



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Mega Lou Mania
Sale FG-341-2018-27-

District: Forest Grove

Date: June 01, 2017

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,391,160.19	\$0.00	\$2,391,160.19
		Project Work:	(\$245,815.00)
		Advertised Value:	\$2,145,345.19



"SUSTAINABILITY IN FORESTRY"

Timber Sale Appraisal
Mega Lou Mania
Sale FG-341-2018-27-

District: Forest Grove

Date: June 01, 2017

Timber Description

Location: Portions of Sections 16 and 17, T3N, R5W, W.M., Washington County, Oregon.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	98
Grand Fir	20	0	96

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	3,504	1,296	119	4,919
Grand Fir	67	90	6	163
Total	3,571	1,386	125	5,082

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

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$1,232.80/\text{MBF} = \$1,423.88/\text{MBF} - \$191.08/\text{MBF}$

Red alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
 $\$461.17/\text{MBF} = \$652.25/\text{MBF} - \$191.08/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added):

Intermediate Supports/Tail Rigging: 10 @ \$200 each = \$2,000

Non-Project Road: 21 stations @ \$200/Sta. = \$4,200

TOTAL Other Costs (with Profit & Risk to be added) = \$6,200

Other Costs (No Profit & Risk added):

Block/Waterbar Roads/Skid Trails: 5 hrs x \$150/hour = \$750

Pile Landing Slash: 20 hrs x \$150/hour = \$3,000

Mechanical Site-Prep: 40 acres @ \$150/acre = \$6,000

Equipment Cleaning: 3 pieces x \$1,000/piece = \$3,000

TOTAL Other Costs (No Profit & Risk added) = \$12,750

ROAD MAINTENANCE

Move-in: \$4,000

General Road Maintenance: 4.2 miles x \$1,200/mile = \$5,040

TOTAL Road Maintenance: \$9,040/5,082 MBF = \$1.78/MBF



"PROGRESS THROUGH FORESTRY"

Timber Sale Appraisal
 Mega Lou Mania
 Sale FG-341-2018-27-

District: Forest Grove

Date: June 01, 2017

Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$245,815.00	Other Costs (P/R): \$6,200.00
Slash Disposal: \$0.00	Other Costs: \$12,750.00

Miles of Road

Road Maintenance: \$1.78

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	5.0
Grand Fir	\$0.00	2.0	4.8



"STRENGTH AND INTEGRITY IN FORESTRY"

Timber Sale Appraisal
 Mega Lou Mania
 Sale FG-341-2018-27-

District: Forest Grove

Date: June 01, 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									
\$81.60	\$1.82	\$0.86	\$79.56	\$1.22	\$16.51	\$0.00	\$7.00	\$2.51	\$191.08
Grand Fir									
\$64.47	\$1.85	\$0.86	\$84.50	\$1.22	\$15.29	\$0.00	\$7.00	\$2.51	\$177.70

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$665.21	\$474.13	\$0.00
Grand Fir	\$0.00	\$539.14	\$361.44	\$0.00



Timber Sale Appraisal
Mega Lou Mania
Sale FG-341-2018-27-

District: Forest Grove

Date: June 01, 2017

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Grand Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	4,919	\$474.13	\$2,332,245.47
Grand Fir	163	\$361.44	\$58,914.72

