



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
MAINLY SAIN
Sale FG-341-2022-W00259-01

District: Forest Grove

Date: November 17, 2021

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,214,217.08	\$57,400.87	\$2,271,617.95
		Project Work:	(\$67,575.00)
		Advertised Value:	\$2,204,042.95



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District: Forest Grove

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Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	21	0	98
Alder (Red)	14	0	95
Maple	16	0	95

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	3,419	979	0	4,398
Alder (Red)	0	0	175	175
Maple	0	0	64	64
Total	3,419	979	239	4,637

Comments: LOCAL POND VALUES, SEPTEMBER 2021

WESTERN REDCEDAR AND OTHER CEDARS:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
 $\$1,157.81 = \$1,459 - \$301.19$

WESTERN HEMLOCK AND OTHER CONIFERS:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
 $\$303.81 = \$605 - \$301.19$

BRANDING AND PAINTING ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/GAL

HAULING COST ALLOWANCE = \$950/DAY

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

OTHER COSTS (NO PROFIT & RISK ADDED):
EQUIPMENT CLEANING: 3 PIECES @ \$1,000/PIECE = \$3,000
MACHINE TIME TO PILE LANDING SLASH:
10 HOURS X \$150/HOUR = \$3,000
STIMSON ROAD USE FEE = \$71,051.20
TOTAL OTHER COSTS (NO P&R) = \$77,051.20

SLASH TREATMENT: 29 ACRES X \$200/ACRE = \$5,800

ROAD MAINTENANCE:
MOVE IN (INCLUDES SPOT ROCKING, GRADING AND ROLLING): \$4,231.03
3.45 MILES @ \$1,605.91/MILE = \$5,540.39
TOTAL ROAD MAINTENANCE: \$9,771.42/4,637 MBF = \$2.11/MBF



Timber Sale Appraisal
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Logging Conditions

Combination#: 1	Douglas - Fir	56.00%
	Alder (Red)	56.00%
	Maple	56.00%
Logging System:	Cable: Large Tower >=70	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: 5000
cost / mbf:	\$194.29	
machines:	Log Loader (A)	
	Tower Yarder (Large)	
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Combination#: 2	Douglas - Fir	44.00%
	Alder (Red)	44.00%
	Maple	44.00%
Logging System:	Shovel	Process: Harvester Head Delimbing
yarding distance:	Short (400 ft)	downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	7	bd. ft / load: 5000
cost / mbf:	\$152.69	
machines:	Forwarder	
	Harvester	



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal MAINLY SAIN Sale FG-341-2022-W00259-01

District: Forest Grove

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Logging Costs

Operating Seasons: 2.00	Profit Risk: 15%
Project Costs: \$67,575.00	Other Costs (P/R): \$0.00
Slash Disposal: \$5,800.00	Other Costs: \$77,051.20

Miles of Road

Road Maintenance: \$2.11

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	5.0
Alder (Red)	\$0.00	2.0	4.6
Maple	\$0.00	2.0	4.6



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal MAINLY SAIN Sale FG-341-2022-W00259-01

District: Forest Grove

Date: November 17, 2021

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$175.99	\$2.15	\$1.89	\$64.60	\$0.00	\$36.69	\$1.25	\$2.00	\$16.62	\$301.19
Alder (Red)									
\$175.99	\$2.22	\$1.89	\$108.42	\$0.00	\$43.28	\$1.25	\$2.00	\$16.62	\$351.67
Maple									
\$175.99	\$2.22	\$1.89	\$108.42	\$0.00	\$43.28	\$1.25	\$2.00	\$16.62	\$351.67

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$804.65	\$503.46	\$0.00
Alder (Red)	\$0.00	\$662.00	\$310.33	\$0.00
Maple	\$0.00	\$400.00	\$48.33	\$0.00



Timber Sale Appraisal
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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	4,398	\$503.46	\$2,214,217.08
Alder (Red)	175	\$310.33	\$54,307.75
Maple	64	\$48.33	\$3,093.12

Gross Timber Sale Value

Recovery: \$2,271,617.95

Prepared By: Nate Hunter

Phone: 503-359-7434

TIMBER SALE SUMMARY
Mainly Sain
#FG-341-2022-W00259-01

1. **Location:** Portions of Sections 15 and 16, T1S, R5W, W.M., Washington County, Oregon.
2. **Type of Sale:** This timber sale is 135 net acres of Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF, Washington County.
4. **Sale Acreage:** Acres are net of stream buffers, road prisms, and the Harvest Optional Areas in Unit 3. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise:** See Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of well stocked 69 year old Douglas-fir stands with minor amounts of bigleaf maple, western redcedar, western hemlock, and red alder. The stand has an average of 157 ft² of basal area (non-reserved species), an average Douglas-fir DBH of 21 inches and an estimated average net Douglas-fir volume of approximately 32.6 MBF per acre.
7. **Topography and Logging Method:** Slopes within the sale units range from 0% to 80%, with a generally southern aspect. Unit 1 is 56% cable-based yarding and 44% ground-based yarding. Unit 2 is 53% cable-based yarding and 47% ground-based yarding. Unit 3 is 62% cable-based yarding and 38% ground-based yarding. The average cable road length is 800 feet and the maximum is approximately 1,450 feet. The average horizontal skid trail length is 300 feet and the maximum is approximately 500 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove travel south on Highway 47 for approximately 6 miles to Scoggins Valley Road. Turn right on Scoggins Valley Road and follow for approximately 3.4 miles to West Shore Drive. Turn left on West Shore Drive and follow for 1.6 miles to Lee County Road. Turn left onto Lee County Road and follow for 0.4 miles to Stimson Mainline. Turn right onto Stimson Mainline and follow for 4 miles to Sain Creek Spur. To access Unit 1, continue on Stimson Mainline for 2.5 miles to SM270. Turn right on SM270 and proceed for 1.2 miles to access the western portion of Unit 1. To access Unit 2 and Unit 3 turn right on Sain Creek Spur. Continue on Sain Creek Spur for 0.2 miles to access the southern portion of Unit 3. To access Unit 2, continue on Sain Creek Spur for an additional 1.5 miles to SC100. Turn right on SC100 and follow for 0.4 miles to access the western portion of Unit 2. There is one gate located on the Stimson Mainline that may require a key or combination, which can be obtained from the Forest Grove District Office.
9. **Projects:**

Project No. 1: Road Construction	\$4,621.40
Project No. 2: Road Improvement	\$55,215.04
Project No. 3: Road Vacating	\$7,738.56
 Total Credit for all Projects	 \$67,575.00

PROJECT COST SUMMARY SHEET

Timber Sale: Mainly Sain
Sale Number: FG-341-2022-W00259-01

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

Road Segment	Length	Cost
A to B	12+10	\$4,124.04
	12+10 stations	
	0.23 miles	

Move-in = \$497.36

TOTAL PROJECT COST = \$4,621.40

PROJECT NO. 2: ROAD IMPROVEMENT

Road Segment	Length	Cost
C to D	126+70	\$14,305.03
E to F	4+00	\$5,627.35
G to H	65+35	\$16,356.92
I to J	84+55	\$10,965.64
K to A	2+40	\$1,648.53
Point L	-	\$369.30
	153+90 stations	
	2.91 miles	

Total Rock =

48 cy 1½" - 0
1,763 cy 4" - 0

Move-in = \$5,942.27

TOTAL PROJECT COST = \$55,215.04

PROJECT NO. 3: ROAD VACATING

Road Segment	Length	Cost
V1 to V2	26+20	\$2,132.75
A to B	12+10	\$501.00
	38+30 stations	
	0.73 miles	

Move-in = \$5,104.81

TOTAL PROJECT COST = \$7,738.56

TOTAL CREDITS = \$67,575.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mainly Sain
 Road Segment: A to B

Sale Number: FG-341-2022-W00259-01
 Construction: 12+10 stations
0.23 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	1.39	ac @ \$1,078.00	per ac =	\$1,498.42
Balanced road construction	9.80	sta @ \$110.00	per sta =	\$1,078.00
Drift	2.30	sta @ \$180.00	per sta =	\$414.00
Turnarounds	1	ea @ \$82.50	per ea =	\$82.50
Landing	1	ea @ \$314.00	per ea =	\$314.00
Grade & roll (outslope)	12.10	sta @ \$32.20	per sta =	\$389.62

