Timber Sale Appraisal
Easter Gonner
Sale WO-341-2018-34-

District: West Oregon **Date: June 30, 2017**

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$606,441.84	$5,227.05	$611,668.89
		Project Work:	($32,442.00)
		Advertised Value:	$579,226.89

Timber Sale Appraisal
Easter Gonner
Sale WO-341-2018-34-

District: West Oregon **Date: June 30, 2017**

Timber Description

Location: Portions of Section 24, T10S, R7W, W.M., Benton County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	19	0	93
Western Hemlock / Fir	14	0	93
Alder (Red)	14	0	92

Volume by Grade	3P	SM	2S	3S	4S	Camprun	Total
Douglas - Fir	23	115	672	460	62	0	1,332
Western Hemlock / Fir	0	0	14	16	7	0	37
Alder (Red)	0	0	0	0	0	15	15
Total	23	115	686	476	69	15	1,384

Comments: Pond Values Used: Local Pond Values, April 2017.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$1,129.86/MBF = $1,423.88/MBF - $294.02/MBF

SCALING COST ALLOWANCE = $5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = $2.00/MBF

FUEL COST ALLOWANCE = $3.00/Gallon

Expected Log Markets: Philomath, Eugene, Springfield, Willamina.

HAULING COST ALLOWANCE
Hauling costs equivalent to $780 daily truck cost.

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

Other Costs (No Profit & Risk added):
Equipment Cleaning (Invasive Species): $2,000
Landing Slash Piling: 15 Landings @ $180/Landing = $2,700
TOTAL Other Costs (No Profit & Risk added) = $4,700

SLASH DISPOSAL
Move-In = $1,290
Machine Wash = $300
Project Work: 46 hrs @ $150/hr = $6,900
TOTAL Slash Disposal = $8,490

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District: West Oregon **Date: June 30, 2017**

Logging Conditions

Combination#: 1

Douglas - Fir	60.82%
Western Hemlock / Fir	66.00%
Alder (Red)	63.33%

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: 9 **bd. ft / load:** 4000

cost / mbf: $216.12

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

Combination#: 2

Douglas - Fir	39.18%
Western Hemlock / Fir	34.00%
Alder (Red)	36.67%

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

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

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

loads / day: 18 **bd. ft / load:** 4600

cost / mbf: $64.54

machines:
Forwarder
Harvester

Timber Sale Appraisal
Easter Gonner
Sale WO-341-2018-34-

District: West Oregon **Date: June 30, 2017**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	12%
Project Costs:	$32,442.00	**Other Costs (P/R):**	$0.00
Slash Disposal:	$8,490.00	**Other Costs:**	$4,700.00

Miles of Road **Road Maintenance:** $6.81

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	4.5
Western Hemlock / Fir	$0.00	3.0	4.0
Alder (Red)	$0.00	3.0	3.5

Timber Sale Appraisal
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District: West Oregon **Date: June 30, 2017**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas - Fir									
$156.73	$7.29	$6.34	$61.82	$0.00	$27.86	$6.13	$7.00	$3.40	$276.57
Western Hemlock / Fir									
$164.58	$7.29	$6.34	$69.55	$0.00	$29.73	$6.13	$7.00	$3.40	$294.02
Alder (Red)									
$160.54	$7.35	$6.34	$80.23	$0.00	$30.54	$6.13	$7.00	$3.40	$301.53

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$724.25	$447.68	$0.00
Western Hemlock / Fir	$0.00	$567.86	$273.84	$0.00
Alder (Red)	$0.00	$650.00	$348.47	$0.00

Timber Sale Appraisal
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District: West Oregon **Date: June 30, 2017**

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	1,332	$447.68	$596,309.76
Western Hemlock / Fir	37	$273.84	$10,132.08
Alder (Red)	15	$348.47	$5,227.05

Gross Timber Sale Value

Recovery: $611,668.89

Prepared By: Jon Long **Phone:** 541-929-9169

SUMMARY OF ALL PROJECT COSTS

Sale Name: Easter Gonner

Date: June 2017
Time: 15:30

Project #1 - New Construction and Improvements

Road Segment	Length	Cost	
A to B	1.4 sta	$2,521	
1 to 2	134.7 sta	$11,571	
3 to 4	46.0 sta	$7,980	
5 to 6	8.6 sta	$1,626	
7 to 8	3.9 sta	$1,075	
9 to 10	8.4 sta	$1,507	
11 to 12	5.8 sta	$1,049	
13 to 14	2.1 sta	$628	
15 to 16	1.1 sta	$779	
TOTALS	210.9 sta		$28,736

Move in	Cost	On-site move	
Excavator, C325 or equv.	$1,290		
Dozer, D-7 or equiv.	$805	$26	
Grader, G14 or equiv.	$778	$10	
Vibratory roller	$778	$19	
TOTAL			$3,706

GRAND TOTAL **$32,442**

Compiled by M.McBride Date 06/08/2017

SUMMARY OF CONSTRUCTION COST

SALE Easter Gonner Project # 1 LENGTH const 1.4 sta
ROAD A to B Surfaced, outsloped

CLEARING AND GRUBBING

0.1	acres	@	$1,337.00	/acre	=	$134

TOTAL CLEARING AND GRUBBING = $134

EXCAVATION With D7 dozer or equivalent

Construct road	1.4 sta	@	$122.00	/sta	=	$171
Shape subgrade (with road grader)	1.4 sta	@	$18.35	/sta	=	$26
Compact subgrade (with vibratory roller)	1.4 sta	@	$20.19	/sta	=	$28

TOTAL EXCAVATION = $225

SURFACING

			Size	Cost/yd		
Base rock (8" lift)	60	cy of	jaw-run	$16.55	=	$993
Surface rock (2"lift)	20	cy of	1½-0"	$19.25	=	$385
Junction rock	20	cy of	jaw-run	$16.55	=	$331
Junction rock	20	cy of	1½-0"	$19.25	=	$385

TOTAL ROCK COST = $2,094

Grading

Grade/process base rock (with vibratory roller)	1.4 sta	@	$24.28	/sta	=	$34
Grade/process surface rock (with vibratory roller)	1.4 sta	@	$24.28	/sta	=	$34