Gross Timber Sale Value

Recovery: \$2,391,160.19

Prepared By: Eric Foucht

Phone: 503-359-7473

TIMBER SALE SUMMARY
Mega Lou Mania
Contract No. 341-18-27

1. **Location:** Portions of Sections 16 & 17, T3N, R5W, W.M., Washington County, Oregon.
2. **Type of Sale:** This timber sale is 117 net acres of Modified Clearcut in two Timber Sale Areas and one acre of new construction Right of Way. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF, Washington County.
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise:** The Timber Sale was cruised by ODF Cruisers in March of 2017. For more information see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of two well-stocked 80 year old Douglas-fir. Area 1 has an average of 226 ft² of basal area (all species), an average Douglas-fir DBH of 21 inches, and an estimated average net Douglas-fir volume of approximately 49.6 MBF per acre. Area 2 has an average of 145 ft² of basal area (all species), an average Douglas-fir DBH of 27 inches, and an estimated average net Douglas-fir volume of approximately 31 MBF per acre.
7. **Topography and Logging Method:** Slopes within the sale areas range from 10% to 60%. Slopes in Cable yarding areas exceed 35% and average about 55%. Slopes in Tractor yarding areas are generally less than 35% and average around 20%. The aspect is generally north. Area 1 is 64% ground-based yarding and Area 2 is 100% ground based yarding. For the cable yarding area in Area 1, the average cable corridor length is 490' and the maximum length is 1000'. The average horizontal tractor skid trail length in Area 1 is approximately 350' and the maximum is approximately 845'. For Area 2, the average ground yarding horizontal skid trail length is around 500' and the maximum is approximately 750'
8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, travel north on Highway 47 through Banks then merge onto Highway 26 westbound and continue for approximately 11½ miles to the Timber Road. Turn left and proceed south on the Timber Road ¾ miles to the Lousignont Road. Turn right onto Lousignont Road and proceed west 2¼ miles to a spur on the left. Turn left and continue ¼ mile to the west side of Area 1.

9. Projects:

Project No. 1: Road Construction and Improvement	\$17,810.06
Project No. 2: Road Surfacing	\$145,285.94
Project No. 3: Grass Seed, Fertilize, and Mulch	\$321.25
Project No. 4: Crush Rock and Construct 5000 CY Stockpile	\$76,956.00
Move in and equipment cleaning:	\$5,441.75

Total Credit for all Projects (rounded) \$245,815.00

PROJECT COST SUMMARY SHEET

Timber Sale: Mega Lou Mania
Sale Number: 341-18-27

PROJECT NO. 1: ROAD CONSTRUCTION AND IMPROVEMENT

CONSTRUCTION

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
A to B	9+50	\$3,530.48
C to D	2+00	\$756.92
J	-	\$895.00
K to L	1+50	\$337.58

11+50 stations
0.22 miles

SUBTOTAL CONSTRUCTION = \$5,519.98

IMPROVEMENTS

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
E to A	51+78	\$4,454.08
F to G	59+30	\$4,264.80
H to I	86+70	\$3,571.20

197+78 stations
3.75 miles

SUBTOTAL IMPROVEMENTS = \$12,290.08

TOTAL PROJECT NO. 1 COST = \$17,810.06

PROJECT NO. 2: SURFACING

<u>Road Segment</u>	<u>Rock Amount</u>	<u>Rock Type</u>	<u>Cost</u>
A to B	713 cy	3" - 0	\$12,377.68
A to B	10 cy	1 1/2" - 0	\$166.40
C to D	235 cy	3" - 0	\$4,171.25
E to A	2415 cy	3" - 0	\$42,866.25
E to A	60 cy	1 1/2" - 0	\$1,021.80
F to G	2783 cy	3" - 0	\$48,897.31
F to G	60 cy	1 1/2" - 0	\$1,011.00
H to I	1874 cy	1 1/2" - 0	\$32,251.54
J	36 cy	3" - 0	\$615.24
J	20 cy	1 1/2" - 0	\$327.40
K to L	63 cy	3" - 0	\$1,070.37
K to L	30 cy	1 1/2" - 0	\$509.70
Total	2054 cy	1 1/2" - 0	
	6245 cy	3" - 0	

TOTAL PROJECT NO. 2 COST = \$145,285.94

PROJECT NO. 3 GRASS SEED, FERTILIZE, & MULCH

TOTAL PROJECT NO. 3 COST = \$321.25

PROJECT NO. 4: CRUSH AND CONSTRUCT 5,000CY STOCKPILE

5,000 CY 3"-0 Stockpile Measurement

TOTAL PROJECT NO. 4 COST = \$76,956.00

MOVE-IN & EQUIPMENT CLEANING

Grader	\$665.59
Roller (smooth/grid) & Compactor	\$429.19
Excavator - Equipment Cleaning	\$1,665.59
Dozer - Equipment Cleaning	\$1,710.17
Dump Trucks	\$848.82
Water Truck	\$122.39

