Timber Sale Appraisal
Power Trip

Sale FG-341-2020-W00556-01

District: Forest Grove **Date: March 24, 2020**

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$2,424,359.47	$60,887.75	$2,485,247.22
		Project Work:	($112,575.97)
		Advertised Value:	$2,372,671.25

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District: Forest Grove **Date: March 24, 2020**

Timber Description

Location: Portions of Sections 1 & 12, T1N, R7W, W.M., and portions of Sections 6, 7, 8, 9 & 17, T1N, R6W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	18	0	98
Western Hemlock / Fir	21	0	98
Alder (Red)	16	0	95

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	3,529	2,215	0	5,744
Western Hemlock / Fir	21	4	0	25
Alder (Red)	0	0	275	275
Total	3,550	2,219	275	6,044

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

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$888.08/MBF = $1,146/MBF - $257.92/MBF

BRANDING AND PAINTING COST ALLOWANCE = $2.00/MBF

FUEL COST ALLOWANCE = $3.00/Gallon

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

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

Other Costs (No Profit & Risk added):
Machine Time to Block/Waterbar Roads,and Skid Trails:
10 hours x $150/hour = $1,500
Machine Time to Pile Landing Slash and Sort Firewood:
20 hours x $150/hour = $3,000
Equipment Cleaning: 3 pieces x $1,000/Piece = $3,000
Slash Disposal: 9 acres x $200/acre = $1,800
Intermediate Supports: 4 @ $200 each = $800
TOTAL Other Costs (No Profit & Risk added) = $10,100

ROAD MAINTENANCE
Move-in: $2,852.10
General Road Maintenance: 9.9 miles x $3,328.44/mile = $32,951.56
TOTAL Road Maintenance: $35,803.66/6,044 MBF = $5.92/MBF

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District: Forest Grove **Date: March 24, 2020**

Logging Conditions

Combination#: 1

Douglas - Fir	94.21%
Western Hemlock / Fir	94.00%
Alder (Red)	93.43%

Logging System: Cable: Large Tower >=70 **Process:** Stroke Delimber

yarding distance: Long (1,500 ft) **downhill yarding:** No

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

loads / day: 9 **bd. ft / load:** 4600

cost / mbf: $149.76

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Large)

Combination#: 2

Douglas - Fir	5.79%
Western Hemlock / Fir	6.00%
Alder (Red)	6.57%

Logging System: Shovel **Process:** Manual Delimbing

yarding distance: Short (400 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: $60.28

machines: Shovel Logger

Timber Sale Appraisal
Power Trip

Sale FG-341-2020-W00556-01

District: Forest Grove **Date: March 24, 2020**

Logging Costs

Operating Seasons:	1.00	**Profit Risk:**	15%
Project Costs:	$112,575.97	**Other Costs (P/R):**	$0.00
Slash Disposal:	$0.00	**Other Costs:**	$10,100.00

Miles of Road

Road Maintenance: $5.92

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	$0.00	3.0	4.6
Western Hemlock / Fir	$0.00	3.0	4.0
Alder (Red)	$0.00	3.0	3.0

Timber Sale Appraisal
Power Trip

Sale FG-341-2020-W00556-01

District: Forest Grove **Date: March 24, 2020**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$144.58	$6.04	$0.73	$70.22	$0.00	$33.24	$0.00	$2.00	$1.67	$258.48
Western Hemlock / Fir									
$144.39	$6.04	$0.73	$80.75	$0.00	$34.79	$0.00	$2.00	$1.67	$270.37
Alder (Red)									
$143.88	$6.22	$0.73	$110.84	$0.00	$39.25	$0.00	$2.00	$1.67	$304.59

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$679.36	$420.88	$0.00
Western Hemlock / Fir	$0.00	$543.36	$272.99	$0.00
Alder (Red)	$0.00	$526.00	$221.41	$0.00

Timber Sale Appraisal
Power Trip

Sale FG-341-2020-W00556-01

District: Forest Grove **Date: March 24, 2020**

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,744	$420.88	$2,417,534.72
Western Hemlock / Fir	25	$272.99	$6,824.75
Alder (Red)	275	$221.41	$60,887.75

Gross Timber Sale Value

Recovery: $2,485,247.22

Prepared By: Kenton Burns **Phone:** 503-359-7477

PROJECT COST SUMMARY SHEET

Timber Sale: Power Trip
Sale Number: FG-341-2020-W00556-01

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION & RECONSTRUCTION

Road Segment	Length	Cost
F to G	8+25	$21,202.70
	8+25 stations	
	0.16 miles	

Total Rock =

124 cy	1½" - 0
736 cy	Pit-run

Move-in = $1,212.33

TOTAL PROJECT COST = $22,415.03

PROJECT NO. 2: ROAD IMPROVEMENT

Road Segment	Length	Cost
A to B	287+95	$19,285.38
C to D	152+65	$10,563.48
D to E	25+30	$11,157.89
H to I	72+50	$25,854.55
J to K	10+00	$5,565.07
L to M	13+00	$9,495.66
	561+40 stations	
	10.63 miles	

Total Rock =

750 cy	1½" - 0
3832 cy	4" - 0
1553 cy	Pit-run
24 cy	Riprap
50 ea	Boulders

Move-in & Within area moves = $4,684.16

TOTAL PROJECT COST = $86,606.20

PROJECT NO. 3: ROAD VACATING

Road Segment	Length	Cost
V1 to V2	4+50	$3,362.48
	4+50 stations	
	0.09 miles	

Move-in = $192.26

TOTAL PROJECT COST = $3,554.74

TOTAL CREDITS = $112,575.97

SUMMARY OF CONSTRUCTION COST

Timber Sale: Power Trip Sale Number: FG-341-2020-W00556-01

Road Segment: A to B Improvement: 287+95 stations

5.45 miles

PROJECT NO. 2

Improvement						
Clearing & grubbing (scatter)	0.25	ac @	$1,078.00	per acre =	$269.50	
Remove large stumps	10	ea @	$82.50	per ea =	$825.00	
End-haul						
Excavate & load	148	cy @	$1.64	per cy =	$242.45	
Haul	192	cy @	$0.70	per cy =	$134.53	
Compact waste area	192	cy @	$0.30	per cy =	$57.66	
Shape and compact waste material	192	cy @	$0.30	per cy =	$57.66	
Clean culvert inlet & outlet	1	ea @	$25.00	per ea =	$25.00	
Repair culvert inlet or outlet	1	ea @	$35.00	per ea =	$35.00	
Remove & reinstall existing culverts	2	ea @	$150.00	per ea =	$300.00	
Grade, ditch, & roll	287.95	sta @	$36.00	per sta =	$10,366.20	
				TOTAL IMPROVEMENT COSTS =		$12,312.99

CULVERTS

Culvert Bands						
18" Diameter	10	LF @	$20.00	per LF =	$200.00	
18" Band	1	ea @	$18.37	per ea =	$18.37	
Markers & Stakes						
Culvert Markers	14	ea @	$10.00	per ea =	$140.00	
Additional Installation Cost						
Culvert No. 1	1	hrs @	$175.00	per hr =	$175.00	
				TOTAL CULVERT COSTS =		$533.37

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$3.33	$11.07	$0.50	48	$715.20
				Subtotal =	48	$715.20
Surfacing rock						
Curve widening	1½" - 0	$3.33	$9.79	$1.22	120	$1,720.80
Surfacing rock	1½" - 0	$3.33	$11.07	$1.22	215	$3,358.30
Reclaimed rock	1½" - 0	$4.82	$0.73	$1.22	80	$541.60
				Subtotal =	415	$5,620.70

Totals		
	All Rock =	463
	1½" - 0 =	48
	1½" - 0 =	415

TOTAL ROCK COSTS = $6,335.90

EROSION CONTROL

Grass seed & fertilizer	0.13	ac @	$425.00	per ac =	$53.13	
Straw Mulch Bale	5	ea @	$10.00	per ea =	$50.00	
				TOTAL EROSION CONTROL COSTS =		$103.13

TOTAL PROJECT COST = $19,285.38

SUMMARY OF CONSTRUCTION COST

Timber Sale: Power Trip Sale Number: FG-341-2020-W00556-01

Road Segment: C to D Improvement: 152+65 stations

2.89 miles

PROJECT NO. 2

Improvement						
Grade, ditch, & roll	152.65	sta @	$36.00	per sta =	$5,495.40	
				TOTAL IMPROVEMENT COSTS =		$5,495.40
CULVERTS						
Culverts						
18" Diameter	30	LF @	$20.00	per LF =	$600.00	
Markers & Stakes						
Culvert Markers	10	ea @	$10.00	per ea =	$100.00	
				TOTAL CULVERT COSTS =		$700.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$3.33	$9.20	$0.50	36	$469.08
				Subtotal =	36	$469.08
Surfacing rock						
Spot rock	4" - 0	$1.78	$4.63	$1.22	500	$3,815.00
				Subtotal =	500	$3,815.00

Totals		
	All Rock =	536
	1½" - 0 =	36
	4" - 0 =	500

TOTAL ROCK COSTS = $4,284.08

EROSION CONTROL						
Grass seed & fertilizer	0.08	ac @	$425.00	per ac =	$34.00	
Straw Mulch Bale	5	ea @	$10.00	per ea =	$50.00	
				TOTAL EROSION CONTROL COSTS =		$84.00