TOTAL Grading = $68

Compiled by: M. McBride
Date: Jun 8, 2017

GRAND TOTAL =====> $2,521

SUMMARY OF CONSTRUCTION COST

SALE	Easter Gonner	Project # 1	LENGTH improve		134.7 sta
ROAD	1 to 2		Surfaced, Ditched		

IMPROVEMENT

Slough removal (includes end-haul)	30	cy	@	$4.00	/cy	=	$120
Process Waste Area	30	cy	@	$0.40	/cy		$12
Pull ditch and scatter waste material	70.0	sta	@	$12.41	/sta	=	$869
Re-open landing (with road grader)	0.5	hrs	@	$100.00	/hr	=	$50
Grade/process surface rock (with vibratory roller)	134.7	sta	@	$24.28	/sta	=	$3,271

TOTAL IMPROVEMENT = $4,322

SURFACING

			Size	Cost/yd		
Curve widening rock	20	cy of	1½-0"	$19.25	=	$385
Turnout rock (6)	60	cy of	3-0"	$17.56	=	$1,054
Landing rock	30	cy of	jaw-run	$16.55	=	$497
Spot rock	260	cy of	1½-0"	$19.25	=	$5,005

TOTAL ROCK COST = $6,941

SPECIAL PROJECTS

Clean out culverts (inlets and outlets)	12	culverts	@	$25.67	ea =	$308

TOTAL SPECIAL PROJECTS COST = $308

Compiled by: M.McBride
Date: Jun 8, 2017

GRAND TOTAL =====> $11,571

SUMMARY OF CONSTRUCTION COST

SALE	Easter Gonner	Project #	1	LENGTH const	46 sta
ROAD	3 to 4			Surfaced, ditched	

CLEARING AND GRUBBING (turn-around & station 42+60 to Point 4)

0.14	acres	@	$1,337.00	/acre	=	$187	Turnaround

TOTAL CLEARING AND GRUBBING = $187

EXCAVATION With D7 dozer or equivalent

Construct turnaround	1 hr	@	$144.00	/hr	=	$144
Compact subgrade (with vibratory roller)	0.3 sta	@	$20.19	/sta	=	$6

TOTAL EXCAVATION = $150

IMPROVEMENT

Re-open landing (with dozer)	1 hrs	@	$ 135.80	/hr	=	$136
Remove sod (with road grader)	17.1 sta	@	$18.35	/sta	=	$314
Grade/process surface rock (with vibratory roller)	46.0 sta	@	$24.28	/sta	=	$1,117

TOTAL IMPROVEMENT = $1,567

SURFACING

			Size	Cost/yd		
Surface rock (4"lift) (Sta. 42+60 to Pt. 4)	80	cy of	3-0"	$17.56	=	$1,405
Turnout rock (3)	30	cy of	3-0"	$17.56	=	$527
Landing rock	40	cy of	jaw-run	$16.55	=	$662
Turnaround rock	20	cy of	3-0"	$17.56	=	$351
Spot rock	160	cy of	1½-0"	$19.25	=	$3,080

TOTAL ROCK COST = $6,025

SPECIAL PROJECTS

Clean out culverts (inlets and outlets)	2 culverts	@	$25.67	ea	=	$51

TOTAL SPECIAL PROJECTS COST = $51

Compiled by: M.McBride
Date: Jun 8, 2017

GRAND TOTAL =====> $7,980

SUMMARY OF CONSTRUCTION COST

SALE	Easter Gonner	Project # 1	LENGTH	improve	8.6 sta
ROAD	5 to 6			Surfaced, outsloped	

IMPROVEMENT

Re-open road (with road grader)	8.6	sta	@	$18.35	/sta	=	$158
Re-open landing (with road grader)	0.5	hrs	@	$100.00	/hr	=	$50
Grade/process surface rock (with vibratory roller)	8.6	sta	@	$24.28	/sta	=	$209

TOTAL IMPROVEMENT = $417

SURFACING

			Size	Cost/yd		
Landing rock	20	cy of	jaw-run	$16.55	=	$331
Junction rock	20	cy of	3-0"	$17.56	=	$351
Spot rock	30	cy of	3-0"	$17.56	=	$527

TOTAL ROCK COST = $1,209

Compiled by: M.McBride
Date: Jun 8, 2017

GRAND TOTAL =====> $1,626

SUMMARY OF CONSTRUCTION COST

SALE	Easter Gonner	Project #	1	LENGTH improve	3.9 sta
ROAD	7 to 8			Surfaced, outsloped	

IMPROVEMENT

Re-open road	3.9 sta	@		$18.35	/sta	=	$72
Re-open landing	0.5 hrs	@	$	100.00	/hr	=	$50
Grade/process surface rock (with vibratory roller)	3.9 sta	@		$24.28	/sta	=	$95

TOTAL IMPROVEMENT = $217

SURFACING

			Size	Cost/yd		
Landing rock	20	cy of	jaw-run	$16.55	=	$331
Junction rock	10	cy of	3-0"	$17.56	=	$176
Spot rock	20	cy of	3-0"	$17.56	=	$351

TOTAL ROCK COST = $858

Compiled by: M.McBride
Date: Jun 8, 2017

GRAND TOTAL =====> $1,075

SUMMARY OF CONSTRUCTION COST

SALE	Easter Gonner	Project # 1	LENGTH improve		8.4 sta
ROAD	9 to 10		Surfaced, outsloped		

IMPROVEMENT

Clear blowdown (with excavator)	0.5	hrs	@	$129.00	/hr	=	$65
Re-open road (with road grader)	8.4	sta	@	$18.35	/sta	=	$154
Re-open landing (with road grader)	0.5	hrs	@	$100.00	/hr	=	$50
Grade/process surface rock (with vibratory roller)	8.4	sta	@	$24.28	/sta	=	$204

TOTAL IMPROVEMENT = $473

SURFACING			Size	Cost/yd		
Landing rock	20	cy of	jaw-run	$16.55	=	$331
Junction rock	10	cy of	3-0"	$17.56	=	$176
Spot rock	30	cy of	3-0"	$17.56	=	$527