TOTAL MOVE-IN & EQUIPMENT CLEANING COST = \$5,441.75

TOTAL CREDITS \$245,815.00

SUMMARY OF CONSTRUCTION COST

Timber Sale:	<u>Mega Lou Mania</u>	Sale Number:	<u>341-18-27</u>
Road Segment:	<u>C to D</u>	Construction:	<u>2+00</u> stations <u>0.04</u> miles

PROJECT NO. 1

EXCAVATION

Clearing & grubbing (scatter)	0.14	ac @	\$1,078.00	per acre =	\$150.92
Balanced road construction	2.00	sta @	\$110.00	per sta =	\$220.00
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	2.00	sta @	\$36.00	per sta =	\$72.00
				TOTAL EXCAVATION COSTS =	\$756.92
				PROJECT NO. 1 TOTAL COST =	\$756.92

PROJECT NO. 2:

SURFACING	12	" deep =	65 cy/sta		
C to D	130	cy of	3" - 0	@	\$17.75 per cy = \$2,307.50
Junction	10	cy of	3" - 0	@	\$17.75 per cy = \$177.50
Landing	95	cy of	3" - 0	@	\$17.75 per cy = \$1,686.25
Rock Total =	235				
	235	cy of	3" - 0		\$17.75 per cy = \$4,171.25
				PROJECT NO. 2 TOTAL COST =	\$4,171.25

PROJECT NO. 3:

Grass seed & fertilizer	0.07	acres	@	\$425.00	per acre = \$29.75
				PROJECT NO. 3 TOTAL COST =	\$29.75

TOTAL COST = \$4,957.92

SUMMARY OF CONSTRUCTION COST

Timber Sale:	<u>Mega Lou Mania</u>	Sale Number:	<u>341-18-27</u>
Road Segment:	<u>H to I</u>	Improvement:	<u>86+70</u> stations
			<u>1.64</u> miles

PROJECT NO. 1

EXCAVATION

Clean culvert inlet & outlet	18	ea @	\$25.00	per ea =	\$450.00
Grade, ditch, & roll	86.70	sta @	\$36.00	per sta =	\$3,121.20
				TOTAL EXCAVATION COSTS =	\$3,571.20
				PROJECT NO. 1 TOTAL COST =	\$3,571.20

PROJECT NO. 2:

SURFACING

	4	" deep =	20 cy/sta			
H to I	1,734	cy of	1 1/2" - 0	@	\$17.21	per cy = \$29,842.14
Turnouts (12)	120	cy of	1 1/2" - 0	@	\$17.21	per cy = \$2,065.20
Junction	20	cy of	1 1/2" - 0	@	\$17.21	per cy = \$344.20
Rock Total =	1,874					
	1,874	cy of	1 1/2" - 0		\$17.21	per cy = \$32,251.54
					PROJECT NO. 2 TOTAL COST =	\$32,251.54

TOTAL COST = \$35,822.74

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mega Lou Mania
 Road Segment: K to L

Sale Number: 341-18-27
 Construction: 1+50 stations
0.03 miles

PROJECT NO. 1

EXCAVATION

Clearing & grubbing (scatter)	0.11	ac @	\$1,078.00	per acre =	\$118.58
Construct "Y" Junction	1.50	sta @	\$110.00	per sta =	\$165.00
Grade, ditch, & roll	1.50	sta @	\$36.00	per sta =	\$54.00
				TOTAL EXCAVATION COSTS =	\$337.58

PROJECT NO. 1 TOTAL COST = \$337.58

PROJECT NO. 2:

