Timber Sale Appraisal
Lost Steere

Sale WO-341-2020-W00777-01

District: West Oregon

Date: January 10, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$566,717.40	$8,742.15	$575,459.55
		Project Work:	($62,396.00)
		Advertised Value:	$513,063.55

Timber Sale Appraisal
Lost Steere
Sale WO-341-2020-W00777-01

District: West Oregon **Date: January 10, 2020**

Timber Description

Location: Portions of Sections 10 & 11, T10S, R8W, W.M., Lincoln & Polk Counties, Oregon.

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	96
Alder (Red)	16	0	95
Maple	14	0	92

Volume by Grade	2S	3S & 4S 6"-11"	SM & Better	Camprun	Total
Douglas - Fir	811	617	8	0	1,436
Alder (Red)	0	0	0	47	47
Maple	0	0	0	12	12
Total	811	617	8	59	1,495

Comments: Pond Values Used: Local Pond Values, November, 2019

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
$188.54/MBF = $485/MBF - $296.46/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$653.54/MBF = $1,100/MBF - $296.46/MBF - $150/MBF (Extra Haul Cost)

Bigleaf Maple and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
$58.41/MBF = $390/MBF - $331.59/MBF

PULP (Conifer and Hardwood Price) = $3/TON

Other Costs (with Profit & Risk to be added):
Intermediate Support/Tail Trees: 3 supports @ $100/support = $300
TOTAL Other Costs (with Profit & Risk to be added) = $300

Other Costs (No Profit & Risk added):
Equipment Cleaning (Invasive Species): $2,000
Water Bar and Block Dirt Roads: 25 stations @ $15.96/station = $399.00
Landing Slash Piling: 10 Landings @ 100/Landing = $1,000
TOTAL Other Costs (No Profit & Risk added) = $3,399

ROAD MAINTENANCE
Move-in: (Grader) $875
Final Road Maintenance: $8,853
TOTAL Road Maintenance: $9,728/1,495 MBF = $6.51/MBF

SLASH DISPOSAL
Use Log Loader
Project Work: 8 hrs @ $150/hr = $1,200
TOTAL Slash Disposal = $1,200

District: West Oregon **Date: January 10, 2020**

Logging Conditions

Combination#: 1

Douglas - Fir	92.00%
Alder (Red)	92.00%
Maple	92.00%

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

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

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

loads / day: 12 **bd. ft / load:** 4600

cost / mbf: $140.95

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

Combination#: 2

Douglas - Fir	8.00%
Alder (Red)	8.00%
Maple	8.00%

Logging System: Shovel **Process:** Harvester Head Delimbing

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

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 15 **bd. ft / load:** 3800

cost / mbf: $93.76

machines: Forwarder
Harvester

Timber Sale Appraisal
Lost Steere
Sale WO-341-2020-W00777-01

District: West Oregon **Date: January 10, 2020**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	10%
Project Costs:	$62,396.00	**Other Costs (P/R):**	$300.00
Slash Disposal:	$1,200.00	**Other Costs:**	$3,399.00

Miles of Road **Road Maintenance:** $6.51

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	4.3
Alder (Red)	$0.00	2.0	3.5
Maple	$0.00	2.0	3.5

Timber Sale Appraisal
Lost Steere

Sale WO-341-2020-W00777-01

District: West Oregon

Date: January 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									
$137.17	$6.77	$5.87	$114.89	$0.20	$26.49	$0.80	$2.00	$2.27	$296.46
Alder (Red)									
$137.17	$6.84	$5.87	$142.50	$0.20	$29.26	$0.80	$2.00	$2.27	$326.91
Maple									
$137.17	$7.03	$5.87	$146.57	$0.20	$29.68	$0.80	$2.00	$2.27	$331.59

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$691.11	$394.65	$0.00
Alder (Red)	$0.00	$498.00	$171.09	$0.00
Maple	$0.00	$390.00	$58.41	$0.00

Timber Sale Appraisal
Lost Steere
Sale WO-341-2020-W00777-01

District: West Oregon **Date: January 10, 2020**

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00
Alder (Red)	0	$0.00	$0.00
Maple	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,436	$394.65	$566,717.40
Alder (Red)	47	$171.09	$8,041.23
Maple	12	$58.41	$700.92

Gross Timber Sale Value

Recovery: $575,459.55

Prepared By: Aaron McEwen **Phone:** 541-929-3266

SUMMARY OF ALL PROJECT COSTS

Sale Name: Lost Steere

Date: January 2020
Time: 7:12

Project #1 - New Construction

Road Segment	Length	Cost
A to B	25.0 sta	$10,742

$10,742

Project #2 - Road Improvement

Road Segment	Length	Cost
1 to 2 (Lost Steere Rd.)	97.7 sta	$23,649
2 to 3	36.4 sta	$5,516
4 to 5	7.0 sta	$10,692
2 to A	17.2 sta	$7,692

$47,549

Project #5 - Move in

	Cost
Excavator, C325 or equiv.	$1,450
Dozer, D-7 or equiv.	$905
Grader, Cat 14-G or equiv.	$875
Vibratory roller	$875
TOTAL	$4,105

$62,396

Compiled by A. McEwen Date 01/15/2020

SUMMARY OF CONSTRUCTION COST

SALE Lost Steere Project # 1 LENGTH const 25.0 sta

ROAD A to B (Unsurfaced)

CLEARING AND GRUBBING

1.5	acres	@	$1,337.00	/acre	=	$2,006

TOTAL CLEARING AND GRUBBING = $2,006

EXCAVATION With D7 dozer or equivalent

Construct road	25.0	sta	@	$214.00	/sta	=	$5,350
Remove Lg. stumps	8	stmps	@	$82.50	/stmps	=	$660
Construct Landing	3	ldg	@	$438.00	/ldg	=	$1,314
Shape subgrade (with road grader)	25.0	sta	@	$20.63	/sta	=	$516
Compact subgrade (with vibratory roller)	25.0	sta	@	$16.00	/sta	=	$400

TOTAL EXCAVATION = $8,240

SURFACING

				Size	Cost/yd		
Junction rock	20	cy of		3"-0"	$23.89	=	$478
Process surface rock (with road grader)	0.5	sta	@	$20.63	/sta	=	$10
Compact surface (with vibratory roller)	0.5	sta	@	$16.00	/sta	=	$8

TOTAL SURFACING COST = $496

Compiled by: A. McEwen
Date: Jan 15, 2020

GRAND TOTAL =====> $10,742

SUMMARY OF CONSTRUCTION COST

SALE	Lost Steere	Project # 2	LENGTH improve		97.7 sta
ROAD	1 to 2	(Lost Steere Rd.)			

