Timber Sale Appraisal
Buckskins

Sale TL-341-2023-W00853-01

District: Tillamook

Date: November 16, 2022

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,000,948.58	$102,620.70	$1,103,777.44
		Project Work:	($266,880.00)
		Advertised Value:	$836,897.44

Timber Sale Appraisal
Buckskins

Sale TL-341-2023-W00853-01

District: Tillamook **Date: November 16, 2022**

Timber Description

Location: PORTIONS OF SECTIONS 17, 19, & 20, T1N, R7W, W.M.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	90
Western Hemlock / Fir	12	0	100
Sitka Spruce	11	0	100
Alder (Red)	14	0	100

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	1,702	978	0	2,680
Western Hemlock / Fir	0	6	0	6
Sitka Spruce	0	0	4	4
Red Cedar	0	0	0	0
Alder (Red)	0	0	735	735
Total	1,702	984	739	3,425

Comments: Additional Costs – Buckskins
Pond Values Used: July 2022
Region: Astoria, Forest Grove, and Tillamook
Western red cedar and other cedars stumpage price = $1,294/MBF - $571.56/MBF = 722.44/MBF
Pulp (Conifer and Hardwood) Price = $2.50/Ton
FUEL COST ALLOWANCE = $5.00/Gallon
HAULING COST ALLOWANCE ($120.00/hr x 10 hr.= $ 1,200.00) = $1,200/DAY

Other costs with profit and risk added:
BRAND AND PAINT ALLOWANCE = $2.00/ MBF
3,425 MBF x $2.00/MBF = $6,850
Heliport Construction: $500/unit x 2 unit = $1,000
Move-in Machine Cleaning: $1,000/machine x 2 machines x 1 season = $2,000
Guyline Cat Move-in: = $1,000
Hoskins Tailhold Cat Move-in: = $1,000
Landing B Non-Project #1 construction: 3+04 x $250 =$760
Non-Project and Unsurfaced Road Blocking:
1 Closures @ $50/Closure = $50

TOTAL Other Costs with profit and risk to be added = $12,660

Other Costs without Profit and Risk Added:
Slash piling and sorting (Cable Settings): $5/ac x 149 ac. = $745

Ditch Cleaning and Bank Sluff Removal:
Mobilization: two times – dump truck w/ tilt bed & small excavator: $900 x 2 = $1,800
Small excavator (Cat 312 or equivalent): 40 hours @ $135/ hour = $5,400
Dump truck: 40 hours @ $90/ hour = $3,600

TOTAL Other Costs without Profit and Risk added = $11,545

ODF Road Maintenance
Spot Rocking: 20cy/MMBF/mile x 3.425MMBF x $13/cy x 7.5 miles /3,425 MBF = $1.95/MBF
Interim Grading: $1,150/mile x 7.5 miles x 1 times/ 3,425 MBF = $2.52/MBF
Final Maintenance Grading: $1,500/mile x 7.5 miles/ 3,425 MBF = $3.28/MBF
Final Maintenance Compaction: $900/mile x 3.5 miles/3,425 MBF = $0.92/MBF
Total Road Maintenance: = $8.67/MBF

Timber Sale Appraisal
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Sale TL-341-2023-W00853-01

District: Tillamook **Date: November 16, 2022**

Logging Conditions

Combination#: 1

Douglas - Fir	30.13%
Western Hemlock / Fir	38.00%
Sitka Spruce	22.00%
Alder (Red)	32.62%

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

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

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

loads / day: 8 **bd. ft / load:** 4500

cost / mbf: $217.83

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

Combination#: 2

Douglas - Fir	66.31%
Western Hemlock / Fir	55.00%
Sitka Spruce	78.00%
Alder (Red)	62.73%

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

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

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

loads / day: 5 **bd. ft / load:** 4500

cost / mbf: $348.53

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

Combination#: 3

Douglas - Fir	3.56%
Western Hemlock / Fir	7.00%
Alder (Red)	4.65%

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

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

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

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

cost / mbf: $169.65

machines: Forwarder
Harvester

Timber Sale Appraisal
Buckskins

Sale TL-341-2023-W00853-01

District: Tillamook **Date: November 16, 2022**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	20%
Project Costs:	$266,880.00	**Other Costs (P/R):**	$12,660.00
Slash Disposal:	$0.00	**Other Costs:**	$11,545.00

Miles of Road

Road Maintenance: $8.67

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

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	$0.00	2.0	4.5
Western Hemlock / Fir	$0.00	2.0	4.8
Sitka Spruce	$0.00	2.0	4.0
Alder (Red)	$0.00	2.0	4.0

Timber Sale Appraisal
Buckskins

Sale TL-341-2023-W00853-01

District: Tillamook

Date: November 16, 2022

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$302.78	$9.54	$2.56	$146.66	$3.70	$93.05	$0.00	$2.00	$3.37	$563.66
Western Hemlock / Fir									
$286.34	$8.67	$2.56	$125.00	$3.70	$85.25	$0.00	$2.00	$3.37	$516.89
Sitka Spruce									
$319.78	$8.67	$2.56	$150.00	$3.70	$96.94	$0.00	$2.00	$3.37	$587.02
Alder (Red)									
$297.58	$8.67	$2.56	$150.00	$3.70	$92.50	$0.00	$2.00	$3.37	$560.38

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$936.86	$373.20	$0.00
Western Hemlock / Fir	$0.00	$663.00	$146.11	$0.00
Sitka Spruce	$0.00	$561.00	$26.02	$0.00
Alder (Red)	$0.00	$700.00	$139.62	$0.00

Timber Sale Appraisal
Buckskins

Sale TL-341-2023-W00853-01

District: Tillamook **Date: November 16, 2022**

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,680	$373.20	$1,000,176.00
Western Hemlock / Fir	6	$146.11	$876.66
Sitka Spruce	4	$26.02	$104.08
Alder (Red)	735	$139.62	$102,620.70

Gross Timber Sale Value

Recovery: $1,103,777.44

Prepared By: Nathan Atchison **Phone:** 503-815-7031

PROJECT SUMMARY SHEET

Sale: Buckskins

CONSTRUCTION

Point	E to F	12+20	stations =	$27,956.17
Point	K to L	19+00	stations =	$60,171.21
Point	M to N	5+00	stations =	$14,877.46
			SUBTOTAL CONSTRUCTION	**$103,004.84**

IMPROVEMENT

Point	A to B	361+00	stations =	$40,600.69
Point	C to D	32+00	stations =	$34,258.13
Point	G to H	1+35	stations =	$3,952.24
Point	I to J	178+95	stations =	$56,468.68
			SUBTOTAL IMPROVEMENT	**$135,279.74**

SPECIAL PROJECTS

Archers Stockpile(354+50) 3,000yds		$25,320.00
	SUBTOTAL SPECIAL PROJECTS	**$25,320.00**

MOVE IN **$3,275.42**

GRAND TOTAL **$266,880.00**

SUMMARY OF CONSTRUCTION COST

Sale: **Buckskins** Road: **A to B**

Construction -	0+00	stations	Improvement -	361+00	stations	Reconstruction -	0+00	stations
	0.00	miles		6.84	miles		0.00	miles

CULVERTS - MATERIALS & INSTALLATION

		Culverts					60	LF of 48"	$4,800.00
		Culvert Stakes & Markers							
		10	markers	$92.00					
								TOTAL CULVERTS	**$4,892.00**

ROCK

Spot Rock	As Needed	100	cy. of	Crushed	@	$18.15	per c.y.=	$1,815.00
Campsite #1	54+70	30	cy. of	Crushed	@	$8.94	per c.y.=	$268.20
Day Use Spot	54+70	10	cy. of	Crushed	@	$8.94	per c.y.=	$89.40
Campsite #2	88+00	50	cy. of	Crushed	@	$9.61	per c.y.=	$480.50
Fill	23+50	200	cy. of	Pitrun	@	$8.48	per c.y.=	$1,696.00
Culvert Bedding/Backfill	23+50	50	cy. of	Crushed	@	$7.19	per c.y.=	$359.50
Fill Armor/energy dissipator	23+50	20	cy. of	Riprap	@	$7.78	per c.y.=	$155.60
Erosion Control	4+45	60	cy. of	Pitrun	@	$11.78	per c.y.=	$706.80
							TOTAL ROCK	**$5,571.00**