TOTAL PROJECT COST = $10,563.48

SUMMARY OF CONSTRUCTION COST

Timber Sale: Power Trip | Sale Number: FG-341-2020-W00556-01

Road Segment: D to E | Improvement: 25+30 stations; 0.48 miles

PROJECT NO. 2

Improvement						
Clearing & grubbing (scatter)	1.03	ac @	$1,078.00	per acre =	$1,105.12	
Improve Turnarounds	1	ea @	$41.25	per ea =	$41.25	
Improve Roadside 50' landing	1	ea @	$82.50	per ea =	$82.50	
Improve 70' Landing	1	ea @	$157.00	per ea =	$157.00	
Grade & roll (outslope)	25.30	sta @	$32.20	per sta =	$814.66	

TOTAL IMPROVEMENT COSTS = $2,200.53

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Subgrade reinforcement	Pit Run	$3.69	$0.91	$0.75	53	$283.74
				Subtotal =	53	$283.74
Surfacing rock						
Surfacing rock	Pit-Run	$3.69	$0.91	$1.10	1,341	$7,647.91
Junction	Pit-Run	$3.69	$0.91	$1.10	12	$68.44
Turnaround	Pit Run	$3.69	$0.91	$1.10	10	$57.04
Roadside landing	Pit Run	$3.69	$0.91	$1.10	47	$268.07
70' Landing	Pit Run	$3.69	$0.91	$0.00	90	$414.32
				Subtotal =	1,500	$8,455.77

Totals		
	All Rock =	1,553
	Pit-run =	1,553

TOTAL ROCK COSTS = $8,739.51

EROSION CONTROL

Grass seed & fertilizer	0.51	ac @	$425.00	per ac =	$217.85

TOTAL EROSION CONTROL COSTS = $217.85

TOTAL PROJECT COST = $11,157.89

SUMMARY OF CONSTRUCTION COST

Timber Sale: Power Trip Sale Number: FG-341-2020-W00556-01

Road Segment: F to G Construction: 8+25 stations

0.16 miles

PROJECT NO. 1

CONSTRUCTION						
Clearing & grubbing (scatter)	0.95	ac @	$1,078.00	per ac =	$1,024.10	
Balanced road construction	0.90	sta @	$110.00	per sta =	$99.00	
Full Bench End-haul (0+90 to 5+90)						
Excavate & load	2,371	cy @	$1.64	per cy =	$3,888.44	
Haul to Waste A4	2,495	cy @	$1.08	per cy =	$2,694.60	
Haul to Waste A3	800	cy @	$1.37	per cy =	$1,096.00	
Compact waste area	3,295	cy @	$0.30	per cy =	$988.50	
Fill Construction						
Place and Compact fill	1,275	cy @	$2.90	per cy =	$3,697.50	
Drift	1,275	cy @	$0.90	per cy =	$1,147.50	
Turnarounds	1	ea @	$82.50	per ea =	$82.50	
70' Landing	1	ea @	$314.00	per ea =	$314.00	
Additional Landing Cost	255	cy @	$1.64	per cy =	$418.20	
Grade, ditch, & roll	8.25	sta @	$36.00	per sta =	$297.00	
				TOTAL CONSTRUCTION COSTS =		$15,747.34

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
Surfacing rock						
Traction rock	1½" - 0	$3.33	$7.17	$1.10	124	$1,435.50
Surfacing rock	Pit Run	$3.69	$0.55	$1.10	536	$2,865.49
Turnaround	Pit Run	$3.69	$0.55	$1.10	20	$106.87
70' Landing	Pit Run	$3.69	$0.55	$1.10	180	$961.84
				Subtotal =	736	$4,407.86

Totals		
	All Rock =	860
	1½" - 0 =	124
	Pit-run =	736

TOTAL ROCK COSTS = $4,407.86

EROSION CONTROL						
Grass seed & fertilizer	0.48	ac @	$500.00	per ac =	$237.50	
Straw mulch (bale)	20	ea @	$10.00	per ea =	$200.00	
				TOTAL EROSION CONTROL COSTS =		$437.50

TOTAL PROJECT COST = $21,202.70

SUMMARY OF CONSTRUCTION COST

Timber Sale: Power Trip | Sale Number: FG-341-2020-W00556-01

Road Segment: H to I | Improvement: 72+50 stations; 1.37 miles

PROJECT NO. 2

Improvement					
Clearing & grubbing (scatter)	0.57	ac @	$1,078.00	per acre =	$614.97
Remove large stumps	1	ea @	$82.50	per ea =	$82.50
Road widening (drift)	2.00	sta @	$110.00	per sta =	$220.00
Clean ditch & scatter waste material	0.10	sta @	$60.00	per sta =	$6.00
Clean ditch & end-haul waste material	9.70	sta @	$60.00	per sta =	$582.00
Haul waste material	71	cy @	$1.64	per cy =	$116.44
Shape and compact waste material	71	cy @	$0.30	per cy =	$21.30
Clean culvert inlet & outlet	5	ea @	$25.00	per ea =	$125.00
Repair culvert inlet or outlet	1	ea @	$35.00	per ea =	$35.00
Remove existing culverts	1	ea @	$150.00	per ea =	$150.00
End-haul					
Excavate & load	899	cy @	$1.64	per cy =	$1,474.18
Haul	1,169	cy @	$1.49	per cy =	$1,741.15
Compact waste area	1,169	cy @	$0.30	per cy =	$350.57
Improve Turnouts	2	ea @	$33.00	per ea =	$66.00
Construct Turnarounds	1	ea @	$82.50	per ea =	$82.50
Improve Turnarounds	1	ea @	$41.25	per ea =	$41.25
Improve Roadside 50' landing	1	ea @	$82.50	per ea =	$82.50
Improve 50' landing	1	ea @	$110.00	per ea =	$110.00
Improve 70' Landing	1	ea @	$157.00	per ea =	$157.00
Grade, ditch, & roll	72.50	sta @	$36.00	per sta =	$2,610.00

TOTAL IMPROVEMENT COSTS = $8,668.36

CULVERTS

Culverts and Bands					
18" Diameter	130	LF @	$20.00	per LF =	$2,600.00
Markers & Stakes					
Culvert Markers	8	ea @	$10.00	per ea =	$80.00
Half round stakes	2	ea @	$10.00	per ea =	$20.00
Additional Installation Cost					
Half round repair	0.75	hrs @	$175.00	per hr =	$131.25

TOTAL CULVERT COSTS = $2,831.25

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$3.33	$8.03	$0.50	96	$1,138.56
Energy dissipator	Riprap	$1.78	$3.46	$1.60	24	$164.16
				Subtotal =	120	$1,302.72
Surfacing rock						
Surfacing rock	4" - 0	$1.78	$3.23	$1.10	1,711	$10,454.21
Junction	4" - 0	$1.78	$3.23	$1.10	48	$293.28
Turnout	4" - 0	$1.78	$3.23	$1.10	38	$232.18
Turnaround	4" - 0	$1.78	$3.23	$1.10	28	$171.08
Roadside landing	4" - 0	$1.78	$3.23	$1.10	60	$366.60
50' Landing	4" - 0	$1.78	$3.23	$1.10	95	$580.45
70' Landing	4" - 0	$1.78	$3.23	$1.10	120	$733.20
				Subtotal =	2,100	$12,831.00

Totals	
All Rock =	2,220
1½" - 0 =	96
4" - 0 =	2,100
Riprap =	24

TOTAL ROCK COSTS = $14,133.72

EROSION CONTROL

Grass seed & fertilizer	0.29	ac @	$425.00	per ac =	$121.23
Straw Mulch Bale	10	ea @	$10.00	per ea =	$100.00

TOTAL EROSION CONTROL COSTS = $221.23

TOTAL PROJECT COST = $25,854.55

SUMMARY OF CONSTRUCTION COST

Timber Sale: Power Trip Sale Number: FG-341-2020-W00556-01

Road Segment: J to K Improvement: 10+00 stations; 0.19 miles

PROJECT NO. 2

Improvement						
Clearing & grubbing (scatter)	0.11	ac @	$1,078.00	per acre =	$123.74	
Clean ditch & end-haul waste material	0.90	sta @	$60.00	per sta =	$54.00	
Haul waste material	7	cy @	$1.64	per cy =	$11.48	
Shape and compact waste material	7	cy @	$0.30	per cy =	$2.10	
Clean culvert inlet & outlet	1	ea @	$25.00	per ea =	$25.00	
End-haul						
Excavate & load	57	cy @	$1.64	per cy =	$93.48	
Haul	75	cy @	$1.68	per cy =	$126.00	
Compact waste area	75	cy @	$0.30	per cy =	$22.50	
Improve Roadside 50' landing	1	ea @	$82.50	per ea =	$82.50	
Improve 70' Landing	1	ea @	$157.00	per ea =	$157.00	
Grade, ditch, & roll	10.00	sta @	$36.00	per sta =	$360.00	
				TOTAL IMPROVEMENT COSTS =		$1,057.80

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	1½" - 0	$3.33	$7.79	$0.50	24	$278.88
				Subtotal =	24	$278.88
Surfacing rock						
Surfacing rock	4" - 0	$1.78	$2.99	$1.22	420	$2,515.80
Roadside landing	4" - 0	$1.78	$2.99	$1.22	60	$359.40
70' Landing	4" - 0	$1.78	$2.99	$1.22	120	$718.80
				Subtotal =	600	$3,594.00