TOTAL ROCK COST = $1,034

Compiled by: M.McBride
Date: Jun 8, 2017

GRAND TOTAL =====> $1,507

SUMMARY OF CONSTRUCTION COST

SALE	Easter Gonner	Project # 1	LENGTH improve		5.8 sta
ROAD	11 to 12		Surfaced, outsloped		

IMPROVEMENT

Re-open landing (with road grader)	0.5	hrs	@	$100.00	/hr	=	$50
Grade/process surface rock (with vibratory roller)	5.8	sta	@	$24.28	/sta	=	$141

TOTAL IMPROVEMENT = $191

SURFACING

			Size	Cost/yd		
Landing rock	20	cy of	jaw-run	$16.55	=	$331
Junction rock	10	cy of	3-0"	$17.56	=	$176
Spot rock	20	cy of	3-0"	$17.56	=	$351

TOTAL ROCK COST = $858

Compiled by: M.McBride
Date: Jun 8, 2017

GRAND TOTAL =====> $1,049

SUMMARY OF CONSTRUCTION COST

SALE	Easter Gonner	Project #	1	LENGTH improve	2.1 sta
ROAD	13 to 14			Surfaced, outsloped	

IMPROVEMENT

Re-open landing (with road grader)	0.5	hrs	@	$100.00	/hr	=	$50
Grade/process surface rock (with vibratory roller)	2.1	sta	@	$24.28	/sta	=	$51

TOTAL IMPROVEMENT = $101

SURFACING			Size	Cost/yd		
Landing rock	20	cy of	3-0"	$17.56	=	$351
Junction rock	10	cy of	3-0"	$17.56	=	$176

TOTAL ROCK COST = $527

Compiled by: M.McBride
Date: Jun 8, 2017

GRAND TOTAL =====> $628

SUMMARY OF CONSTRUCTION COST

SALE	Easter Gonner	Project #	1	LENGTH improve	1.1 sta
ROAD	15 to 16			Surfaced, outsloped	

IMPROVEMENT

Re-open road	1.1	sta	@	$18.35	/sta	=	$20
Re-open landing	0.5	hrs	@	$ 100.00	/hr	=	$50
Grade/process surface rock (with vibratory roller)	1.1	sta	@	$24.28	/sta	=	$27

TOTAL IMPROVEMENT = $97

SURFACING

			Size	Cost/yd		
Landing rock	20	cy of	jaw-run	$16.55	=	$331
Junction rock	20	cy of	3-0"	$17.56	=	$351

TOTAL ROCK COST = $682

Compiled by: M.McBride
Date: Jun 8, 2017

GRAND TOTAL =====> $779

SUMMARY OF MAINTENANCE COST

SALE Easter Gonner - Final Maintenance Cost Estimate

(Costed in appraisal, not in project costs)

Grading/Compaction Move-in $ 1,556

Road Segment	Length	Cost/Sta	Cost	Mileage
A to B (with compaction)	1.4	$24.28	$33.99	0.03
1 to 2 (with compaction)	134.7	$24.28	$3,270.52	2.55
3 to 4 (with compaction)	46	$24.28	$1,116.88	0.87
5 to 6	8.6	$18.35	$157.81	0.16
7 to 8	3.9	$18.35	$71.57	0.07
9 to 10	8.4	$18.35	$154.14	0.16
11 to 12	5.8	$18.35	$106.43	0.11
13 to 14 (with compaction)	2.1	$24.28	$50.99	0.04
15 to 16	1.1	$18.35	$20.19	0.02
Total	212.0		$4,982.52	4.02

Maintenance Rock:

	Volume	Cost/CY	Cost
1½-0"	150	$19.25	$2,887.50
3-0"			$0.00
Grand Total			$ 9,426.02
TS Volume	1,384.00	MBF	
Cost / MBF =			$6.81

NOTES:

20 CY of 1½-0" shall be spread and compacted on landing at Point 14 for use as a helispot.

Rock Haul Cost Computation

SALE NAME: Easter Gonner DATE: Jun 8, 2017
ROAD NAME: Fathead Lake Rd. CLASS: Medium
ROCK SOURCE: Wild Rose 9 CY truck
Route: Hwy. 223, Luckiamute Rd., Hoskins Rd., Fathead lake Rd.

TIME Computation:
Road speed time factors:

1.	55 MPH		MRT	0.0	minutes
2.	50 MPH		MRT	0.0	minutes
3.	45 MPH		MRT	0.0	minutes
4.	40 MPH	9.2	MRT	13.8	minutes
5.	35 MPH		MRT	0.0	minutes
6.	30 MPH	3.5	MRT	7.0	minutes
7.	25 MPH		MRT	0.0	minutes
8.	20 MPH	3.0	MRT	9.0	minutes
9.	15 MPH		MRT	0.0	minutes
10.	10 MPH	4.0	MRT	24.0	minutes
11.	05 MPH		MRT	0.0	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		54.30	minutes
Operator efficiency correction	0.85	63.88	minutes
Job efficiency correction	0.90	70.98	minutes
Truck capacity (CY)	10.00	7.10	min/CY
Loading time, delay time per CY		0.25	min/CY
TIME (minutes) per cubic yard		7.35	min/CY

COST per CY computation

Cost of truck and operator per hour	$68.88	/hr.
Cost of truck and operator per minute	$1.15	/min
Cost per CY	$8.45	/CY
Spread and compact — Water truck, Grader & Roller	$1.50	/CY

Size	**Cost/Yd (Pit)**	**Cost Delivered w/o processing**	**Cost Delivered with processing**
1½ - 0"	$ 10.80	$19.25	$20.75
3 - 0"	$ 9.11	$17.56	$19.06
Jaw Run	$ 8.10	$16.55	$18.05
Pit-Run	7.43	$15.88	$17.38

Easter Gonner (341-18-34)
FY 2017

TIMBER CRUISE REPORT

1. **Sale Area Location**: Portions of Section 24, T10S, R7W, W.M., Benton County, Oregon.