SPECIAL PROJECTS

Culvert Replacement(23+50)	1.00	@	$4,692.00	each	$4,692.00
Erosion Control	2.00	hours @	$402.50	per hour	$805.00
Construct Ditch-No Endhaul	8.85	stations @	$92.00	per station	$814.20
Construct Ditch-Endhaul	55.45	stations @	$149.50	per station	$8,289.78
Construct ditchouts -	1.00	@	$34.50	each	$34.50
Landing Pullback(217+05)	1.00	hours @	$207.00	per hour	$207.00
Bridge Delineaters	1.00	@	$452.00	total	$452.00
Grade and shape road -	361.00	stations @	$25.30	per station	$9,133.30
Roll existing rock w/ vibratory roller-0+00 to 242+75 / 270+10 to 276+85	249.50	stations @	$20.13	per station	$5,022.44
Remove culvert	1.00	@	$195.96	Each	$195.96
Remove culverts from state lands	1.00	@	$195.96	total	$195.96
Grass seed and fertilize -	0.50	acres @	$322.00	per acre	$161.00
Mulching -	0.150	acres @	$897.00	per acre	$134.55
				TOTAL SPECIAL PROJECTS	**$30,137.69**

GRAND TOTAL **$40,600.69**

SUMMARY OF CONSTRUCTION COST

Sale: **Buckskins** Road: **C to D**

Construction -	0+00	stations	Improvement -	32+00	stations	Reconstruction -	0+00	stations
	0.00	miles		0.61	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Scattering				4.702	acres @	$1,466.00	per acre =	$6,893.13
							TOTAL CLEARING AND GRUBBING	**$6,893.13**

CULVERTS - MATERIALS & INSTALLATION

Culverts								
		90	LF of 18"	$2,070.00				
				$2,070.00				
Culvert Stakes & Markers								
		3	markers	$27.60				
							TOTAL CULVERTS	**$2,097.60**

ROCK

0+00 to	32+00	1,090	cy. of	Jawrun	@	$16.06	per c.y.=	$17,505.40
Approach Widening	0+00	60	cy. of	Jawrun	@	$15.71	per c.y.=	$942.60
Landing Rock	32+00	100	cy. of	Jawrun	@	$16.40	per c.y.=	$1,640.00
Turnout, Turnaround	10+70	60	cy. of	Jawrun	@	$15.64	per c.y.=	$938.40
Culvert Backfill	20yds each	60	cy. of	Crushed	@	$15.76	per c.y.=	$945.60
Energy Dissipator	5yds each	15	cy. of	Rip Rap	@	$15.76	per c.y.=	$236.40
							TOTAL ROCK	**$22,208.40**

SPECIAL PROJECTS

Clear off landing	2.00	hours @	$230.00	per hour	$460.00
Widen appproach(0+00)	3.00	hours @	$230.00	per hour	$690.00
Widen intersection(29+95)	1.00	hours @	$230.00	per hour	$230.00
Clean sod from road	32.00	stations @	$25.30	per station	$809.60
Remove large stumps -	7.00	lump sum @	$115.00		$805.00
Grass seed and fertilize -	0.20	acres @	$322.00	per acre	$64.40
				TOTAL SPECIAL PROJECTS	**$3,059.00**

GRAND TOTAL **$34,258.13**

SUMMARY OF CONSTRUCTION COST

Sale: **Buckskins** Road: **E to F**

Construction -	12+20	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.23	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		Drill & Shoot	Endhaul	
0+00		4+65	19%		Ditch	$210	=			$976.50
4+65		5+30	6%		Ditch	$165	=			$107.25
5+30		7+00	21%		Ditch	$228	=			$387.60
7+00		7+65	41%		Ditch	$413	=			$268.45
7+65		8+15	29%		Ditch	$274	=			$137.00
8+15		8+70	39%		Ditch	$320	=			$176.00
8+70		9+70	29%		Ditch	$274	=			$274.00
9+70		11+25	38%		Ditch	$320	=			$496.00
11+25		12+20	29%		Ditch	$274	=			$260.30
									TOTAL	**$3,083.10**

ROCK

0+00	to	12+20	890	cy. of	Jawrun	@	$15.79	per c.y.=	$14,053.10	
Approach Widening		0+00	30	cy. of	Jawrun	@	$15.66	per c.y.=	$469.80	
Landing Rock		1+75	140	cy. of	Jawrun	@	$15.70	per c.y.=	$2,198.00	
Landing Rock		5+90	90	cy. of	Jawrun	@	$15.79	per c.y.=	$1,421.10	
Landing Rock		12+20	100	cy. of	Jawrun	@	$15.92	per c.y.=	$1,592.00	
									TOTAL ROCK	**$19,734.00**

SPECIAL PROJECTS

Construct Landings	5.00	hours @	$230.00	per hour	$1,150.00
Endhaul Stumps	5.00	hours @	$402.50	per hour	$2,012.50
Grade and shape road -	12.20	stations @	$25.30	per station	$308.66
Roll subgrade	12.20	stations @	$20.13	per station	$245.59
Remove large stumps -	8.00	lump sum @	$115.00		$920.00
Grass seed and fertilize -	1.56	acres @	$322.00	per acre	$502.32
				TOTAL SPECIAL PROJECTS	**$5,139.07**

GRAND TOTAL **$27,956.17**

SUMMARY OF CONSTRUCTION COST

Sale: **Buckskins** Road: **G to H**

Construction -	0+00	stations	Improvement -	1+35	stations	Reconstruction -	0+00	stations
	0.00	miles		0.03	miles		0.00	miles

ROCK									
0+00 to	1+35	70	cy. of	Jawrun	@	$16.33	per c.y.=	$1,143.10	
Approach Widening	0+00	40	cy. of	Jawrun	@	$16.32	per c.y.=	$652.80	
Landing Rock	1+35	100	cy. of	Jawrun	@	$16.35	per c.y.=	$1,635.00	
								TOTAL ROCK	**$3,430.90**
SPECIAL PROJECTS									
Clear off landing				2.00	hours @	$230.00	per hour	$460.00	
Grade and shape road -				1.35	stations @	$25.30	per station	$34.16	
Roll subgrade				1.35	stations @	$20.13	per station	$27.18	
								TOTAL SPECIAL PROJECTS	**$521.34**
								GRAND TOTAL	**$3,952.24**

SUMMARY OF CONSTRUCTION COST

Sale: **Buckskins** Road: **I to J**

Construction -	0+00	stations	Improvement -	178+95	stations	Reconstruction -	0+00	stations
	0.00	miles		3.39	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast					0.015	acres @	$989.00	per acre =	$14.84	
								TOTAL CLEARING AND GRUBBING		**$14.84**

IMPROVEMENT: EXCAVATION -

Pullback					79	cy. @	$2.30	per c.y.=	$181.70	
								TOTAL EXCAVATION		**$181.70**

IMPROVEMENT: ENDHAUL -

Pullback	158+05	to	158+95		18	cy. @	$1.94	per c.y.=	$34.92	
Pullback	169+70	to	170+95		61	cy. @	$2.82	per c.y.=	$172.02	
Spread & compact					79	cy. @	$0.58	per c.y.=	$45.82	
									TOTAL ENDHAUL	**$252.76**

ROCK

Spot Rock	As Needed	200	cy. of	Crushed	@	$15.92	per c.y.=	$3,184.00	
Landing Rock	73+35	60	cy. of	Jawrun	@	$14.69	per c.y.=	$881.40	
Landing Rock	76+90	60	cy. of	Jawrun	@	$14.77	per c.y.=	$886.20	
								TOTAL ROCK	**$4,951.60**