Totals		
	All Rock =	624
	1½" - 0 =	24
	4" - 0 =	600

TOTAL ROCK COSTS = $3,872.88

EROSION CONTROL

Grass seed & fertilizer	0.06	ac @	$425.00	per ac =	$24.39	
				TOTAL EROSION CONTROL COSTS =		$24.39

TOTAL PROJECT COST = $5,565.07

SUMMARY OF CONSTRUCTION COST

Timber Sale: Power Trip Sale Number: FG-341-2020-W00556-01

Road Segment: L to M Improvement: 13+00 stations; 0.25 miles

PROJECT NO. 2

Improvement					
Clearing & grubbing (scatter)	0.32	ac @	$1,078.00	per acre =	$346.46
Clean ditch & scatter waste material	6.50	sta @	$60.00	per sta =	$390.00
Clean ditch & end-haul waste material	3.50	sta @	$60.00	per sta =	$210.00
Haul waste material	26	cy @	$1.10	per cy =	$28.60
Shape and compact waste material	26	cy @	$0.30	per cy =	$7.80
End-haul					
Excavate & load	355	cy @	$1.64	per cy =	$582.20
Haul	462	cy @	$1.10	per cy =	$508.20
Compact waste area	462	cy @	$0.30	per cy =	$138.60
Approach to landing	1.20	sta @	$690.00	per sta =	$828.00
Improve 70' Landing	2	ea @	$157.00	per ea =	$314.00
Grade, ditch, & roll	13.00	sta @	$36.00	per sta =	$468.00

TOTAL IMPROVEMENT COSTS = $3,821.86

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	1½" - 0	$3.33	$7.30	$0.50	12	$133.56
				Subtotal =	12	$133.56
Surfacing rock						
Surfacing rock	4" - 0	$1.78	$2.46	$1.22	403	$2,200.38
Junction	4" - 0	$1.78	$2.46	$1.22	12	$65.52
Traction rock	1½" - 0	$3.33	$7.30	$1.22	119	$1,412.13
Approach to landing	4" - 0	$1.78	$2.46	$1.22	37	$201.11
70' Landing	4" - 0	$1.78	$2.46	$1.22	180	$982.80
				Subtotal =	751	$4,861.94

Totals		
	All Rock =	763
	1½" - 0 =	131
	4" - 0 =	632

TOTAL ROCK COSTS = $4,995.50

EROSION CONTROL

Grass seed & fertilizer	0.16	ac @	$425.00	per ac =	$68.30

TOTAL EROSION CONTROL COSTS = $68.30

TOTAL PROJECT COST = $9,495.66

SUMMARY OF CONSTRUCTION COST

Timber Sale: Power Trip Sale Number: FG-341-2020-W00556-01

Road Segment: V1 to V2 Vacating: 4+50 stations

0.09 miles

PROJECT NO. 3

Construct ditch out	1	ea @	$87.50	per ea =	$87.50
Construct settling ponds	5	ea @	$25.00	per ea =	$125.00
Rip rocked road surface	4.50	sta @	$50.00	per sta =	$225.00
Side cast / fill pullback	592	cy @	$2.12	per cy =	$1,255.04
Remove existing culverts	2	ea @	$150.00	per ea =	$300.00
Grass seed & fertilizer	0.20	ac @	$425.00	per ac =	$85.00
Mulch	0.20	ac @	$600.00	per ac =	$120.00

	Rock Size	Base Cost $/ea	Haul Cost $/ea	Placement/ Processing Cost $/ea	Total	Rock Cost
Rock						
Boulders	36"+	$5.96	$15.74	$1.60	50	$1,164.94

TOTAL PROJECT COST = $3,362.48

SUMMARY OF CONSTRUCTION COST

Timber Sale: Power Trip Sale Number: FG-341-2020-W00556-01

MOVE-IN, WITHIN AREA MOVE, & EQUIPMENT CLEANING COSTS

Equipment	Total
Grader	$991.23
Roller (smooth/grid) & Compactor	$653.23
Excavator (Large) - Equipment Cleaning	$2,027.71
Dozer (Large) - Equipment Cleaning	$2,072.29
Dump Truck (10cy +)	$172.15
Water Truck (2,500 Gal)	$172.15
TOTAL MOVE-IN COSTS =	**$6,088.76**

STOCKPILE COST SUMMARY

Timber Sale:	Power Trip
Sale Number:	FG-341-2020-W00556-01
Stockpile Name:	West C-Line

4" - 0:	3832 cy	(truck measure)
Riprap:	24 cy	(truck measure)
Total truck yardage:	3856 cy	

Load dump truck	$1.60	/ cy x	3856	cy =	$6,169.33
				Subtotal:	$6,169.33

Move in Loader & within area	$230.40
Move in Dump Truck	$459.00
Subtotal:	$689.40

TOTAL PRODUCTION COST =	$6,858.73
ROCK DEVELOPMENT COST =	$1.78/cy

STOCKPILE COST SUMMARY

Timber Sale:	Power Trip
Sale Number:	FG-341-2020-W00556-01
Stockpile Name:	Reload Stockpile

1 1/2" - 0:	874 cy	(truck measure)
Total truck yardage:	874 cy	

Load dump truck	$1.60	/ cy x	874	cy =	$1,398.40
				Subtotal:	$1,398.40
Move in Excavator					$1,247.98
Move in Dump Truck					$264.60
				Subtotal:	$1,512.58
				TOTAL PRODUCTION COST =	$2,910.98
				ROCK DEVELOPMENT COST =	$3.33/cy

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale:	Power Trip
Sale Number:	FG-341-2020-W00556-01
Name:	In sale rock source D to E

Pit-run:	2,413 cy	(truck measure)
Total truck yardage:	2,413 cy	
Total in place yardage:	1,856 cy	

Swell:	130%
Compaction:	116%

Base Cost

Quarry development & overburden removal					$200.00
Clean up quarry					$100.00
				Subtotal =	$300.00
				Per CY =	$0.12/cy

Pit-run Base Cost

Rip rock	$3.60	/ cy x	1,856	cy =	$6,681.88
Load dump truck	$0.80	/ cy x	2,413	cy =	$1,930.32
				Subtotal =	$8,612.20
				Per CY =	$3.57/cy
				Total =	$8,912.20

Pit-run Base Cost = **$3.69/cy**

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale:	Power Trip
Sale Number:	FG-341-2020-W00556-01
Stockpile Name:	7 Cedars
Boulders:	50 each
Total truck yardage:	50 each

Move-in					
Move in excavator					$215.09
Move in Dump Trucks					$2.85
				Subtotal =	$217.94
				Per ea =	$4.36
Boulder Base Cost					
Load dump truck	$1.60	/ ea x	50	ea =	$80.00
				Subtotal =	$80.00
				Per ea =	$1.60
				Total =	$217.94

Boulder Cost = **$5.96** **Each**

CRUISE REPORT
Power Trip
#FG-341-2020-W00556-01

1. LOCATION: Portions of sections 1 & 12, T1N, R7W, W.M., and portions of sections 6, 7, 8, 9 & 17, T1N, R6W, W.M., Tillamook County Or.

2. CRUISE DESIGN:
Pre-cruise evaluation indicated that the stand's average DBH is approximately 16 inches with a Coefficient of Variation of about 58%. For sales of this size and approximate value, ODF cruise standards require a Sampling Error of 9% at a 68% confidence level, and a minimum sample size of 100 graded trees. Statistical analysis indicated that 41 variable radius plots utilizing a 40 BAF prism would produce an adequate sample size.

3. SAMPLING METHOD:
The Timber Sale Area was cruised in March 2020. Sale Areas 1, & 2 were sampled with 42 variable radius grade plots laid out on a 5 chain x 8 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain

4. CRUISE RESULTS:
218 trees were measured and graded producing a cumulative Sampling Error of 6.6% on the Basal Area and 6.9% on the Board Foot Volume.

5. TREE MEASUREMENT AND GRADING:
All sample trees were measured and graded following Columbia River Log Scale grade rules and favored 40 foot segments.

a) **Height Standards:** Total tree heights were measured to the nearest foot. For conifers, bole heights were calculated to a six inch top. For hardwoods, bole heights were calculated to a seven inch top.

b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.

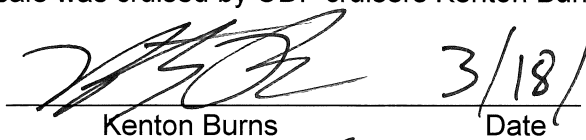
c) **Form Factors:** Measured for each grade tree using a form point of 16 feet.

