Timber Sale Appraisal
Strube Flats Deck
Sale SW-341-2019-W00403-01

District: S Cascade

Date: December 21, 2018

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$316,160.44	$388.75	$316,549.19
		Project Work:	$0.00
		Advertised Value:	$316,549.19

Timber Sale Appraisal
Strube Flats Deck

Sale SW-341-2019-W00403-01

District: S Cascade **Date: December 21, 2018**

Timber Description

Location: Section 30 of T16S R5E W.M.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	1	0	100
Western Hemlock / Fir	1	0	100
Red Cedar	1	0	100
Maple	1	0	100

Volume by Grade	Camprun	Total
Douglas - Fir	943	943
Western Hemlock / Fir	49	49
Red Cedar	68	68
Maple	5	5
Total	1,065	1,065

Comments: Log Decks with Loading and Hauling costs no logging costs.

Road Maintenance:
Applying 40 Cubic Yards of Pre-Operational Rock= $1,480
Road Brushing on 'Strube Road'= $619
Supplying water to 'Strube Road'= $100
TOTAL= $2,199 = $2.06/MBF

Other Costs:
40 Cubic Yards of rock to be applied during operations= $1,480

Timber Sale Appraisal
Strube Flats Deck

Sale SW-341-2019-W00403-01

District: S Cascade

Date: December 21, 2018

Logging Conditions

Combination#: 1	Douglas - Fir	100.00%	
	Western Hemlock / Fir	100.00%	
	Red Cedar	100.00%	
	Maple	100.00%	

Logging System: Shovel

Process: Manual Falling/Delimbing

yarding distance: Short (400 ft)

downhill yarding: No

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

loads / day: 18.5

bd. ft / load: 4100

cost / mbf: $51.91

machines: Shovel Logger

Timber Sale Appraisal
Strube Flats Deck
Sale SW-341-2019-W00403-01

District: S Cascade **Date: December 21, 2018**

Logging Costs

Operating Seasons:	1.00	**Profit Risk:**	10%
Project Costs:	$0.00	**Other Costs (P/R):**	$0.00
Slash Disposal:	$0.00	**Other Costs:**	$1,480.00

Miles of Road

Road Maintenance: $2.06

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	4.1
Western Hemlock / Fir	$0.00	3.0	4.1
Red Cedar	$0.00	1.0	4.1
Maple	$0.00	3.0	4.1

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Strube Flats Deck
Sale SW-341-2019-W00403-01

District: S Cascade **Date: December 21, 2018**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$51.91	$2.06	$4.12	$77.24	$0.00	$13.53	$0.00	$2.00	$1.39	$152.25
Western Hemlock / Fir									
$51.91	$2.06	$4.12	$77.24	$0.00	$13.53	$0.00	$2.00	$1.39	$152.25
Red Cedar									
$51.91	$2.06	$4.12	$231.71	$0.00	$28.98	$0.00	$2.00	$1.39	$322.17
Maple									
$51.91	$2.06	$4.12	$77.24	$0.00	$13.53	$0.00	$2.00	$1.39	$152.25

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$450.00	$297.75	$0.00
Western Hemlock / Fir	$0.00	$350.00	$197.75	$0.00
Red Cedar	$0.00	$700.00	$377.83	$0.00
Maple	$0.00	$230.00	$77.75	$0.00

Timber Sale Appraisal
Strube Flats Deck
Sale SW-341-2019-W00403-01

District: S Cascade **Date: December 21, 2018**

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00
Western Hemlock / Fir	0	$0.00	$0.00
Red Cedar	0	$0.00	$0.00
Maple	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	943	$297.75	$280,778.25
Western Hemlock / Fir	49	$197.75	$9,689.75
Red Cedar	68	$377.83	$25,692.44
Maple	5	$77.75	$388.75