2. **Fund Distribution:**
   a. **Fund** BOF 100%
   b. **Tax Code**

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Stream Buffers	Patch Cuts	Existing Roads	GTRA	Net Sale Acres	Acreage Comp. Method
1	**Modified Clearcut**	91	12.2	8.4	4.0	1.4	65	Ortho photo, GIS, GPS
2	**Modified Clearcut**	17	---	---	1.0	---	16	Ortho photo, GIS, GPS
Total		108	12.2	8.4	5.0	1.4	81	

4. **Cruisers and Cruise Dates:** Area 1 was cruised by Jon Long and Carli Morgan in April 2017. Area 2 was cruised by Matt McBride and Eric Brekstad in April 2017.

5. **Cruise Method and Computation:** The timber sale consists of two modified clearcuts. Area 1 was cruised using variable radius plot sampling with a 33.61 BAF. A total of 32 plots were cruised using a 3 by 7 chain grid with a ratio of one count plot for every grade plot. In total, 16 plots were counted, and 16 plots were graded. Area 2 was cruised with a 40 BAF. A total of 16 plots were cruised using a 3 by 3 chain grid with a one to one count to grade plot ratio. In total, 8 plots were counted, and 8 plots were graded in Area 2. Tree count and species were recorded on all count plots. Cruise plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury SuperACE cruise program to determine stand statistics and net board foot volume.

   Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcMap GIS was used to determine gross and net acreage.

6. **Measurement Standards:** Tree heights were measured to the nearest foot, to a top diameter of 7 inches outside bark or to 40% of form factor. Diameters were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor. Form factors were measured or estimated on every graded tree. Most trees were graded in 40 foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.

7. **Timber Description:** Timber in Area 1 consists of approximately 50 to 60 year-old Douglas-fir with scattered western hemlock and red alder. Area 1 had recently been thinned in 2012. The ice storm of 2014 caused considerable damage in Area 1. The average Douglas-fir tree size to be harvested in Area 1 is approximately 16 inches DBH, with an average height of 59 feet to a merchantable top. Timber in Area 2 consists of approximately 80 year-old Douglas-fir with minor amounts of western hemlock, western redcedar, and red alder. All cedar are reserved from cutting. The average Douglas-fir in Area 2 is approximately 28 inches DBH, with an average height of 103 feet to a merchantable top. The average red alder in Area 2 is approximately 21 inches DBH, with an average height of 43 feet to a merchantable top. The average volume per acre to be harvested (net) is approximately 11 MBF in Area 1, and 45 MBF in the Area 2.

8. Statistical Analysis and Stand Summary: (See attached "Statistics").

	Target CV	Target SE	Actual CV	Actual SE
Area 1	45%	11%	47%	8.3%
Area 2	40%	10%	35%	9.0%

Note: Percentages are for net board foot volume.

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

Areas 1 and 2 combined

Species	Gross Cruise Volume	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
Douglas-fir	1,430	1.9%	27	5%	71	1,332
Western hemlock	40	1.4%	1	5%	2	37
Red alder	20	19.1%	4	5%	1	15
Total	1,490	3.7%	32	5%	74	1,384

Area 1

Species	Ave. DBH	Net Vol.	2-Saw	3-Saw	4-Saw	Camp Run	% by Species
Douglas-fir		Grade %	37%	55%	8%	--	93%
	16	642	241	350	51	--	
Western hemlock		Grade %	38%	43%	19%	--	5%
	14	37	14	16	7	--	
Red alder		Grade %	--	--	--	100%	2%
	14	11	--	--	--	11	
Total		690	255	366	58	11	100%

Area 2

Species	Ave. DBH	Net Vol.	3P	SM	2-Saw	3-Saw	4-Saw	Camp Run	% by Species
Douglas-fir		Grade %	3%	17%	62%	16%	2%	--	99%
	28	690	23	115	431	110	11	--	
Red alder		Grade %	--	--	--	--	--	100%	1%
	20	4	--	--	--	--	--	4	
Total		694	23	115	431	110	11	4	100%

Areas 1 and 2 Combined

Species	Ave. DBH	Net Vol.	3P	SM	2-Saw	3-Saw	4-Saw	Camp Run	% by Species
Douglas-fir		Grade %	2%	9%	50%	34%	5%	--	96%
	19	1,332	23	115	672	460	62	--	
Western hemlock		Grade %	--	--	39%	42%	19%	--	3%
	14	37	--	--	14	16	7	--	
Red alder		Grade %	--	--	--	--	--	100%	1%
	14	15	--	--	--	--	--	15	
Total		1,384	23	115	686	476	69	15	100%

Attachments: Cruise Design
Cruise Maps
Species, Sort Grade – Board Foot Volumes
Statistics
Stand Table Summary
Log Stock Table – MBF

Prepared by: Jon Long Date: 5/18/2017

Unit Forester: _____ Date: _____
Evelyn Hukari

TC TLOGSTVB

Log Stock Table - MBF

Project: EGONNER

T10S R07W S24 T00CC

T10S R07W S24 T00CC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
10S	07W	24	AREA1	00CC	65.00	32	56

Date 5/18/2017

Time 3:51:35PM

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+
DF	D	CU		7																
DF	D	2		32	7	5.3	6	.9						6						
DF	D	2		36	5		5	.8						5						
DF	D	2		40	244	1.0	242	35.8						46	61	81	54			
DF	D	3		16	4		4	.6			4									
DF	D	3		17	2		2	.3			2									
DF	D	3		25	2		2	.3				2								
DF	D	3		32	112	7.2	104	15.4			7	44	53							
DF	D	3		34	13	16.8	11	1.6				2	9							
DF	D	3		38	5		5	.8			5									
DF	D	3		40	247	2.4	241	35.6			48	94	98							
DF	D	4		16	14		14	2.1		3	9	2								
DF	D	4		18	15		15	2.2		2	13									
DF	D	4		20	9		9	1.3			9									
DF	D	4		24	4		4	.5			4									
DF	D	4		26	4		4	.6		2	2									
DF	D	4		28	8		8	1.2		2	6									
DF		Totals			695	2.7	676	93.0		10	109	145	159	57	61	81	54			
RA	D	CR		24	12	33.3	8	66.5			8									
RA	D	CR		30	4		4	33.5		4										
RA		Totals			15	25.0	12	1.6		4	8									
WH	D	2		32	15		15	39.0							15					
WH	D	3		32	3	20.0	2	5.6			2									
WH	D	3		40	14		14	36.0					14							
WH	D	4		16	5		5	12.3			5									
WH	D	4		20	3		3	7.2			3									
WH		Totals			40	1.4	39	5.4			10		14		15					
SN	D	CU		35																
SN	D	CU		40																
SN	D	CU		55																
SN		Totals																		
BM	D	CU		24	26	100.0														
BM		Totals			26	100.0														
Total All Species					776	6.3	727	100.0		13	127	145	173	57	76	81	54			