TOTAL CONSTRUCTION COSTS = \$3,776.54

EROSION CONTROL

Grass seed & fertilizer	0.70	ac @ \$500.00	per ac =	<u>\$347.50</u>
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TOTAL EROSION CONTROL COSTS = \$347.50

TOTAL PROJECT COST = \$4,124.04

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mainly Sain
Road Segment: C to D

Sale Number: FG-341-2022-W00259-01
Improvement: 126+70 stations
2.40 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	1.46	ac @	\$1,078.00	per acre =	\$1,573.88
Clean culvert inlet & outlet, scatter waste	19	ea @	\$25.00	per ea =	\$475.00
Cutslope layback					
Excavate & load	56	cy @	\$1.90	per cy =	\$106.40
Haul	72	cy @	\$0.59	per cy =	\$42.48
Shape and compact waste material	72	cy @	\$0.30	per cy =	\$21.60
Improve Turnouts	7	ea @	\$33.00	per ea =	\$231.00
Improve Turnarounds	1	ea @	\$41.25	per ea =	\$41.25
Improve Roadside Landing	1	ea @	\$120.00	per ea =	\$120.00
Grade, ditch, & roll	126.70	sta @	\$36.00	per sta =	\$4,561.20

TOTAL IMPROVEMENT COSTS = \$7,172.81

CULVERTS

Culverts and Bands					
18" Diameter	30	LF @	\$20.00	per LF =	\$600.00
Markers & Stakes					
Culvert Markers	1	ea @	\$10.00	per ea =	\$10.00

TOTAL CULVERT COSTS = \$610.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1 1/2" - 0	\$1.82	\$9.63	\$0.50	24	\$286.80
				Subtotal =	24	\$286.80
Surfacing rock						
Spot rock	4" - 0	\$1.82	\$13.91	\$1.60	250	\$4,332.50
Turnaround	4" - 0	\$1.82	\$13.91	\$1.60	14	\$242.62
Roadside landing	4" - 0	\$1.82	\$13.91	\$1.60	60	\$1,039.80
				Subtotal =	324	\$5,614.92

Totals	All Rock =	348
	1 1/2" - 0 =	24
	4" - 0 =	324

TOTAL ROCK COSTS = \$5,901.72

EROSION CONTROL

Grass seed & fertilizer	1.46	ac @	\$425.00	per ac =	\$620.50
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TOTAL EROSION CONTROL COSTS = \$620.50

TOTAL PROJECT COST = \$14,305.03

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mainly Sain
Road Segment: E to F

Sale Number: FG-341-2022-W00259-01
Improvement: 4+00 stations
0.08 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.05	ac @	\$1,078.00	per acre =	\$53.90
Clean ditch & scatter waste material	4.00	sta @	\$60.00	per sta =	\$240.00
Improve Landing	1	ea @	\$157.00	per ea =	\$157.00
Grade, ditch, & roll	4.00	sta @	\$36.00	per sta =	\$144.00

TOTAL IMPROVEMENT COSTS = \$594.90

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	4" - 0	\$1.82	\$13.98	\$1.60	168	\$2,923.20
Landing	4" - 0	\$1.82	\$13.98	\$1.60	120	\$2,088.00
				Subtotal =	288	\$5,011.20

Totals	All Rock =	288
	4" - 0 =	288

TOTAL ROCK COSTS = \$5,011.20

EROSION CONTROL

Grass seed & fertilizer	0.05	ac @	\$425.00	per ac =	\$21.25
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TOTAL EROSION CONTROL COSTS = \$21.25

TOTAL PROJECT COST = \$5,627.35

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mainly Sain
Road Segment: G to H

Sale Number: FG-341-2022-W00259-01
Improvement: 65+35 stations
1.24 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.76	ac @	\$1,078.00	per acre =	\$819.28
Clean culvert inlet & outlet, scatter waste	4	ea @	\$25.00	per ea =	\$100.00
Approach to landing	4.10	sta @	\$690.00	per sta =	\$2,829.00
Improve Landing	2	ea @	\$157.00	per ea =	\$314.00
Grade, ditch, & roll	65.35	sta @	\$36.00	per sta =	\$2,352.60

TOTAL IMPROVEMENT COSTS = \$6,414.88

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	4" - 0	\$1.82	\$11.80	\$1.60	100	\$1,522.00
Approach to landing	4" - 0	\$1.82	\$11.80	\$1.60	172	\$2,617.84
Landing	4" - 0	\$1.82	\$11.80	\$1.60	360	\$5,479.20
Subtotal =					632	\$9,619.04

Totals

All Rock =	632
4" - 0 =	632

TOTAL ROCK COSTS = \$9,619.04

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 = \$16,356.92

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mainly Sain
Road Segment: I to J

Sale Number: FG-341-2022-W00259-01
Improvement: 84+55 stations
1.60 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.98	ac @	\$1,078.00	per acre =	\$1,056.44
Clean culvert inlet & outlet, scatter waste	7	ea @	\$25.00	per ea =	\$175.00
Improve Turnouts	5	ea @	\$33.00	per ea =	\$165.00
Construct Turnarounds	2	ea @	\$82.50	per ea =	\$165.00
Improve Landing	2	ea @	\$157.00	per ea =	\$314.00
Grade, ditch, & roll	84.55	sta @	\$36.00	per sta =	\$3,043.80

TOTAL IMPROVEMENT COSTS = \$4,919.24

CULVERTS

Additional Installation Cost

Repair culvert inlet. Open inlet	1	hrs @	\$175.00	per hr =	\$175.00
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TOTAL CULVERT COSTS = \$175.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	4" - 0	\$1.82	\$9.63	\$1.60	150	\$1,957.50
Turnaround	4" - 0	\$1.82	\$9.63	\$1.60	28	\$365.40
Landing	4" - 0	\$1.82	\$9.63	\$1.60	240	\$3,132.00
Subtotal =					418	\$5,454.90

Totals

All Rock =	418
4" - 0 =	418

TOTAL ROCK COSTS = \$5,454.90

EROSION CONTROL

Grass seed & fertilizer	0.98	ac @	\$425.00	per ac =	\$416.50
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TOTAL EROSION CONTROL COSTS = \$416.50

TOTAL PROJECT COST = \$10,965.64

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mainly Sain
Road Segment: K to A

Sale Number: FG-341-2022-W00259-01
Improvement: 2+40 stations
0.05 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.03	ac @	\$1,078.00	per acre =	\$32.34
Clean culvert inlet & outlet, scatter waste	1	ea @	\$25.00	per ea =	\$25.00
Grade, ditch, & roll	2.40	sta @	\$36.00	per sta =	\$86.40

TOTAL IMPROVEMENT COSTS = \$143.74

CULVERTS

Additional Installation Cost
Repair culvert inlet. Open inlet 1 hrs @ \$175.00 per hr = \$175.00

TOTAL CULVERT COSTS = \$175.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	4" - 0	\$1.82	\$9.62	\$1.60	101	\$1,317.04
Subtotal =					101	\$1,317.04

Totals	All Rock =	101
	4" - 0 =	101

TOTAL ROCK COSTS = \$1,317.04

EROSION CONTROL

Grass seed & fertilizer 0.03 ac @ \$425.00 per ac = \$12.75

TOTAL EROSION CONTROL COSTS = \$12.75

TOTAL PROJECT COST = \$1,648.53

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mainly Sain
 Road Segment: Point L

Sale Number: FG-341-2022-W00259-01

PROJECT NO. 2

IMPROVEMENT

CULVERTS

Culverts and Bands	30	LF @	\$29.00	per LF =	\$870.00
24" Diameter					
Markers & Stakes	1	ea @	\$10.00	per ea =	\$10.00
Culvert Markers					

TOTAL CULVERT COSTS = \$880.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$1.82	\$9.63	\$0.50	24	\$286.80
				Subtotal =	24	\$286.80

Totals	All Rock =	24
	1½" - 0 =	24

TOTAL ROCK COSTS = \$286.80

EROSION CONTROL

Grass seed & fertilizer	0.10	ac @	\$425.00	per ac =	\$42.50
Straw Mulch Bale	4	ea @	\$10.00	per ea =	\$40.00

