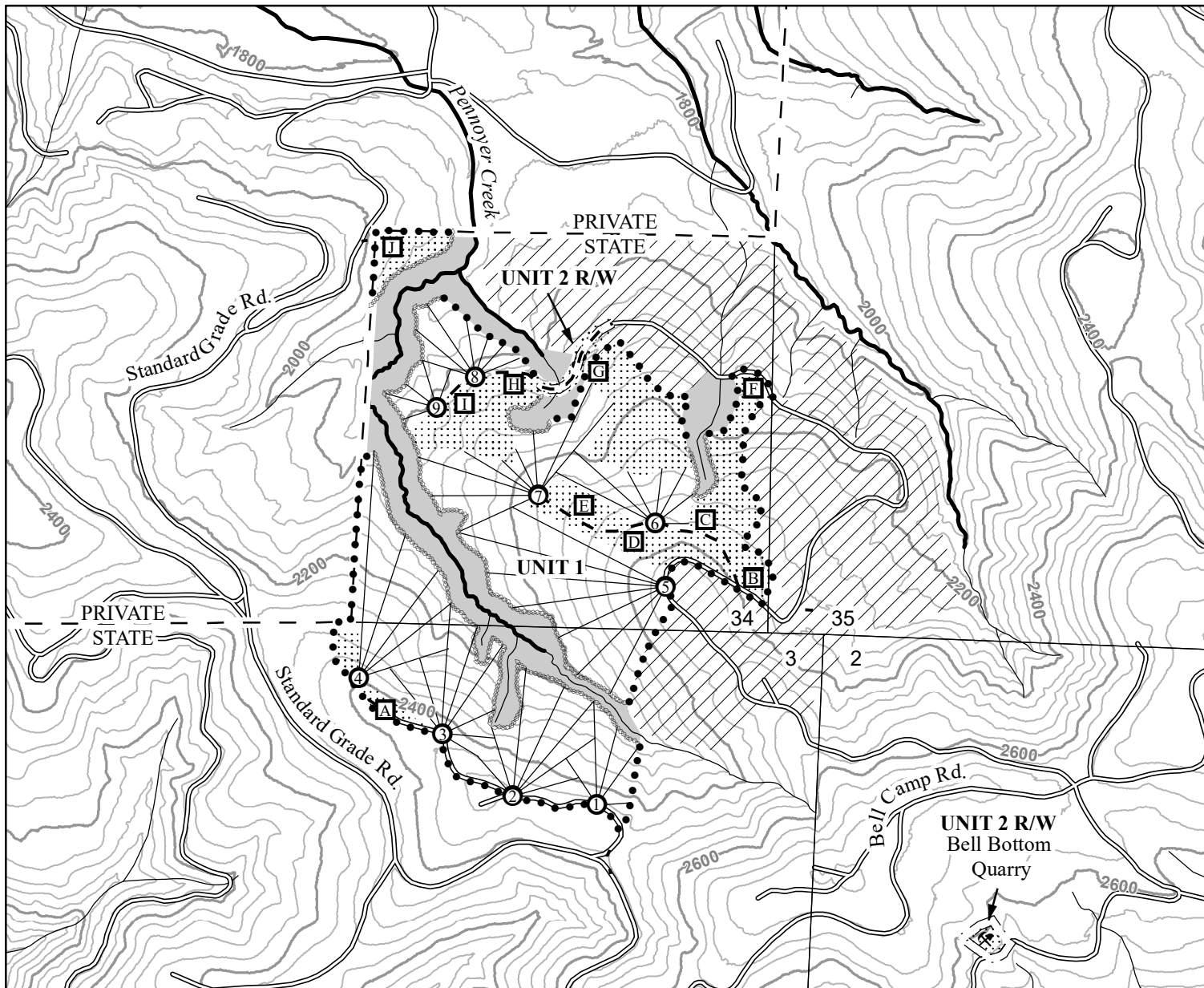


TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		7/20/2020	
TT2N RR6W S03 Ty00MC 116.00				Project MISHMASH										Time:		1:41:02PM	
				Acres 116.00										Grown Year:			
S SpC	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s				
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
DF		9	3	87	84	6.791	3.00	6.79	9.5	53.3	1.83	64	362	212	74	42	
DF		10	5	88	98	9.167	5.00	12.83	9.7	45.7	3.55	124	587	411	144	68	
DF		11	3	87	85	4.546	3.00	7.58	10.4	44.0	2.24	78	333	259	91	39	
DF		12	1	88	104	1.273	1.00	2.55	13.1	55.0	.95	33	140	110	39	16	
DF		13	6	88	97	6.509	6.00	13.02	14.2	55.8	5.27	185	727	611	215	84	
DF		14	6	88	106	5.613	6.00	11.23	18.6	82.5	5.94	209	926	690	242	107	
DF		15	5	88	105	4.074	5.00	8.15	22.5	97.0	5.24	184	790	607	213	92	
DF		16	3	88	114	2.149	3.00	4.30	27.4	120.0	3.36	118	516	390	137	60	
DF		17	5	88	117	3.172	5.00	7.61	26.4	110.8	5.74	201	844	665	233	98	
DF		18	9	88	116	5.093	9.00	12.45	28.9	117.7	10.25	360	1,466	1,189	417	170	
DF		19	7	89	120	3.555	7.00	9.14	31.9	133.9	8.30	291	1,224	963	338	142	
DF		20	7	89	130	3.209	7.00	9.63	33.1	148.1	9.07	318	1,426	1,052	369	165	
DF		21	5	90	132	2.079	5.00	6.24	37.5	177.3	6.67	234	1,106	773	271	128	
DF		22	10	88	131	3.788	10.00	10.99	42.0	192.1	13.16	462	2,110	1,526	536	245	
DF		23	12	89	125	4.159	12.00	11.78	45.0	200.0	15.12	531	2,357	1,754	616	273	
DF		24	6	89	138	1.910	6.00	5.41	50.8	235.3	7.84	275	1,273	909	319	148	
DF		25	3	88	145	.880	3.00	2.64	57.0	265.6	4.29	150	701	498	175	81	
DF		26	12	88	147	3.255	12.00	10.04	60.8	287.6	17.39	610	2,886	2,017	708	335	
DF		27	5	87	142	1.258	5.00	4.02	61.9	293.8	7.09	249	1,182	823	289	137	
DF		28	13	85	147	3.040	13.00	9.35	69.1	318.7	18.42	646	2,982	2,137	750	346	
DF		29	14	85	143	3.052	14.00	9.59	71.5	333.0	19.54	686	3,194	2,266	795	370	
DF		30	4	85	145	.815	4.00	2.65	73.2	347.7	5.52	194	921	641	225	107	
DF		31	8	85	141	1.526	8.00	4.77	81.8	390.8	11.12	390	1,864	1,290	453	216	