TC TLOGSTVB

Log Stock Table - MBF

Project: EGONNER

T10S R07W S24 T00CC

T10S R07W S24 T00CC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
10S	07W	24	AREA2	00CC	16.00	16	43

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Date 5/12/2017
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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+
DF	D		CU	10																
DF	D		CU	16	6	100.0														
DF	D	2		20	3		3	.5								3				
DF	D	2		32	3		3	.4								3				
DF	D	2		40	448	.1	447	61.6						25	40	110	110	125	36	
DF	D	3		20	1		1	.1				1								
DF	D	3		26	1		1	.1						1						
DF	D	3		27	5		5	.6				2	2							
DF	D	3		29	1		1	.1				1								
DF	D	3		32	16		16	2.1			1	3	7	1		3				
DF	D	3		34	5		5	.7				1	3							
DF	D	3		36	2		2	.3					2							
DF	D	3		37	7		7	.9				3	3							
DF	D	3		40	79	1.6	77	10.6			8	5	12	27	5	12		8		
DF	D	3		41	3		3	.4					3							
DF	D	4		15	1		1	.1			1									
DF	D	4		16	3		3	.4			1				2					
DF	D	4		17	1		1	.1				1								
DF	D	4		19	1		1	.1							1					
DF	D	4		22	1		1	.1				1								
DF	D	4		25	1		1	.1						1						
DF	D	4		31	2		2	.3			2									
DF	D	4		33	2		2	.3			2									
DF	D	3P		40	24		24	3.3											24	
DF	D	S		40	121		121	16.6									47	62	12	
DF		Totals			735	1.1	727	99.4			15	18	34	56	48	131	157	196	72	
RA	D	CR		40	5		5	100.0			2		3							
RA		Totals			5		5	.6			2		3							
Total All Species					739	1.1	731	100.0			17	18	36	56	48	131	157	196	72	

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T10S R07W S24 Ty00CC 65.00
T10S R07W S24 Ty00CC 16.00

Project: EGONNER
Acres 81.00

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Date 5/18/2017
Time 3:52:38PM

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	D	CU			100.0	75											10	22		0.00	.6
DF	D	2		50	.5	8,774	8,733	707			31	69	0		1	98	40	17	494	2.62	17.7
DF	D	3		35	3.5	6,207	5,991	485		88	7	5	1	2	28	69	36	9	104	0.88	57.8
DF	D	4		4		805	805	65	15	79	6		66	27	6		20	6	25	0.43	32.5
DF	D	3P		2		297	297	24				100				100	40	32	1897	8.66	.2
DF	D	S		9		1,491	1,491	121				100				100	40	24	1079	4.86	1.4
DF	**Totals**			96	1.9	17,650	17,318	1,403	1	34	18	47	4	2	11	84	32	10	157	1.22	110.1
WH	D	2		38		189	189	15			100				100		32	15	280	1.87	.7
WH	D	3		42	3.2	209	202	16		100					13	87	37	9	110	0.90	1.8
WH	D	4		20		95	95	8		100			100				17	6	23	0.42	4.1
WH	**Totals**			3	1.4	493	486	39		61	39		19		45	36	24	8	73	0.82	6.7
RA	D	CR		100	19.2	248	200	16	24	76				71		29	27	6	29	0.65	6.9
RA	**Totals**			1	19.2	248	200	16	24	76				71		29	27	6	29	0.65	6.9
BM	D	CU			100.0	315											24	23		0.00	.6
BM	**Totals**				100.0	315											24	23		0.00	.6
SN	D	CU															43	252		0.00	2.6
SN	**Totals**																43	252		0.00	2.6
Totals					3.7	18,705	18,004	1,458	1	35	19	45	4	3	11	82	31	14	142	1.14	126.8

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: EGONNER

Date 5/18/2017

Time 3:51:34PM

T10S R07W S24 T00CC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
10S	07W	24	AREA1	00CC	65.00	32	56	1	W

T10S R07W S24 T00CC

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	D	CU															7	19		0.00	.4
DF	D	2		37	1.0	3,941	3,900	254			53	47			2	98	39	15	362	2.17	10.8
DF	D	3		55	4.2	5,921	5,672	369		100			2	0	31	67	36	8	93	0.82	60.9
DF	D	4		8		828	828	54	18	82			70	30			20	6	23	0.41	36.5
DF	**Totals**			93	2.7	10,691	10,400	676	1	61	20	18	6	3	18	73	31	8	96	0.91	108.6
RA	D	CR		100	25.0	237	178	12	33	67				100			26	6	23	0.60	7.9
RA	**Totals**			2	25.0	237	178	12	33	67				100			26	6	23	0.60	7.9
WH	D	2		38		236	236	15			100				100		32	15	280	1.87	.8
WH	D	3		42	3.2	260	252	16		100					13	87	37	9	110	0.90	2.3
WH	D	4		20		118	118	8		100			100				17	6	23	0.42	5.2
WH	**Totals**			5	1.4	614	606	39		61	39		19		45	36	24	8	73	0.82	8.3
SN	D	CU															43	52		0.00	3.2
SN	**Totals**																43	52		0.00	3.2
BM	D	CU			100.0	393											24	23		0.00	.7
BM	**Totals**				100.0	393											24	23		0.00	.7
Type Totals					6.3	11,935	11,184	727	2	61	21	16	7	4	19	70	30	14	87	0.85	128.7

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: EGONNER

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Date 5/12/2017
Time 10:37:35AM

T10S R07W S24 T00CC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
10S	07W	24	AREA2	00CC	16.00	16	43	1	W