TOTAL EROSION CONTROL COSTS = \$82.50

TOTAL PROJECT COST = \$369.30

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mainly Sain
Road Segment: V1 to V2

Sale Number: FG-341-2022-W00259-01
Vacating: 26+20 stations
0.50 miles

PROJECT NO. 3

Construct tank traps	1.00	ea @	\$55.00	per ea =	\$55.00
Rip rocked road surface	26.20	sta @	\$50.00	per sta =	\$1,310.00
Remove existing culverts	3.00	ea @	\$150.00	per ea =	\$450.00
Grass seed & fertilizer	0.31	ac @	\$425.00	per ac =	\$131.75
Mulch	0.31	ac @	\$600.00	per ac =	\$186.00

TOTAL PROJECT COST = \$2,132.750

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mainly Sain
Road Segment: A to B

Sale Number: FG-341-2022-W00259-01
Vacating: 12+10 stations
0.23 miles

PROJECT NO. 3

Construct tank traps	1.00	ea @	\$55.00	per ea =	\$55.00
Rip dirt road surface	12.10	sta @	\$25.00	per sta =	\$302.50
Grass seed & fertilizer	0.14	ac @	\$425.00	per ac =	\$59.50
Mulch	0.14	ac @	\$600.00	per ac =	\$84.00

TOTAL PROJECT COST = \$501.000

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mainly Sain

Sale Number: FG-341-2022-W00259-01

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

<u>Equipment</u>	<u>Total</u>
Grader	\$857.00
Roller (smooth/grid) & Compactor	\$570.80
Excavator (Large) - Equipment Cleaning	\$1,857.00
Dozer (Large) - Equipment Cleaning	\$1,901.58
Dump Truck (10cy +)	\$490.03
<u>TOTAL MOVE-IN COSTS =</u>	<u>\$6,439.63</u>

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

<u>Equipment</u>	<u>Total</u>
Grader	\$857.00
Excavator (Large) - Equipment Cleaning	\$1,857.00
Dozer (Large) - Equipment Cleaning	\$1,901.58
Dump Truck (10cy +)	\$489.23
<u>TOTAL MOVE-IN COSTS =</u>	<u>\$5,104.81</u>

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Mainly Sain
Sale Number: FG-341-2022-W00259-01
Stockpile Name: Seven Cedars and Saddle Stockpile
1 1/2" - 0: 48 cy (truck measure)
4" - 0: 1,763 cy (truck measure)
Total truck yardage: 1,811 cy

Move-in

Move in excavator	\$908.27
Move in loader	\$807.86
Move in Dump Trucks	\$123.00
Subtotal =	<u>\$1,839.13</u>
Per CY =	<u>\$1.02</u>

1 1/2"-0 and 4"-0 Base Cost

Load dump truck	<u>\$0.80</u>	/ cy x	<u>1,811</u>	cy =	<u>\$1,448.80</u>
				Subtotal =	<u>\$1,448.80</u>
				Per CY =	<u>\$0.80</u>

Total = \$3,287.93

1 1/2"-0 Cost = \$1.82/cy
4"-0 Cost = \$1.82/cy

CRUISE REPORT
Mainly Sain
#FG-341-2022-W00259-01

1. LOCATION:

Portions of Sections 15 and 16, T1S, R5W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

The timber cruise was designed using an estimated coefficient of variation (CV) of 63%, average stand diameter of 19 inches, sampling error (SE) of 11% and a minimum of 100 grade trees.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in November of 2021 with 32 variable radius grade plots using a 40 BAF prism. Plots were laid out as follows: Unit 1 = 5 chain x 8 chain grid, Unit 2 = 8 chain x 5 chain grid and Unit 3 = 5 chain x 7 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

127 trees were measured and graded producing a standard error of 7.4% on the Douglas-fir Basal Area and 8% on the Douglas-fir Net Board Foot Volume.

5. TREE MEASUREMENT AND GRADING:

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

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

6. DATA PROCESSING:

- a) **Volumes and Statistics:** Cruise estimates and sampling statistics were derived from SuperAce 2008 cruise software.
- b) **Deductions:** The following percent volume deductions are by species to account for the hidden defect and breakage. For conifers two percent was deducted. For hardwoods five percent was deducted.

7. CRUISERS: The sale was cruised by ODF cruisers.

Prepared by: Nate Hunter 11-4-2021

Reviewed by: Mark Savage 11-16-2021
Date

TC P5PCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																		
<div>T01S R05W S15 Ty00A149.00</div> <div>T01S R05W S15 TyA233.00</div> <div>T01S R05W S15 TyA353.00</div>						Project: MAINSAIN						Page 1								
						Acres 135.00						Date 11/15/2021								
												Time 12:12:16PM								
Spp	S T rt ad	So Gr ad	%	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	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF		CU														37	8		0.00	6.4
DF		2M	77	.7	26,042	25,848	3,490			43	57		2	13	85	39	16	421	2.06	61.4
DF		3M	20	.4	6,504	6,481	875		98	2				7	93	38	8	103	0.68	62.7
DF		4M	3		911	911	123	2	94	4		60	37		2	20	6	25	0.37	36.6
DF Totals			94	.6	33,457	33,240	4,487	0	22	34	44	2	3	11	84	34	11	199	1.18	167.1
RA		CU														8	26		0.00	.3
RA		R	100		1,367	1,367	185		73	11	16	2		4	94	36	8	108	0.65	12.6
RA Totals			4		1,367	1,367	185		73	11	16	2		4	94	36	9	106	0.65	12.9
BM		CU														4	17		0.00	.7
BM		R	100		502	502	68		76	24			6	24	69	36	8	95	0.76	5.3
BM Totals			1		502	502	68		76	24			6	24	69	32	9	84	0.75	6.0
RC		2M	65		154	154	21		100						100	40	16	400	2.40	.4
RC		3M	30		69	69	9		100						100	40	11	180	1.03	.4
RC		4M	5		12	12	2		100				100			26	6	30	0.43	.4
RC Totals			1		235	235	32		34	66			5		95	35	11	203	1.40	1.2
Totals				0.6	35,561	35,344	4,771	0	25	33	42	2	3	11	84	34	11	189	1.13	187.1

TC PSTATS					PROJECT STATISTICS			PAGE 1				
					PROJECT	MAINSAIN		DATE	11/15/2021			
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
01S	05	15	MAINSAIN	00A1	135.00	32	130	S	W			
01S	05W	15	MAINSAIN	A2								
01S	05W	15	MAINSAIN	A3								
					TREES	ESTIMATED	PERCENT					
					PER PLOT	TOTAL	SAMPLE					
						TREES	TREES					
TOTAL			32	130	4.1							
CRUISE			32	130	4.1	10,010	1.3					
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			115	59.2	21.1	123	31.3	143.9	33,457	33,240	6,786	6,786
DOUG FIR-S			3	2.8	15.4	107	0.9	3.7				
R ALDER			7	8.1	13.9	60	2.3	8.6	1,367	1,367	297	297
BL MAPLE			4	3.6	15.6	66	1.2	4.8	502	502	142	142
WR CEDAR			1	.4	24.0	135	0.2	1.2	235	235	57	57
TOTAL			130	74.1	20.0	113	36.2	162.2	35,561	35,344	7,282	7,282
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			84.6	8.2	895	976	1,056					
DOUG FIR-S												
R ALDER			87.3	35.5	159	247	335					
BL MAPLE			51.0	29.2	101	143	184					
WR CEDAR												
TOTAL			93.0	8.4	804	879	953	345	86	38		
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			72.2	7.0	176	189	202					
DOUG FIR-S												
R ALDER			70.3	28.6	36	50	65					
BL MAPLE			36.3	20.7	33	41	50					
WR CEDAR												
TOTAL			80.1	7.3	159	171	184	256	64	28		
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			70.8	12.5	52	59	67					
DOUG FIR-S			411.5	72.7	1	3	5					
R ALDER			288.3	50.9	4	8	12					
BL MAPLE			328.5	58.0	2	4	6					
WR CEDAR			565.7	99.9	0	0	1					
TOTAL			64.5	11.4	66	74	83	166	41	18		
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			41.8	7.4	133	144	155					
DOUG FIR-S			416.2	73.5	1	4	6					
R ALDER			251.4	44.4	5	9	12					
BL MAPLE			336.6	59.5	2	5	8					
WR CEDAR			565.7	99.9	0	1	2					
TOTAL			34.5	6.1	152	162	172	47	12	5		