SURFACING	8	" deep =	42 cy/sta			
	4	" deep =	20 cy/sta			
Base rock	63	cy of	3" - 0	@	\$16.99	per cy = \$1,070.37
Surfacing rock	30	cy of	1 1/2" - 0	@	\$16.99	per cy = \$509.70
Rock Total =	93					
	30	cy of	1 1/2" - 0		\$16.99	per cy = \$509.70
	63	cy of	3" - 0		\$16.99	per cy = \$1,070.37
						PROJECT NO. 2 TOTAL COST = \$1,580.07

PROJECT NO. 3:

Grass seed & fertilizer	0.08	acres	@	\$425.00	per acre =	\$34.00
						PROJECT NO. 3 TOTAL COST = \$34.00

TOTAL COST = \$1,951.65

SUMMARY OF CONSTRUCTION COST

Timber Sale: Mega Lou Mania

Sale Number: 341-18-27

PROJECT NO. 4

Crush 5,000 cy	5800	cy of	1 1/2" - 0	@	\$12.32	per cy =	<u>\$71,456.00</u>
Build & shape stockpile	5000	cy of	1 1/2" - 0	@	\$1.10	per cy =	<u>\$5,500.00</u>

PROJECT NO. 4 TOTAL COST = \$76,956.00

ROCK PIT DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Mega Lou Mania
 Sale Number: 341-18-27
 Pit Name: Camp 5 Pit

1 1/2" - 0: 2,054 cy (truck measure)
 3" - 0: 6,245 cy (truck measure)
 Stockpile: 5,000 cy (stockpile measure)
 Total truck yardage: 14,099 cy
 Total in place yardage: 10,845 cy

Swell: 130%
 Shrinkage: 116%
 Screening Loss: 15%

Pit development, including clearing & grubbing of waste area, place overburden in waste area, spread & compact.				\$8,337.93
Drill & shoot	\$2.80	/ cy x	12,759 cy =	\$35,725.97
Load crusher	\$0.80	/ cy x	16,587 cy =	\$13,269.65
Screen rock	\$2.90	/ cy x	16,587 cy =	\$48,102.47
Load, haul, & waste reject	\$0.80	/ cy x	2,488 cy =	\$1,990.45
Crush (1 1/2" - 0)	\$3.30	/ cy x	2,054 cy =	\$6,778.20
Crush (3" - 0)	\$3.30	/ cy x	6,245 cy =	\$20,608.50
Crush (Stockpile)	\$3.30	/ cy x	5,800 cy =	\$19,140.00
Load dump truck	\$0.80	/ cy x	8,299 cy =	\$6,639.20
Subtotal:				\$160,592.37

Move in & setup drill	\$382.10	
Equipment cleaning & move in excavator	\$1,713.44	
Equipment cleaning & move in dozer	\$1,715.62	
Setup screening plant	\$435.00	
Move in loader	\$642.13	
Move in crusher	\$3,286.00	
Setup crusher	\$3,327.00	
Gradation tests	\$71.50 /2,000cy x <u>8</u> tests \$572.00	
Change gradation	\$275.00	
Clean up pit	\$700.00	
Subtotal:		\$13,048.29

TOTAL PRODUCTION COST = \$173,640.66

ROCK DEVELOPMENT COST = \$12.32/cy

CRUISE REPORT
Mega Lou Mania
341-18-27

1. LOCATION: Portions of Sections 16 & 17, T3N, R5W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately # inches and its Coefficient of Variation is about 50%. For sales of this size and approximate value, ODF cruise standards require a Sampling Error of 10% at a 68% confidence level, and a minimum sample size of 100 graded trees. The cruise design chosen for this sale is a variable radius sample plot using a 40 BAF prism.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in March of 2017. The cruise employed variable radius plots using a 40 BAF prism. 17 plots were installed in Area 1 and 8 plots were installed in Area 2. Plots were laid out on a 5 chain x 6 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain. All plot trees were measured and graded.

4. CRUISE RESULTS

A total of 125 trees were sampled producing a cumulative Sampling Error of 8.4% on the Basal Area and 9.1% 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. Bole heights were calculated to a top cruise DIB of six inches or 25% of DBH, whichever was greater.