T10S R07W S24 T00CC

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		D	CU		100.0	382											13	27		0.00	1.2
DF		D	2	62	.1	28,407	28,367	454			18	82	1		1	99	40	19	621	3.04	45.6
DF		D	3	16	1.1	7,367	7,289	117		51	30	20	1	6	17	76	36	10	160	1.19	45.5
DF		D	4	2		712	712	11		66	34		47	16	37		23	7	44	0.61	16.3
DF		D	3P	3		1,505	1,505	24				100				100	40	32	1897	8.66	.8
DF		D	S	17		7,548	7,548	121				100				100	40	24	1079	4.86	7.0
DF	**Totals**			99	1.1	45,921	45,422	727		9	17	74	1	1	4	94	36	14	390	2.25	116.4
RA		D	CR	100		289	289	5		100						100	40	8	102	1.01	2.8
RA	**Totals**			1		289	289	5		100						100	40	8	102	1.01	2.8
Type Totals					1.1	46,210	45,711	731		10	17	74	1	1	4	94	36	14	383	2.21	119.2

TC TSTNDSUM

Stand Table Summary

Project EGONNER

T10S R07W S24 T00CC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
10S	07W	24	AREA1	00CC	65.00	32	56

T10S R07W S24 T00CC

Date: 05/18/20

Time: 3:51:34PM

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
DF		11	1	83	50	2.949	1.95	2.95	12.0	30.0		35	88		23	6
DF		12	4	89	77	9.911	7.78	12.39	17.8	58.0		221	719		143	47
DF		14	6	88	78	11.059	11.68	18.48	18.9	60.7		350	1,121		227	73
DF		15	4	86	74	6.343	7.78	12.69	18.3	58.8		232	745		150	48
DF		16	5	88	84	6.968	9.73	13.94	23.4	82.0		326	1,143		212	74
DF		17	5	86	77	6.173	9.73	12.35	24.7	77.0		305	951		198	62
DF		18	5	87	72	5.506	9.73	9.91	28.6	80.0		283	793		184	52
DF		19	1	84	87	.988	1.95	1.98	33.0	95.0		65	188		42	12
DF		20	2	88	104	1.784	3.89	4.46	35.2	126.0		157	562		102	37
DF		21	3	89	105	2.427	5.84	6.47	36.8	133.8		238	866		155	56
DF		22	2	89	101	1.474	3.89	3.69	41.4	156.0		153	575		99	37
DF		24	1	90	98	.619	1.95	1.24	62.0	230.0		77	285		50	19
DF		26	2	88	116	1.056	3.89	2.64	64.6	262.0		170	691		111	45
DF		28	2	86	101	.910	3.89	1.82	82.0	312.5		149	569		97	37
DF		29	1	89	127	.424	1.95	1.27	72.7	323.3		92	412		60	27
DF		30	1	86	119	.396	1.95	.79	98.5	425.0		78	337		51	22
DF		31	1	83	122	.371	1.95	1.11	76.7	320.0		85	356		56	23
DF		Totals	46	87	81	59.359	89.51	108.16	27.9	96.2		3,016	10,400		1,961	676
WH		10	1	89	18	3.718	2.03	3.72	6.0	20.0		22	74		14	5
WH		16	1	89	85	1.452	2.03	2.90	24.5	90.0		71	261		46	17
WH		21	1	92	79	.843	2.03	1.69	42.0	160.0		71	270		46	18
WH		Totals	3	89	43	6.013	6.08	8.31	19.8	72.9		164	606		107	39
RA		11	1	86	36	5.926	3.91	5.93	11.0	20.0		65	119		42	8
RA		19	1	86	34	1.986	3.91	1.99	28.0	30.0		56	60		36	4
RA		Totals	2	86	35	7.912	7.82	7.91	15.3	22.5		121	178		79	12
BM		30	1	87	100	.354	1.74									
BM		Totals	1	87	100	.354	1.74									
SN		14	1	86	80	1.219	1.30									
SN		15	1	86	67	1.062	1.30									
SN		16	2	86	66	1.867	2.61									
SN		Totals	4	86	70	4.149	5.21									
Totals			56	87	73	77.787	110.37	124.39	26.5	89.9		3302	11,184		2,146	727

TC TSTNDSUM

Stand Table Summary

Project EGONNER

T10S R07W S24 T00CC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
10S	07W	24	AREA2	00CC	16.00	16	43

Date: 05/12/20
Time: 10:37:35AM

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
DF		16	1	91	85	3.133	4.38	6.27	24.5	90.0		154	564		25	9
DF		17	1	90	97	2.776	4.38	5.55	31.0	115.0		172	638		28	10
DF		18	1	90	112	2.476	4.38	4.95	38.0	135.0		188	668		30	11
DF		19	1	90	116	2.222	4.38	6.67	30.0	116.7		200	778		32	12
DF		20	3	90	114	6.432	14.03	14.87	39.1	150.3		582	2,235		93	36
DF		22	1	90	112	1.657	4.38	4.97	40.0	170.0		199	845		32	14
DF		25	1	90	132	1.283	4.38	3.85	59.0	256.7		227	988		36	16
DF		26	3	89	136	3.560	13.13	10.68	64.1	280.0		685	2,990		110	48
DF		28	2	88	138	2.046	8.75	6.14	75.3	353.3		462	2,169		74	35
DF		30	2	86	140	1.783	8.75	5.35	86.0	395.0		460	2,112		74	34
DF		31	2	86	146	1.669	8.75	5.01	94.3	440.0		472	2,204		76	35
DF		32	2	88	152	1.567	8.75	4.70	104.5	505.0		491	2,374		79	38
DF		33	2	85	154	1.780	10.58	5.34	94.9	483.0		507	2,580		81	41
DF		34	2	87	155	1.388	8.75	4.16	101.2	530.0		421	2,207		67	35
DF		35	2	87	145	1.310	8.75	3.93	120.8	618.3		475	2,429		76	39
DF		36	2	87	158	1.418	10.02	4.25	123.7	674.7		526	2,871		84	46
DF		38	2	86	155	1.111	8.75	3.33	148.2	766.7		494	2,555		79	41
DF		39	1	87	165	.527	4.38	1.58	161.0	863.3		255	1,366		41	22
DF		40	3	85	159	1.504	13.13	4.51	159.4	823.3		719	3,715		115	59
DF		44	3	86	174	1.243	13.13	4.56	181.3	1011.8		826	4,611		132	74
DF		46	3	85	174	1.137	13.13	4.55	179.0	994.2		814	4,522		130	72
DF		Totals	40	88	130	42.023	179.01	115.22	81.0	394.2		9,330	45,422		1,493	727
RA		19	1	86	56	1.678	3.30	1.68	32.0	70.0		54	117		9	2
RA		23	1	87	62	1.145	3.30	1.14	53.0	150.0		61	172		10	3
RA		Totals	2	86	58	2.822	6.61	2.82	40.5	102.4		114	289		18	5
SN		35	1	98	35	.382	2.55									
SN		Totals	1	98	35	.382	2.55									
Totals			43	88	125	45.227	188.16	118.05	80.0	387.2		9444	45,711		1,511	731