5. DATA PROCESSING

a) **Volumes and Statistics:** Cruise estimates and sampling statistics, were derived from Super Ace 2008 cruise software

b) **Deductions:** For conifers, two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage. For hardwoods, five percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

6. CRUISERS: The sale was cruised by ODF cruisers Kenton Burns and Mark Savage

Prepared by:  3/18/20

Kenton Burns Date

Reviewed by:  3/18/20

Mark Savage Date

TC PSTATS

PROJECT STATISTICS

PROJECT **PWRTRP**

DATE 3/18/2020

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01N	07	01	00A1	00MC	69.00	18	105	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	18	105	5.8		
CRUISE	18	105	5.8	8,995	1.2
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	99	115.9	18.7	115	50.9	220.0	40,632	40,428	9,044	9,044
R ALDER	3	6.4	13.9	63	1.8	6.7	474	474	169	169
BL MAPLE	3	8.1	12.3	67	1.9	6.7	170	170	27	27
TOTAL	*105*	*130.4*	*18.1*	*109*	*54.8*	*233.3*	*41,275*	*41,071*	*9,241*	*9,241*

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
DOUG FIR	59.7	6.0	477	508	538			
R ALDER	38.6	26.7	61	83	106			
BL MAPLE	173.2	119.8		20	44			
TOTAL	*64.9*	*6.3*	*451*	*482*	*512*	*168*	*42*	*19*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	**SAMPLE TREES - CF** LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	56.9	5.7	106	112	119			
R ALDER	65.9	45.6	18	33	47			
BL MAPLE	173.2	119.8		3	7			
TOTAL	*61.7*	*6.0*	*100*	*107*	*113*	*152*	*38*	*17*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	**TREES/ACRE** LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	65.7	15.9	97	116	134			
R ALDER	245.6	59.5	3	6	10			
BL MAPLE	424.3	102.8		8	16			
TOTAL	*63.2*	*15.3*	*110*	*130*	*150*	*169*	*42*	*19*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	**BASAL AREA/ACRE** LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	45.9	11.1	196	220	244			
R ALDER	230.1	55.8	3	7	10			
BL MAPLE	424.3	102.8		7	14			
TOTAL	*44.9*	*10.9*	*208*	*233*	*259*	*85*	*21*	*9*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	**NET BF/ACRE** LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	45.5	11.0	35,974	40,428	44,882			
R ALDER	231.5	56.1	208	474	740			
BL MAPLE	424.3	102.8		170	344			
TOTAL	*44.9*	*10.9*	*36,602*	*41,071*	*45,541*	*85*	*21*	*9*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	**NET CUFT FT/ACRE** LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	45.3	11.0	8,051	9,044	10,038			
R ALDER	232.1	56.2	74	169	264			

PROJECT STATISTICS

PROJECT PWRTRP

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01N	07	01	00A1	00MC	69.00	18	105	S	W

			NET CUFT FT/ACRE			# OF PLOTS REQ.		
CL 68.1	COEFF							INF. POP.
SD: 1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
BL MAPLE	424.3	102.8		27	55			
TOTAL	*44.5*	*10.8*	*8,245*	*9,241*	*10,236*	*84*	*21*	*9*

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 3/18/2020

T01N R07W S01 Ty00MC 69.00

Project PWRTRP
Acres 69.00

Time: 12:28:05PM
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.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		10	3	85	94	12.223	6.67	12.22	13.2	60.0	4.60	161	733	317	111	51
DF		11	1	88	94	3.367	2.22	6.73	9.5	40.0	1.83	64	269	126	44	19
DF		12	2	88	92	5.659	4.44	8.49	15.1	63.3	3.65	128	538	252	88	37
DF		13	4	88	102	9.643	8.89	19.29	15.2	63.7	8.33	292	1,230	575	202	85
DF		14	2	85	110	4.158	4.44	8.32	18.6	75.0	4.41	155	624	304	107	43
DF		15	6	88	106	10.865	13.33	19.92	22.9	104.5	13.01	457	2,082	898	315	144
DF		16	2	88	112	3.183	4.44	6.37	27.2	120.0	4.94	173	764	341	120	53
DF		17	10	88	115	14.098	22.22	31.02	27.0	114.1	23.85	837	3,539	1,646	577	244
DF		18	5	88	118	6.288	11.11	13.83	31.6	127.3	12.46	437	1,761	860	302	121
DF		19	5	88	131	5.643	11.11	16.93	29.0	126.0	14.00	491	2,133	966	339	147
DF		20	3	89	119	3.056	6.67	8.15	34.3	145.0	7.96	279	1,182	549	193	82
DF		21	5	88	130	4.619	11.11	12.93	38.6	175.0	14.24	500	2,264	982	345	156
DF		22	9	89	126	7.576	20.00	21.89	40.1	185.0	25.00	877	4,049	1,725	605	279
DF		23	10	87	126	7.702	22.22	21.57	43.7	199.3	26.84	942	4,298	1,852	650	297
DF		24	4	89	136	2.829	8.89	8.49	50.5	233.3	12.21	428	1,981	843	296	137
DF		25	7	88	134	4.563	15.56	13.69	52.2	236.7	20.38	715	3,240	1,406	493	224
DF		26	3	88	134	1.808	6.67	5.42	57.6	268.9	8.91	313	1,459	615	216	101
DF		27	2	84	146	1.118	4.44	3.91	56.2	261.4	6.26	220	1,023	432	152	71
DF		28	5	86	127	2.598	11.11	7.80	60.7	274.0	13.50	474	2,136	931	327	147
DF		29	5	86	144	2.422	11.11	7.75	67.4	330.0	14.89	522	2,558	1,027	360	177
DF		30	2	86	135	.905	4.44	2.72	73.3	343.3	5.67	199	933	391	137	64
DF		31	1	83	148	.424	2.22	1.70	58.5	292.5	2.83	99	496	195	68	34
DF		32	2	83	113	.796	4.44	1.99	90.0	360.0	5.11	179	716	352	124	49
DF		33	1	84	133	.374	2.22	1.12	90.3	376.7	2.89	101	423	199	70	29
DF		Totals	99	87	115	115.920	220.00	262.23	34.5	154.2	257.76	9,044	40,428	17,786	6,241	2,790
RA		12	1	86	54	2.829	2.22	2.83	16.8	60.0	1.31	48	170	90	33	12
RA		13	1	80	71	2.411	2.22	2.41	23.8	70.0	1.58	57	169	109	40	12
RA		19	1	69	69	1.129	2.22	1.13	56.9	120.0	1.77	64	135	122	44	9
RA		Totals	3	81	63	6.369	6.67	6.37	26.6	74.4	4.65	169	474	321	117	33
BM		12	2	90	70	5.659	4.44	5.66	4.8	30.0	.72	27	170	50	19	12
BM		13	1	88	60	2.411	2.22	2.41								
BM		Totals	3	89	67	8.070	6.67	8.07	3.4	21.0	.72	27	170	50	19	12
Totals			105	87	109	130.358	233.33	276.67	33.4	148.4	263.14	9,241	41,071	18,157	6,376	2,834

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T01N R07W S01 Ty00MC 69.00

Project: **PWRTRP**

Acres **69.00**

Page **1**
Date **3/18/2020**
Time **12:28:04PM**

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: 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			CU														11	11		0.00	12.6
DF			2M	61	.8	24,854	24,659	1,701			55	45	2	3		95	39	15	349	1.87	70.6
DF			3M	35	.1	14,444	14,435	996		100				2	2	96	39	8	104	0.66	138.3
DF			4M	4		1,333	1,333	92		100			40	60			21	6	25	0.35	53.3
DF	**Totals**			98	.5	40,632	40,428	2,790		39	34	27	3	4	1	92	34	10	147	0.97	274.8
RA			R	100		474	474	33		100					36	64	36	7	74	0.73	6.4
RA	**Totals**			1		474	474	33		100					36	64	36	7	74	0.73	6.4
BM			CU														25	7		0.00	8.1
BM			R	100		170	170	12		100			100				15	10	21	0.23	8.1
BM	**Totals**			0		170	170	12		100			100				20	9	11	0.08	16.1
Totals					0.5	41,275	41,071	2,834		40	33	27	3	4	1	92	33	10	138	0.93	297.3

TC PLOGSTVB

Log Stock Table - MBF

T01N R07W S01 Ty00MC 69.00

Project: PWRTRP
Acres 69.00

Page 1
Date 3/18/2020
Time 12:28:04PM

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		2M	12	5		5	.2								5				
DF		2M	16	22		22	.8						10			12			
DF		2M	18	8		8	.3								8				
DF		2M	24	16		16	.6								16				
DF		2M	26	30		30	1.1								14	16			
DF		2M	40	1,634		1,621	58.1						365	356	683	217			
DF		3M	26	14		14	.5					14							
DF		3M	28	1		1	.0				1								
DF		3M	32	14		14	.5			14									
DF		3M	34	8		8	.3			8									
DF		3M	36	24		24	.9			24									
DF		3M	38	53		53	1.9			42	6	5							
DF		3M	40	883		882	31.6			158	257	468							
DF		4M	12	5		5	.2			5									
DF		4M	14	9		9	.3			9									
DF		4M	16	10		10	.3			10									
DF		4M	18	4		4	.1			4									
DF		4M	20	9		9	.3			7	1								
DF		4M	22	9		9	.3			9									
DF		4M	24	13		13	.5			13									
DF		4M	26	3		3	.1			3									
DF		4M	28	20		20	.7			20									
DF		4M	30	10		10	.4			10									
DF		Totals		2,804		2,790	98.4			336	265	487	374	356	726	245			
RA		R	32	12		12	35.8			12									
RA		R	40	21		21	64.2			12	9								
RA		Totals		33		33	1.2			23	9								
BM		R	16	12		12	100.0					12							
BM		Totals		12		12	.4					12							
Total		All Species		2,848		2,834	100.0			359	274	499	374	356	726	245			