SPECIAL PROJECTS

Landing Pullback(48+90)	45.00	hours @	$606.63	per hour	$27,298.35
Fill Pullback(97+10)	30.00	hours @	$485.88	per hour	$14,576.40
Construct waste areas -	2.00	hours @	$230.00	per hour	$460.00
Clean Culverts	2.00	@	$60.00	each	$120.00
Grade and shape road -	79.10	stations @	$25.30	per station	$2,001.23
Clean Ditches & Endhaul material	26.84	stations @	$149.50	per station	$4,012.58
Construct Waterbar(150+25)	1.00	@	$34.50	each	$34.50
Roll subgrade	79.10	stations @	$20.13	per station	$1,592.28
Grass seed and fertilize -	3.02	acres @	$322.00	per acre	$972.44
				TOTAL SPECIAL PROJECTS	**$51,067.78**

GRAND TOTAL **$56,468.68**

SUMMARY OF CONSTRUCTION COST

Sale: **Buckskins** Road: **K to L**

Construction -	19+00	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.36	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		Drill & Shoot	Endhaul	
0+00		3+25	28%		Ditch	$274	=		$3,580.00	$4,470.50
3+25		3+85	8%		Ditch	$165	=			$99.00
3+85		5+95	41%		Ditch	$413	=			$867.30
5+95		8+75	15%		Ditch	$189	=		$1,840.00	$2,369.20
8+75		9+60	53%		Ditch	$813	=			$691.05
9+60		12+30	29%		Ditch	$274	=		$8,235.00	$8,974.80
12+30		13+20	60%		Ditch	$2,742	=		$4,240.00	$6,707.80
13+20		14+55	32%		Ditch	$320	=		$3,095.00	$3,527.00
14+55		19+00	8%		Ditch	$165	=			$734.25
									TOTAL	**$28,440.90**

CULVERTS - MATERIALS & INSTALLATION

Culverts			
60	LF of 18"	$1,380.00	
Culvert Stakes & Markers			
2	markers	$18.40	
			TOTAL CULVERTS **$1,398.40**

ROCK

0+00 to	19+00	1,430	cy. of	Jawrun	@	$15.02	per c.y.=	$21,478.60
10+75 to	14+55	50	cy. of	Crushed	@	$14.99	per c.y.=	$749.50
Approach Widening	0+00	40	cy. of	Jawrun	@	$15.02	per c.y.=	$600.80
Landing Rock	12+90	90	cy. of	Jawrun	@	$15.09	per c.y.=	$1,358.10
Landing Rock	19+00	140	cy. of	Jawrun	@	$15.23	per c.y.=	$2,132.20
Energy Dissipator	5yds each	10	cy. of	Rip Rap	@	$14.39	per c.y.=	$143.90
							TOTAL ROCK	**$26,463.10**

SPECIAL PROJECTS

Construct Landings	3.00	hours @	$230.00	per hour	$690.00
Construct waste areas -	3.00	hours @	$230.00	per hour	$690.00
Grade and shape road -	19.00	stations @	$25.30	per station	$480.70
Roll subgrade w/ vibratory roller prior to rocking -	19.00	stations @	$20.13	per station	$382.47
Remove large stumps -	5.00	lump sum @	$115.00		$575.00
Grass seed and fertilize -	1.87	acres @	$322.00	per acre	$602.14
Mulching -	0.500	acres @	$897.00	per acre	$448.50
				TOTAL SPECIAL PROJECTS	**$3,868.81**

GRAND TOTAL **$60,171.21**

SUMMARY OF CONSTRUCTION COST

Sale: **Buckskins** Road: **M to N**

Construction -	5+00	stations	Improvement -		stations	Reconstruction -	0+00	stations
	0.09	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		Drill & Shoot	Endhaul	
0+00		0+35	19%		Ditch	$210	=			$73.50
0+35		2+30	41%		Ditch	$413	=			$805.35
2+30		4+70	34%		Ditch	$320	=		$3,120.00	$3,888.00
4+70		5+00	17%		Ditch	$189	=			$56.70
									TOTAL	**$4,823.55**

ROCK

0+00	to	5+00	380	cy. of	Jawrun	@	$15.31	per c.y.=	$5,817.80	
2+55	to	3+40	20	cy. of	Crushed	@	$15.15	per c.y.=	$303.00	
Approach Widening		0+00	30	cy. of	Jawrun	@	$15.18	per c.y.=	$455.40	
Landing Rock		5+00	120	cy. of	Jawrun	@	$15.45	per c.y.=	$1,854.00	
									TOTAL ROCK	**$8,430.20**

SPECIAL PROJECTS

Construct Landings	2.00	hours @	$230.00	per hour	$460.00
Endhaul Stumps	1.00	hours @	$402.50	per hour	$402.50
Grade and shape road -	5.00	stations @	$25.30	per station	$126.50
Roll subgrade w/ vibratory roller prior to rocking -	5.00	stations @	$20.13	per station	$100.65
Remove large stumps -	4.00	@	$115.00	each	$460.00
Grass seed and fertilize -	0.23	acres @	$322.00	per acre	$74.06
				TOTAL SPECIAL PROJECTS	**$1,623.71**

GRAND TOTAL **$14,877.46**

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Archers Pit	Location:	Sec. 21 , T1N, R7W, W.M.	
Sale:	**Buckskins**		Road:	7635 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	7635 c.y.
Drill Pct.:	100%		In Place Total:	5454 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. $3,000.00

Drill & Shoot:	$3.74	/cu.yd.	x	5454 cu.yds.	=	$20,397.96
Load Crusher:	$1.15	/cu.yd.	x	7610 cu.yds.	=	$8,751.50
Crush Rock(2"):	$4.89	/cu.yd.	x	2370 cu.yds.	=	$11,589.30
Crush Rock(3"):	$4.03	/cu.yd.	x	1520 cu.yds.	=	$6,125.60
Crush Rock(6"):	$3.74	/cu.yd.	x	2230 cu.yds.	=	$8,340.20
Load Dump Truck:	$1.15	/cu.yd.	x	7635 cu.yds.	=	$8,780.25
					Subtotal	$66,984.81

Move In/Set-up Jaw	1	@	$2,185.00		$2,016.00
Move In and set up Drill and Compressor	1	@	$414.07	=	$414.07
Move in Roller and Compactor	1	@	$364.50	=	$364.50
Move in D-8	1	@	$615.57	=	$615.57
Move in Loader	1	@	$428.57	=	$428.57
Move in Excavator	1	@	$543.57	=	$543.57
Move in Trucks	4	@	$145.23	=	$580.92
Move in Water Truck	1	@	$145.23	=	$145.23
				Subtotal	$5,108.43