TC PSTATS

PROJECT STATISTICS

PROJECT EGONNER

PAGE 1
DATE 5/18/2017

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	07	24	AREA1	00CC	81.00	48	200	1	W
10S	07W	24	AREA2	00CC					

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	48	200	4.2		
CRUISE	27	99	3.7	5,780	1.7
DBH COUNT					
REFOREST					
COUNT	21	95	4.5		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF	86	55.9	18.7	65	24.8	107.2	17,650	17,318	4,275	4,264
R ALDER	4	6.9	14.2	28	2.0	7.6	248	200	120	120
SNAG	5	3.4	15.9	41	1.2	4.7				
WHEMLOC	3	4.8	13.6	35	1.3	4.9	493	486	132	132
BL MAPLE	1	.3	30.0	50	0.3	1.4	315		53	
TOTAL	*99*	*71.4*	*18.0*	*59*	*29.7*	*125.7*	*18,705*	*18,004*	*4,580*	*4,515*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	115.8	12.5	812	928	1,044			
R ALDER	87.5	50.0	34	68	101			
SNAG								
WHEMLOC	86.6	59.9	69	173	277			
BL MAPLE								
TOTAL	*128.3*	*12.9*	*709*	*814*	*919*	*657*	*164*	*73*

CL 68.1	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	77.1	11.1	50	56	62			
R ALDER	334.1	48.2	4	7	10			
SNAG	262.3	37.8	2	3	5			
WHEMLOC	489.8	70.6	1	5	8			
BL MAPLE	484.7	69.9	0	0	0			
TOTAL	*72.4*	*10.4*	*64*	*71*	*79*	*210*	*52*	*23*

CL 68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	46.1	6.7	100	107	114			
R ALDER	304.1	43.8	4	8	11			
SNAG	246.0	35.5	3	5	6			
WHEMLOC	489.8	70.6	1	5	8			
BL MAPLE	484.7	69.9	0	1	2			
TOTAL	*38.0*	*5.5*	*119*	*126*	*133*	*58*	*14*	*6*

CL 68.1	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	59.9	8.6	15,822	17,318	18,814			
R ALDER	286.7	41.3	117	200	283			
SNAG								
WHEMLOC	489.8	70.6	143	486	829			
BL MAPLE								
TOTAL	*54.7*	*7.9*	*16,583*	*18,004*	*19,426*	*120*	*30*	*13*

STATISTICS

PROJECT EGONNER

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	07W	24	AREA1	00CC	65.00	32	127	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	32	127	4.0		
CRUISE	17	56	3.3	5,056	1.1
DBH COUNT					
REFOREST					
COUNT	15	68	4.5		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF	46	59.4	16.6	59	22.0	89.5	10,691	10,400	3,016	3,016
R ALDER	2	7.9	13.5	26	2.1	7.8	237	178	121	121
WHEMLOC	3	6.0	13.6	35	1.6	6.1	614	606	164	164
SNAG	4	4.1	15.2	41	1.3	5.2				
BL MAPLE	1	.4	30.0	50	0.3	1.7	393		66	
TOTAL	*56*	*77.8*	*16.1*	*53*	*27.5*	*110.4*	*11,935*	*11,184*	*3,367*	*3,302*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL: 68.1 %	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	92.3	13.6	229	265	301			
R ALDER	28.3	26.5	18	25	32			
WHEMLOC	86.6	59.9	69	173	277			
SNAG								
BL MAPLE								
TOTAL	*105.0*	*14.0*	*196*	*228*	*260*	*441*	*110*	*49*

CL: 68.1 %	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	61.8	10.9	53	59	66			
R ALDER	292.4	51.6	4	8	12			
WHEMLOC	397.8	70.3	2	6	10			
SNAG	212.6	37.6	3	4	6			
BL MAPLE	393.5	69.5	0	0	1			
TOTAL	*52.5*	*9.3*	*71*	*78*	*85*	*110*	*28*	*12*

CL: 68.1 %	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	50.4	8.9	82	90	97			
R ALDER	288.9	51.0	4	8	12			
WHEMLOC	397.8	70.3	2	6	10			
SNAG	211.5	37.4	3	5	7			
BL MAPLE	393.5	69.5	1	2	3			
TOTAL	*40.7*	*7.2*	*102*	*110*	*118*	*66*	*17*	*7*

CL: 68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	52.7	9.3	9,432	10,400	11,369			
R ALDER	290.5	51.3	87	178	269			
WHEMLOC	397.8	70.3	180	606	1,031			
SNAG								
BL MAPLE								
TOTAL	*46.9*	*8.3*	*10,258*	*11,184*	*12,110*	*88*	*22*	*10*

TC TSTATS

STATISTICS

PROJECT EGONNER

DATE 5/12/2017

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	07W	24	AREA2	00CC	16.00	16	73	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	16	73	4.6		
CRUISE	10	43	4.3	724	5.9
DBH COUNT					
REFOREST					
COUNT	6	27	4.5		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF	40	42.0	27.9	103	33.9	179.0	45,921	45,422	9,390	9,330
R ALDER	2	2.8	20.7	43	1.5	6.6	289	289	114	114
SNAG	1	.4	35.0	35	0.4	2.6				
TOTAL	*43*	*45.2*	*27.6*	*99*	*35.8*	*188.2*	*46,210*	*45,711*	*9,504*	*9,444*