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

c) **Form Factors** were 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:** Two 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 Mark Savage and Kenton Burns.

Prepared by:




ODF Forester

4/24/2017

Date

Reviewed by:



Eric Foucht

4/29/2017

Date

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT MEGAFIN							DATE	3/29/2017	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
03N	05	16	00A1	00MC		117.00	25	125	S	W	
03N	05W	16	00A2	00MC							
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			25	125	5.0						
CRUISE			25	125	5.0	8,748	1.4				
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-T			118	67.9	22.2	143	38.8	183.1	43,209	42,609	9,086
GR FIR-L			3	2.7	19.5	149	1.3	5.6	1,424	1,424	304
WR CEDAR-L			3	3.6	15.7	63	1.2	4.8	410	410	131
WHEMLOCK-L			1	.6	24.0	141	0.4	1.9	431	431	95
TOTAL			125	74.8	21.9	139	41.8	195.5	45,475	44,874	9,616
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR-T			49.8	4.6	761	798	835				
GR FIR-L			40.5	28.0	427	593	759				
WR CEDAR-L			70.2	48.6	74	143	213				
WHEMLOCK-L											
TOTAL			51.7	4.6	740	776	812	107	27	12	
CL	68.1	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR-T			44.3	4.1	161	168	175				
GR FIR-L			39.3	27.2	92	126	161				
WR CEDAR-L			75.7	52.4	22	46	70				
WHEMLOCK-L											
TOTAL			46.0	4.1	157	164	170	84	21	9	
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR-T			58.7	12.0	60	68	76				
GR FIR-L			294.8	60.1	1	3	4				
WR CEDAR-L			300.8	61.3	1	4	6				
WHEMLOCK-L			500.0	102.0	1	1					
TOTAL			56.1	11.4	66	75	83	131	33	15	
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR-T			41.0	8.4	168	183	198				
GR FIR-L			276.4	56.4	2	6	9				
WR CEDAR-L			278.7	56.8	2	5	8				
WHEMLOCK-L			500.0	102.0	2	4					
TOTAL			36.8	7.5	181	195	210	56	14	6	
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR-T			44.7	9.1	38,724	42,609	46,494				
GR FIR-L			277.1	56.5	620	1,424	2,229				
WR CEDAR-L			291.6	59.5	166	410	654				
WHEMLOCK-L			500.0	102.0		431	870				

PROJECT STATISTICS
PROJECT MEGAFIN

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
03N	05	16	00A1	00MC	117.00	25	125	S	W
03N	05W	16	00A2	00MC					
CL	68.1		COEFF		NET BF/ACRE			# OF PLOTS REQ.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10
TOTAL			41.4	8.4	41,084	44,874	48,664	71	18
CL	68.1		COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.	
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10
DOUG FIR-T			42.3	8.6	8,300	9,084	9,867		
GR FIR-L			276.9	56.5	132	304	476		
WR CEDAR-L			296.5	60.5	52	131	210		
WHEMLOCK-L			500.0	102.0		95	193		
TOTAL			38.4	7.8	8,862	9,614	10,366	61	15

T03N R05W S16 T00MC		T03N R05W S16 T00MC
Twp 03N Rge 05W Sec 16 Tract 00A1 Type 00MC Acres 73.00 Plots 17 Sample Trees 96 CuFt S BdFt W		

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
								Log Scale Dia.				Log Length				Ln Dia	Bd	CF/			
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft		Lf	
DF	T	CU														6	14		0.00	6.5	
DF	T	2M	68	1.7	34,597	34,008	2,483			56	44			2	2	96	40	15	367	1.91	92.8
DF	T	3M	29	.4	14,393	14,340	1,047		85	12	3			1	4	6	38	9	114	0.71	125.4
DF	T	4M	3		1,239	1,239	90		96	4				50	45	5	18	6	22	0.34	55.5
DF	T	Totals	99	1.3	50,229	49,588	3,620		27	42	31			1	3	3	34	11	177	1.13	280.2
RC	L	3M	52		179	179	13		100						100		32	10	120	1.06	1.5
RC	L	4M	48		165	165	12		100					9	91		25	6	37	0.47	4.5
RC	L	Totals	1		344	344	25		100					4	96		27	7	57	0.65	6.0
Type	Totals			1.3	50,573	49,931	3,645		28	42	31			1	3	4	34	10	174	1.12	286.2