TOTAL PRODUCTION COSTS	$72,093.24

Base Cost= $9.44 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
A to B Spot Rock (Crushed)	5.03	3.68	9.44	18.15	100		$1,815.00
A to B Erosion Control (Pitrun)	1.59	0.75	9.44	11.78	60		$706.80
C to D 0 3200 (Jawrun)	4.62	2.00	9.44	16.06	1090		$17,505.40
C to D Approach Widening (Jawrun)	4.27	2.00	9.44	15.71	60		$942.60
C to D Landing Rock (Jawrun)	4.96	2.00	9.44	16.40	100		$1,640.00
C to D Turnout, Turnaround (Jawrun)	4.50	1.70	9.44	15.64	60		$938.40
C to D Culvert Backfill (Crushed)	4.62	1.70	9.44	15.76	60		$945.60
C to D Energy Dissipator (Rip Rap)	4.62	1.70	9.44	15.76	15		$236.40
E to F 0 1220 (Jawrun)	4.62	1.73	9.44	15.79	890		$14,053.10
E to F Approach Widening (Jawrun)	4.49	1.73	9.44	15.66	30		$469.80
E to F Landing Rock (Jawrun)	4.53	1.73	9.44	15.70	140		$2,198.00
E to F Landing Rock (Jawrun)	4.62	1.73	9.44	15.79	90		$1,421.10
E to F Landing Rock (Jawrun)	4.75	1.73	9.44	15.92	100		$1,592.00
G to H 0 135 (Jawrun)	4.93	1.96	9.44	16.33	70		$1,143.10
G to H Approach Widening (Jawrun)	4.92	1.96	9.44	16.32	40		$652.80
G to H Landing Rock (Jawrun)	4.95	1.96	9.44	16.35	100		$1,635.00
I to J Spot Rock (Crushed)	2.80	3.68	9.44	15.92	200		$3,184.00
I to J Landing Rock (Jawrun)	3.52	1.73	9.44	14.69	60		$881.40
I to J Landing Rock (Jawrun)	3.60	1.73	9.44	14.77	60		$886.20
K to L 0 1900 (Jawrun)	3.85	1.73	9.44	15.02	1430		$21,478.60
K to L 1075 1455 (Crushed)	3.85	1.70	9.44	14.99	50		$749.50
K to L Approach Widening (Jawrun)	3.85	1.73	9.44	15.02	40		$600.80
K to L Landing Rock (Jawrun)	3.92	1.73	9.44	15.09	90		$1,358.10
K to L Landing Rock (Jawrun)	4.06	1.73	9.44	15.23	140		$2,132.20
K to L Energy Dissipator (Rip Rap)	3.80	1.15	9.44	14.39	10		$143.90
M to N 0 500 (Jawrun)	4.14	1.73	9.44	15.31	380		$5,817.80
M to N 255 340 (Crushed)	4.01	1.70	9.44	15.15	20		$303.00
M to N Approach Widening (Jawrun)	4.01	1.73	9.44	15.18	30		$455.40
M to N Landing Rock (Jawrun)	4.28	1.73	9.44	15.45	120		$1,854.00
Archers Stockpile(354+50)	2.23	0.70	9.73	12.66	2000		$25,320.00
				Total C.Y.	7635	Sub Total	$113,060.00

TOTAL ROCKING COSTS	$113,060.00

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Jordan Pit	Location:	Sec. 32, T1N, R7W, W.M.
Sale:	**Buckskins**	Road:	220 c.y.
Swell:	1.40	Stockpile:	c.y.
Shirinkage	1.16	Total Truck Loads:	220 c.y.
Drill Pct.:	0%	In Place Total:	157 c.y.

Load Dump Truck:	$1.15	/cu.yd.	x	220	cu.yds. =	$253.00
					Subtotal	$253.00
Move in Excavator	1	@		$434.86	=	$434.86
					Subtotal	$434.86
				TOTAL PRODUCTION COSTS		$687.86

Base Cost= $3.13 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
A to B Fill (Pitrun)	3.65	1.70	3.13	8.48	200		$1,696.00
A to B Fill Armor/energy dissipator (Riprap)	3.65	1.00	3.13	7.78	20		$155.60
				Total C.Y.	220	Sub Total	$1,851.60
					TOTAL ROCKING COSTS		$1,851.60

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Jordan Stockpile	Location:	Sec. 29 , T1N, R7W, W.M.
Sale:	**Buckskins**	Road:	140 c.y.
Swell:	1.40	Stockpile:	c.y.
Shirinkage	1.16	Total Truck Loads:	140 c.y.
Drill Pct.:	0%	In Place Total:	100 c.y.

Load Dump Truck:	$1.15	/cu.yd.	x	140	cu.yds. =	$161.00
					Subtotal	$161.00
Move in Loader	1	@		$300.00	=	$300.00
					Subtotal	$300.00
					TOTAL PRODUCTION COSTS	$461.00

Base Cost= $3.29 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base/load Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
A to B Campsite #1 (Crushed)	1.97	3.68	3.29	8.94	30		$268.20
A to B Day Use Spot (Crushed)	1.97	3.68	3.29	8.94	10		$89.40
A to B Campsite #2 (Crushed)	2.64	3.68	3.29	9.61	50		$480.50
A to B Culvert Bedding/Backfill (Crushed	2.65	1.25	3.29	7.19	50		$359.50
				Total C.Y.	140	Sub Total	$1,197.60
						TOTAL ROCKING COSTS	$1,197.60

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Buckskins**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
36.0	Pavement	30
2.0	Main Lines	7
0.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move ($/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Graders	$427.14		$3.65	0.00	5.50	5.5	$20.08	$447.22
1	Excavators (Large)	$543.57	1	$44.80	0.00	8.50	8.5	$380.80	$924.37
1	Tractors (D6)	$571.96	2	$7.10	0.00	8.50	8.5	$60.35	$632.31
2	Dump Truck (Off Hiway)	$1,029.86	1	$4.75	0.00	8.50	8.5	$80.75	$1,110.61
1	Water Truck (1500 Gal)	$145.23		$2.85	0.00	5.50	5.5	$15.68	$160.91
					TOTAL MOVE-IN COSTS:				$3,275.42

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
Buckskins

1. Type of Sale

Regeneration harvest, Recovery

2. Legal Description

Section(s) 17, 19, 20 of T1N R7W W.M., R7W, Tillamook County, W.M.

3. Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

	ACRES	
	Gross	Net
Unit 1A (Modified Clearcut)	108	61
Unit 1B (Modified Clearcut)		20
Unit 2 (Modified Clearcut)	82	74
Total	191	155

Gross Acres
Area within the Timber Sale Boundary signs

Net acres
Used for calculating the advertised volume.
Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. Cruising Procedures

A. Cruise Method

Timber sale units 1A, 1B and 2 were cruised using variable plot sampling. All units were cruised by ODF Staff in May and June 2022. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 10" DBH and greater containing 30 board feet were recorded on all plots. Species, DBH (to nearest inch), merchantable bole length (to nearest foot), form factor, and defect were recorded for all measure trees. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods, respectively.

B. Plot size

Unit	BAF	Spacing
1A	40.00	200 x 225
1B	27.78	Random Plot Selection
2	40.00	250 x 250

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40' lengths.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table for each species and type.

Net sale acreage was used for volume calculation.

	Cruise Statistics (Board Foot Volumes)			
Unit	Acres	Number of Plots	SE (%)	CV (%)
1A	61	31	8.9	49.8
1B	20	9	18.1	51.3
2	74	44	8.6	57.0
Project Total	155	82	11.9	52.7

6. Hidden Defect and Breakage

A 1% reduction for conifers and a 2% reduction for hardwood volumes were applied for hidden defect and breakage.

7. Timber Description

Units 1 and 2 are prescribed modified clearcuts. Unit 1 is a Douglas-fir dominated stand with good amounts of red alder. The eastern portion of Unit 1 was thinned in 1999. Unit 2 is comprised of Douglas-fir and red alder with minor elements of Sitka spruce in the NW corner.

Both stands were burned in 1933, 1939, and 1945 Tillamook Burn.

Douglas-fir in both units present Swiss Needle Cast and the red alder was hit with ice damage in 2021.

Sale Unit	Age	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1A	60	Douglas-fir	17.2	66	5
		red alder	14.0	42	6
1B		western hemlock	11.7	23	5
		Douglas-fir	20.4	64	6

2	69	Douglas-fir	20.0	81	5
		red alder	12.9	35	6
		Sitka Spruce	11.3	17	5

Above date derived from Statistics (type) report using SuperAce 2008, developed by Atterbury consultants, Inc.

8. Cruiser /Dates

ODF Staff Cruised both units May-June 2022.