DF		32	6	85	144	1.074	6.00	3.22	91.6	437.2	8.41	295	1,409	976	342	163	
DF		33	9	85	158	1.515	9.00	5.05	92.6	468.3	13.34	468	2,365	1,547	543	274	
DF		34	9	85	148	1.427	9.00	4.92	91.7	447.4	12.85	451	2,200	1,491	523	255	
DF		35	4	84	140	.599	4.00	1.80	106.8	505.8	5.46	192	909	634	222	105	
DF		36	4	82	141	.566	4.00	1.70	111.3	516.7	5.39	189	877	625	219	102	
DF		37	1	82	154	.134	1.00	.40	127.8	633.3	1.46	51	254	170	60	30	
DF		38	2	82	136	.254	2.00	.76	119.3	571.7	2.59	91	436	301	105	51	
DF		39	1	85	143	.121	1.00	.36	135.9	690.0	1.40	49	250	162	57	29	
DF		40	1	83	155	.115	1.00	.34	150.6	770.0	1.48	52	265	171	60	31	
DF		42	1	80	155	.104	1.00	.31	160.7	800.0	1.43	50	249	166	58	29	
DF		Totals	190	88	117	86.821	190.00	201.61	42.1	194.1	241.71	8,481	39,129	28,038	9,838	4,539	
NF		18	1	89	92	.566	1.00	1.13	28.8	110.0	.78	33	124	91	38	14	
NF		21	2	90	132	.832	2.00	2.49	36.9	173.3	2.21	92	432	256	107	50	
NF		22	1	91	121	.379	1.00	1.14	37.0	166.7	1.01	42	189	117	49	22	
NF		24	2	91	126	.637	2.00	1.91	47.2	216.7	2.17	90	414	251	105	48	
NF		25	2	89	149	.587	2.00	1.76	58.1	276.7	2.45	102	487	285	119	56	
NF		27	1	85	132	.252	1.00	.75	59.9	253.3	1.08	45	191	126	52	22	
NF		28	1	91	142	.234	1.00	.70	72.7	373.3	1.22	51	262	142	59	30	
NF		31	1	90	150	.191	1.00	.57	94.5	496.7	1.30	54	284	151	63	33	
NF		32	2	90	150	.358	2.00	1.07	100.0	525.0	2.58	107	564	299	125	65	
NF		33	1	88	135	.168	1.00	.51	93.7	466.7	1.14	47	236	132	55	27	
NF		37	1	89	138	.134	1.00	.40	126.1	686.7	1.22	51	276	141	59	32	
NF		38	1	91	154	.127	1.00	.38	140.6	800.0	1.29	54	305	149	62	35	
NF		39	1	91	157	.121	1.00	.48	114.5	652.5	1.32	55	315	154	64	36	
NF		46	1	82	144	.087	1.00	.26	187.2	930.0	1.17	49	242	135	56	28	
NF		Totals	18	90	132	4.670	18.00	13.57	64.3	318.5	20.94	872	4,321	2,429	1,012	501	
WH		13	1	86	53	1.085	1.00	1.08	18.7	60.0	.65	20	65	75	23	8	
WH		15	3	86	90	2.445	3.00	4.07	23.2	84.0	3.03	95	342	351	110	40	
WH		19	1	90	137	.508	1.00	1.52	32.9	156.7	1.60	50	239	186	58	28	