TC PSTATS

PROJECT STATISTICS

PROJECT **PWRTRP**

DATE 3/18/2020

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01N	07	00	00A2	00MC	104.00	24	113	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	24	113	4.7		
CRUISE	24	113	4.7	12,938	.9
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	99	108.6	16.7	103	40.4	165.0	29,629	29,379	6,597	6,597
R ALDER	13	15.1	16.2	90	5.4	21.7	2,493	2,450	703	703
WHEMLOCK	1	.7	21.0	98	0.4	1.7	243	243	65	65
TOTAL	*113*	*124.4*	*16.7*	*101*	*46.1*	*188.3*	*32,365*	*32,072*	*7,365*	*7,365*

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

SAMPLE TREES - BF

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	79.6	8.0	460	500	540			
R ALDER	35.5	10.2	155	172	190			
WHEMLOCK								
TOTAL	*84.1*	*7.9*	*424*	*461*	*497*	*282*	*71*	*31*

CL 68.1 SD: 1.0

SAMPLE TREES - CF

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	71.9	7.2	102	110	118			
R ALDER	26.7	7.7	45	49	53			
WHEMLOCK								
TOTAL	*74.5*	*7.0*	*96*	*103*	*110*	*222*	*55*	*25*

CL 68.1 SD: 1.0

TREES/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	79.4	16.5	91	109	127			
R ALDER	283.7	59.1	6	15	24			
WHEMLOCK	489.9	102.1		1	1			
TOTAL	*67.1*	*14.0*	*107*	*124*	*142*	*187*	*47*	*21*

CL 68.1 SD: 1.0

BASAL AREA/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	49.2	10.2	148	165	182			
R ALDER	282.8	58.9	9	22	34			
WHEMLOCK	489.9	102.1		2	3			
TOTAL	*40.8*	*8.5*	*172*	*188*	*204*	*69*	*17*	*8*

CL 68.1 SD: 1.0

NET BF/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	52.4	10.9	26,170	29,379	32,587			
R ALDER	320.7	66.8	813	2,450	4,087			
WHEMLOCK	489.9	102.1		243	490			
TOTAL	*44.9*	*9.3*	*29,074*	*32,072*	*35,069*	*84*	*21*	*9*

CL 68.1 SD: 1.0

NET CUFT FT/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	50.8	10.6	5,899	6,597	7,294			
R ALDER	303.3	63.2	259	703	1,147			

TC PSTATS

PROJECT STATISTICS

PROJECT PWRTRP

DATE 3/18/2020

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01N	07	00	00A2	00MC	104.00	24	113	S	W

CL 68.1
SD: 1.00

	COEFF VAR.	S.E.%	NET CUFT FT/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHEMLOCK	489.9	102.1		65	131			
TOTAL	*42.7*	*8.9*	*6,709*	*7,365*	*8,020*	*76*	*19*	*8*

TC PSTNDSUM

Stand Table Summary

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Date: 3/18/2020

T01N R07W S00 Ty00MC 104.00

Project PWRTRP
Acres 104.00

Time: 12:29:09PM
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.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		8	1	87	67	4.775	1.67	4.77	4.6	20.0	.63	22	95	66	23	10
DF		9	5	87	78	18.863	8.33	18.86	8.7	50.0	4.69	165	943	488	171	98
DF		10	2	88	80	6.112	3.33	6.11	12.8	60.0	2.22	78	367	231	81	38
DF		11	2	88	91	5.051	3.33	10.10	9.1	40.0	2.62	92	404	273	96	42
DF		12	5	87	80	10.610	8.33	16.98	11.8	47.5	5.73	201	806	596	209	84
DF		13	3	87	90	5.424	5.00	10.85	13.4	51.7	4.13	145	561	429	151	58
DF		14	4	88	104	6.236	6.67	12.47	18.3	77.5	6.52	229	967	678	238	101
DF		15	2	88	112	2.716	3.33	5.43	22.8	100.0	3.53	124	543	367	129	56
DF		16	4	88	113	4.775	6.67	9.55	26.7	115.0	7.26	255	1,098	755	265	114
DF		17	6	89	121	6.344	10.00	15.86	25.8	110.0	11.68	410	1,745	1,214	426	181
DF		18	7	89	125	6.602	11.67	16.98	29.4	123.9	14.23	499	2,103	1,480	519	219
DF		19	5	87	119	4.232	8.33	10.16	33.1	133.3	9.60	337	1,354	998	350	141
DF		20	5	89	125	3.820	8.33	10.70	34.3	151.4	10.45	367	1,620	1,087	381	168
DF		21	7	89	128	4.850	11.67	13.86	37.8	169.0	14.94	524	2,342	1,553	545	244
DF		22	3	89	139	1.894	5.00	5.68	43.4	205.6	7.03	247	1,168	731	257	121
DF		23	7	87	124	4.044	11.67	10.98	45.9	198.9	14.37	504	2,184	1,495	524	227
DF		24	3	89	138	1.592	5.00	4.24	56.4	256.3	6.82	239	1,088	709	249	113
DF		25	2	86	108	.978	3.33	2.44	51.8	208.0	3.61	127	508	375	132	53
DF		26	5	86	139	2.260	8.33	6.78	57.4	263.3	11.09	389	1,786	1,154	405	186
DF		27	1	86	134	.419	1.67	1.26	61.8	270.0	2.22	78	340	230	81	35
DF		28	6	86	131	2.339	10.00	7.02	65.3	289.4	13.05	458	2,031	1,357	476	211
DF		29	7	86	144	2.543	11.67	8.72	65.6	312.9	16.31	572	2,729	1,696	595	284
DF		30	3	84	123	1.019	5.00	3.06	71.1	314.4	6.19	217	961	644	226	100
DF		31	1	87	152	.318	1.67	.95	88.9	443.3	2.42	85	423	251	88	44
DF		32	1	81	137	.298	1.67	1.19	55.9	282.5	1.90	67	337	198	69	35
DF		34	1	84	129	.264	1.67	.79	95.5	450.0	2.16	76	357	225	79	37
DF		38	1	89	154	.212	1.67	.85	108.3	615.0	2.61	92	521	272	95	54
DF		Totals	99	88	103	108.590	165.00	216.64	30.4	135.6	188.01	6,597	29,379	19,553	6,861	3,055
RA		14	3	81	88	4.677	5.00	7.80	20.4	70.0	4.37	159	546	454	165	57
RA		15	2	81	97	2.716	3.33	5.43	20.0	72.5	2.99	109	394	311	113	41
RA		16	1	80	76	1.194	1.67	1.19	40.4	100.0	1.32	48	119	138	50	12
RA		17	3	81	102	3.172	5.00	6.34	30.4	116.7	5.31	193	740	552	201	77
RA		18	2	79	79	1.886	3.33	3.77	27.0	77.5	2.80	102	292	291	106	30
RA		19	1	84	96	.846	1.67	1.69	29.4	115.0	1.37	50	195	142	52	20
RA		22	1	79	73	.631	1.67	1.26	33.9	130.0	1.18	43	164	122	45	17
RA		Totals	13	81	90	15.123	21.67	27.49	25.6	89.1	19.34	703	2,450	2,011	731	255
WH		21	1	86	98	.693	1.67	1.39	46.8	175.0	2.07	65	243	216	67	25
WH		Totals	1	86	98	.693	1.67	1.39	46.8	175.0	2.07	65	243	216	67	25
Totals			113	87	101	124.406	188.33	245.52	30.0	130.6	209.42	7,365	32,072	21,779	7,659	3,335

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T01N R07W S00 Ty00MC 104.00

Project: **PWRTRP**
Acres **104.00**

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Date 3/18/2020
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Spp	ST	So Grad	% 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		CU														8	9		0.00	4.3
DF		2M	61	1.1	18,376	18,183	1,891			60	40	1	1	0	97	40	15	348	1.86	52.2
DF		3M	33	.6	9,717	9,660	1,005		99	1			1	8	91	38	8	92	0.59	105.1
DF		4M	6		1,536	1,536	160		100			35	50		15	21	6	26	0.32	59.3
DF	**Totals**		92	.8	29,629	29,379	3,055		38	37	25	2	4	3	91	33	9	133	0.90	220.9
RA		CU														4	14		0.00	1.5
RA		R	100	1.7	2,493	2,450	255		90	10		8	14	5	73	32	9	89	0.81	27.5
RA	**Totals**		8	1.7	2,493	2,450	255		90	10		8	14	5	73	30	9	85	0.80	29.0
WH		2M	82		201	201	21			100					100	40	14	290	1.74	.7
WH		4M	18		42	42	4		100						100	38	6	60	0.63	.7
WH	**Totals**		1		243	243	25		17	83					100	39	10	175	1.20	1.4
Totals				0.9	32,365	32,072	3,335		41	36	23	3	4	3	90	33	9	128	0.89	251.3