EXCAVATION — Medium size excavator (C325) and D7 cat or equivalent

Sidecast pullback (Sta. 90+70 to 91+30)	2 hr	@	$140.00	/hr	=	$280
Slough removal / Road realignment (with excavator)	6 hr	@	$140.00	/hr	=	$840
End-haul excavation (Sta. 90+50 to 92+00) (with excavator and dump truck)	140 cy	@	$4.50	/cy	=	$630
Waste material compaction	140 cy	@	$0.45	/cy	=	$63
Shape subgrade (with road grader)	1.5 sta	@	$20.63	/sta	=	$31
Compact subgrade (with vibratory roller)	1.5 sta	@	$16.00	/sta	=	$24
Yarder Pad Creation (Sta. 71+90)	2 hr	@	$140.00	/hr	=	$280
End-haul excavation (Sta. 71+90) (with excavator and dump truck)	30 cy	@	$4.50	/cy	=	$135
				TOTAL EXCAVATION =		$2,283

IMPROVEMENT

Sod removal (Bridge to Pt. 2)	87.7 sta	@	$15.40	/sta	=	$1,351
Pull ditches where needed	20.0 sta	@	$44.00	/sta	=	$880
Repair culvert inlet (Sta. 76+70)	1 hr	@	$45.00	/hr	=	$45
Reopen Landings (2) (with Dozer)	1 hr	@	$162.00	/hr	=	$162
				TOTAL IMPROVEMENT =		$2,438

Culvert Replacement
Sta. 91+60

18"x40' CPP	40 ft	@	$12.06	/ft =	$482
Replace pipe and reconstruct fill	4 hr	@	$140.00	/hr =	$560
Armor fill	2 hr	@	$140.00	/hr =	$280
Install dissipater	0.5 hr	@	$140.00	/hr =	$70
			TOTAL =		$1,392

SURFACING

			Size	Cost/yd		
Spot rock (Pt. 1 to Pt. 2)	330 cy of		1½"-0"	$25.21	=	$8,319
Landing rock	40 cy of		Jaw-Run	$22.89	=	$916
Turnout rock (6)	60 cy of		3"-0"	$23.89	=	$1,433
Surface replacement rock (Sta. 90+50 to 92+00)	60 cy of		3"-0"	$23.89	=	$1,433
Culvert bedding	20 cy of		1½"-0"	$30.77	=	$615
Pit run (fill armor)	30 cy of		Pit-Run	$27.12	=	$814
Dissipator rock	7 cy of		24"-6"	$39.42	=	$276
Process surface rock (with road grader)	95.7 sta	@	$20.63	/sta	=	$1,974
Compact surface (with vibratory roller)	95.7 sta	@	$16.00	/sta	=	$1,531
				TOTAL ROCK COST =		$17,311

SPECIAL PROJECTS

Clean out culverts (inlets and outlets)	5 culverts	@	$25.00	/culv.	=	$125
Culvert disposal (Hauling and disposal)	1 culvert	@	$100.00	/culv.	=	$100
			TOTAL SPECIAL PROJECTS COST =			$225

Compiled by: A. McEwen
Date: Jan 15, 2020

GRAND TOTAL =====> $23,649

SUMMARY OF CONSTRUCTION COST

SALE	Lost Steere		Project # 2	LENGTH improve		36.4 sta
ROAD	2 to 3	(Surfaced)				

IMPROVEMENT

Sod removal	36.4 sta	@	$15.40 /sta	=	$561	
Reopen Landings (2) (with Dozer)	1 hr	@	$162.00 /hr	=	$162	
			TOTAL IMPROVEMENT =			$723

SURFACING

			Size	Cost/yd		
Spot rock	100	cy of	3"-0"	$29.45	=	$2,945
Landing rock (2)	40	cy of	Jaw-Run	$28.45	=	$1,138
Process surface (with road grader)	19.4 sta	@	$20.63 /sta		=	$400
Compact surface (with vibratory roller)	19.4 sta	@	$16.00 /sta		=	$310
			TOTAL ROCK COST =			$4,793

Compiled by: A. McEwen
Sta. 91+60 Jan 15, 2020

GRAND TOTAL =====> $5,516

SUMMARY OF CONSTRUCTION COST

SALE	Lost Steere		Project # 2	LENGTH improve		7.0 sta
ROAD	4 to 5	(Surfaced)				

IMPROVEMENT

Clear road and Landings (with Dozer)	3.0 hrs	@	$162.00	/hr	=	$486
Shape subgrade (with road grader)	7.0 sta	@	$20.63	/sta	=	$144
Compact subgrade (with vibratory roller)	7.0 sta	@	$16.00	/sta	=	$112
				TOTAL IMPROVEMENT	=	$742

SURFACING

			Size	Cost/yd		
Surface rock (6" lift)	230	cy of	Jaw-Run	$28.45	=	$6,544
Junction rock	20	cy of	3"-0"	$29.45	=	$589
Landing rock (3)	90	cy of	Jaw-Run	$28.45	=	$2,561
Process surface (with road grader)	7.0 sta	@	$20.63	/sta	=	$144
Compact surface (with vibratory roller)	7.0 sta	@	$16.00	/sta	=	$112
				TOTAL ROCK COST	=	$9,950

Compiled by: A. McEwen
Date: Jan 15, 2020

GRAND TOTAL =====> $10,692

SUMMARY OF CONSTRUCTION COST

SALE	Lost Steere	Project # 2	LENGTH	improve	17.2 sta
ROAD	2 to A	(Surfaced)			

EXCAVATION Medium size excavator (C325) and D7 cat or equivalent

Slough removal (Sta. 5+40) (with excavator)	1 hr	@	$140.00	/hr	=	$140	
End-haul slough material (with excavator and dump truck)	30 cy	@	$3.00	/cy	=	$90	
Waste material compaction	30 cy	@	$0.45	/cy	=	$14	
				TOTAL EXCAVATION =			$244

IMPROVEMENT

Sod removal (with road grader)	17.2 sta	@	$15.40	/sta	=	$265	
Waste Area Creation	0.5 hr	@	$162.00	/hr	=	$81	
				TOTAL IMPROVEMENT =			$346

Culvert Replacement
Sta. 2+60

18"x 30' CPP	30 ft	@	$12.06	/ft	=	$362	
Replace pipe and reconstruct fill	3 hr	@	$140.00	/hr	=	$420	
Armor fill	2 hr	@	$140.00	/hr	=	$280	
Install dissipator	0.5 hr	@	$140.00	/hr	=	$70	
				SUB TOTAL =			$1,132

SURFACING

			Size	Cost/yd			
Spot rock	80	cy of	3"-0"	$29.45	=	$2,356	
Turnout rock (1)	10	cy of	3"-0"	$29.45	=	$295	
Surface replacement rock (Sta. 2+60)	30	cy of	3"-0"	$29.45	=	$884	
Culvert bedding	20	cy of	1½"-0"	$30.77	=	$615	
Pit run (fill armor)	30	cy of	Pit-Run	$27.12	=	$814	
Dissipator rock	7	cy of	24"-6"	$39.42	=	$276	
Process surface (with road grader)	17.2 sta	@	$20.63	/sta	=	$355	
Compact surface (with vibratory roller)	17.2 sta	@	$16.00	/sta	=	$275	
				TOTAL ROCK COST =			$5,870