9. Revenue Distribution

BOF – 100%

Tax Code: 902 (100%)

Deed Numbers: 159

10. Attachments

Volume Summary Table (3)

Stand Table (3)

Log Stock Tables (3)

Species, Sort, Grade Table (3)

Logging Plan (2)

Unit 1 (A) & (B) Stratified map (1)

11. Stand and Log Stock Tables Species Key

DF – Douglas-fir take
WH – western hemlock take
RA – red alder take
SS – Sitka Spruce
OC – Other Conifer

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: BUCKS

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T01N R07W S20 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
01N	07W	20	UNIT1A	0100	61.00	31	174	S	W

T01N R07W S20 T0100

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent 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		CO	2	59	.7	10,082	10,016	611			54	46	1	5		94	39	15	327	1.98	30.6
DF		CO	3	30	.8	5,216	5,175	316		95	5				1	99	40	9	113	0.78	45.7
DF		CO	4	11	.7	1,748	1,735	106	63	32	5		19	51	15	14	24	6	29	0.35	60.7
DF	**Totals**			67	.7	17,046	16,926	1,032	6	32	34	27	3	8	2	88	32	9	124	0.96	137.0
RA		H	1	5	7.1	443	412	25			68	32	32			68	27	17	274	2.39	1.5
RA		H	2	5		427	427	26			100			48	52		30	13	177	1.40	2.4
RA		H	3	9		714	714	44		47	53		17	83			22	11	102	1.04	7.0
RA		H	4	81	.2	6,627	6,612	403		86	14		5	24	10	61	31	7	68	0.67	97.2
RA	**Totals**			33	.6	8,212	8,165	498		74	25	2	7	29	11	53	31	8	75	0.72	108.2
Type Totals					.7	25,258	25,091	1,531	4	46	31	19	4	15	5	76	32	8	102	0.86	245.2

TC TSTNDSUM

Stand Table Summary

Project **BUCKS**

T01N R07W S20 T0100

T01N R07W S20 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	07W	20	UNIT1A	0100	61.00	31	174

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Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	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	2	72	41	12.554	4.38	12.55	4.6	20.0	1.64	58	251	100	35	15
DF		10	1	80	35	4.017	2.19	4.02	6.6	20.0	.76	27	80	46	16	5
DF		11	2	85	59	6.640	4.38	9.96	8.8	36.7	2.49	87	365	152	53	22
DF		12	1	83	71	2.790	2.19	2.79	19.6	60.0	1.56	55	167	95	33	10
DF		14	3	82	94	6.149	6.57	12.30	17.4	61.7	6.09	214	758	372	130	46
DF		15	2	84	109	3.571	4.38	7.14	22.8	90.0	4.65	163	643	283	99	39
DF		16	1	82	96	1.569	2.19	3.14	24.9	90.0	2.22	78	282	136	48	17
DF		17	3	83	100	4.170	6.57	6.95	31.9	122.0	6.33	221	848	386	135	52
DF		18	6	85	106	7.440	13.15	17.36	28.4	100.7	14.07	494	1,748	858	301	107
DF		19	3	86	114	3.339	6.57	7.79	32.8	124.3	7.29	256	968	445	156	59
DF		20	4	85	116	4.017	8.76	10.04	34.6	129.0	9.89	347	1,296	604	212	79
DF		21	2	82	118	1.822	4.38	5.47	31.9	115.0	4.96	174	629	303	106	38
DF		22	3	84	123	2.490	6.57	6.64	42.3	176.3	8.00	281	1,170	488	171	71
DF		23	2	84	112	1.519	4.38	4.56	30.0	138.3	3.90	137	630	238	83	38
DF		24	2	84	100	1.395	4.38	3.49	43.3	190.0	4.31	151	663	263	92	40
DF		25	3	83	108	1.928	6.57	5.14	50.6	198.8	7.41	260	1,022	452	159	62
DF		26	1	86	126	.594	2.19	1.78	55.6	246.7	2.83	99	440	172	61	27
DF		27	3	82	124	1.653	6.57	4.41	63.3	260.0	7.96	279	1,146	485	170	70
DF		28	3	83	133	1.537	6.57	4.61	64.5	272.2	8.47	297	1,255	517	181	77
DF		30	3	84	129	1.339	6.57	4.02	73.2	327.8	8.39	294	1,317	512	179	80
DF		32	1	79	128	.392	2.19	1.18	80.6	316.7	2.70	95	373	165	58	23
DF		33	1	78	109	.369	2.19	.74	113.3	440.0	2.38	84	325	145	51	20
DF		36	1	84	139	.310	2.19	.93	116.1	590.0	3.08	108	549	188	66	33
DF		Totals	53	82	87	71.605	116.13	137.00	31.1	123.5	121.39	4,259	16,926	7,405	2,598	1,032
RA		9	1	76	60	5.570	2.46	5.57	7.7	30.0	1.17	43	167	72	26	10
RA		10	1	86	57	4.511	2.46	4.51	11.1	40.0	1.38	50	180	84	31	11
RA		11	3	80	39	11.185	7.38	7.46	12.0	40.0	2.46	89	298	150	55	18
RA		12	4	82	71	12.532	9.84	12.53	19.5	65.0	6.73	245	815	410	149	50
RA		13	5	79	80	13.347	12.30	16.02	19.2	60.0	8.46	308	961	516	188	59
RA		14	6	84	56	13.811	14.76	16.11	19.6	64.3	8.73	316	1,036	533	193	63
RA		15	3	86	63	6.015	7.38	6.02	28.8	96.7	4.77	173	581	291	106	35
RA		16	1	86	65	1.762	2.46	3.52	18.3	65.0	1.77	64	229	108	39	14
RA		17	4	81	59	6.244	9.84	7.81	28.8	94.0	6.18	225	734	377	137	45
RA		18	8	79	68	11.139	19.68	16.71	25.0	94.2	11.50	418	1,573	702	255	96
RA		19	2	83	64	2.499	4.92	3.75	35.0	113.3	3.60	131	425	220	80	26
RA		20	1	90	71	1.128	2.46	2.26	31.2	110.0	1.94	70	248	118	43	15
RA		21	1	86	67	1.023	2.46	2.05	31.9	115.0	1.80	65	235	110	40	14
RA		23	1	83	64	.853	2.46	.85	70.4	220.0	1.65	60	188	101	37	11
RA		24	1	88	85	.783	2.46	1.57	57.9	205.0	2.49	91	321	152	55	20
RA		25	1	80	62	.722	2.46	1.44	36.0	120.0	1.43	52	173	87	32	11
RA		Totals	43	82	63	93.126	105.81	108.17	22.2	75.5	66.06	2,401	8,165	4,030	1,465	498
OC		17	1	86	80	.819	1.29									
OC		Totals	1	86	80	.819	1.29									
Totals			97	82	73	165.550	223.23	245.17	27.2	102.3	187.45	6660	25,091	11,435	4,063	1,531

TC TLOGSTVB

Log Stock Table - MBF

Project: BUCKS

T01N R07W S20 T0100

T01N R07W S20 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	07W	20	UNIT1A	0100	61.00	31	174

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Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	14	7		7	.7								7				
DF		CO	2	24	13		13	1.3								13				
DF		CO	2	30	15		15	1.4								15				
DF		CO	2	40	580	.7	576	55.8						234	66	183	71	22		
DF		CO	3	32	2		2	.2				2								
DF		CO	3	40	316	.8	314	30.4			53	93	153	15						
DF		CO	4	12	5		5	.4		5										
DF		CO	4	14	2		2	.2		2										
DF		CO	4	16	6	12.7	5	.5		3	1	1								
DF		CO	4	17	1		1	.1		1										
DF		CO	4	19	3		3	.3		2		1								
DF		CO	4	20	4		4	.4			3	1								
DF		CO	4	21	1		1	.1			1									
DF		CO	4	22	4		4	.3		4										
DF		CO	4	23	6		6	.6		5		1								
DF		CO	4	24	7		7	.7		1	6									
DF		CO	4	25	16		16	1.6			1	10		5						
DF		CO	4	26	17		17	1.7		13			4							
DF		CO	4	27	1		1	.1				1								
DF		CO	4	29	2		2	.2			2									
DF		CO	4	31	11		11	1.1		11										
DF		CO	4	32	3		3	.3		3										
DF		CO	4	35	2		2	.2		2										
DF		CO	4	36	3		3	.3		3										
DF		CO	4	38	3		3	.3		3										
DF		CO	4	40	8		8	.8		8										
DF		Totals			1,040		1,032	67.5		67	67	111	157	254	66	218	71	22		
RA		H	1	12	8		8	1.6								8				
RA		H	1	40	19	10.0	17	3.5								17				
RA		H	2	28	12		12	2.5							12					
RA		H	2	32	14		14	2.7						14						
RA		H	3	20	8		8	1.5					8							
RA		H	3	22	36		36	7.2					13	9	14					
RA		H	4	12	5		5	1.0						5						
RA		H	4	15	3		3	.6			3									
RA		H	4	18	3		3	.7			3									
RA		H	4	20	10		10	2.0			10									
RA		H	4	22	13		13	2.6			2			10						
RA		H	4	23	6		6	1.1			6									
RA		H	4	24	17		17	3.4			17									
RA		H	4	26	4		4	.8			4									
RA		H	4	29	6		6	1.2				6								
RA		H	4	30	51		51	10.3			39		12							
RA		H	4	31	8		8	1.7					8							
RA		H	4	32	19		19	3.8			7		12							
RA		H	4	34	7		7	1.5			7									
RA		H	4	35	4		4	.9			4									
RA		H	4	37	11		11	2.3						11						
RA		H	4	39	6	16.7	5	1.0			5									
RA		H	4	40	230		230	46.2			53	103	45	29						