TC PLOGSTVB

Log Stock Table - MBF

T01N R07W S00 Ty00MC 104.00

Project: PWRTRP
Acres 104.00

Date 3/18/2020
Time 12:29:07PM

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		2	M	20	19	8.2	17	.6							4		13			
DF		2	M	30	30	12.6	26	.9						8			18			
DF		2	M	34	5		5	.2						5						
DF		2	M	40	1,858		1,843	60.3						468	400	642	301	32		
DF		3	M	26	1		1	.0				1								
DF		3	M	28	4		4	.1			4									
DF		3	M	32	72		72	2.4			72									
DF		3	M	34	11		11	.4			11									
DF		3	M	36	50		50	1.6			43	8								
DF		3	M	38	42		42	1.4			42									
DF		3	M	40	830		824	27.0			185	303	322		14					
DF		4	M	12	13		13	.4			12	1								
DF		4	M	14	7		7	.2			7									
DF		4	M	16	16		16	.5			16									
DF		4	M	18	9		9	.3			9									
DF		4	M	20	11		11	.4			11									
DF		4	M	22	11		11	.4			10	1								
DF		4	M	24	33		33	1.1			33									
DF		4	M	26	9		9	.3			9									
DF		4	M	28	12		12	.4			12									
DF		4	M	30	16		16	.5			16									
DF		4	M	36	24		24	.8			24									
DF		Totals			3,081		3,055	91.6			515	314	322	481	418	642	332	32		
RA		R		16	5		5	1.9			5									
RA		R		18	3		3	1.2			3									
RA		R		20	12		12	4.8							12					
RA		R		24	25		25	9.7			11				14					
RA		R		26	3		3	1.3				3								
RA		R		28	7		7	2.8			7									
RA		R		32	13		13	5.2			13									
RA		R		40	191	2.3	186	73.2			11	88	87							
RA		Totals			259	1.7	255	7.6			50	92	87		26					
WH		2	M	40	21		21	82.9							21					
WH		4	M	38	4		4	17.1			4									
WH		Totals			25		25	.8			4				21					

TC PLOGSTVB

Log Stock Table - MBF

T01N R07W S00 Ty00MC 104.00

Project: PWRTRP
Acres 104.00

Date 3/18/2020
Time 12:29:07PM

Spp	S T	So Grt	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+
Total		All Species			3,366		3,335	100.0			569	405	409	481	465	642	332	32		

TC PSTATS

PROJECT STATISTICS

PROJECT PWRTRP

DATE 3/18/2020

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01N	07	00	00A2	00MC	173.00	42	218	S	W
01N	07W	01	00A1	00MC					

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	42	218	5.2		
CRUISE	42	218	5.2	21,933	1.0
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
DOUG FIR	198	111.5	17.5	108	44.6	186.9	34,017	33,786	7,573	7,573
R ALDER	16	11.6	15.7	84	4.0	15.7	1,688	1,662	490	490
BL MAPLE	3	3.2	12.3	67	0.8	2.7	68	68	11	11
WHEMLOCK	1	.4	21.0	98	0.2	1.0	146	146	39	39
TOTAL	*218*	*126.8*	*17.3*	*105*	*49.6*	*206.3*	*35,919*	*35,661*	*8,113*	*8,113*

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
DOUG FIR	70.0	5.0	479	504	529			
R ALDER	42.7	11.0	138	156	173			
BL MAPLE	173.2	119.8		20	44			
WHEMLOCK								
TOTAL	*74.9*	*5.1*	*447*	*471*	*495*	*224*	*56*	*25*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	64.5	4.6	106	111	116			
R ALDER	33.9	8.8	42	46	50			
BL MAPLE	173.2	119.8		3	7			
WHEMLOCK								
TOTAL	*68.3*	*4.6*	*100*	*105*	*110*	*186*	*47*	*21*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	73.5	11.3	99	112	124			
R ALDER	304.7	47.0	6	12	17			
BL MAPLE	648.1	99.9	0	3	6			
WHEMLOCK	648.1	99.9	0	0	1			
TOTAL	*64.9*	*10.0*	*114*	*127*	*139*	*168*	*42*	*19*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	47.8	7.4	173	187	201			
R ALDER	317.8	49.0	8	16	23			
BL MAPLE	648.1	99.9	0	3	5			
WHEMLOCK	648.1	99.9	0	1	2			
TOTAL	*42.5*	*6.6*	*193*	*206*	*220*	*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
DOUG FIR	49.5	7.6	31,206	33,786	36,365			
R ALDER	380.2	58.6	688	1,662	2,636			
BL MAPLE	648.1	99.9	0	68	135			
WHEMLOCK	648.1	99.9	0	146	291			

PROJECT STATISTICS

PROJECT PWRTRP

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01N	07	00	00A2	00MC	173.00	42	218	S	W
01N	07W	01	00A1	00MC					

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	*44.8*	*6.9*	*33,196*	*35,661*	*38,127*	*80*	*20*	*9*

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	48.6	7.5	7,006	7,573	8,140			
R ALDER	351.2	54.1	225	490	756			
BL MAPLE	648.1	99.9	0	11	22			
WHEMLOCK	648.1	99.9	0	39	78			
TOTAL	*43.4*	*6.7*	*7,570*	*8,113*	*8,656*	*75*	*19*	*8*

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 3/18/2020

T01N R07W S00 Ty00MC 104.00
T01N R07W S01 Ty00MC 69.00

Project PWRTRP
Acres 173.00

Time: 12:30:03PM
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.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		8	1	87	67	2.870	1.00	2.87	4.6	20.0	.38	13	57	66	23	10
DF		9	5	87	78	11.339	5.01	11.34	8.7	50.0	2.82	99	567	488	171	98
DF		10	5	86	88	8.549	4.66	8.55	13.0	60.0	3.17	111	513	549	193	89
DF		11	3	88	92	4.379	2.89	8.76	9.2	40.0	2.31	81	350	399	140	61
DF		12	7	87	83	8.635	6.78	13.59	12.7	51.4	4.90	172	699	848	297	121
DF		13	7	88	97	7.107	6.55	14.21	14.3	58.2	5.81	204	827	1,004	352	143
DF		14	6	87	105	5.407	5.78	10.81	18.4	76.7	5.68	199	830	982	345	144
DF		15	8	88	108	5.966	7.32	11.21	22.9	103.2	7.31	257	1,157	1,265	444	200
DF		16	6	88	113	4.140	5.78	8.28	26.8	116.5	6.33	222	965	1,096	384	167
DF		17	16	88	117	9.437	14.87	21.91	26.5	112.3	16.53	580	2,460	2,860	1,004	426
DF		18	12	89	122	6.477	11.45	15.72	30.2	125.1	13.52	475	1,967	2,340	821	340
DF		19	10	87	125	4.795	9.44	12.86	31.0	129.5	11.35	398	1,665	1,964	689	288
DF		20	8	89	123	3.515	7.67	9.68	34.3	149.3	9.46	332	1,445	1,636	574	250
DF		21	12	89	129	4.758	11.45	13.49	38.1	171.3	14.66	514	2,311	2,536	890	400
DF		22	12	89	130	4.160	10.98	12.15	41.0	190.8	14.20	498	2,317	2,456	862	401
DF		23	17	87	125	5.503	15.88	15.20	44.7	199.1	19.35	679	3,027	3,347	1,174	524
DF		24	7	89	137	2.085	6.55	5.94	53.0	243.2	8.97	315	1,444	1,552	544	250
DF		25	9	88	128	2.408	8.21	6.93	52.1	230.6	10.30	361	1,598	1,781	625	276
DF		26	8	87	137	2.080	7.67	6.24	57.5	265.3	10.22	359	1,655	1,768	620	286
DF		27	3	85	141	.698	2.77	2.32	58.0	264.2	3.83	134	612	663	232	106
DF		28	11	86	129	2.442	10.44	7.33	63.3	282.9	13.23	464	2,073	2,288	803	359
DF		29	12	86	144	2.495	11.45	8.33	66.3	319.3	15.74	552	2,661	2,724	956	460
DF		30	5	85	128	.973	4.78	2.92	71.9	325.2	5.98	210	950	1,035	363	164
DF		31	2	85	150	.360	1.89	1.25	72.4	361.7	2.58	91	452	446	157	78
DF		32	3	82	121	.497	2.77	1.51	73.8	323.2	3.18	112	488	550	193	84
DF		33	1	84	133	.149	.89	.45	90.3	376.7	1.15	40	169	199	70	29
DF		34	1	84	129	.159	1.00	.48	95.5	450.0	1.30	46	215	225	79	37
DF		38	1	89	154	.127	1.00	.51	108.3	615.0	1.57	55	313	272	95	54
DF		Totals	198	88	108	111.513	186.94	234.83	32.2	143.9	215.83	7,573	33,786	37,338	13,101	5,845
RA		12	1	86	54	1.128	.89	1.13	16.8	60.0	.52	19	68	90	33	12
RA		13	1	80	71	.962	.89	.96	23.8	70.0	.63	23	67	109	40	12
RA		14	3	81	88	2.812	3.01	4.69	20.4	70.0	2.63	96	328	454	165	57
RA		15	2	81	97	1.633	2.00	3.27	20.0	72.5	1.80	65	237	311	113	41
RA		16	1	80	76	.718	1.00	.72	40.4	100.0	.80	29	72	138	50	12
RA		17	3	81	102	1.907	3.01	3.81	30.4	116.7	3.19	116	445	552	201	77
RA		18	2	79	79	1.134	2.00	2.27	27.0	77.5	1.68	61	176	291	106	30
RA		19	2	77	83	.959	1.89	1.47	37.8	116.5	1.53	56	171	264	96	30
RA		22	1	79	73	.380	1.00	.76	33.9	130.0	.71	26	99	122	45	17
RA		Totals	16	81	84	11.632	15.68	19.07	25.7	87.2	13.48	490	1,662	2,332	848	288
WH		21	1	86	98	.417	1.00	.83	46.8	175.0	1.25	39	146	216	67	25
WH		Totals	1	86	98	.417	1.00	.83	46.8	175.0	1.25	39	146	216	67	25
BM		12	2	90	70	2.257	1.77	2.26	4.8	30.0	.29	11	68	50	19	12
BM		13	1	88	60	.962	.89	.96								
BM		Totals	3	89	67	3.219	2.66	3.22	3.4	21.0	.29	11	68	50	19	12
Totals			218	87	105	126.780	206.28	257.95	31.5	138.2	230.84	8,113	35,661	39,936	14,035	6,169