Culvert disposal (Hauling and disposal)	1 culvert	@	$100.00	/culv.	=	$100	$100

Compiled by: A. McEwen
Date: Jan 15, 2020

GRAND TOTAL =====> $7,692

Rock Haul Cost Computation

SALE NAME:	Lost Steere	DATE:	Jan 15, 2020
ROAD NAME:	Lost Steere Rd	CLASS:	Medium
ROCK SOURCE:	Rickard		10 CY truck
Route:	Garrett Lane, Hwy 20, Eddyville-Blodgett Hwy, Logsden Rd, Steer Creek Rd, Lost Steere Rd (52.8 miles RT)		

TIME Computation:
Road speed time factors:

1.	55 MPH	14.0	MRT	15.3	minutes
2.	50 MPH		MRT	0.0	minutes
3.	45 MPH	12.0	MRT	16.0	minutes
4.	40 MPH		MRT	0.0	minutes
5.	35 MPH	14.0	MRT	24.0	minutes
6.	30 MPH		MRT	0.0	minutes
7.	25 MPH	8.0	MRT	19.2	minutes
8.	20 MPH		MRT	0.0	minutes
9.	15 MPH	4.4	MRT	17.6	minutes
10.	10 MPH		MRT	0.0	minutes
11.	05 MPH	0.4	MRT	4.8	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		97.40	minutes
Operator efficiency correction	0.85	114.59	minutes
Job efficiency correction	0.90	127.32	minutes
Truck capacity (CY)	10.00	12.73	min/CY
Loading time, delay time per CY		0.25	min/CY
TIME (minutes) per cubic yard		12.98	min/CY

COST per CY computation

Cost of truck and operator per hour	$90.00	/hr.
Cost of truck and operator per minute	$1.50	/min
	$19.47	/CY
Water truck, Grader & Roller	$1.50	/CY

Size	**Cost/Yd (Pit)**	**Cost Delivered w/o processing**	**Cost Delivered with processing**
1½ - 0"	$ 11.30	$30.77	$32.27
3 - 0"	$ 9.98	$29.45	$30.95
Jaw Run	$ 8.98	$28.45	$29.95
Pit-Run	$ 7.65	$27.12	$28.62
Rip-rap	$ 19.95	$39.42	

Rock Haul Cost Computation

SALE NAME: Lost Steere DATE: Jan 15, 2020
ROAD NAME: Lost Steere Rd CLASS: Medium
ROCK SOURCE: Rickard Quarry 20 CY truck
Route: Garrett Lane, Hwy 20, Eddyville-Blodgett Hwy, Logsden Rd, Steer Creek Rd, Lost Steere Rd (52.8 miles RT)

TIME Computation:
Road speed time factors:

1.	55 MPH	14.0	MRT	15.3 minutes
2.	50 MPH		MRT	0.0 minutes
3.	45 MPH	12.0	MRT	16.0 minutes
4.	40 MPH		MRT	0.0 minutes
5.	35 MPH	14.0	MRT	24.0 minutes
6.	30 MPH		MRT	0.0 minutes
7.	25 MPH	8.0	MRT	19.2 minutes
8.	20 MPH		MRT	0.0 minutes
9.	15 MPH	4.4	MRT	17.6 minutes
10.	10 MPH		MRT	0.0 minutes
11.	05 MPH	0.4	MRT	4.8 minutes

Dump or spread time per RT 0.50 minutes
Total hauling cycle time for this setting (100% efficiency) 97.40 minutes

Operator efficiency correction 0.85 114.59 minutes
Job efficiency correction 0.90 127.32 minutes

Truck capacity (CY) 18.00 7.07 min/CY
Loading time, delay time per CY 0.25 min/CY
TIME (minutes) per cubic yard 7.32 min/CY

COST per CY computation
Cost of truck and operator per hour $114.00 /hr.
Cost of truck and operator per minute $1.90 /min

Cost per CY $13.91 /CY

Spread and compact Water truck, Grader & Roller $1.50 /CY

Size	**Cost/Yd (Pit)**	**Cost Delivered w/o processing**	**Cost Delivered with processing**
1½ - 0"	$ 11.30	$25.21	$26.71
3 - 0"	$ 9.98	$23.89	$25.39
Jaw Run	$ 8.98	$22.89	$24.39
Pit-Run	$ 7.65	$21.56	$23.06

SUMMARY OF MAINTENANCE COST

SALE Lost Steere - Final Maintenance Cost Estimate

(Costed in appraisal, not in project costs)

Grading

Move-in	
Grader	$ 875

Road Segment	Length	Cost/Sta	Cost	Mileage
1 to 2	97.7	$20.63	$2,015.55	1.85
2 to 3	36.4	$20.63	$750.93	0.69
4 to 5	7	$20.63	$144.41	0.13
2 to A	17.2	$20.63	$354.84	0.33
Total	158.3		$3,265.73	3.00

Maintenance Rock:

	Volume	Cost/CY	Cost
1½"-0"	60	$30.77	$1,846.20
1½"-0"	90	$25.21	$2,268.90
3"-0"	50	$29.45	$1,472.50
Grand Total			$9,728
TS Volume	1,495	MBF	
Cost / MBF =			$6.51

NOTES: Grade surfacing rock on all roads used for hauling.

Lost Steere (WO-341-2020-W00777-01)
FY 2019

TIMBER CRUISE REPORT

1. **Sale Area Location**: Portions of Sections 10 & 11, T10S, R8W, W.M., Polk and Lincoln Counties, Oregon.

2. **Fund Distribution:**
   a. **Fund** CSL 99%, BOF < 1%
   b. **Tax Code**

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Stream Buffers	Slope Buffer Acres	Existing Roads	Non-Stocked Acres	Net Sale Acres	Acreage Comp. Method
1	**Modified Clearcut**	35	13	1	1	0	20	Ortho photo, GIS, GPS
2	**Modified Clearcut**	37	5	<1	2	2	28	Ortho photo, GIS, GPS
3 R/W	**Right-of-way**	1	---	---	---	---	1	Ortho photo, GIS, GPS
Total		73	18	1	3	2	49	

4. **Cruisers and Cruise Dates:** All sale areas were cruised by Aaron McEwen and Jon Long. Both areas were cruised in April of 2019.

5. **Cruise Method and Computation:** Areas 1 and 2 of the sale were cruised using variable radius plot sampling using a 40 BAF for conifers and hardwoods. A total of 24 plots were taken in Area 1 consisting of 13 measure and 11 count plots spaced 3 chains by 3 chains apart, which includes 2 plots (1 measure and 1 count) taken in the younger timber in the north of the area. A total of 24 plots were taken in Area 2 consisting of 12 measure and 12 count plots spaced 3 chains by 3 chains apart. In Area 2, plot #'s 5 and 6 were dropped due to being within a non-stocked area that was removed from the net acreage. Area 3 was ITS (Individual Tree Sample) cruised measuring every third Douglas-fir for DBH, height, form factor, grade, and defect.