PROJECT STATISTICS

PROJECT MAINSAIN

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01S	05	15	MAINSAIN	00A1	135.00	32	130	S	W
01S	05W	15	MAINSAIN	A2					
01S	05W	15	MAINSAIN	A3					

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		45.3	8.0	30,580	33,240	35,900			
DOUG FIR-S									
R ALDER		263.7	46.6	730	1,367	2,004			
BL MAPLE		328.8	58.1	210	502	794			
WR CEDAR		565.7	99.9	0	235	469			
TOTAL		39.7	7.0	32,867	35,344	37,822	63	16	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		42.6	7.5	6,275	6,786	7,296			
DOUG FIR-S									
R ALDER		266.9	47.1	157	297	437			
BL MAPLE		343.7	60.7	56	142	229			
WR CEDAR		565.7	99.9	0	57	114			
TOTAL		36.8	6.5	6,809	7,282	7,754	54	13	6

TC		PLOGSTVB		Log Stock Table - MBF															
<div>T01S R05W S15 Ty00A149.00 T01S R05W S15 TyA233.00 T01S R05W S15 TyA353.00</div>				<div>Project: MAINSAIN Acres 135.00</div>												<div>Page 1 Date 11/15/2021 Time 12:12:16PM</div>			
S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Sp	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	24	82		82	1.8										19	41		23
DF	2M	32	438	3.0	424	9.5										114	227		69 15
DF	2M	34	27		27	.6						12		15					
DF	2M	36	416		416	9.3						122	48	207		38			
DF	2M	40	2,553		2,540	56.6						374	556	982		468	160		
DF	3M	32	51		51	1.1			26	25									
DF	3M	34	11		11	.2			6		5								
DF	3M	36	181	1.7	178	4.0			20	82	61		14						
DF	3M	40	635		635	14.2			136	226	274								
DF	4M	15	3		3	.1		3											
DF	4M	16	32		32	.7			27			4							
DF	4M	18	33		33	.7			33										
DF	4M	20	7		7	.1			7										
DF	4M	24	14		14	.3			14										
DF	4M	26	31		31	.7			31										
DF	4M	28	2		2	.0			2										
DF	4M	36	3		3	.1			3										
DF	Totals		4,517		4,487	94.0		3	304	333	340	512	619	1205		638	427		69 38
RA	R	18	4		4	2.2			4										
RA	R	34	7		7	3.8			7										
RA	R	36	17		17	9.0				17									
RA	R	38	21		21	11.3			21										
RA	R	40	119		119	64.5			12	9	48	21				29			
RA	R	42	17		17	9.1			17										
RA	Totals		185		185	3.9			61	26	48	21				29			
BM	R	22	4		4	6.1			4										
BM	R	32	17		17	24.4						17							
BM	R	36	7		7	10.3			7										
BM	R	40	40		40	59.1			6	16	18								
BM	Totals		68		68	1.4			18	16	18	17							
RC	2M	40	21		21	65.6								21					
RC	3M	40	9		9	29.5					9								
RC	4M	26	2		2	4.9			2										
RC	Totals		32		32	.7			2		9			21					

TC PLOGSTVB		Log Stock Table - MBF																
T01S R05W S15 Ty00A1		49.00	Project: MAINSAIN Acres 135.00										Page 2					
T01S R05W S15 TyA2		33.00											Date 11/15/2021					
T01S R05W S15 TyA3		53.00											Time 12:12:16PM					
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+
Total	All Species		4,801		4,771	100.0		3	384	375	415	550	619	1226	667	427	69	38

TC		PSTNDSUM											Stand Table Summary											Page		1	
																								Date:		11/15/2021	
		T01S R05W S15 Ty00A1				49.00		Project											MAINSAIN				Time:		12:14:37PM		
		T01S R05W S15 TyA2				33.00		Acres											135.00				Grown Year:				
		T01S R05W S15 TyA3				53.00																					
S Spec	T	DBH	Sample Trees	Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals													
				FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF											
DF	11	1	88	109	1.830	1.21	3.66	10.2	45.0	1.07	37	165	144	50	22												
DF	12	1	89	98	1.538	1.21	1.54	20.2	90.0	.88	31	138	119	42	19												
DF	13	5	88	106	6.568	6.05	11.81	17.8	80.0	5.99	210	945	809	284	128												
DF	14	4	88	87	4.547	4.86	6.81	15.0	53.3	2.90	102	363	392	138	49												
DF	15	5	87	91	4.945	6.07	6.91	20.7	78.7	4.09	143	544	552	194	73												
DF	16	3	89	123	2.606	3.64	6.08	25.8	117.2	4.46	156	712	602	211	96												
DF	17	2	88	102	1.542	2.43	3.08	29.5	120.0	2.59	91	370	349	123	50												
DF	18	5	89	119	3.434	6.07	6.85	29.7	126.0	5.80	203	863	783	275	117												
DF	19	8	89	124	4.979	9.80	14.94	28.5	127.8	12.13	426	1,910	1,638	575	258												
DF	20	5	90	133	2.775	6.05	8.33	34.0	154.6	8.07	283	1,287	1,089	382	174												
DF	21	7	89	131	3.527	8.48	10.58	37.2	173.4	11.21	393	1,835	1,513	531	248												
DF	22	7	89	131	3.299	8.71	9.90	41.7	196.6	11.76	413	1,945	1,588	557	263												
DF	23	9	89	129	3.977	11.47	12.39	42.6	199.7	15.04	528	2,474	2,030	712	334												
DF	24	10	89	148	3.997	12.56	13.56	48.2	237.2	18.63	654	3,217	2,515	882	434												
DF	25	7	88	148	2.620	8.93	8.99	51.2	243.7	13.13	461	2,191	1,772	622	296												
DF	26	5	89	147	1.729	6.38	5.52	59.6	302.5	9.37	329	1,668	1,265	444	225												
DF	27	2	90	138	.639	2.54	1.92	66.0	322.3	3.61	127	618	487	171	83												
DF	28	7	90	154	2.112	9.03	7.52	65.9	343.6	14.12	495	2,584	1,906	669	349												
DF	29	3	89	120	.863	3.96	2.59	68.6	338.9	5.06	178	878	683	240	118												
DF	30	5	89	140	1.302	6.39	4.67	69.7	370.9	9.28	326	1,732	1,253	440	234												
DF	31	3	89	145	.755	3.96	3.02	67.6	370.8	5.82	204	1,121	786	276	151												
DF	32	3	89	163	.689	3.85	2.97	74.8	424.4	6.33	222	1,261	855	300	170												
DF	34	1	89	166	.194	1.22	.78	91.4	525.0	2.02	71	407	273	96	55												
DF	35	1	90	139	.198	1.32	.79	83.7	470.0	1.89	66	371	254	89	50												
DF	36	4	89	156	.705	4.99	2.82	99.0	568.5	7.96	279	1,604	1,074	377	217												
DF	38	1	90	148	.168	1.32	.67	107.1	605.0	2.05	72	406	276	97	55												
DF	39	1	90	159	.147	1.22	.59	121.5	632.5	2.04	72	373	276	97	50												
DF	42	1	89	153	.137	1.32	.55	131.4	752.5	2.06	72	413	277	97	56												
DF	51	1	90	156	.093	1.32	.47	156.0	988.0	2.07	73	460	279	98	62												
DF	56	1	89	189	.071	1.22	.36	194.1	1078.0	1.98	69	385	267	94	52												
DF	Totals	118	89	122	61.987	147.58	160.65	42.2	206.9	193.39	6,786	33,240	26,107	9,160	4,487												
RA	10	1	88	80	2.215	1.21	2.21	15.4	70.0	.94	34	155	127	46	21												
RA	12	1	95	79	1.538	1.21	3.08	11.5	50.0	.98	35	154	132	48	21												
RA	13	1	89	151	1.311	1.21	2.62	22.8	110.0	1.64	60	288	222	81	39												
RA	14	1	88	62	1.130	1.21	1.13	25.0	110.0	.78	28	124	105	38	17												
RA	16	1	88	111	.865	1.21	1.73	28.4	120.0	1.35	49	208	183	66	28												
RA	17	1	89	123	.766	1.21	1.53	35.0	145.0	1.47	54	222	199	72	30												
RA	28	1	94	108	.309	1.32	.31	117.4	700.0	1.00	36	216	135	49	29												
RA	Totals	7	90	97	8.134	8.57	12.61	23.5	108.4	8.16	297	1,367	1,101	401	185												
BM	13	1	90	75	1.326	1.22	1.33	22.7	90.0	.80	30	119	108	41	16												
BM	16	1	81	120	.865	1.21	1.73	28.5	105.0	1.31	49	182	177	67	25												
BM	17	1	89	75	.766	1.21	1.53	24.7	100.0	1.00	38	153	135	51	21												
BM	18	1	89	57	.684	1.21	.68	36.9	70.0	.67	25	48	90	34	6												
BM	Totals	4	87	82	3.641	4.85	5.27	27.0	95.2	3.78	142	502	510	192	68												
RC	24	1	81	135	.385	1.21	1.15	49.5	203.3	1.34	57	235	181	77	32												
RC	Totals	1	81	135	.385	1.21	1.15	49.5	203.3	1.34	57	235	181	77	32												
Totals		130	89	118	74.146	162.21	179.69	40.5	196.7	206.66	7,282	35,344	27,899	9,830	4,771												