TC		PSTNDSUM		Stand Table Summary										Page		2	
														Date:		7/20/2020	
TT2N RR6W S03 Ty00MC						116.00		Project		MISHMASH			Time:		1:41:02PM		
								Acres		116.00			Grown Year:				
S Sp	T	Tot				Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s			
		DBH	Sample Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
WH		21	3	86	106	1.247	3.00	2.91	40.3	151.4	3.75	117	441	435	136	51	
WH		22	1	83	115	.379	1.00	1.14	36.9	130.0	1.34	42	148	156	49	17	
WH		24	1	89	130	.318	1.00	.95	52.6	253.3	1.61	50	242	187	58	28	
WH		28	1	80	130	.234	1.00	.70	56.9	253.3	1.28	40	178	148	46	21	
WH		32	1	80	122	.179	1.00	.54	84.2	343.3	1.45	45	184	168	52	21	
WH		35	1	86	115	.150	1.00	.45	86.8	400.0	1.25	39	180	145	45	21	
WH		Totals	13	86	97	6.544	13.00	13.37	37.3	150.9	15.95	498	2,018	1,850	578	234	
RA		12	1	87	57	1.273	1.00	1.27	17.9	60.0	.63	23	76	73	26	9	
RA		14	1	92	83	.935	1.00	1.87	13.6	50.0	.70	26	94	81	30	11	
RA		15	1	90	74	.815	1.00	.81	30.2	120.0	.68	25	98	79	29	11	
RA		16	3	92	90	2.149	3.00	4.30	23.8	105.0	2.81	102	451	326	119	52	
RA		18	1	90	75	.566	1.00	1.13	25.3	110.0	.79	29	124	91	33	14	
RA		21	1	92	82	.416	1.00	.83	40.5	165.0	.93	34	137	107	39	16	
RA		23	1	94	96	.347	1.00	.69	55.7	240.0	1.06	39	166	123	45	19	
RA		Totals	9	91	79	6.500	9.00	10.91	25.3	105.1	7.59	276	1,147	881	320	133	
Totals		230		88	114	104.536	230.00	239.46	42.3	194.7	286.19	10,128	46,616	33,198	11,748	5,407	