   Digital ortho photos, LiDar, and ArcMap 10.6 were used to map the boundaries for the sale, and ArcMap 10.6 was used to determine gross and net acreage.

6. **Measurement Standards:** Measure plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury SuperACE cruise program to determine stand statistics and net board foot volume. Additional volume was removed to account for hidden defect and breakage.

7. **Timber Description:** Timber in sale areas 1 and 2 consists primarily of 58 year-old planted Douglas-fir and natural hardwoods. The average DBH of Douglas-fir in Area 1 is approximately 17 inches, and approximately 17 inches DBH for red alder. The average volume per acre of Douglas-fir to be harvested (net) in Area 1 is approximately 41 MBF, and 1 MBF of red alder and bigleaf maple. The average DBH of Douglas-fir for Area 2 is approximately 18 inches, and approximately 16 inches DBH for red alder. The average volume per acre of Douglas-fir to be harvested (net) in Area 2 is approximately 22 MBF, and 1 MBF of red alder and bigleaf maple. Western Hemlock are reserved from cutting in sale areas 1 and 2. Timber in sale area 3 consists of 31 year-old planted Douglas-fir. The average DBH of Douglas-fir in Area 3 is approximately 13 inches, and the average volume per acre of Douglas-fir to be harvested (net) is approximately 12 MBF.

8. Total Volume (MBF) by Species and Grade: (See attached volume report "Species, Sort Grade – Board Foot Volumes - Project").

Area	Species	Gross Cruise Volume	Cruised D&B	Cruised D&B (MBF)	Hidden D&B	Hidden D&B (MBF)	Net Sale Volume
1	Douglas-fir	843	2.9%	(24)	1%	(8)	811
	Red alder	17	12.5%	(2)	1%	-	15
	Bigleaf maple	7	16.5%	(1)	1%	-	6
2	Douglas-fir	630	1.8%	(11)	1%	(6)	613
	Red alder	36	12.2%	(4)	1%	-	32
	Bigleaf maple	6	0%	-	1%	-	6
3	Douglas-fir	12	2%	-	-	-	12
Total		1,551	2.7%	(42)	1%	(14)	1,495

Grade % Breakdown / Volume by Grade

Area	Species	Ave. DBH	Tot. Net Vol.	2-Saw	3-Saw	4-Saw	SM	Camp Run
1	Douglas-fir	17	Grade %	57%	37%	5%	1%	-
			811	462	300	41	8	-
	Red alder	17	Grade %	-	-	-	-	100%
			15	-	-	-	-	15
	Bigleaf maple	14	Grade %	-	-	-	-	100%
			6	-	-	-	-	6
2	Douglas-fir	18	Grade %	57%	35%	8%	-	-
			613	349	215	49	-	-
	Red alder	16	Grade %	-	-	-	-	100%
			32	-	-	-	-	32
	Bigleaf maple	13	Grade %	-	-	-	-	100%
			6	-	-	-	-	6
3	Douglas-fir	13	Grade %	-	86%	14%	-	-
			12	-	10	2	-	-
	Total All Areas		Grade %	54%	35%	6%	1%	4%
			1,495	811	525	92	8	59

Attachments:

- Project Statistics (All Areas)
- Species/Sort/Grade-BF Vol. (All Areas)
- Stand Table Summary (All Areas)
- Log Stock Table (All Areas)

Prepared by: Aaron McEwen Date: 01/10/2020

Unit Forester: Evelyn Hukari Date: 01/10/2020

TC PSTATS

PROJECT STATISTICS

PROJECT LOSTSTER

DATE 1/10/2020

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	08	10	A1	CC	20.00	24	153	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	24	153	6.4		
CRUISE	13	84	6.5	3,095	2.7
DBH COUNT					
REFOREST					
COUNT	11	69	6.3		
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
DF	76	144.4	17.2	67	56.2	233.3	42,157	40,950	10,028	10,028
R ALDER	1	5.3	17.0	50	2.0	8.3	846	740	227	227
D-WILDLI	5	.5	57.2	144	1.1	8.3	2,758	2,120	489	489
BL MAPLE	2	4.6	14.1	26	1.3	5.0	364	304	102	102
TOTAL	*84*	*154.7*	*17.4*	*65*	*61.2*	*255.0*	*46,125*	*44,114*	*10,846*	*10,846*

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	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DF	173.6	19.9	618	772	925			
R ALDER								
D-WILDLI	48.1	23.9	3,634	4,776	5,918			
BL MAPLE	111.6	104.5		95	194			
TOTAL	*170.0*	*18.5*	*804*	*986*	*1,169*	*1,154*	*288*	*128*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DF	148.8	17.0	138	166	194			
R ALDER								
D-WILDLI	30.5	15.1	912	1,075	1,238			
BL MAPLE	99.7	93.3	2	31	59			
TOTAL	*152.7*	*16.6*	*180*	*216*	*251*	*931*	*233*	*103*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF	54.9	11.4	128	144	161			
R ALDER	282.4	58.8	2	5	8			
D-WILDLI	357.0	74.4	0	0	1			
BL MAPLE	285.1	59.4	2	5	7			
TOTAL	*42.7*	*8.9*	*141*	*155*	*169*	*76*	*19*	*8*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF	50.7	10.6	209	233	258			
R ALDER	282.4	58.8	3	8	13			
D-WILDLI	346.1	72.1	2	8	14			
BL MAPLE	270.3	56.3	2	5	8			
TOTAL	*41.6*	*8.7*	*233*	*255*	*277*	*72*	*18*	*8*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF	59.4	12.4	35,880	40,950	46,019			
R ALDER	282.4	58.8	305	740	1,176			
D-WILDLI	340.2	70.9	617	2,120	3,622			
BL MAPLE	303.1	63.1	112	304	496			

TC PSTATS

PROJECT STATISTICS

PROJECT LOSTSTER

DATE 1/10/2020

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	08	10	A1	CC	20.00	24	153	1	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	*60.2*	*12.5*	*38,583*	*44,114*	*49,644*	*151*	*38*	*17*

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
DF	56.0	11.7	8,858	10,028	11,197			
R ALDER	282.4	58.8	94	227	361			
D-WILDLI	339.8	70.8	143	489	835			
BL MAPLE	289.5	60.3	41	102	164			
TOTAL	*53.8*	*11.2*	*9,630*	*10,846*	*12,063*	*121*	*30*	*13*

