

District: N Cascade Date: December 10, 2020

## **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,744,556.12	\$0.00	\$2,744,556.12
		Project Work:	\$0.00
		Advertised Value:	\$2,744,556.12



District: N Cascade Date: December 10, 2020

## **Timber Description**

#### Location:

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	97
Western Hemlock / Fir	12	0	95

Volume by Grade	2\$	3S & 4S 6"- 11"	Camprun	SM & Better	Total
Douglas - Fir	8,545	556	60	729	9,890
Western Hemlock / Fir	108	24	1	0	133
Total	8,653	580	61	729	10,023

Comments: Pond Values Used: Local Pond Values, September 2020.

Red alder and other hardwoods stumpage price = Pond Value minus logging cost:

\$259/MBF = \$534/MBF - \$275.00/MBF

Western redcedar and other cedars stumpage price = Pond Value minus logging cost & additional haul cost: \$575/MBF = \$900/MBF - \$275.00/MBF - \$50/MBF additional hauling cost.

SCALING COST ALLOWANCE = \$5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$900 daily truck cost.

Other Costs (with Profit & Risk to be added):

Season 1 Equipment Move-In: Accounted for in Appraisal System

Season 1 Equipment Weed Wash: ((\$120.00/hr loaded transport) + (\$22.00/hr X 2 pilots per piece of equipment)) X 4 hour wash time = \$656.00 X 4 pieces of equipment = \$2,624

Season 2 Equipment Move-In: ((\$120.00/hr loaded transport) + (\$22.00/hr x 2 pilots per piece of equipment)) X 6 hour Move-In Cycle = \$984.00 X 4 pieces of equipment = \$3,936

Season 2 Equipment Weed Wash: ((\$120.00/hr loaded transport) + (\$22.00/hr X 2 pilots per piece of equipment)) X 4 hour wash time = \$656.00 X 4 pieces of equipment = \$2,624

= \$9,184

Non-Project Roads: (See attached Non-Project Roads sheet for costs)

Rocking =  $(35 \text{ station } \times 60 \text{ cy } \times 16 \text{ cy load&haul}) = \$33,600$ 

Construction = (35 station x \$500) = \$17,500

Move-in = \$7,720

Total = \$58,820

TOTAL Other Costs (with Profit & Risk to be added) = \$68,004

Other Costs (No Profit & Risk added):

Additional \$50/mbf for logging = 501,550.00

**ROAD MAINTENANCE:** 

Dust Abatement: 11 stations x .54cents/ft =  $$594 \times 2 = $1,188$ 

Move-in: \$120/hr x 6 hr move/cycle x 1 Grader = \$720

General Road Maintenance: 12.7 miles x \$1,100/mile = \$13,970

Additional Maintenance Rock: 50 loads x (\$25cy load&haul x 10cy/load)=\$12,500

3

TOTAL: \$28,378/10,605.89 MBF = \$2.68/MBF

12/15/20



## Timber Sale Appraisal #1 Stout Creek Restoration

Sale NC-341-2020-W00880-01

District: N Cascade Date: December 10, 2020

#### **Logging Conditions**

Combination#: 1 Douglas - Fir 6.00%

Western Hemlock / Fir 6.00%

**Logging System:** Cable: Small Tower <=40 **Process:** Manual Falling/Delimbing

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

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

loads / day: 7 bd. ft / load: 4500

cost / mbf: \$196.83

machines: Log Loader (A)

Tower Yarder (Small)

Combination#: 2 Douglas - Fir 94.00%

Western Hemlock / Fir 94.00%

Logging System: Shovel Process: Manual Falling/Delimbing

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

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

loads / day: 9 bd. ft / load: 4500

cost / mbf: \$97.22

machines: Shovel Logger



District: N Cascade Date: December 10, 2020

## **Logging Costs**

**Operating Seasons:** 2.00

Profit Risk: 20%

Project Costs: \$0.00 Slash Disposal: \$0.00 Other Costs (P/R): \$68,004.00

**Other Costs:** \$501,150.00

#### Miles of Road

Road Maintenance:

\$2.83

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	4.5
Western Hemlock / Fir	\$0.00	3.0	4.5



# Timber Sale Appraisal #1 Stout Creek Restoration

Sale NC-341-2020-W00880-01

District: N Cascade Date: December 10, 2020

## **Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas -	Fir								
\$103.20	\$2.91	\$0.88	\$72.48	\$6.78	\$37.25	\$0.00	\$2.00	\$50.00	\$275.50
Western H	emlock	/ Fir							
\$103.20	\$2.97	\$0.88	\$73.89	\$6.78	\$37.54	\$0.00	\$2.00	\$50.00	\$277.26

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$552.03	\$276.53	\$0.00
Western Hemlock / Fir	\$0.00	\$350.00	\$72.74	\$0.00