CONFIDENCE LIMITS OF THE SAMPLE

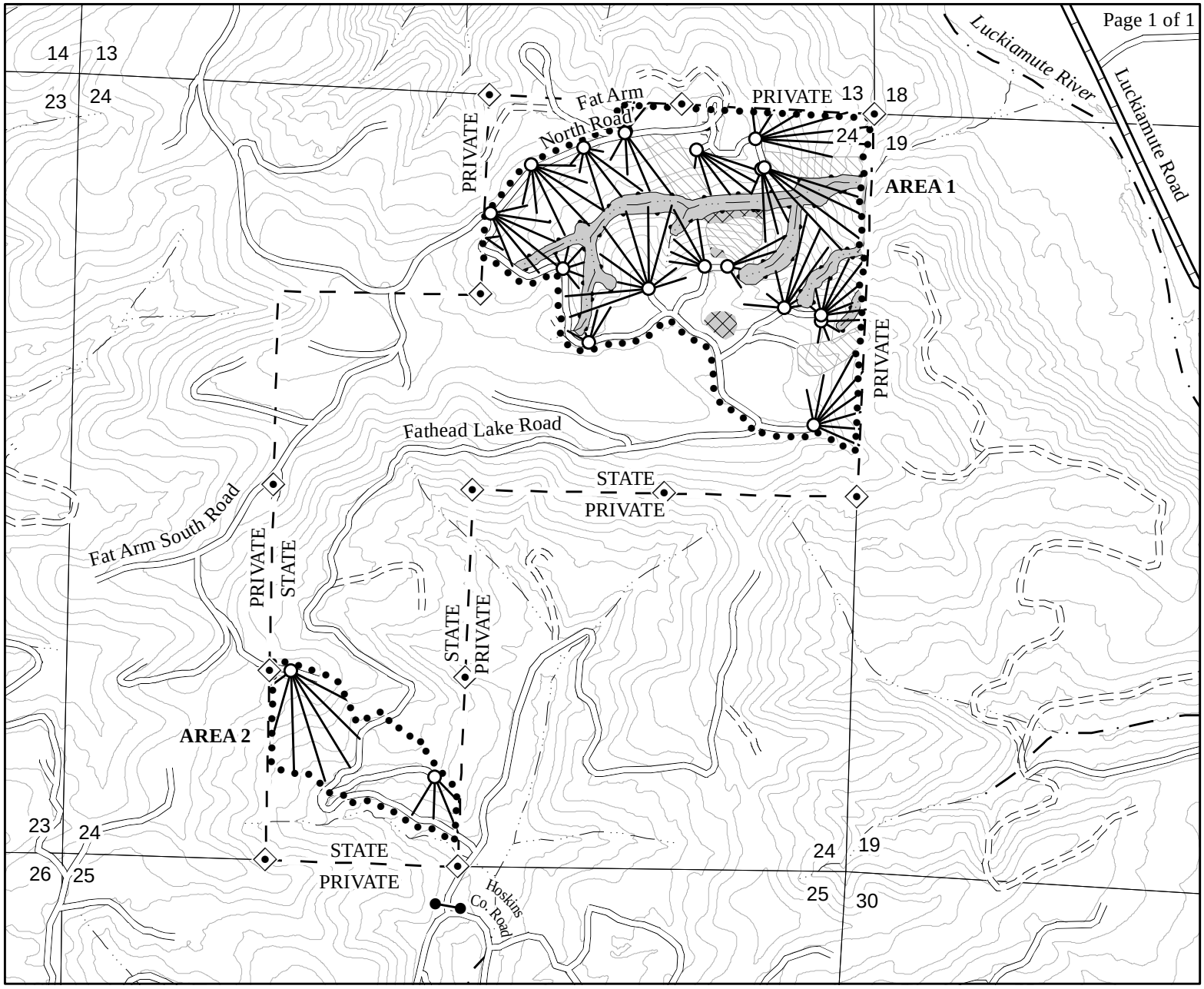
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL: 68.1 %	COEFF		**SAMPLE TREES - BF**			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	68.3	10.8	1,508	1,691	1,873			
R ALDER	51.4	48.2	57	110	163			
SNAG								
TOTAL	*75.4*	*11.5*	*1,397*	*1,578*	*1,759*	*227*	*57*	*25*

CL: 68.1 %	COEFF		**TREES/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	65.2	16.8	35	42	49			
R ALDER	278.8	71.9	1	3	5			
SNAG	400.0	103.2		0	1			
TOTAL	*52.2*	*13.5*	*39*	*45*	*51*	*116*	*29*	*13*

CL: 68.1 %	COEFF		**BASAL AREA/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	37.4	9.6	162	179	196			
R ALDER	273.3	70.5	2	7	11			
SNAG	400.0	103.2		3	5			
TOTAL	*25.1*	*6.5*	*176*	*188*	*200*	*27*	*7*	*3*

CL: 68.1 %	COEFF		**NET BF/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	37.1	9.6	41,075	45,422	49,768			
R ALDER	278.7	71.9	81	289	497			
SNAG								
TOTAL	*35.0*	*9.0*	*41,579*	*45,711*	*49,843*	*52*	*13*	*6*



Legend

Boundaries
- Timber Sale Boundary
- State Forest Property Boundary
- Right of Way (Posted)

Roads
- Paved
- Surfaced Road
- Unsurfaced Road
- New Construction

Streams
- Type F Stream
- Type N Stream
- Posted Stream Buffer
- Stream Buffer
- Reforestation Area
- Cable Corridors
- Land Survey Monument
- Gates
- Green Tree Retention Area

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-18-034
EASTER GONNER
PORTIONS OF SECTION 24, T10S, R7W, W.M.,
BENTON COUNTY, OREGON

AREA	NET ACRES TRACTOR	NET ACRES CABLE
1 (MC)	7	9
2 (MC)	22	43
TOTAL	29	52

Scale

1:12,000

1,000 0 1,000 2,000 Feet

N

Created By: Blake McKinley
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