TC PSTATS					PROJECT STATISTICS				PAGE	1		
					PROJECT	MAINSAIN			DATE	11/8/2021		
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt	
01S	05	15	MAINSAIN	00A1		49.00		11	42	S	W	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES		PERCENT SAMPLE TREES				
TOTAL			11	42	3.8							
CRUISE			11	42	3.8	1,907		2.2				
DBH COUNT												
REFOREST												
COUNT												
BLANKS												
100 %												
STAND SUMMARY												
			SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR			41	38.1	26.8	138	28.8	149.1	38,228	38,150	7,507	7,507
R ALDER			1	.9	28.0	108	0.7	3.6	595	595	100	100
TOTAL			42	38.9	26.8	137	29.5	152.7	38,824	38,746	7,607	7,607
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		64.1	10.1	1,123	1,250	1,376						
R ALDER												
TOTAL		64.3	10.0	1,112	1,236	1,360	165		41	18		
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		51.3	8.1	218	238	257						
R ALDER												
TOTAL		51.9	8.1	216	235	254	107		27	12		
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		48.0	15.2	32	38	44						
R ALDER		331.7	104.8		1	2						
TOTAL		47.0	14.8	33	39	45	97		24	11		
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		36.2	11.4	132	149	166						
R ALDER		331.7	104.8		4	7						
TOTAL		36.7	11.6	135	153	170	59		15	7		
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		35.0	11.1	33,931	38,150	42,370						
R ALDER		331.7	104.8		595	1,219						
TOTAL		35.8	11.3	34,366	38,746	43,125	56		14	6		
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		35.4	11.2	6,668	7,507	8,345						
R ALDER		331.7	104.8		100	204						
TOTAL		35.7	11.3	6,748	7,607	8,466	56		14	6		

TC PSCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																			
T01S R05W S15 Ty00A1 49.00				Project: MAINSAIN										Page 1							
				Acres 49.00										Date 11/8/2021							
														Time 4:16:02PM							
S Spp	So T	Gr rt	ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre
				Def%	Gross	Net	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf			
							4-5		6-11	12-16	17+	12-20	21-30	31-35					36-99		
DF		2M		89	.2	34,327	34,250	1,678			32	68		3	15	83	38	17	488	2.36	70.2
DF		3M		9		3,181	3,181	156		100					6	94	37	9	111	0.85	28.6
DF		4M		2		720	720	35		100			58	42			20	6	26	0.45	28.1
DF Totals				98	.2	38,228	38,150	1,869		10	29	61	1	3	14	82	34	13	300	1.74	127.0
RA		CU															8	26		0.00	.9
RA		R		100		595	595	29			100				100		40	20	700	2.93	.9
RA Totals				2		595	595	29			100				100		24	23	350	2.45	1.7
Totals					0.2	38,824	38,746	1,899		10	28	62	1	3	14	82	34	13	301	1.74	128.7

TC PLOGSTVB		Log Stock Table - MBF																	
T01S R05W S15 Ty00A1 49.00					Project: MAINSAIN Acres 49.00										Page 1 Date 11/8/2021 Time 4:16:01PM				
S T Spp	So rt	Gr 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	24	43		43	2.3										21		23
DF		2M	32	248		248	13.3										50	149	49
DF		2M	36	237		237	12.7					41	19	138			38		
DF		2M	40	1,154		1,150	61.5					106	136	510			311	88	
DF		3M	32	10		10	.5			7	3								
DF		3M	36	72		72	3.8			5	31	36							
DF		3M	40	74		74	4.0			15		60							
DF		4M	16	6		6	.3			6									
DF		4M	18	13		13	.7			13									
DF		4M	20	1		1	.1			1									
DF		4M	24	7		7	.4			7									
DF		4M	26	6		6	.3			6									
DF		4M	28	2		2	.1			2									
DF		Totals		1,873		1,869	98.5			62	34	96	147	155	648	399	258	49	23
RA		R	40	29		29	100.0									29			
RA		Totals		29		29	1.5									29			
Total		All Species		1,902		1,899	100.0			62	34	96	147	155	648	428	258	49	23

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		11/8/2021	
T01S R05W S15 Ty00A1 49.00				Project		MAINSAIN						Time:		4:16:03PM			
				Acres		49.00						Grown Year:					
S Spe T	Tot						Average Log		Net			Totals					
	DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF		
DF	19	1	88	115	1.847	3.64	5.54	26.0	113.3	4.11	144	628	201	71	31		
DF	22	2	89	126	2.755	7.27	8.27	40.7	193.3	9.59	337	1,598	470	165	78		
DF	23	5	89	130	6.302	18.18	20.17	41.4	195.0	23.79	835	3,932	1,166	409	193		
DF	24	4	89	141	4.630	14.55	15.05	48.4	233.1	20.75	728	3,507	1,017	357	172		
DF	25	4	87	148	4.267	14.55	14.93	49.9	233.6	21.25	746	3,488	1,041	365	171		
DF	26	3	89	137	2.959	10.91	8.88	62.1	302.2	15.72	551	2,683	770	270	131		
DF	27	1	90	133	.915	3.64	2.74	62.9	296.7	4.92	173	814	241	85	40		
DF	28	5	90	150	4.252	18.18	14.46	67.7	351.2	27.91	979	5,077	1,367	480	249		
DF	29	3	89	120	2.378	10.91	7.13	68.6	338.9	13.94	489	2,418	683	240	118		
DF	30	3	89	142	2.222	10.91	7.41	76.9	401.0	16.24	570	2,971	796	279	146		
DF	31	3	89	145	2.081	10.91	8.33	67.6	370.8	16.04	563	3,087	786	276	151		
DF	32	2	89	154	1.302	7.27	5.21	77.0	421.2	11.43	401	2,194	560	197	108		
DF	35	1	90	139	.544	3.64	2.18	83.7	470.0	5.19	182	1,023	254	89	50		
DF	36	1	89	159	.514	3.64	2.06	103.4	587.5	6.06	213	1,209	297	104	59		
DF	38	1	90	148	.462	3.64	1.85	107.1	605.0	5.64	198	1,117	276	97	55		
DF	42	1	89	153	.378	3.64	1.51	131.4	752.5	5.66	199	1,138	277	97	56		
DF	51	1	90	156	.256	3.64	1.28	156.0	988.0	5.70	200	1,266	279	98	62		
DF	Totals	41	89	138	38.065	149.09	126.98	59.1	300.4	213.94	7,507	38,150	10,483	3,678	1,869		
RA	28	1	94	108	.850	3.64	.85	117.4	700.0	2.74	100	595	135	49	29		
RA	Totals	1	94	108	.850	3.64	.85	117.4	700.0	2.74	100	595	135	49	29		
Totals		42	89	137	38.915	152.73	127.83	59.5	303.1	216.69	7,607	38,746	10,618	3,727	1,899		