TC TLOGSTVB

Log Stock Table - MBF

Project: **BUCKS**

T01N R07W S20 T0100

T01N R07W S20 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	07W	20	UNIT1A	0100	61.00	31	174

Date **6/9/2022**

Time **8:28:39AM**

Spp	S T	So Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA		Totals		501		498	32.5			161	109	98	79	26	25				
Total All Species				1,541		1,531	100.0		67	227	220	255	333	92	243	71	22		

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: BUCKS

Page 1
Date 6/9/2022
Time 8:31:16AM

T01N R07W S20 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
01N	07W	20	UNIT1B	0200	20.00	9	45	S	W

T01N R07W S20 T0200

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent 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		CO	2	74	6.0	13,688	12,867	257			34	66				100	40	16	425	2.58	30.3
DF		CO	3	15	4.2	2,639	2,527	51		84	16					100	40	9	112	0.86	22.7
DF		CO	4	11	1.6	1,848	1,819	36	57	43			8	29	63		28	6	40	0.55	45.0
DF	**Totals**			98	5.3	18,175	17,213	344	6	17	28	49	1	3	7	89	34	10	176	1.36	97.9
WH		CO	4	100		318	318	6	100				36	64			22	5	25	0.46	12.5
WH	**Totals**			2		318	318	6	100				36	64			22	5	25	0.46	12.5
Type Totals					5.2	18,493	17,530	351	8	17	27	48	2	4	7	88	33	9	159	1.30	110.4

TC TSTNDSUM

Stand Table Summary

Project **BUCKS**

T01N R07W S20 T0200

T01N R07W S20 T0200

Page: 1

Date: 06/09/202

Time: 8:31:17AM

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	07W	20	UNIT1B	0200	20.00	9	45

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	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		12	1	72	49	5.035	3.95	5.04	14.3	30.0	2.05	72	151	41	14	3
DF		13	1	77	32	4.291	3.95	4.29	11.5	30.0	1.41	49	129	28	10	3
DF		14	4	85	45	14.798	15.82	14.80	18.5	40.0	7.81	274	592	156	55	12
DF		15	1	86	69	3.223	3.95	6.45	15.6	50.0	2.87	101	322	57	20	6
DF		16	1	83	88	2.832	3.95	5.66	22.1	65.0	3.57	125	368	71	25	7
DF		18	1	83	110	2.238	3.95	4.48	32.8	120.0	4.19	147	537	84	29	11
DF		19	2	86	111	4.017	7.91	8.03	38.1	142.5	8.72	306	1,145	174	61	23
DF		22	3	84	94	4.494	11.86	8.99	45.3	155.0	11.60	407	1,393	232	81	28
DF		26	2	84	120	2.145	7.91	5.36	62.2	248.0	9.50	333	1,330	190	67	27
DF		27	2	84	118	1.989	7.91	5.97	55.7	226.7	9.47	332	1,353	189	66	27
DF		28	3	78	111	2.775	11.86	7.40	62.2	197.5	13.12	460	1,461	262	92	29
DF		29	2	82	121	1.724	7.91	3.45	93.1	400.0	9.15	321	1,379	183	64	28
DF		30	1	83	142	.806	3.95	2.42	76.6	383.3	5.28	185	927	106	37	19
DF		31	2	84	131	1.509	7.91	4.53	80.4	345.0	10.37	364	1,562	207	73	31
DF		32	2	80	144	1.416	7.91	4.25	86.5	363.3	10.48	368	1,544	210	74	31
DF		35	2	78	144	1.184	7.91	3.55	103.0	406.7	10.42	366	1,444	208	73	29
DF		36	1	77	148	.559	3.95	1.68	113.0	440.0	5.41	190	739	108	38	15
DF		37	1	80	145	.530	3.95	1.59	118.7	526.7	5.38	189	837	108	38	17
DF		Totals	32	82	81	55.566	126.55	97.92	46.9	175.8	130.79	4,589	17,213	2,616	918	344
WH		10	1	80	20	5.659	3.09	5.66	5.8	20.0	1.05	33	113	21	7	2
WH		12	1	75	34	3.930	3.09	3.93	11.5	30.0	1.45	45	118	29	9	2
WH		14	1	74	35	2.887	3.09	2.89	16.3	30.0	1.50	47	87	30	9	2
WH		Totals	3	77	28	12.477	9.26	12.48	10.0	25.5	4.00	125	318	80	25	6
Totals			35	81	71	68.043	135.81	110.40	42.7	158.8	134.79	4714	17,530	2,696	943	351

TC TLOGSTVB

Log Stock Table - MBF

Project: BUCKS

T01N R07W S20 T0200

T01N R07W S20 T0200

Page 1

Date 6/9/2022

Time 8:31:15AM

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	07W	20	UNIT1B	0200	20.00	9	45

Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	40	274	6.0	257	74.8						36		35		85	91	11
DF		CO	3	40	53	4.2	51	14.7			10	16		16	8					
DF		CO	4	12	1		1	.2		1										
DF		CO	4	13	1		1	.2		0		0								
DF		CO	4	15	0		0	.1			0									
DF		CO	4	17	1		1	.3						1						
DF		CO	4	19	0		0	.1			0									
DF		CO	4	21	2		2	.6			1			1						
DF		CO	4	23	1		1	.2			1									
DF		CO	4	24	1		1	.3		1										
DF		CO	4	25	4		4	1.1		3				1						
DF		CO	4	26	2		2	.5		2										
DF		CO	4	29	1		1	.3						1						
DF		CO	4	31	9	6.7	8	2.4		3		1		4						
DF		CO	4	34	3		3	.8			3									
DF		CO	4	35	12		12	3.4		12										
DF		Totals			364	5.3	344	98.2		21	15	18	25	44		35		85	91	11
WH		CO	4	17	2		2	35.6		2										
WH		CO	4	25	2		2	37.1		2										
WH		CO	4	27	2		2	27.3		2										
WH		Totals			6		6	1.8		6										
Total All Species					370	5.2	351	100.0		27	15	18	25	44		35		85	91	11

TC TSTNDSUM

Stand Table Summary

Project **BUCKS**

T01N R07W S20 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	07W	20	UNIT2	0100	74.00	44	197