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T01N R07W S00 Ty00MC	104.00	**Project:**	**PWRTRP**
T01N R07W S01 Ty00MC	69.00	**Acres**	**173.00**

Page 1
Date 3/18/2020
Time 12:30:02PM

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		CU														10	10		0.00	7.6
DF		2M	61	.9	20,960	20,766	3,592			58	42	1	2	0	96	39	15	349	1.87	59.6
DF		3M	34	.3	11,602	11,565	2,001		99	1			1	5	94	39	8	98	0.62	118.3
DF		4M	5		1,455	1,455	252		100			37	54		9	21	6	26	0.33	56.9
DF	**Totals**		95	.7	34,017	33,786	5,845		38	36	26	2	4	2	92	34	9	139	0.93	242.4
RA		CU														4	14		0.00	.9
RA		R	100	1.5	1,688	1,662	288		91	9		7	12	9	72	32	8	87	0.80	19.1
RA	**Totals**		5	1.5	1,688	1,662	288		91	9		7	12	9	72	31	9	83	0.79	20.0
WH		2M	82		121	121	21			100					100	40	14	290	1.74	.4
WH		4M	18		25	25	4		100						100	38	6	60	0.63	.4
WH	**Totals**		0		146	146	25		17	83					100	39	10	175	1.20	.8
BM		CU														25	7		0.00	3.2
BM		R	100		68	68	12		100			100				15	10	21	0.23	3.2
BM	**Totals**		0		68	68	12		100			100				20	9	11	0.08	6.4
Totals				0.7	35,919	35,661	6,169		41	35	25	3	4	2	91	33	9	132	0.91	269.7

TC PLOGSTVB

Log Stock Table - MBF

T01N R07W S00 Ty00MC 104.00
T01N R07W S01 Ty00MC 69.00

Project: PWRTRP
Acres 173.00

Date 3/18/2020
Time 12:30:01PM

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			2M	12	5		5	.1								5				
DF			2M	16	22		22	.4						10			12			
DF			2M	18	8		8	.1								8				
DF			2M	20	19	8.2	17	.3							4		13			
DF			2M	24	16		16	.3								16				
DF			2M	26	30		30	.5								14	16			
DF			2M	30	30	12.6	26	.4						8			18			
DF			2M	34	5		5	.1						5						
DF			2M	40	3,492		3,463	59.3						832	756	1325	518	32		
DF			3M	26	15		15	.3				1	14							
DF			3M	28	5		5	.1			4	1								
DF			3M	32	86		86	1.5			86									
DF			3M	34	19		19	.3			19									
DF			3M	36	74		74	1.3			66	8								
DF			3M	38	95		95	1.6			84	6	5							
DF			3M	40	1,713		1,706	29.2			343	559	790		14					
DF			4M	12	18		18	.3			18	1								
DF			4M	14	16		16	.3			16									
DF			4M	16	25		25	.4			25									
DF			4M	18	13		13	.2			13									
DF			4M	20	20		20	.3			19	1								
DF			4M	22	20		20	.3			19	1								
DF			4M	24	46		46	.8			46									
DF			4M	26	12		12	.2			12									
DF			4M	28	31		31	.5			31									
DF			4M	30	26		26	.4			26									
DF			4M	36	24		24	.4			24									
DF		Totals			5,885		5,845	94.7			851	579	809	855	774	1368	576	32		
RA			R	16	5		5	1.7			5									
RA			R	18	3		3	1.0			3									
RA			R	20	12		12	4.3							12					
RA			R	24	25		25	8.6			11				14					
RA			R	26	3		3	1.1				3								
RA			R	28	7		7	2.5			7									
RA			R	32	25		25	8.7			25									
RA			R	40	212	2.1	207	72.2			23	98	87							

TC PLOGSTVB

Log Stock Table - MBF

T01N R07W S00 Ty00MC 104.00
T01N R07W S01 Ty00MC 69.00

Project: PWRTRP
Acres 173.00

Date 3/18/2020
Time 12:30:01PM

Spp	ST	So	Grade	Log Length	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+
RA		Totals			292	1.5	288	4.7			74	101	87		26					
WH		2M		40	21		21	82.9							21					
WH		4M		38	4		4	17.1			4									
WH		Totals			25		25	.4			4				21					
BM		R		16	12		12	100.0					12							
BM		Totals			12		12	.2					12							
Total		All Species			6,214		6,169	100.0			929	680	908	855	821	1368	576	32		

TIMBER SALE SUMMARY
Power Trip
FG-341-2020-W00556-01

1. **Location:** Portions of Sections 1 & 12, T1N, R7W, W.M., and portions of Sections 6, 7, 8, 9 & 17, T1N, R6W, W.M., Tillamook County, Oregon.

2. **Type of Sale:** This timber sale is 173 acres of Modified Clearcut in three units. Unit 1 is 69 acres, Unit 2 is 104 acres and Unit 3 is less than 1 acre of Right-of-Way. The timber will be sold on a recovery basis at a sealed bid auction.

3. **Revenue Distribution:** 100% BOF, 100% Tillamook Count, Tax Code 9-2.

4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.

5. **Cruise:** The Timber Sale was cruised by ODF Cruisers Kenton Burns and Mark Savage in March of 2020. For more information see Cruise Report.

6. **Timber Description:** The Timber Sale Area consists of two units of 63-year-old Douglas-fir timber, and a Right-of-Way unit, all with minor amounts of red alder, western hemlock, and western red cedar.

   The following table summarizes the ODF cruise estimates for trees to be harvested.

Sale Unit	Net Acres	Average DBH	Trees/Acre	Net MBF/Acre
Unit 1	69	18	130	41
Unit 2	104	17	124	32
Unit 3	<1	17	127	36

7. **Topography and Logging Method:** Slopes within the sale areas range from 5% to 80% and are variable in aspect. Elevations range from 1,080 to 2,280 feet. The following table summarizes, in feet, the estimated maximum and average horizontal cable corridor length, the estimated maximum and average tractor skid trail length, as well as the percent harvest method for each Timber Sale Unit.

Sale Unit	Tractor			Cable		
	Average	Maximum	%	Average	Maximum	%
Unit 1	100	200	5	1,300	1,500	95
Unit 2	120	300	6	1,100	1,950	94
Unit 3	15	30	100	NA	NA	0

8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove travel west on Highway 8 to its intersection with Highway 6. Proceed west onto Highway 6 for approximately 14.3 miles to the South Fork Wilson River Road. Turn left and continue south 2.8 miles to the C-Line Road. Turn right and continue approximately 1.5 miles to Lyda Road. Turn right on Lyda Road, proceed for approximately 0.1 miles, and turn right onto a gated road. Proceed through the gate for 1 mile to arrive at the western portion of Unit 2. To obtain keys for gate access, contact the Forest Grove District Office.

9. **Projects:**

Project No. 1: Rocked Road Construction & Reconstruction	$22,415.03
Project No. 2: Road Improvement	$86,606.20
Project No. 3: Road Vacating	$3,554.74
Total Credits:	$112,575.97

VOLUME SUMMARY

(Shown in MBF)

Power Trip
FG-341-2020-W00556-01
March 2020

UNIT 1: MC (69 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	1,701	996	92	0	2,789
	Hidden D&B (2%)	(34)	(20)	(2)	(0)	(56)
	NET TOTAL	1,667	976	90	0	2,733
	% of Total	61	36	3	0	
Red Alder	Cruise Volume	0	0	0	33	33
	Hidden D&B (5%)	(0)	(0)	(0)	(2)	(2)
	NET TOTAL	0	0	0	31	31
	% of Total	0	0	0	100	

UNIT 2: MC (104 ACRES)