TC PSTATS		PROJECT STATISTICS							PAGE	1		
		PROJECT		MAINSAIN					DATE	11/8/2021		
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt	
01S	05	15	MAINSAIN	A2		33.00		8	33	S	W	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES		PERCENT SAMPLE TREES				
TOTAL			8	33	4.1							
CRUISE			8	33	4.1	2,463		1.3				
DBH COUNT												
REFOREST												
COUNT												
BLANKS												
100 %												
STAND SUMMARY												
			SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR			29	57.6	21.5	122	31.3	145.0	34,129	33,356	6,851	6,851
DOUG FIR-S			3	11.6	15.4	107	3.8	15.0				
BL MAPLE			1	5.4	13.0	75	1.4	5.0	488	488	123	123
TOTAL			33	74.7	20.1	116	36.8	165.0	34,617	33,844	6,974	6,974
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		99.5	19.5	892	1,109	1,325						
DOUG FIR-S												
BL MAPLE												
TOTAL		112.8	20.2	773	969	1,165	508 127		56			
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		89.4	17.5	176	214	251						
DOUG FIR-S												
BL MAPLE												
TOTAL		102.5	18.4	152	187	221	419 105		47			
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		44.2	16.7	48	58	67						
DOUG FIR-S		195.7	73.8	3	12	20						
BL MAPLE		282.8	106.6		5	11						
TOTAL		45.0	17.0	62	75	87	92 23		10			
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		29.3	11.0	129	145	161						
DOUG FIR-S		198.4	74.8	4	15	26						
BL MAPLE		282.8	106.6		5	10						
TOTAL		24.0	9.1	150	165	180	26 7		3			
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		37.3	14.1	28,661	33,356	38,051						
DOUG FIR-S												
BL MAPLE		282.8	106.6		488	1,009						
TOTAL		35.2	13.3	29,348	33,844	38,340	56 14		6			
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		31.5	11.9	6,038	6,851	7,664						
DOUG FIR-S												

TC PSTATS				PROJECT MAINSAIN				PAGE 2	DATE 11/8/2021	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
01S	05	15	MAINSAIN	A2	33.00	8	33	S	W	
CL	68.1		COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.	INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
BL MAPLE			282.8	106.6		123	254			
TOTAL			29.4	11.1	6,201	6,974	7,747	39	10	4

Species, Sort Grade - Board Foot Volumes (Project)

T01S R05W S15 TyA2 33.00

Project: MAINSAIN

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Acres 33.00

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S T Spp				% Net BdFt	Bd. Ft. per Acre Def%GrossNet			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	
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF		CU															37	8		0.00	26.3
DF		2M		79	2.5	27,244	26,565	877			45	55			23	77	39	16	421	2.07	63.1
DF		3M		19	1.5	6,304	6,211	205		100					7	93	38	8	96	0.65	64.4
DF		4M		2		580	580	19		100			60	25		15	20	6	26	0.41	22.6
DF	Totals			99	2.3	34,129	33,356	1,101		20	36	44	1	0	20	79	36	11	189	1.08	176.3
BM		R		100		488	488	16		100						100	40	8	90	0.57	5.4
BM	Totals			1		488	488	16		100						100	40	8	90	0.57	5.4
Totals					2.2	34,617	33,844	1,117		22	35	43	1	0	20	79	36	11	186	1.07	181.8

Log Stock Table - MBF

T01S R05W S15 TyA2 33.00

Project: MAINSAIN
Acres 33.00Page 1
Date 11/8/2021
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Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Sp	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		190	6.9	176	16.0									64	78	20	15
DF		2M	34		27		27	2.4					12		15					
DF		2M	36		43		43	3.9					23		20					
DF		2M	40		640	1.5	631	57.3					95		167	193	104	72		
DF		3M	32		10		10	.9			10									
DF		3M	34		5		5	.5					5							
DF		3M	36		47	6.6	44	4.0			9	19	16							
DF		3M	40		146		146	13.3			52	9	85							
DF		4M	16		3		3	.2			3									
DF		4M	18		8		8	.7			8									
DF		4M	20		1		1	.1			1									
DF		4M	24		3		3	.2			3									
DF		4M	26		2		2	.2			2									
DF		4M	36		3		3	.3			3									
DF		Totals			1,126	2.3	1,101	98.6			91	28	106	130	167	228	168	149	20	15
BM		R	40		16		16	100.0			16									
BM		Totals			16		16	1.4			16									
Total		All Species			1,142	2.2	1,117	100.0			91	44	106	130	167	228	168	149	20	15

TC		PSTNDSUM		Stand Table Summary										Page 1	
														Date: 11/8/2021	
T01S R05W S15 TyA2 33.00				Project MAINSAIN										Time: 8:48:20AM	
				Acres 33.00										Grown Year:	
S Spec T	Sample		Tot					Average Log		Net Net			T o t a l s		
	DBH	Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
DF	13	1	85	67	5.424	5.00	5.42	21.1	70.0	3.25	114	380	107	38	13
DF	14	2	88	91	9.354	10.00	9.35	15.1	50.0	4.04	142	468	133	47	15
DF	15	2	89	117	8.149	10.00	8.15	24.3	110.0	5.64	198	896	186	65	30
DF	16	1	88	110	3.581	5.00	7.16	27.4	120.0	5.60	196	859	185	65	28
DF	17	1	88	101	3.172	5.00	6.34	29.5	120.0	5.33	187	761	176	62	25
DF	18	2	89	117	5.659	10.00	5.66	34.1	135.0	5.51	193	764	182	64	25
DF	19	2	89	145	5.079	10.00	15.24	33.1	160.0	14.39	505	2,438	475	167	80
DF	20	1	90	125	2.292	5.00	6.88	32.2	136.7	6.32	222	940	208	73	31
DF	21	2	90	143	4.158	10.00	12.47	40.3	191.7	14.32	502	2,391	472	166	79
DF	22	2	89	133	3.788	10.00	11.36	41.2	190.0	13.34	468	2,159	440	154	71
DF	23	3	89	122	5.199	15.00	15.60	42.5	195.6	18.90	663	3,050	624	219	101
DF	24	2	89	140	3.183	10.00	9.55	51.4	240.0	13.98	491	2,292	461	162	76
DF	25	2	89	143	2.934	10.00	8.80	57.4	270.0	14.39	505	2,376	475	167	78
DF	27	1	90	143	1.258	5.00	3.77	69.2	350.0	7.44	261	1,320	246	86	44
DF	28	1	89	148	1.169	5.00	4.68	55.5	285.0	7.40	260	1,333	244	86	44
DF	30	1	89	136	1.019	5.00	4.07	61.7	342.5	7.16	251	1,395	236	83	46
DF	34	1	89	166	.793	5.00	3.17	91.4	525.0	8.26	290	1,665	273	96	55
DF	36	3	89	154	2.122	15.00	8.49	97.4	561.7	23.56	827	4,768	777	273	157
DF	39	1	90	159	.603	5.00	2.41	121.5	632.5	8.35	293	1,525	276	97	50
DF	56	1	89	189	.292	5.00	1.46	194.1	1078.0	8.09	284	1,576	267	94	52
DF	Totals	32	89	119	69.227	160.00	150.05	45.7	222.3	195.26	6,851	33,356	6,444	2,261	1,101
BM	13	1	90	75	5.424	5.00	5.42	22.7	90.0	3.26	123	488	108	41	16
BM	Totals	1	90	75	5.424	5.00	5.42	22.7	90.0	3.26	123	488	108	41	16
Totals		33	89	116	74.651	165.00	155.47	44.9	217.7	198.52	6,974	33,844	6,551	2,302	1,117