T01N R07W S20 T0100

Date: 06/09/202

Time: 8:33:00AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	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	2	79	116	4.923	2.68	7.38	11.3	43.3	2.37	83	320	175	62	24
DF		11	2	85	102	4.068	2.68	6.10	12.3	50.0	2.14	75	305	159	56	23
DF		12	1	70	103	1.709	1.34	3.42	12.3	35.0	1.20	42	120	89	31	9
DF		13	2	76	99	2.913	2.68	5.83	14.8	47.5	2.47	86	277	182	64	20
DF		14	1	80	103	1.256	1.34	2.51	17.9	60.0	1.28	45	151	95	33	11
DF		15	2	74	100	2.188	2.68	2.19	20.5	70.0	1.28	45	153	94	33	11
DF		16	5	85	91	4.807	6.71	9.61	22.8	88.0	6.25	219	846	462	162	63
DF		17	5	83	97	4.259	6.71	8.52	25.8	91.0	6.27	220	775	464	163	57
DF		18	4	83	95	3.039	5.37	6.84	25.8	95.6	5.03	176	653	372	131	48
DF		19	4	81	122	2.727	5.37	6.82	32.5	119.0	6.32	222	811	468	164	60
DF		20	2	84	110	1.231	2.68	3.08	27.7	112.0	2.43	85	345	180	63	26
DF		21	5	84	122	2.791	6.71	7.81	36.2	135.0	8.07	283	1,055	597	209	78
DF		22	4	82	105	2.034	5.37	4.58	44.4	155.6	5.79	203	712	428	150	53
DF		23	5	81	111	2.326	6.71	5.12	49.5	183.6	7.22	253	940	535	188	70
DF		24	6	82	118	2.564	8.05	6.41	50.1	196.0	9.15	321	1,256	677	238	93
DF		25	6	85	126	2.363	8.05	6.30	55.6	238.1	9.98	350	1,500	739	259	111
DF		26	3	85	127	1.092	4.03	3.28	55.3	246.7	5.17	181	808	382	134	60
DF		27	2	83	133	.675	2.68	2.03	60.8	263.3	3.51	123	533	259	91	39
DF		28	4	82	110	1.256	5.37	2.83	74.9	282.2	6.03	212	797	446	157	59
DF		29	2	81	123	.585	2.68	1.46	76.9	316.0	3.21	113	462	238	83	34
DF		30	2	87	129	.547	2.68	1.64	74.8	353.3	3.50	123	580	259	91	43
DF		31	6	84	130	1.537	8.05	4.61	79.5	361.1	10.45	367	1,665	773	271	123
DF		32	2	88	122	.481	2.68	1.20	91.5	454.0	3.13	110	546	232	81	40
DF		34	4	86	123	.852	5.37	2.13	105.0	484.0	6.37	224	1,031	472	165	76
DF		35	1	92	138	.201	1.34	.60	112.1	630.0	1.93	68	380	143	50	28
DF		36	1	78	120	.190	1.34	.57	98.3	390.0	1.60	56	222	118	41	16
DF		38	1	80	112	.170	1.34	.51	97.7	436.7	1.42	50	223	105	37	17
DF		39	1	75	107	.162	1.34	.32	154.5	495.0	1.42	50	160	105	37	12
DF		40	1	85	146	.154	1.34	.46	150.1	783.3	1.97	69	362	146	51	27
DF		Totals	86	82	109	53.100	115.45	114.16	39.0	157.6	126.97	4,455	17,989	9,396	3,296	1,331
RA		8	1	78	17	3.938	1.37	3.94	3.8	20.0	.41	15	79	31	11	6
RA		10	4	73	40	10.082	5.50	5.04	7.5	25.0	1.04	38	126	77	28	9
RA		11	3	85	57	6.249	4.12	8.33	10.1	37.5	2.31	84	312	171	62	23
RA		12	8	76	61	14.003	11.00	12.25	16.6	48.6	5.60	204	595	415	151	44
RA		13	8	85	62	11.931	11.00	13.42	19.1	60.0	7.04	256	805	521	189	60
RA		14	2	77	66	2.572	2.75	2.57	25.8	65.0	1.82	66	167	135	49	12
RA		15	5	75	57	5.601	6.87	5.60	21.4	58.0	3.29	120	325	244	89	24
RA		16	3	81	81	2.954	4.12	4.92	23.8	74.0	3.22	117	364	239	87	27
RA		17	3	84	58	2.616	4.12	3.49	29.3	75.0	2.81	102	262	208	76	19
RA		18	2	75	64	1.556	2.75	2.33	27.5	83.3	1.76	64	194	130	48	14
RA		20	1	89	44	.630	1.37	.63	38.0	160.0	.65	24	101	48	18	7
RA		26	1	83	59	.373	1.37	.37	89.0	200.0	.92	33	75	68	25	6
RA		Totals	41	79	55	62.506	56.36	62.91	17.9	54.1	30.88	1,123	3,406	2,285	831	252
SS		9	1	67	17	2.058	.91									
SS		11	1	66	22	1.378	.91	1.38	6.9	20.0	.25	9	28	18	7	2
SS		12	1	72	28	1.157	.91	1.16	9.7	20.0	.29	11	23	22	8	2
SS		16	1	49	48	.651	.91									
SS		Totals	4	66	25	5.244	3.64	2.54	8.1	20.0	0.54	21	51	40	15	4
OC		15	2	82	79	1.482	1.82									
OC		16	1	83	67	.651	.91									

TC TSTNDSUM

Stand Table Summary

Project **BUCKS**

T01N R07W S20 T0100

T01N R07W S20 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	07W	20	UNIT2	0100	74.00	44	197

Date: **06/09/202**

Time: **8:33:00AM**

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
OC		Totals	3	82	75	2.133	2.73									
Totals			134	80	77	122.983	178.18	179.60	31.2	119.4	158.38	5599	21,445	11,720	4,143	1,587

TC TLOGSTVB

Log Stock Table - MBF

Project: BUCKS

T01N R07W S20 T0100

T01N R07W S20 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	07W	20	UNIT2	0100	74.00	44	197

Page 1
Date 6/9/2022
Time 8:32:58AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	18	8		8	.6								8				
DF		CO	2	32	11		11	.8								11				
DF		CO	2	34	8		8	.6						8						
DF		CO	2	38	9		9	.7						9						
DF		CO	2	40	826	.7	820	61.6						114	139	300	201	66		
DF		CO	3	20	3		3	.2								3				
DF		CO	3	21	1		1	.1					1							
DF		CO	3	23	3		3	.2				3								
DF		CO	3	24	2		2	.2		1		1								
DF		CO	3	28	7		7	.5					7							
DF		CO	3	30	3		3	.2			1		2							
DF		CO	3	32	1		1	.1			1									
DF		CO	3	34	1		1	.1			1									
DF		CO	3	36	1		1	.1			1									
DF		CO	3	40	370	1.0	366	27.5			91	72	170	29	4					
DF		CO	4	13	2		2	.1			1	0	1							
DF		CO	4	14	2		2	.1		1		0								
DF		CO	4	16	7		7	.6		5		3								
DF		CO	4	17	1	25.0	1	.0				1								
DF		CO	4	19	2		2	.1		1		1								
DF		CO	4	20	4		4	.3		4	1									
DF		CO	4	21	3		3	.2			3									
DF		CO	4	22	4		4	.3		3	1									
DF		CO	4	23	1		1	.1		1										
DF		CO	4	24	1		1	.1			1									
DF		CO	4	25	2		2	.2		1	1									
DF		CO	4	26	6		6	.5		4	2									
DF		CO	4	28	4		4	.3		3		1								
DF		CO	4	29	4		4	.3		1	3									
DF		CO	4	30	2		2	.2		2		1								
DF		CO	4	31	7		7	.5		5			2							
DF		CO	4	32	8		8	.6		8										
DF		CO	4	33	3		3	.2		1		1								
DF		CO	4	34	3		3	.2		3										
DF		CO	4	35	4		4	.3		3	1									
DF		CO	4	36	2		2	.1		2										
DF		CO	4	37	3		3	.3		2			2							
DF		CO	4	38	4		4	.3		4										
DF		CO	4	40	10		10	.7		10										
DF		Totals			1,341		1,331	83.9		63	109	84	184	160	143	322	201	66		
RA		H	3	26	7		7	3.0						7						
RA		H	3	32	9		9	3.6					9							
RA		H	4	12	2		2	.6			2									
RA		H	4	14	6		6	2.3			6									
RA		H	4	15	3		3	1.2				3								
RA		H	4	16	2		2	.9			2									
RA		H	4	18	2		2	.9			2									
RA		H	4	19	8	10.5	7	2.8			4	3								
RA		H	4	20	2		2	.7			2									
RA		H	4	21	6	22.2	5	1.8			5									
RA		H	4	23	4		4	1.8				4								