District: N Cascade Date: December 10, 2020

#### **Summary**

#### Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total
Douglas - Fir	9,890	\$276.53	\$2,734,881.70
Western Hemlock / Fir	133	\$72.74	\$9,674.42

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

**Recovery:** \$2,744,556.12

Prepared By: Wyatt Taylor Phone: 503-302-4886

## Non-Project Roads

	#1 \$	Stout Creek Re	storation			
Operator Option			(	Construction Cost		
	Segments	Length	Pit Run 8"-0"	Station		Construct \$
<b>POTENTIAL ROADS:</b>	Potential Roads	35+00	60 cy	\$ 500.00	\$	17,500.00
					\$	-
					\$	-
					\$	-
					\$	-
		35+00	60 cy	500 cy	\$	17,500.00
				Move-in	\$	7,720.00
	TOTALS	0.66	miles	Road Cost	\$	25,220.00
	Total miles	TOT	AL ROCK			
ROCK SOURCES:		Size of Rock	Needed for Roads	Load & Haul		Cost
		8"+ Pit Run	2,100 cy	\$ 16.00	\$	33,600.00
	Location		2,100 cy			
	Polly Pit	_				
	TOTAL	TOTAL	Road Cost	\$ 58,820.00		

	Move in costs										
No.	Equipment Description		ansport Cost	Hours of Transport		Cost to Move	Weedwash Time (Hrs)	i	eedwash Labor 65/hour)	T	otal Cost
1	Grader	\$	175.00	6	\$	1,100.00	0	\$	-	\$	1,100.00
1	Rollers & Compactor	\$	175.00	6	\$	1,100.00	0	\$	-	\$	1,100.00
1	Excavator	\$	175.00	6	\$	1,100.00	3	\$	195.00	\$	1,295.00
1	Small backhoe	\$	175.00	6	\$	1,100.00	3	\$	195.00	\$	1,295.00
1	Tractors Dozer (D5 - D8)	\$	175.00	6	\$	1,100.00	6	\$	390.00	\$	1,490.00
1	Dump Truck (10 cy +)	\$	85.00	2	\$	170.00	0	\$	-	\$	170.00
1	Loader	\$	175.00	6	\$	1,100.00	0	\$	-	\$	1,100.00
0	Road Brusher	\$	175.00	6	\$	1,100.00	3	\$	195.00	\$	-
1	Water Truck (1000 gallon)	\$	85.00	2	\$	170.00	0	\$	-	\$	170.00
								Tota	l one time	\$	7,720.00
						TC	OTAL COSTS	(On	e Time)	\$	7,720.00

#### TIMBER SALE SUMMARY #1 Stout Creek Restoration Contract No. NC-341-2020-W00880-01

- 1. <u>Location</u>: Portions of Section 2, 3 and 4 of T9S, R2E and Portions of Section 34, T8S, R2E, W.M., Marion County, Oregon.
- 2. <u>Type of Sale</u>: This an 11 unit, 275 net acre salvage sale. The timber will be sold on a recovery basis at a sealed bid auction.
- 3. Revenue Distribution: 100% BOF, Marion County, Oregon.
- **4.** <u>Sale Acreage</u>: Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
- **5.** Cruise: The volume was calculated using forest inventory volume analysis.
- **6.** <u>Timber Description</u>: The Timber Sale Area consists primarily of medium stocked 70 year old Douglas-fir that was burned during the Beachie Creek fire in September 2020. The average Douglas-fir DBH is 22". The total estimated net per acre volume is 45.5 MBF/ac.
- 7. Volume Summary: See attached document (Timber Sale Notice).
- **8.** <u>Topography and Logging Method</u>: The average elevation for the Timber Sale is 1,800 feet. Slopes within the sale areas range from 5-35%. The Timber Sale Area is 95% ground-based logging and 5% cable logging.
- 9. Access: The Timber Sale Area is located North of Lyons, Oregon, within Department of Forestry lands on the North Cascade District. Access to the Timber Sale Area is as follows: From the town of Lyons take Highway 226 towards SR 22 for approximately 0.2 mile, then continue across SR 22 onto Wagner Road. Continue on Wagner Road for approximately 2 miles until you reach a yellow gate (A key will be required to gain access to the timber sale area). Continue through the gate approximately 0.26 mile until you reach timber sale boundary signs.

## CRUISE REPORT #1 Stout Creek Restoration Contract No. NC-341-2020-W00880-01

#### 1. Locations:

Portions of Section 2, 3, 4 of T9S, R2E and Portions of Section 34, T8S, R2E, W.M., Marion County, Oregon.

#### 2. Cruise Design:

The cruise design for the timber sale is as follows:

Stand Level Inventory (SLI) measurements were utilized to collect cruise data on the timber sale area. Stand characteristics utilized in this exercise were TPA, BA, Volume/Acre and Average DBH.