TC PSTATS			PROJECT STATISTICS						PAGE 1		
			PROJECT		MAINSAIN		DATE		11/8/2021		
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt
01S	05	15	MAINSAIN	A3		53.00		13	55	S	W
					TREES		ESTIMATED		PERCENT		
			PLOTS		TREES		TOTAL		SAMPLE		
					PER PLOT		TREES		TREES		
TOTAL			13		55		4.2				
CRUISE			13		55		4.2		5,639		
DBH COUNT									1.0		
REFOREST											
COUNT											
BLANKS											
100 %											
STAND SUMMARY											
			SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS
			TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC
DOUG FIR			45	79.6	17.9	117	32.8	138.5	28,628	28,628	6,078
R ALDER			6	19.9	13.0	58	5.1	18.5	2,933	2,933	663
BL MAPLE			3	5.9	16.9	61	2.2	9.2	975	975	286
WR CEDAR			1	1.0	24.0	135	0.6	3.1	597	597	145
TOTAL			55	106.4	17.1	103	41.0	169.2	33,133	33,133	7,173
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		65.5	10.5	539		602	665				
R ALDER		52.3	23.3	132		172	212				
BL MAPLE		48.8	33.8	106		160	214				
WR CEDAR											
TOTAL		74.9	10.7	467		523	579		224	56	25
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		51.0	8.2	113		123	133				
R ALDER		54.8	24.4	30		39	49				
BL MAPLE		21.3	14.8	41		48	55				
WR CEDAR											
TOTAL		59.6	8.5	99		108	118		142	35	16
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		73.3	21.1	63		80	96				
R ALDER		178.8	51.6	10		20	30				
BL MAPLE		260.0	75.0	1		6	10				
WR CEDAR		360.6	103.9			1	2				
TOTAL		53.9	15.5	90		106	123		125	31	14
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		54.8	15.8	117		138	160				
R ALDER		168.2	48.5	10		18	27				
BL MAPLE		259.6	74.8	2		9	16				
WR CEDAR		360.6	103.9			3	6				
TOTAL		40.0	11.5	150		169	189		69	17	8
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		57.6	16.6	23,872		28,628	33,384				
R ALDER		179.6	51.8	1,415		2,933	4,451				
BL MAPLE		249.8	72.0	273		975	1,677				
WR CEDAR		360.6	103.9			597	1,218				

Species, Sort Grade - Board Foot Volumes (Project)

T01S R05W S15 TyA3 53.00

Project: MAINSAIN

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Acres 53.00

Date 11/8/2021

Time 9:12:32AM

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			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	
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF		2M		61		17,634	17,634	935			63	37		4		96	39	15	339	1.68	52.1
DF		3M		34		9,700	9,700	514			97	3			7	93	39	8	104	0.65	93.2
DF		4M		5		1,293	1,293	69	4	90	6		62	38			20	6	24	0.33	53.1
DF	Totals			86		28,628	28,628	1,517	0	37	40	23	3	4	2	90	34	9	144	0.91	198.4
BM		CU															4	17		0.00	1.7
BM		R		100		975	975	52		68	32			8	32	60	34	9	97	0.84	10.1
BM	Totals			3		975	975	52		68	32			8	32	60	30	10	83	0.82	11.8
RA		R		100		2,933	2,933	155		87	13		3		5	93	36	8	94	0.59	31.3
RA	Totals			9		2,933	2,933	155		87	13		3		5	93	36	8	94	0.59	31.3
RC		2M		65		392	392	21			100					100	40	16	400	2.40	1.0
RC		3M		30		176	176	9			100					100	40	11	180	1.03	1.0
RC		4M		5		29	29	2			100				100		26	6	30	0.43	1.0
RC	Totals			2		597	597	32		34	66			5		95	35	11	203	1.40	2.9
Totals						33,133	33,133	1,756	0	42	38	20	3	4	3	90	34	9	136	0.87	244.5

TC PLOGSTVB		Log Stock Table - MBF																	
T01S R05W S15 TyA3				53.00		Project: MAINSAIN Acres 53.00										Page 1 Date 11/8/2021 Time 9:12:32AM			
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	24	39		39	2.6									19	20		
DF		2M	36	137		137	9.0					58	29	50					
DF		2M	40	759		759	50.0					174	254	279	54				
DF		3M	32	31		31	2.1			9	22								
DF		3M	34	6		6	.4			6									
DF		3M	36	62		62	4.1			7	32	9	14						
DF		3M	40	415		415	27.3			69	217	130							
DF		4M	15	3		3	.2		3										
DF		4M	16	23		23	1.5			19		4							
DF		4M	18	12		12	.8			12									
DF		4M	20	5		5	.3			5									
DF		4M	24	4		4	.3			4									
DF		4M	26	22		22	1.5			22									
DF		Totals		1,517		1,517	86.4		3	151	271	139	236	297	328	72	20		
BM		R	22	4		4	8.0			4									
BM		R	32	17		17	32.0					17							
BM		R	36	7		7	13.6			7									
BM		R	40	24		24	46.4			6		18							
BM		Totals		52		52	2.9			18		18	17						
RA		R	18	4		4	2.7			4									
RA		R	34	7		7	4.5			7									
RA		R	36	17		17	10.7				17								
RA		R	38	21		21	13.5			21									
RA		R	40	90		90	57.9			12	9	48	21						
RA		R	42	17		17	10.8			17									
RA		Totals		155		155	8.9			61	26	48	21						
RC		2M	40	21		21	65.6							21					
RC		3M	40	9		9	29.5					9							
RC		4M	26	2		2	4.9			2									
RC		Totals		32		32	1.8			2		9		21					
Total		All Species		1,756		1,756	100.0		3	232	297	213	273	297	349	72	20		

TC		PSTNDSUM		Stand Table Summary										Page		1		
														Date:		11/8/2021		
T01S R05W S15 TyA3				53.00		Project		MAINSAIN				Time:		8:49:25AM				
						Acres		53.00				Grown Year:						
S Spec	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	T o t a l s		
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.	Tons	Cunits				MBF		
DF		11	1	88	109	4.662	3.08	9.32	10.2	45.0	2.71	95	420		144	50	22	
DF		12	1	89	98	3.918	3.08	3.92	20.2	90.0	2.25	79	353		119	42	19	
DF		13	4	89	116	13.353	12.31	26.71	17.4	81.3	13.24	464	2,170		702	246	115	
DF		14	2	88	83	5.757	6.15	11.51	14.9	55.0	4.89	171	633		259	91	34	
DF		15	3	86	73	7.522	9.23	12.54	19.3	66.0	6.90	242	827		366	128	44	
DF		16	2	89	130	4.407	6.15	11.02	25.1	116.0	7.87	276	1,278		417	146	68	
DF		17	1	89	104	1.952	3.08	3.90	29.5	120.0	3.28	115	468		174	61	25	
DF		18	3	89	121	5.224	9.23	13.93	28.6	123.7	11.34	398	1,724		601	211	91	
DF		19	5	89	117	7.814	15.38	23.44	27.2	118.0	18.15	637	2,766		962	338	147	
DF		20	4	90	135	5.641	12.31	16.92	34.5	159.2	16.62	583	2,694		881	309	143	
DF		21	5	89	126	6.396	15.38	19.19	35.9	166.0	19.63	689	3,185		1,040	365	169	
DF		22	3	90	134	3.497	9.23	10.49	42.8	203.3	12.78	449	2,133		678	238	113	
DF		23	1	90	144	1.066	3.08	3.20	49.7	240.0	4.54	159	768		240	84	41	
DF		24	4	90	160	3.918	12.31	14.69	46.7	240.0	19.56	686	3,526		1,037	364	187	
DF		25	1	89	158	.903	3.08	3.61	47.0	242.5	4.83	170	876		256	90	46	
DF		26	2	90	162	1.669	6.15	5.84	56.0	302.9	9.33	327	1,769		494	173	94	
DF		28	1	89	182	.720	3.08	2.88	67.8	367.5	5.56	195	1,058		295	103	56	
DF		30	1	89	136	.627	3.08	2.51	58.3	317.5	4.17	146	796		221	77	42	
DF		32	1	89	185	.551	3.08	2.75	70.8	430.0	5.56	195	1,184		295	103	63	
DF		Totals	45	89	117	79.595	138.46	198.38	30.6	144.3	173.22	6,078	28,628		9,181	3,221	1,517	
RA		10	1	88	80	5.641	3.08	5.64	15.4	70.0	2.40	87	395		127	46	21	
RA		12	1	95	79	3.918	3.08	7.84	11.5	50.0	2.49	90	392		132	48	21	
RA		13	1	89	151	3.338	3.08	6.68	22.8	110.0	4.19	152	734		222	81	39	
RA		14	1	88	62	2.878	3.08	2.88	25.0	110.0	1.98	72	317		105	38	17	
RA		16	1	88	111	2.204	3.08	4.41	28.4	120.0	3.45	125	529		183	66	28	
RA		17	1	89	123	1.952	3.08	3.90	35.0	145.0	3.75	136	566		199	72	30	
RA		Totals	6	90	97	19.931	18.46	31.34	21.2	93.6	18.24	663	2,933		967	352	155	
BM		16	1	81	120	2.204	3.08	4.41	28.5	105.0	3.33	126	463		177	67	25	
BM		17	1	89	75	1.952	3.08	3.90	24.7	100.0	2.55	96	390		135	51	21	
BM		18	1	89	57	1.741	3.08	1.74	36.9	70.0	1.70	64	122		90	34	6	
BM		Totals	3	86	87	5.897	9.23	10.05	28.5	97.0	7.59	286	975		402	152	52	
RC		24	1	81	135	.979	3.08	2.94	49.5	203.3	3.41	145	597		181	77	32	
RC		Totals	1	81	135	.979	3.08	2.94	49.5	203.3	3.41	145	597		181	77	32	
Totals			55	89	112	106.403	169.23	242.71	29.6	136.5	202.46	7,173	33,133		10,731	3,802	1,756	