Gross Timber Sale Value

Recovery: $316,549.19

Prepared By: Kyle Sullivan **Phone:** 541-285-8685

Strube Flats Deck Cruise Report

Douglas fir – 943 MBF
Western redcedar and other cedars – 68 MBF
Western hemlock and other conifers – 49 MBF
Bigleaf maple and other hardwoods – 5 MBF

Total – 1,065 MBF

Volumes were obtained using the formula (Length x Width x Height) measured from portions of decks to arrive at a gross cubic volume. Estimated area with empty space (voids) as a percentage of the cubic volume was estimated and then taken out to then obtain a solid gross volume of logs. Finally, an estimate of defect was removed from the gross volume to obtain a net volume. Some additional defect was assessed to certain species in a given deck. MBF volume was obtained using the conversion of 0.52 to get from CCF to MBF.

Deck #1

(143' x 41' x 14')= 821 CCF Douglas-fir 98%/Cedar 2%

821 CCF x 0.70 = 575 CCF x 0.98 = 564 CCF x 0.52 = 293 MBF 30% Void/2% Defect

DF= 287 MBF

Cedar= 6 MBF

Deck #2

(177' x 27' x 13') = 621 CCF Douglas-fir 60%/ Cedar 20%/ Hemlock and other conifers 20%

621 CCF x 0.60 = 373 CCF x 0.90 = 335 CCF x 0.52 = 174 MBF 40% Void/10% Defect

DF= 105 MBF

Cedar= 35 MBF

WH and other conifers= 34 MBF

Deck #3

(336' x 35' x 10') = 1,176 CCF Douglas-fir 95% / Cedar 5% (added 35% defect)

1,176 CCF x 0.65 = 764 CCF x 0.95 = 726 CCF x 0.52 = 378 MBF 35% Void/5% Defect

DF= 359 MBF

Cedar= 12 MBF (with added 35% defect)

Deck #4

(145’ x 35’ x 10’) = 508 CCF Douglas-fir 85%/Cedar 10% (added 25% defect)/Hemlock and other conifers 5%

508 CCF x 0.60 = 305 CCF x 0.95 = 290 CCF x 0.52 = 151 MBF 40% Void/5% Defect

DF= 128 MBF

Cedar= 10 MBF (with added 25% defect)

Hem and other= 8 MBF

Deck #5

(80’ x 20’ x 8’) = 128 CCF Douglas-fir 90%/Cedar 8% (added 27% defect)/Hemlock and other conifers 2% (added 27% defect)

128 CCF x 0.70 = 90 CCF x 0.97 = 87 CCF x 0.52 = 45 MBF 30% Void/3% Defect

DF= 41 MBF

Cedar= 3 MBF (with added 27% defect)

Hem and other= 1 MBF (with added 27% defect)

Deck #6

(60’ x 26’ x 4’) = 62 CCF Douglas-fir 90 %/Cedar 5% Hemlock and other conifers 5%

62 CCF x 0.5 = 31 CCF x 0.98 = 30 CCF x 0.52 = 16 MBF 50% Void/2% Defect

DF= 14 MBF

Cedar= 1 MBF

Hem and other= 1 MBF

Deck #7

(50’ x 25’ x 4’) = 50 CCF Douglas-fir 45%/Hemlock and other conifers 25%/Maple and other hardwoods 25%/Cedar 5%