TC TLOGSTVB

Log Stock Table - MBF

Project: **BUCKS**

T01N R07W S20 T0100

T01N R07W S20 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01N	07W	20	UNIT2	0100	74.00	44	197

Page 2
Date 6/9/2022
Time 8:32:58AM

Spp	S T	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+
RA		H	4	25	6		6	2.2			6									
RA		H	4	26	2		2	.9			2									
RA		H	4	27	3		3	1.3			3									
RA		H	4	30	13		13	5.0			7	5								
RA		H	4	32	14		14	5.6			14									
RA		H	4	33	6		6	2.6			6									
RA		H	4	35	8		8	3.3			8									
RA		H	4	36	8		8	3.1			8									
RA		H	4	39	11		11	4.2			11									
RA		H	4	40	133	1.0	132	52.3			71	34	21	6						
RA		Totals			255	1.3	252	15.9			159	50	30	13						
SS		CO	4	16	2		2	54.3			2									
SS		CO	4	21	2		2	45.7		2										
SS		Totals			4		4	.2		2	2									
Total All Species					1,600		1,587	100.0		65	270	134	214	173	143	322	201	66		

"STEWARDSHIP IN FORESTRY"

Buckskins

Volume Summary

Unit 1A-Modified Clearcut				
		61 acres		
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	16.9	1032	1%	1022
Red Alder	8.16	498	2%	488
TOTAL	25.1	1530		1510

Unit 1B-Retention Clearcut				
		20 acres		
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	17.20	344	1%	341
Western Hemlock	0.30	6	1%	6
Red Alder	0.00	0	2%	0
TOTAL	17.5	350		347

Unit 2-Modified Clearcut				
		74 acres		
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	17.986	1331	1%	1318
sitka spruce	0.054	4	1%	4
Red Alder	3.4	252	2%	247
TOTAL	21.4	1587		1569

TOTAL SALE VOLUME 155 acres		
SPECIES	Cruised Net (MBF)	Net Sale (MBF)
Douglas-fir	2707	2680
Western hemlock	6	6
Sitka Spruce	4	4
Bigleaf Maple		
Red Alder	750	735
TOTAL	3467	3425

N

Strata 1A

Strata 1B

T1N R7W

Bridge Creek

Buck Creek

BUCKUP

CHAINBREAKER

ANGRY ELF

19

20

2

1

29

30

28

Buckskins_Recon

HarvestType

- Clearcut - Modified
- No Harvest - Riparian
- No Harvest - Existing Road

Planned_Roads_CHECKOUT

ProjectType

- New Construction
- Reconstruction

Trails - Tillamook District

TYPE

- Motorcycle
- Quad

Roads - TL replica

STATUS, SURFACE

- Abandoned or vacated
- Blocked
- Surfaced
- Unsurfaced

Stream_GPS_Points_EDITS

comment

- Seasonal Other Above
- End of Perennial Flow No Stream Above
- End of Perennial Flow Seasonal Above
- Start Sub-surface Flow

Streams - TL replica

Fishpres,Duration

- Fish,Perennial
- Nonfish,Perennial
- Nonfish,Seasonal
- Unknown,Unknown
- Unknown,Seasonal

TL_GeoTech_Harvest_Review

Review_Area

- Area of Interest
- Area of Review
- Buffer
- TL_corners
- Townships
- Sections

bare_hill_1m_Wilson_2007

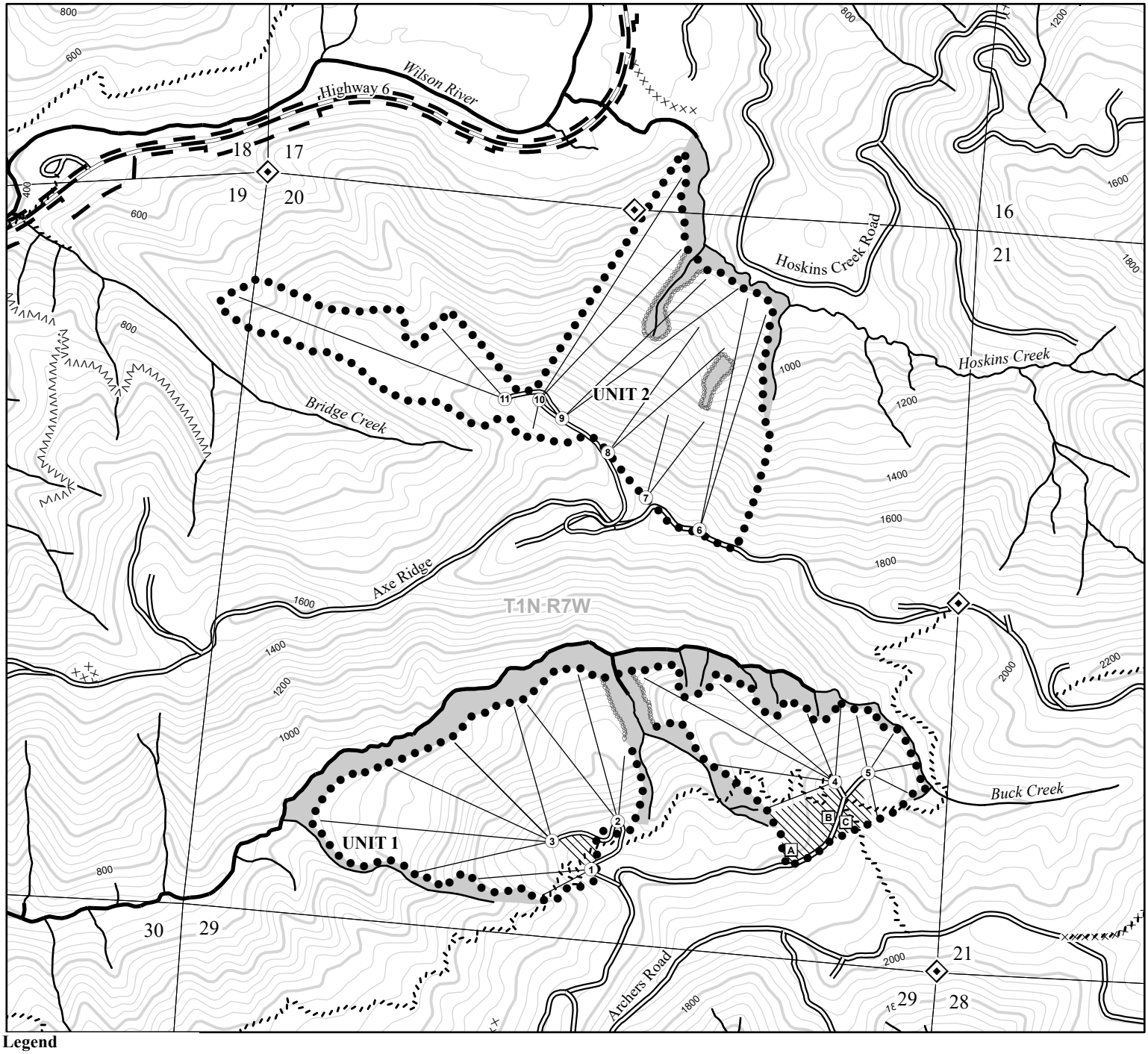
Value

- High : 254
- Low : 0

bare_hill_1m_Lincoln_City_2009

Value

- High : 254
- Low : 0



Legend

- Corners
- Cable Landing
- Tractor Landing
- Cable Logging
- Ground Based
- Recreation Trail
- Highways
- Surfaced Road
- Blocked Road
- Abandoned Road
- Type-F Stream
- Type-N Stream
- Sections
- 200' Contour
- 40' Contour
- Riparian Boundary
- Timber Sale Boundary
- Property Line

LOGGING PLAN

FOR TIMBER SALE CONTRACT
TL-341-2023-W00853-01
BUCKSKINS
PORTIONS OF SECTIONS 17, 19, & 20, T1N, R7W, W.M.
TILLAMOOK COUNTY, OREGON

Tillamook District GIS
July,2022
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 1,000 2,000 Feet

N

NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	6	75	81
UNIT 2	0	74	74
TOTAL	6	149	155