VOLUME SUMMARY
(Shown in MBF)
Mainly Sain
FG-341-2022-W00259-01
November 2021

UNIT 1: MC (49 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	1,678	156	35	0	1,869
	Hidden D&B (2%)	(34)	(3)	(1)	(0)	(38)
	NET TOTAL	1,644	153	34	0	1,831
	% of Total	90	8	2	0	
Red Alder	Cruise Volume	0	0	0	29	29
	Hidden D&B (5%)	(0)	(0)	(0)	(1)	(1)
	NET TOTAL	0	0	0	28	28
	% of Total	0	0	0	100	

UNIT 2: MC (33 ACRES)

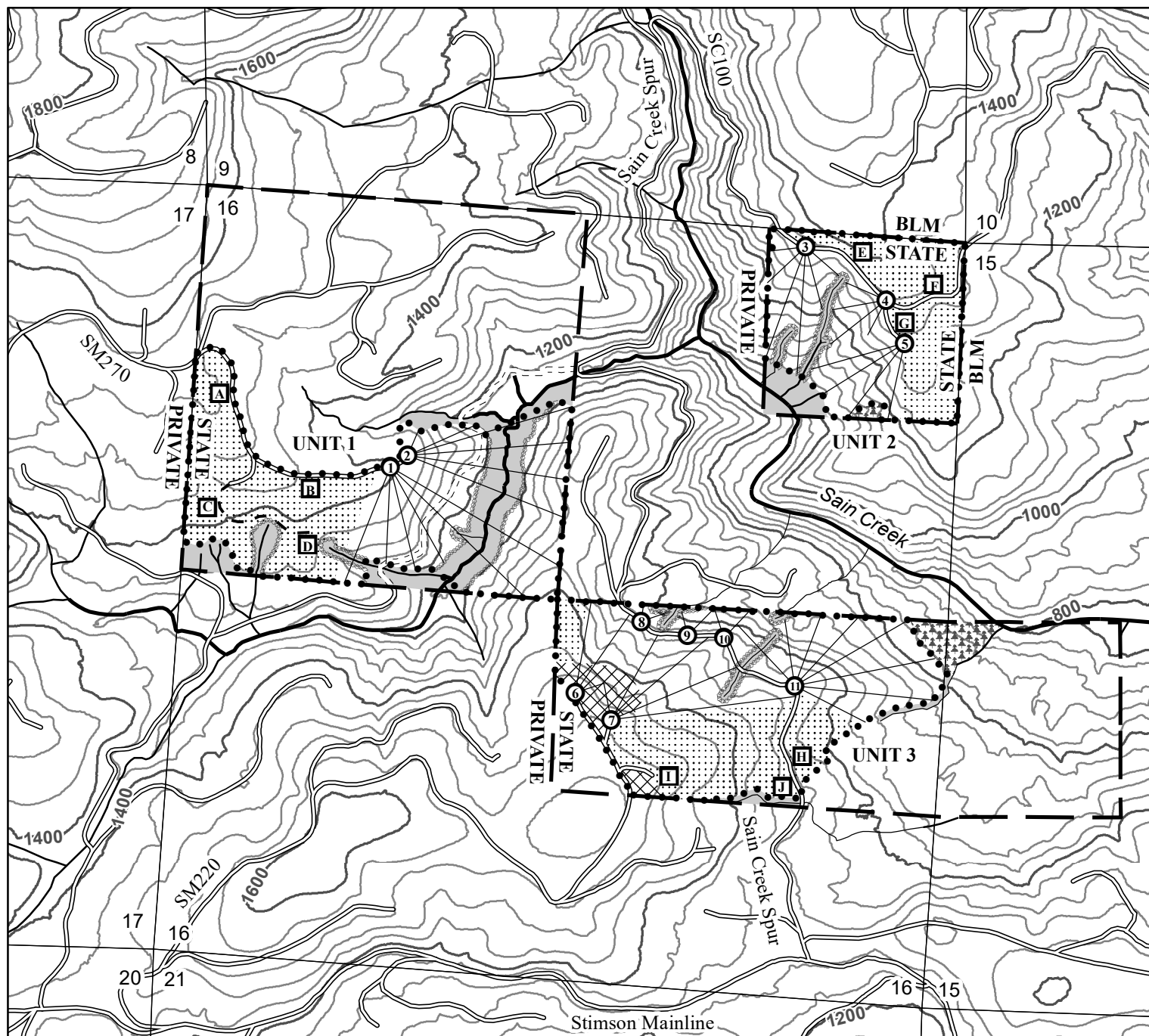
SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	877	205	19	0	1,101
	Hidden D&B (2%)	(18)	(4)	(0)	(0)	(22)
	NET TOTAL	859	201	19	0	1,079
	% of Total	80	19	1	0	
Bigleaf Maple	Cruise Volume	0	0	0	16	16
	Hidden D&B (5%)	(0)	(0)	(0)	(1)	(1)
	NET TOTAL	0	0	0	15	15
	% of Total	0	0	0	100	

UNIT 3: MC (53 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	935	514	69	0	1,518
	Hidden D&B (2%)	(19)	(10)	(1)	(0)	(30)
	NET TOTAL	916	504	68	0	1,488
	% of Total	62	34	4	0	
Red Alder	Cruise Volume	0	0	0	155	155
	Hidden D&B (5%)	(0)	(0)	(0)	(8)	(8)
	NET TOTAL	0	0	0	147	147
	% of Total	0	0	0	100	
Bigleaf Maple	Cruise Volume	0	0	0	52	52
	Hidden D&B (5%)	(0)	(0)	(0)	(3)	(3)
	NET TOTAL	0	0	0	49	49
	% of Total	0	0	0	100	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	3,419	858	121	0	4,398
Red Alder	0	0	0	175	175
Bigleaf Maple	0	0	0	64	64
Total	3,419	858	121	239	4,637



LEGEND

- • • Timber Sale Boundary
- Stream Buffer Boundary
- ODF Ownership Boundary
- Surfaced Roads
- Unsurfaced Roads
- New Road Construction
- Type-F Stream
- Type-N Stream
- Stream Buffer
- Cable Yarding Area
- Tractor Yarding Area
- Cable Landing
- Tractor Landing
- Green Tree Retention Area
- Harvest Optional Area
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2022-W00259-01
 MAINLY SAIN
 PORTIONS OF SECTIONS 15 & 16, T1S, R5W, W.M.,
 WASHINGTON COUNTY, OREGON

Forest Grove District GIS
 November, 2021

This product is for informational use and may not be
 suitable for legal, engineering, or surveying purposes.



1:12,000

1 inch = 1,000 feet

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



APPROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	22	27
UNIT 2	15	18
UNIT 3	20	33
TOTAL	57	78