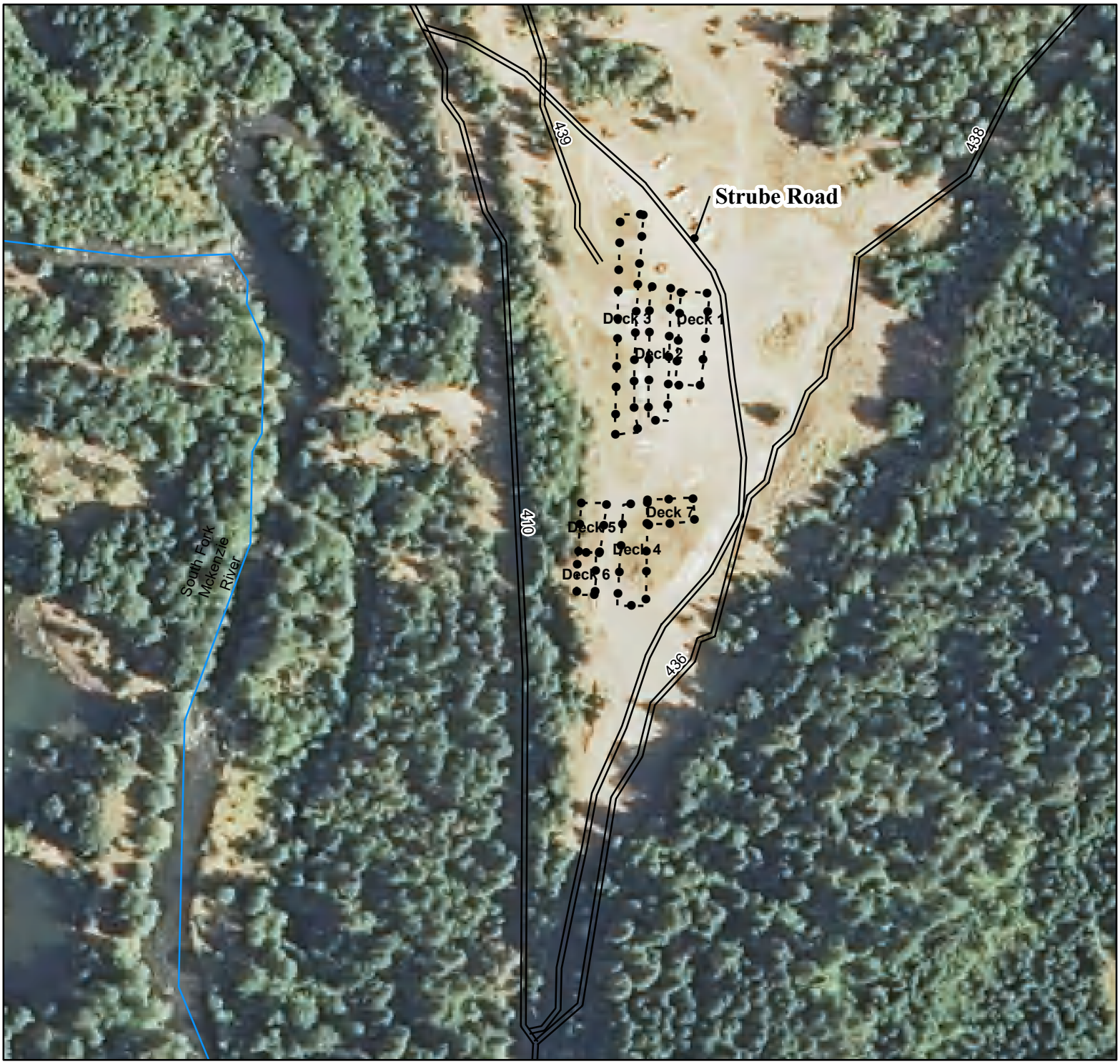
50 CCF x 0.75 = 38 CCF x 0.95 = 36 CCF x 0.52 = 19 MBF 25% Void/5% Defect

DF=9 MBF

Hem and other conifer= 5 MBF

Maple and other hardwood= 5 MBF

Cedar = 1 MBF



Logging Plan

Sale No. SW-341-2019-W00409-01
Strube Flats Deck Timber Sale
Sections 30, T16S, R5E, W.M.
Lane County, Oregon
Regulated Use Area EL-1
Willamette National Forest

Legend

- Timber Sale Boundary
- Road
- Stream

N
W E
S

0 200 400 800 1,200 Feet

The information shown on Exhibit "A" map(s) are approximate locations. Exact locations of features represented by map symbols will be determined on site and shall depend upon the conditions that exsist on site. Activities shall be conducted based upon features determined on site rather than features shown on maps.