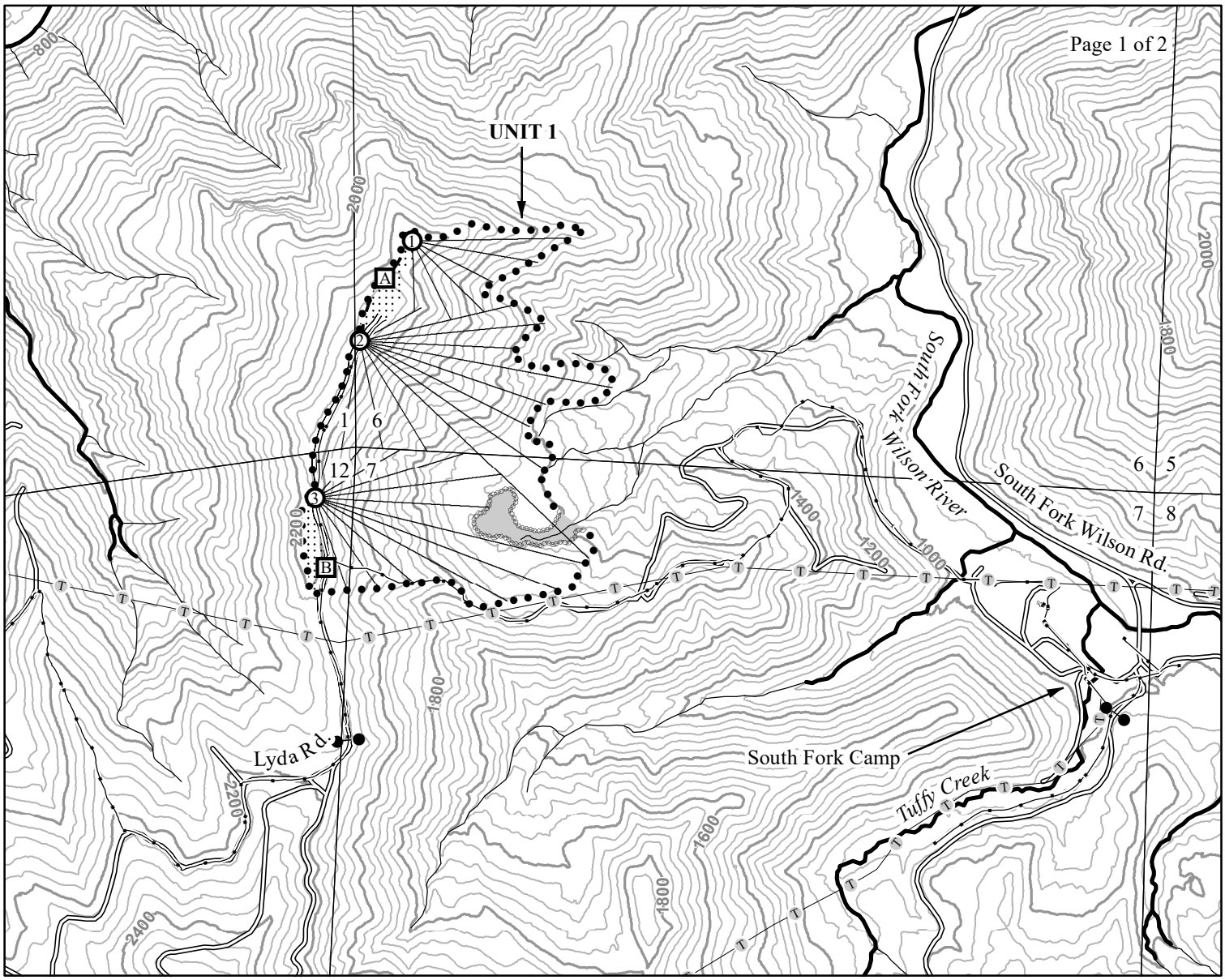
SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	1,891	1,005	160	0	3,056
	Hidden D&B (2%)	(38)	(20)	(3)	(0)	(61)
	NET TOTAL	1,853	985	157	0	2,995
	% of Total	62	33	5	0	
Western Hemlock	Cruise Volume	21	0	4	0	25
	Hidden D&B (2%)	(0)	(0)	(0)	(0)	(0)
	NET TOTAL	21	0	4	0	25
	% of Total	84	0	16	0	
Red Alder	Cruise Volume	0	0	0	255	255
	Hidden D&B (5%)	(0)	(0)	(0)	(13)	(13)
	NET TOTAL	0	0	0	242	242
	% of Total	0	0	0	100	

UNIT 3: R/W (<1 ACRE)

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	9	5	2	0	16
	Hidden D&B (2%)	(0)	(0)	(0)	(0)	(0)
	NET TOTAL	9	5	2	0	16
	% of Total	56	31	13	0	
Red Alder	Cruise Volume	0	0	0	2	2
	Hidden D&B (5%)	(0)	(0)	(0)	(0)	(0)
	NET TOTAL	0	0	0	2	2
	% of Total	0	0	0	100	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	3,529	1,966	249	0	5,744
Western Hemlock	21	0	4	0	25
Red Alder	0	0	0	275	275
Total	3,550	1,966	253	275	6,044



Legend

- Timber Sale Boundary
- Stream Buffer Boundary
- Surfaced Roads
- New Road Construction
- Type-N Stream
- Type-F Stream
- Stream Buffer
- Cable Yarding Area
- Tractor Yarding Area
- Cable Landing
- Tractor Landing
- Gate
- Underground Transmission Lines
- Electric Transmission Lines
- Section Lines
- 40 Foot Countour Band
- 200 Foot Countour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2020-W00556-01
POWER TRIP
PORTIONS OF SECTIONS 1 & 12, T1N, R7W, W.M.
AND PORTIONS OF SECTIONS 6, 7, 8, 9 & 17, T1N, R6W, W.M.
TILLAMOOK COUNTY, OREGON

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Forest Grove District GIS
March, 2020
This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

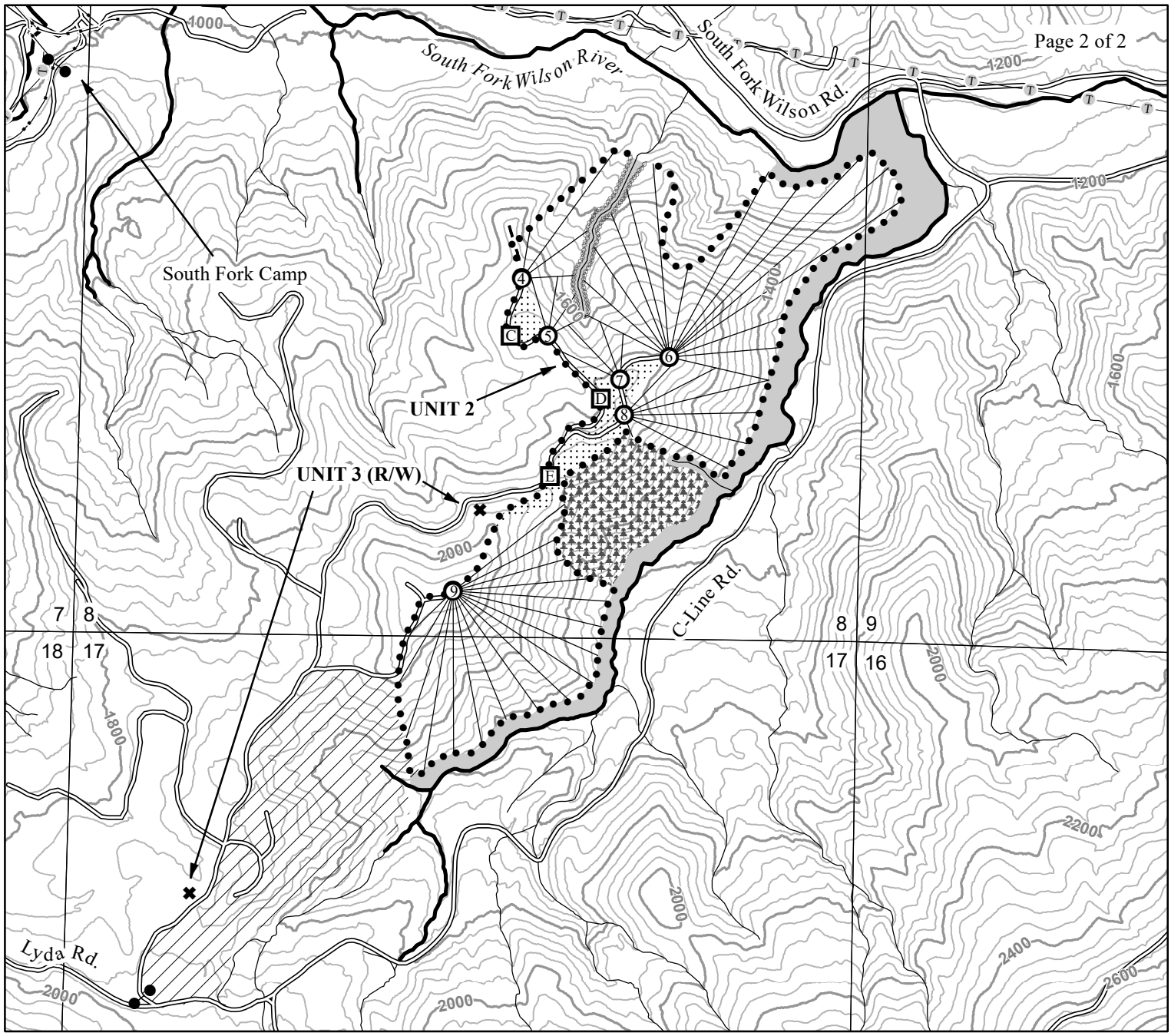
1:12,000

1 inch = 1,000 feet

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

APPROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	3	66
UNIT 2	6	98
UNIT 3 (R/W)	<1	0
TOTAL	9	164



Legend

- Timber Sale Boundary
- Stream Buffer Boundary
- Surfaced Roads
- New Road Construction
- Type-N Stream
- Type-F Stream
- Stream Buffer
- Cable Yarding Area
- Tractor Yarding Area
- Cable Landing
- Tractor Landing
- Reforested Area
- Green Tree Retention Area
- Gate
- Underground Transmission Lines
- Electric Transmission Lines
- Section Lines
- 40 Foot Countour Band
- 200 Foot Countour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2020-W00556-01
POWER TRIP
PORTIONS OF SECTIONS 1 & 12, T1N, R7W, W.M.
AND PORTIONS OF SECTIONS 6, 7, 8, 9 & 17, T1N, R6W, W.M.
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	TRACTOR	CABLE
UNIT 1	3	66
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TOTAL	9	164