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 1/10/2020

T10S R08W S10 TyCC 20.00

Project LOSTSTER
Acres 20.00

Time: 7:49:48AM
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.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		9	1	84	21	6.949	3.07	6.95	5.0	20.0		35	139		7	3
DF		10	2	85	65	11.258	6.14	11.26	13.0	55.0		146	619		29	12
DF		11	3	85	71	13.956	9.21	13.96	16.7	56.7		233	791		47	16
DF		12	4	86	73	15.636	12.28	19.55	17.0	54.0		332	1,055		66	21
DF		13	2	86	87	6.662	6.14	13.32	15.2	55.0		203	733		41	15
DF		14	5	86	83	14.360	15.35	22.98	19.7	67.5		454	1,551		91	31
DF		15	1	89	95	2.502	3.07	5.00	23.5	90.0		118	450		24	9
DF		16	7	86	102	15.392	21.49	30.78	26.9	100.0		827	3,078		165	62
DF		17	5	87	108	9.739	15.35	21.43	30.3	111.8		649	2,396		130	48
DF		18	7	87	105	12.162	21.49	24.32	36.2	122.9		881	2,988		176	60
DF		19	4	87	109	6.237	12.28	12.47	41.0	142.5		511	1,778		102	36
DF		20	3	88	110	4.222	9.21	12.67	32.0	118.9		405	1,506		81	30
DF		21	4	87	122	5.106	12.28	15.32	38.3	150.0		587	2,298		117	46
DF		22	3	87	118	3.489	9.21	10.47	41.2	172.2		431	1,803		86	36
DF		23	3	89	126	3.192	9.21	9.58	48.2	205.6		462	1,969		92	39
DF		24	3	88	124	2.932	9.21	8.80	49.6	207.8		436	1,827		87	37
DF		25	4	86	140	3.603	12.28	10.81	58.5	246.7		632	2,666		126	53
DF		26	1	89	163	.833	3.07	3.33	57.3	275.0		191	916		38	18
DF		28	2	86	143	1.436	6.14	4.31	74.0	318.3		319	1,371		64	27
DF		30	2	87	150	1.251	6.14	3.75	89.8	420.0		337	1,576		67	32
DF		31	2	86	165	1.172	6.14	3.51	102.2	488.3		359	1,716		72	34
DF		32	1	88	166	.550	3.07	1.65	108.3	563.3		179	929		36	19
DF		38	1	89	153	.390	3.07	1.17	151.7	793.3		177	928		35	19
DF		42	1	89	171	.319	3.07	1.28	152.3	827.5		194	1,056		39	21
DF		46	1	86	201	.266	3.07	1.06	196.0	992.5		209	1,056		42	21
DF		48	1	80	198	.244	3.07	.98	158.0	815.0		154	796		31	16
DF		52	1	85	205	.208	3.07	.62	215.3	940.0		134	587		27	12
DF		58	1	85	205	.167	3.07	.67	320.0	1785.0		214	1,195		43	24
DF		60	1	86	211	.156	3.07	.78	278.8	1504.0		218	1,176		44	24
DF		Totals	76	86	94	144.388	233.33	272.77	36.8	150.1		10,028	40,950		2,006	819
DFW		50	1	85	179	.122	1.67	.49	217.5	772.5		106	378		21	8
DFW		55	1	86	153	.101	1.67	.40	233.5	870.0		94	352		19	7
DFW		60	2	85	198	.170	3.33	.59	302.0	1377.1		179	818		36	16
DFW		64	1	82	205	.075	1.67	.30	364.5	1917.5		109	572		22	11
DFW		Totals	5	85	185	.468	8.33	1.79	273.8	1187.1		489	2,120		98	42
RA		17	1	87	67	5.287	8.33	10.57	21.5	70.0		227	740		45	15
RA		Totals	1	87	67	5.287	8.33	10.57	21.5	70.0		227	740		45	15
BM		12	1	87	18	3.183	2.50	3.18	9.0	20.0		29	64		6	1
BM		18	1	86	64	1.415	2.50	2.83	26.0	85.0		74	241		15	5
BM		Totals	2	87	32	4.598	5.00	6.01	17.0	50.6		102	304		20	6
Totals			84	86	91	154.741	255.00	291.14	37.3	151.5		10,846	44,114		2,169	882

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T10S R08W S10 TyCC 20.00

Project: LOSTSTER
Acres 20.00

Date 1/10/2020
Time 7:49:47AM

Spp	S T	So Grt	% 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		DO2M	57	1.6	23,943	23,567	471			50	50	0	1	5	93	39	15	360	2.06	65.6
DF		DO3M	37	4.4	15,616	14,934	299		83	1	17	0	2	21	76	37	8	105	0.79	141.9
DF		DO4M	5	6.3	2,190	2,052	41	9	86	4	2	38	30	9	24	24	6	32	0.43	64.0
DF		DOSM	1	3.1	408	396	8			100				100		32	16	310	1.97	1.3
DF	**Totals**		93	2.9	42,157	40,950	819	0	34	30	35	2	3	12	83	34	9	150	1.08	272.8
RA		DOCR	100	12.5	846	740	15		100			14	86			23	9	70	0.93	10.6
RA	**Totals**		2	12.5	846	740	15		100			14	86			23	9	70	0.93	10.6
BM		DOCR	100	16.5	364	304	6		40	60		21	79			20	8	51	0.86	6.0
BM	**Totals**		1	16.5	364	304	6		40	60		21	79			20	8	51	0.86	6.0
DFW		DO2M	25	10.4	598	535	11				100				100	40	44	3357	16.53	.2
DFW		DO3M	69	28.1	2,048	1,472	29				100				100	40	30	1270	7.60	1.2
DFW		DO4M	6		113	113	2	3	8	22	68	33	3		64	33	12	241	2.19	.5
DFW	**Totals**		5	23.1	2,758	2,120	42	0	0	1	98	2	0		98	38	27	1187	7.20	1.8
Totals				4.4	46,125	44,114	882	0	34	29	37	3	5	11	81	33	9	152	1.12	291.1

TC PLOGSTVB

Log Stock Table - MBF

T10S R08W S10 TyCC 20.00

Project: LOSTSTER
Acres 20.00

Page 1
Date 1/10/2020
Time 7:49:47AM

Spp	ST	Sort	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		DO	2M	16	2		2	.3							2					
DF		DO	2M	30	6		6	.7						6						
DF		DO	2M	32	19	5.8	18	2.2						9						9
DF		DO	2M	34	7		7	.8						7						
DF		DO	2M	36	11	1.6	11	1.3						11						
DF		DO	2M	40	434	1.4	428	52.3						98	74	136	55	26	28	11
DF		DO	3M	16	0		0	.1					0							
DF		DO	3M	22	5		5	.6					5							
DF		DO	3M	24	1		1	.1				1								
DF		DO	3M	30	1		1	.1			1									
DF		DO	3M	32	67	4.6	64	7.8			22	25	10			1				6
DF		DO	3M	36	30	1.5	29	3.6			7	12	10							
DF		DO	3M	38	2		2	.3			2									
DF		DO	3M	40	206	4.9	196	23.9			51	17	84			6	6	13	20	
DF		DO	4M	16	7		7	.9		2	5	1								
DF		DO	4M	20	8	2.3	8	1.0		2	3	2			0	1				
DF		DO	4M	24	10	1.1	10	1.2			8	1				1				
DF		DO	4M	30	2		2	.3			2									
DF		DO	4M	32	4	20.0	4	.4			4									
DF		DO	4M	36	7		7	.8			7									
DF		DO	4M	38	5	33.3	3	.4			3									
DF		DO	SM	32	8	3.1	8	1.0								8				
DF		Totals			843	2.9	819	92.8		4	115	57	109	130	77	153	61	39	48	26
RA		DO	CR	16	3	33.3	2	14.3			2									
RA		DO	CR	30	14	7.7	13	85.7					13							
RA		Totals			17	12.5	15	1.7			2		13							
BM		DO	CR	16	2	33.3	1	20.9			1									
BM		DO	CR	24	5	10.5	5	79.1			1			4						
BM		Totals			7	16.5	6	.7			2			4						
DFW		DO	2M	40	12	10.4	11	25.3												11
DFW		DO	3M	36	1	59.5	0	.8								0				
DFW		DO	3M	40	40	27.5	29	68.6									1	6	22	
DFW		DO	4M	20	1		1	1.8										1		
DFW		DO	4M	24	0		0	.1		0										