#### 3. Sampling Methods:

The timber sale area was imputed from SLI information and past cruise data on an adjacent sale.

#### 4. Cruise Report:

Timber Sale Area:

Stand Characteristic	Stand ID: 12809 Inventory Data
TPA	99
Basal Area/Acre	217 ft <sup>2</sup>
Gross Volume/Acre	45.50 MBF
Average DBH	19"

#### 5. Tree Measurement and Grading:

For information on species and grade breakdown for the timber sale area, data from an adjacent past timber sale was used. 2018 cruise data from the ReStout timber sale was used, which is adjacent to the current timber sale and thought to have the most similar make-up of species and grade breakdown. The percentage of total volume by each species and grade of that respective species was used in this exercise. See Attached Microsoft Excel Volume Summary.

#### 5. **Data Processing:**

- a) **Volumes and Statistics:** Volume estimates and sampling statistics were derived from Stand Level Inventory (SLI) measurements.
- c) Acreage: Timber Sale Area has a total net acres of 275.

#### **SLI Stand Summary For Stout Creek Restoration**

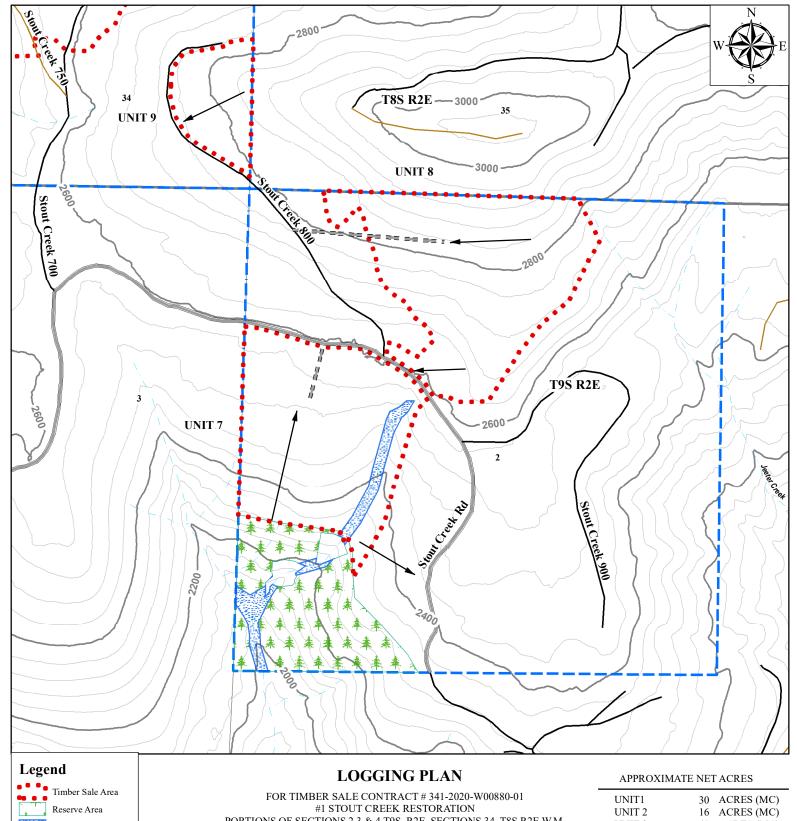
	Avg DBH
DF	22
WH	12
GF	12

Average Net Mbf/Acre	45.5	
Gross SLI Volume	12,528.43	
Leave Tree Retention	20%	
Stratergy and Recovery	20%	

	<u>Grou</u>	ınd Based Lo	gging		<u>!</u>	Cable Logging	<u>.</u>	
Adjusted Volume	9,439.60			Adjusted Volume	583.14			
	<u>Grade</u>	<u>Volume</u>	<u>Percentage</u>		<u>Grade</u>	<u>Volume</u>	<u>Percentage</u>	<b>Combined</b>
DF	3р	15.36	0.16%	DF	3р	0.95	0.16%	16.31
	Special Mill	670.85	7.11%		Special Mill	41.44	7.11%	712.30
	Camp Run	56.48	0.60%		Camp Run	3.49	0.60%	59.97
	2 Saw	8,048.20	<i>85.26%</i>		2 Saw	497.19	85.26%	8,545.38
	3 Saw	447.40	4.74%		3 Saw	27.64	4.74%	475.04
	4 Saw	76.29	0.81%		4 Saw	4.71	0.81%	81.01
								-
WH	Camp Run	0.95	0.01%	WH	Camp Run	0.06	0.01%	1.01
	2 Saw	89.80	0.95%		2 Saw	5.55	0.95%	95.35
	3 Saw	14.15	0.15%		3 Saw	0.87	0.15%	15.03
	4 Saw	7.20	0.08%		4 Saw	0.44	0.08%	7.64
								-
GF	Camp Run	0.07	0.00%	GF	Camp Run	0.00	0.00%	0.08
	2 Saw	12.03	0.13%		2 Saw	0.74	0.13%	12.78
	3 Saw	0.68	0.01%		3 Saw	0.04	0.01%	0.72
	4 Saw	0.13	0.00%		4 Saw	0.01	0.00%	0.14
	<b>Ground Total</b>	9,439.60			Cable Total	583.14		