TC PLOGSTVB		Log Stock Table - MBF																	
TT2N RR6W S03 Ty00MC				116.00		Project: MISHMASH												Page 1	
						Acres		116.00										Date 7/20/2020	
																		Time 1:41:01PM	
Spp	S T	So Gr rt 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+
DF		2M	32	14	3.1	14	.3							14					
DF		2M	40	3,394		3,361	74.0					411		591	1259	796	303		
DF		3M	28	3		3	.1			3									
DF		3M	30	4		4	.1			3	1								
DF		3M	32	19		19	.4			17	3								
DF		3M	34	52		52	1.1			50	2								
DF		3M	36	46		46	1.0			43	3								
DF		3M	38	58		58	1.3			36	22								
DF		3M	40	878		872	19.2			173	334	328		13	8		17		
DF		4M	12	11		11	.2			9	1	1							
DF		4M	14	5		5	.1			5									
DF		4M	16	14		14	.3			14	1								
DF		4M	18	10		10	.2			9	1								
DF		4M	20	11		11	.2			10	1								
DF		4M	22	17		17	.4			16	1								
DF		4M	24	17		17	.4			17									
DF		4M	26	6		6	.1			6									
DF		4M	28	11		11	.2			11									
DF		4M	30	8		8	.2			8									
DF		Totals		4,579		4,539	83.9			426	372	329	411	604	1280	796	320		
NF		2M	34	2		2	.3					2							
NF		2M	36	3		3	.6					3							
NF		2M	40	428		428	85.4					22		60	133	109	85	18	
NF		3M	30	1		1	.2				1								
NF		3M	32	1		1	.3				1								
NF		3M	36	2		2	.3			2									
NF		3M	40	55		55	11.0			4	17	34							
NF		4M	12	0		0	.1				0								
NF		4M	16	1		1	.2			1									
NF		4M	18	2		2	.3			2									
NF		4M	26	1		1	.2			1									
NF		4M	28	2		2	.5			2									
NF		4M	30	3		3	.5			3									
NF		Totals		501		501	9.3			14	20	34	27	60	133	109	85	18	
WH		2M	40	117		116	49.6					23		58	20	16			

TC PLOGSTVB		Log Stock Table - MBF																	
TT2N RR6W S03 Ty00MC 116.00				Project: MISHMASH Acres 116.00										Page 2 Date 7/20/2020 Time 1:41:01PM					
S T  Spp	So Gr rt 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+	
WH	3M	36	3		3	1.2			3										
WH	3M	38	8		8	3.2			8										
WH	3M	40	100		100	42.5			15	21	23	10		14	16				
WH	4M	12	1		1	.3			0	0									
WH	4M	16	1		1	.4			1										
WH	4M	18	2		2	.8			2										
WH	4M	20	1		1	.6			1										
WH	4M	26	2		2	.8			2										
WH	4M	28	1		1	.5			1										
WH	Totals		235		234	4.3			33	21	23	33	58	34	32				
RA	R	20	2		2	1.9			2										
RA	R	22	3		3	2.0			3										
RA	R	24	2		2	1.4			2										
RA	R	30	12		12	8.9					12								
RA	R	34	27	7.5	25	18.7			9					16					
RA	R	38	9		9	6.8			6	3									
RA	R	40	82	2.6	80	60.3				22	27	17	14						
RA	Totals		137	3.0	133	2.5			22	25	27	28	14	16					
Total	All Species		5,452		5,407	100.0			496	439	414	499	736	1464	937	405	18		



## Legend

- Timber Sale Boundary
- Stream Buffer Boundary
- Right-of-Way Boundary
- ==== Surfaced Roads
- - - New Road Construction
- Type-N Stream
- Type-F Stream
- Stream Buffer
- Cable Landing
- Tractor Landing
- ∨ Cable Yarding Area
- ▨ Tractor Yarding Area
- ▨ Reforested Area
- ┌ ┐ ODF Ownership Boundary
- Section Lines
- 40 Foot Countour Band
- 200 Foot Countour Band
- ⚡ Quarry

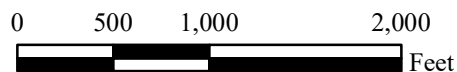
## LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2021-W00260-01  
 MISHMASH  
 PORTIONS OF SECTIONS 34 & 35, T3N, R6W, W.M.,  
 AND PORTIONS OF SECTION 3, T2N, R6W, W.M.,  
 WASHINGTON COUNTY, OREGON

Forest Grove District GIS  
 August, 2020

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



## APPROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	35	81
UNIT 2 (R/W)	2	0
TOTAL	37	81