TC PLOGSTVB

Log Stock Table - MBF

T10S R08W S10 TyCC 20.00

Project: LOSTSTER
Acres 20.00

Date 1/10/2020
Time 7:49:47AM

Spp	ST	Sort	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+
DFW		DO	4M	40	1		1	3.4			0				0	1				
DFW		Totals			55	23.1	42	4.8		0	0				0	1	1	6	22	11
Total		All Species			922	4.4	882	100.0		4	120	57	122	134	77	154	62	45	70	37

TC PSTATS

PROJECT STATISTICS

PROJECT LOSTSTER

DATE 10/30/2019

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	08	10	A2	CC	28.00	22	95	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	22	95	4.3		
CRUISE	12	51	4.3	2,877	1.8
DBH COUNT					
REFOREST					
COUNT	10	38	3.8		
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
DF	42	77.6	18.2	79	32.8	140.0	22,509	22,105	5,911	5,911
R ALDER	6	20.5	15.6	37	6.9	27.3	1,284	1,127	578	578
BL MAPLE	2	4.2	12.5	26	1.0	3.6	199	199	70	70
WHEMLOCK	1	.4	28.0	79	0.3	1.8	264	247	62	62
TOTAL	*51*	*102.8*	*17.6*	*68*	*41.2*	*172.7*	*24,256*	*23,678*	*6,621*	*6,621*

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
DF	59.4	9.2	317	350	382			
R ALDER	25.1	11.2	49	55	61			
BL MAPLE	28.3	26.5	37	50	63			
WHEMLOCK								
TOTAL	*71.7*	*10.0*	*277*	*308*	*339*	*205*	*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
DF	46.6	7.2	84	91	97			
R ALDER	21.9	9.8	26	29	32			
BL MAPLE	49.7	46.5	10	19	27			
WHEMLOCK								
TOTAL	*56.3*	*7.9*	*75*	*82*	*88*	*126*	*32*	*14*

CL 68.1	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	60.6	13.2	67	78	88			
R ALDER	173.1	37.7	13	20	28			
BL MAPLE	339.4	74.0	1	4	7			
WHEMLOCK	469.0	102.2		0	1			
TOTAL	*52.0*	*11.3*	*91*	*103*	*114*	*113*	*28*	*13*

CL 68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	52.0	11.3	124	140	156			
R ALDER	165.6	36.1	17	27	37			
BL MAPLE	323.7	70.6	1	4	6			
WHEMLOCK	469.0	102.2		2	4			
TOTAL	*36.7*	*8.0*	*159*	*173*	*187*	*56*	*14*	*6*

CL 68.1	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	54.2	11.8	19,493	22,105	24,718			
R ALDER	181.3	39.5	681	1,127	1,572			
BL MAPLE	325.7	71.0	58	199	340			
WHEMLOCK	469.0	102.2		247	499			

PROJECT STATISTICS

PROJECT LOSTSTER

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	08	10	A2	CC	28.00	22	95	1	W

CL 68.1			NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.00	COEFF VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL	*45.8*	*10.0*	*21,316*	*23,678*	*26,039*	*88*	*22*	*10*

CL 68.1			NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	52.5	11.4	5,235	5,911	6,587			
R ALDER	168.3	36.7	366	578	790			
BL MAPLE	324.2	70.7	21	70	120			
WHEMLOCK	469.0	102.2		62	126			
TOTAL	*40.3*	*8.8*	*6,040*	*6,621*	*7,202*	*68*	*17*	*8*

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 10/30/2019

T10S R08W S10 TyCC 28.00

Project LOSTSTER
Acres 28.00

Time: 3:06:45PM
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.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		12	1	82	72	4.244	3.33	8.49	9.5	30.0		81	255		23	7
DF		13	2	86	67	7.233	6.67	7.23	23.0	55.0		166	398		47	11
DF		14	1	91	88	3.118	3.33	6.24	19.5	70.0		122	437		34	12
DF		15	3	87	90	8.149	10.00	16.30	21.8	81.7		356	1,331		100	37
DF		16	3	87	97	7.162	10.00	14.32	26.5	91.7		380	1,313		106	37
DF		17	2	89	107	4.229	6.67	8.46	33.0	120.0		279	1,015		78	28
DF		18	2	86	106	3.773	6.67	7.55	36.5	125.0		275	943		77	26
DF		19	7	87	117	11.851	23.33	32.17	31.4	118.4		1,011	3,809		283	107
DF		20	8	86	116	12.223	26.67	35.14	33.9	120.9		1,190	4,248		333	119
DF		21	5	86	120	6.929	16.67	20.79	37.1	141.3		772	2,938		216	82
DF		22	1	90	119	1.263	3.33	3.79	40.7	166.7		154	631		43	18
DF		23	4	87	122	4.621	13.33	13.86	45.3	185.0		627	2,565		176	72
DF		24	1	82	112	1.061	3.33	2.12	65.0	230.0		138	488		39	14
DF		25	1	90	137	.978	3.33	2.93	60.7	270.0		178	792		50	22
DF		28	1	91	139	.780	3.33	2.34	78.0	403.3		182	943		51	26
DF		Totals	42	87	104	77.613	140.00	181.72	32.5	121.6		5,911	22,105		1,655	619
RA		14	1	86	54	4.252	4.55	4.25	24.0	60.0		102	255		29	7
RA		15	2	87	51	7.408	9.09	7.41	26.0	55.0		193	407		54	11
RA		16	2	86	49	6.511	9.09	6.51	29.0	50.0		189	326		53	9
RA		19	1	86	50	2.309	4.55	2.31	41.0	60.0		95	139		27	4
RA		Totals	6	86	51	20.479	27.27	20.48	28.2	55.0		578	1,127		162	32
WH		28	1	86	90	.425	1.82	1.28	48.7	193.3		62	247		17	7
WH		Totals	1	86	90	.425	1.82	1.28	48.7	193.3		62	247		17	7
BM		11	1	86	45	2.755	1.82	2.76	12.0	40.0		33	110		9	3
BM		15	1	86	47	1.482	1.82	1.48	25.0	60.0		37	89		10	2
BM		Totals	2	86	46	4.237	3.64	4.24	16.5	47.0		70	199		20	6
Totals			51	87	91	102.754	172.73	207.72	31.9	114.0		6,621	23,678		1,854	663