10,022.74

**Total Net Sale Volume** 





Nonfish

■■ ■ Non Project Roads

Road

Mainline Road

All Weather

Dirt Road

Contour

200ft Index

40ft Intermediate

PORTIONS OF SECTIONS 2,3 & 4 T9S, R2E, SECTIONS 34, T8S R2E W.M. MARION COUNTY, OREGON

> North Cascade District GIS November, 2020

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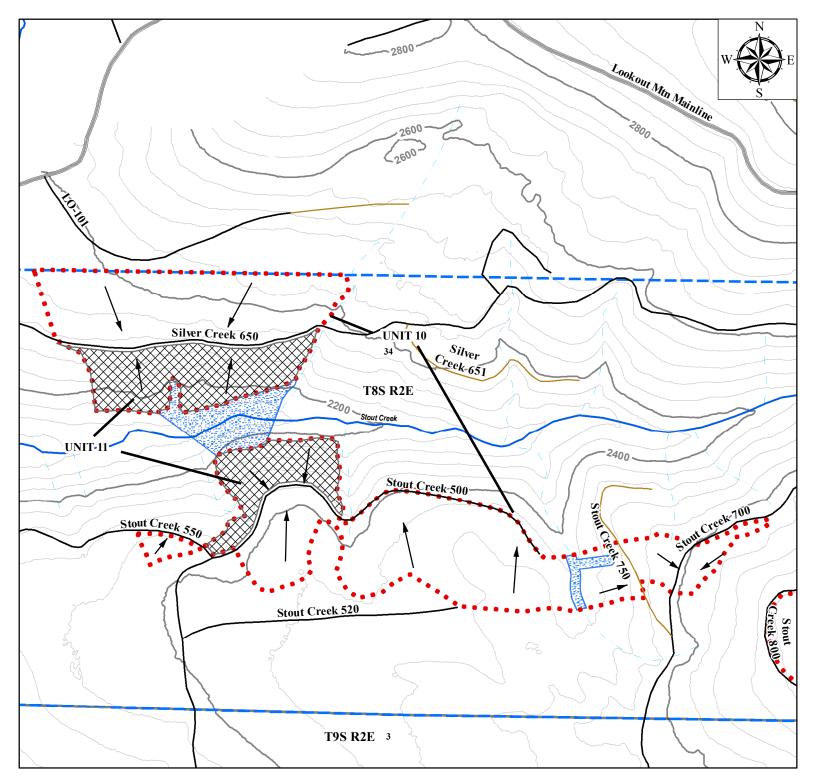
1:6,500

1 inch = 542 feet

0	450	900
		Feet Feet

UNIT1	30	ACRES (MC)
UNIT 2	16	ACRES (MC)
UNIT 3	41	ACRES (MC)
UNIT 4	9	ACRES (MC)
UNIT 5	45	ACRES (MC)
UNIT 6	23	ACRES (MC)
UNIT 7	21	ACRES (MC)
UNIT 8	25	ACRES (MC)
UNIT 9	6	ACRES (MC)
UNIT 10	44	ACRES (MC)
UNIT 11	16	ACRES (MC)
TOTAL	275	ACRES

Map Projection: Oregon Statewide Lambert International Feet, NAD 1983





#### **LOGGING PLAN**

FOR TIMBER SALE CONTRACT # 341-2020-W00880-01 #1 STOUT CREEK RESTORATION PORTIONS OF SECTIONS 2,3 & 4 T9S, R2E, SECTIONS 34, T8S R2E W.M. MARION COUNTY, OREGON

> North Cascade District GIS November, 2020

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1:7,000

1 inch = 583 feet

0	480	960
		Feet Feet

APPROXIMATE	NET ACRES

UNIT1	30	ACRES (MC)
UNIT 2	16	ACRES (MC)
UNIT 3	41	ACRES (MC)
UNIT 4	9	ACRES (MC)
UNIT 5	45	ACRES (MC)
UNIT 6	23	ACRES (MC)
UNIT 7	21	ACRES (MC)
UNIT 8	25	ACRES (MC)
UNIT 9	6	ACRES (MC)
UNIT 10	44	ACRES (MC)
UNIT 11	16	ACRES (MC)
TOTAL	275	ACRES

Map Projection: Oregon Statewide Lambert International Feet, NAD 1983