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T10S R08W S10 TyCC 28.00

Project: LOSTSTER
Acres 28.00

Page 1
Date 10/30/2019
Time 3:06:44PM

Spp	S T	So Gr rt ad	% 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		DO 2M	57	1.7	12,967	12,742	357			88	12		3		97	39	14	272	1.70	46.8
DF		DO 3M	35	1.4	7,901	7,794	218		97	3				14	86	38	9	105	0.80	74.1
DF		DO 4M	8	4.4	1,641	1,569	44	39	61			55	26	10	9	21	6	26	0.43	60.9
DF	**Totals**		93	1.8	22,509	22,105	619	3	39	52	7	4	4	6	87	32	9	122	1.00	181.7
BM		DO CR	100		199	199	6		100				55	45		27	7	47	0.60	4.2
BM	**Totals**		1		199	199	6		100				55	45		27	7	47	0.60	4.2
RA		DO CR	100	12.3	1,284	1,127	32		100					9	91	36	7	55	0.77	20.5
RA	**Totals**		5	12.3	1,284	1,127	32		100					9	91	36	7	55	0.77	20.5
WH		DO 2M	65	9.5	179	162	5				100	100				20	22	380	3.80	.4
WH		DO 3M	31		77	77	2			100					100	36	12	180	1.69	.4
WH		DO 4M	4		9	9	0		100			100				16	6	20	0.56	.4
WH	**Totals**		1	6.5	264	247	7		3	31	66	69			31	24	13	193	2.03	1.3
Totals				2.4	24,256	23,678	663	3	42	49	7	4	4	6	86	33	9	114	0.97	207.7

TC PLOGSTVB

Log Stock Table - MBF

T10S R08W S10 TyCC 28.00

Project: LOSTSTER
Acres 28.00

Page 1
Date 10/30/2019
Time 3:06:43PM

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		DO	2M	29	11		11	1.7				11		
DF		DO	2M	36	31		31	5.0			31			
DF		DO	2M	40	322	2.0	315	50.9			146	100 53	17	
DF		DO	3M	32	31	2.8	30	4.8		8 22				
DF		DO	3M	36	40		40	6.4		29	11			
DF		DO	3M	40	151	1.4	149	24.0		24 57	62 7			
DF		DO	4M	12	4		4	.6		4				
DF		DO	4M	16	16		16	2.6	7	8				
DF		DO	4M	20	5		5	.7	1	4				
DF		DO	4M	24	8		8	1.3	1	2 3	2			
DF		DO	4M	30	4		4	.6	4					
DF		DO	4M	32	4		4	.7	4					
DF		DO	4M	40	6	33.3	4	.7		4				
DF		Totals			630	1.8	619	93.4	17	50 115	74 183	100 63	17	
BM		DO	CR	24	3		3	55.4		3				
BM		DO	CR	34	2		2	44.6		2				
BM		Totals			6		6	.8		6				
RA		DO	CR	32	5	50.0	3	8.7		3				
RA		DO	CR	36	20	5.3	19	58.8		19				
RA		DO	CR	40	11	5.9	10	32.5		10				
RA		Totals			36	12.3	32	4.8		32				
WH		DO	2M	20	5	9.5	5	65.5					5	
WH		DO	3M	36	2		2	31.0			2			
WH		DO	4M	16	0		0	3.4		0				
WH		Totals			7	6.5	7	1.0		0	2		5	
Total		All Species			679	2.4	663	100.0	17	87 115	74 185	100 63	21	

TC PSTATS

PROJECT STATISTICS

PROJECT LOSTSTER

DATE 11/5/2019

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	08	10	A3	00MV	1.00	2	29	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	2	29	14.5		
CRUISE	2	29	14.5	116	25.0
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
DF	29	116.0	13.4	52	31.1	114.0	11,840	11,600	3,408	3,408
TOTAL	*29*	*116.0*	*13.4*	*52*	*31.1*	*114.0*	*11,840*	*11,600*	*3,408*	*3,408*

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
DF	40.9	7.7	92	100	108			
TOTAL	*40.9*	*7.7*	*92*	*100*	*108*	*69*	*17*	*8*

CL 68.1	COEFF		**SAMPLE TREES - CF**			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	39.2	7.4	27	29	32			
TOTAL	*39.2*	*7.4*	*27*	*29*	*32*	*64*	*16*	*7*

CL 68.1	COEFF		**TREES/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	82.9	77.6	26	116	206			
TOTAL	*82.9*	*77.6*	*26*	*116*	*206*	*482*	*121*	*54*

CL 68.1	COEFF		**BASAL AREA/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	90.3	84.6	18	114	211			
TOTAL	*90.3*	*84.6*	*18*	*114*	*211*	*572*	*143*	*64*

CL 68.1	COEFF		**NET BF/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	95.6	89.5	1,218	11,600	21,982			
TOTAL	*95.6*	*89.5*	*1,218*	*11,600*	*21,982*	*641*	*160*	*71*

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
DF	94.9	88.9	378	3,408	6,438			
TOTAL	*94.9*	*88.9*	*378*	*3,408*	*6,438*	*632*	*158*	*70*

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 11/5/2019

T10S R08W S10 Ty00MV 1.00

Project LOSTSTER
Acres 1.00

Time: 7:14:58AM
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.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		10	3	87	82	12.000	6.54	12.00	14.7	56.7		176	680		2	1
DF		11	3	88	81	12.000	7.92	16.00	12.5	45.0		200	720		2	1
DF		12	6	86	76	24.000	18.85	32.00	15.8	53.8		504	1,720		5	2
DF		13	3	86	78	12.000	11.06	20.00	15.8	50.0		316	1,000		3	1
DF		14	5	86	82	20.000	21.38	40.00	16.6	53.0		664	2,120		7	2
DF		15	4	86	81	16.000	19.63	32.00	18.5	62.5		592	2,000		6	2
DF		16	4	86	90	16.000	22.34	32.00	24.0	86.3		768	2,760		8	3
DF		17	1	92	69	4.000	6.30	8.00	23.5	75.0		188	600		2	1
DF		Totals	29	87	81	116.000	114.04	192.00	17.8	60.4		3,408	11,600		34	12
Totals			29	87	81	116.000	114.04	192.00	17.8	60.4		3,408	11,600		34	12

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T10S R08W S10 Ty00MV 1.00

Project: LOSTSTER
Acres 1.00

Page 1
Date 11/5/2019
Time 7:14:57AM

Spp	S T	So Gr rt ad	% 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	DO	CU														13	6		0.00	4.0
DF	DO	3M	86	2.3	10,280	10,040	10		100					52	48	36	8	81	0.66	124.0
DF	DO	4M	14		1,560	1,560	2		100			74	26			19	6	23	0.38	68.0
DF Totals			100	2.0	11,840	11,600	12		100			10	3	45	42	29	7	59	0.59	196.0
Totals				2.0	11,840	11,600	12		100			10	3	45	42	29	7	59	0.59	196.0

TC PLOGSTVB

Log Stock Table - MBF

T10S R08W S10 Ty00MV 1.00

Project: LOSTSTER
Acres 1.00

Page 1
Date 11/5/2019
Time 7:14:56AM

Spp	S T	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		DO	3M	32	5	3.7	5	44.8		1 2	2			
DF		DO	3M	36	0	16.7	0	1.7		0				
DF		DO	3M	40	5		5	40.0		2 1	1			
DF		DO	4M	16	1		1	5.5		1				
DF		DO	4M	18	0		0	2.4		0				
DF		DO	4M	20	0		0	2.1		0				
DF		DO	4M	24	0		0	1.0		0				
DF		DO	4M	26	0		0	2.4		0				
DF		Totals			12	2.0	12	100.0		5 4	3			
Total		All Species			12	2.0	12	100.0		5 4	3			

Oregon Department of Forestry

OPERATIONAL PERIODS and SEASONAL RESTRICTIONS

West Oregon, NWOA
24533 ALSEA HWY, PHILOMATH, OR 97370
(541) 929-3266

Sale Number		
WO-341-2020-W00777-01	Lost Steere	March 31, 2022

Harvesting	Comments	Units	Project	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Date
				1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	
Ground yarding		1, 2, 3																										
Felling - Complete all Felling by		1, 2, 3																										3/31/2022

Hauling	Comments	Units	Project	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Date
				1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	
Log Hauling on Unsurfaced Roads		1, 2, 3																										

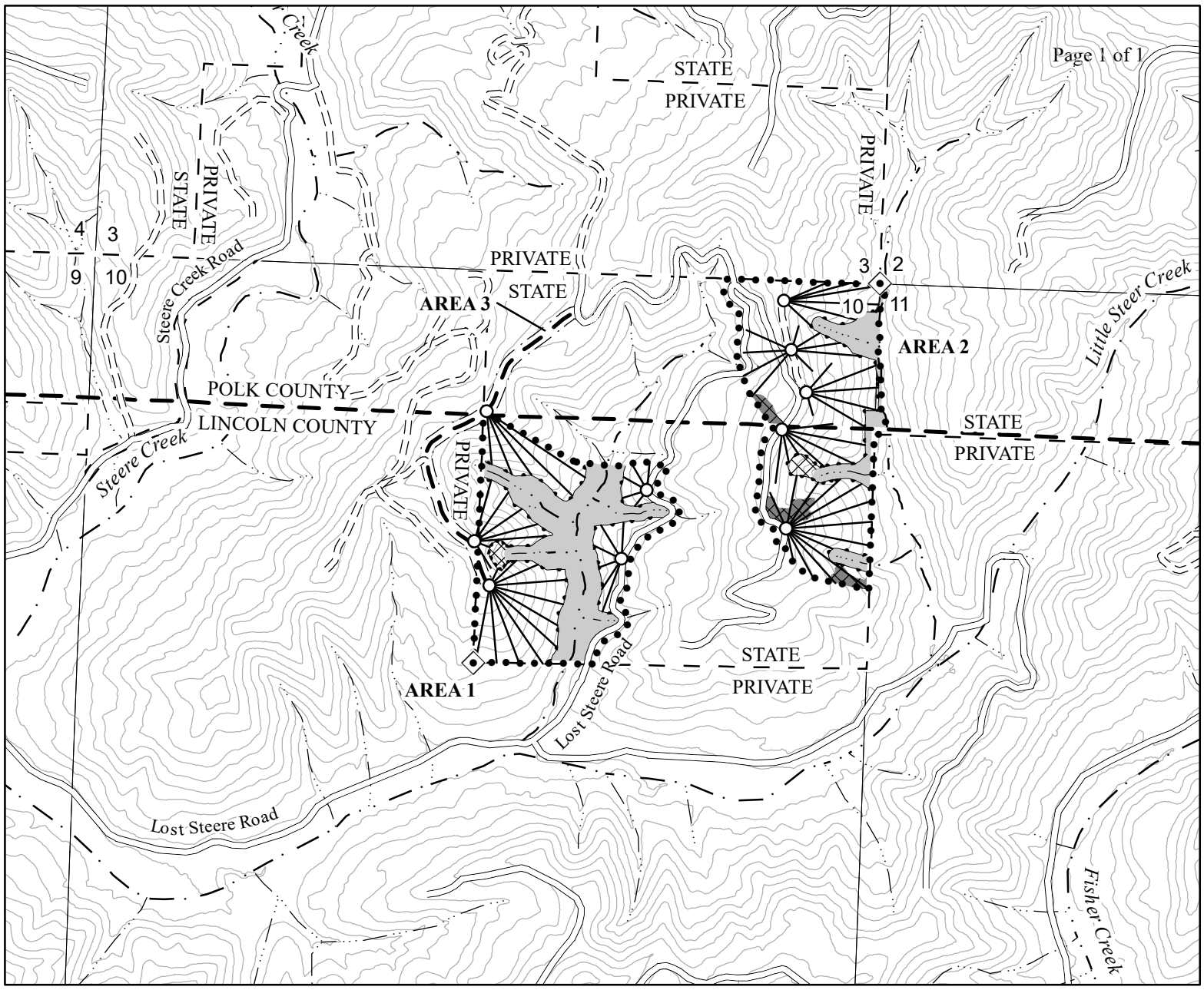
Project Work	Comments	Units	Project	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Date
				1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	
Non-project roads and landings																												
Landing and Road Construction or Improvement Operations			1, 2																									
Activity in Live Streams			2																									

Operation Allowed

Operation Restricted

Activity Restricted 2 hours before sunset and 2 hours after sunrise

This report is for information purposes only. Refer to Section 2455 Seasonal Restrictions of the contract.



Legend

Boundaries
- Timber Sale Boundary
- County Line
- Right of Way (Posted)

Roads
- Surfaced Road
- Unsurfaced Road
- New Construction

Streams
- Type F Stream
- Type N Stream
- Posted Buffer
- Stream Buffer
- Slope Buffer
- No Harvest Other
- Cable Corridors
- Landings
- Land Survey Monument

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. WO-341-2020-W00777-01
LOST STEERE
PORTIONS OF SECTIONS 10 & 11, T10S, R08W, W.M.,
LINCOLN & POLK COUNTIES, OREGON

AREA	NET ACRES TRACTOR	NET ACRES CABLE
1 (CCM)	1	19
2 (CCM)	3	25
3 (RBC)	1	0
TOTAL	5	44

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

Scale
1:12,000

1,000 0 1,000 2,000 Feet

N

Created By: Aaron McEwen
aaron.mcewen@oregon.gov
Date: 01/10/2020