Log Stock Table - MBF
Project: MEGAFIN

T03N R05W S16 T00MC

T03N R05W S16 T00M

Twp Rge Sec Tract Type Acres Plots Sample Trees
03N 05W 16 00A1 00MC 73.00 17 96

Page 1
Date 3/29/2017
Time 3:32:58PM

S Spp	So T	Gr rt	Log de	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	T		CU	4																		
DF	T		CU	10																		
DF	T		CU	12																		
DF	T		2M	22	13		13	.3									13					
DF	T		2M	23	17	5.0	16	.5										16				
DF	T		2M	30	21	22.2	16	.5									16					
DF	T		2M	32	39	7.2	36	1.0									36					
DF	T		2M	34	25	2.5	24	.7										24				
DF	T		2M	40	2,411	1.4	2,377	65.7					466	499	1033		379					
DF	T		3M	14	8		8	.2					8									
DF	T		3M	26	11		11	.3						11								
DF	T		3M	28	10		10	.3														
DF	T		3M	30	18		18	.5				6	3									
DF	T		3M	32	36		36	1.0				2	12	3								
DF	T		3M	34	22		22	.6				22										
DF	T		3M	36	50		50	1.4				33	13	5								
DF	T		3M	38	32		32	.9				23	9									
DF	T		3M	40	864	.4	860	23.8				78	198	442	71	43		28				
DF	T		4M	12	17		17	.5			17											
DF	T		4M	14	1		1	.0			1											
DF	T		4M	16	11		11	.3			8			3								
DF	T		4M	18	11		11	.3			11											
DF	T		4M	20	6		6	.2			6											
DF	T		4M	22	12		12	.3			11	1										
DF	T		4M	24	2		2	.1			2											
DF	T		4M	26	5		5	.1			5											
DF	T		4M	28	9		9	.2			9											
DF	T		4M	29	3		3	.1			3											
DF	T		4M	30	10		10	.3			10											
DF	T		4M	34	4		4	.1			4											
DF			Totals		3,667	1.3	3,620	99.3			264	255	461	540	553	1099	447					
RC	L		3M	32	13		13	52.1					13									
RC	L		4M	12	1		1	4.3			1											
RC	L		4M	32	11		11	43.6			11											
RC			Totals		25		25	.7			12		13									
Total All Species					3,692	1.3	3,645	100.0			276	255	474	540	553	1099	447					

Stand Table Summary																
TC TSTNDSUM																
Project MEGAFIN																
T03N R05W S16 T00MC											T03N R05W S16 T00MC					
Twp Rge Sec Tract				Type		Acres		Plots		Sample Trees		Page: 1				
03N 05W 16 00A1				00MC		73.00		17		96		Date: 03/29/20				
											Time: 3:32:56PM					
Spc	S	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/Acre	BA/Acre	Logs/Acre	Average Log		Net Tons/Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF	T	10	1	90	110	4.314	2.35	8.63	8.5	40.0	2.09	73	345	152	53	25
DF	T	12	1	92	130	2.996	2.35	5.99	15.5	75.0	2.65	93	449	194	68	33
DF	T	13	1	84	124	2.553	2.35	5.11	14.5	70.0	2.10	74	357	154	54	26
DF	T	14	1	88	117	2.201	2.35	6.60	12.4	53.3	2.34	82	352	171	60	26
DF	T	15	1	85	123	1.917	2.35	3.83	25.1	105.0	2.75	96	403	201	70	29
DF	T	16	3	89	121	5.056	7.06	13.48	21.3	93.7	8.18	287	1,264	597	209	92
DF	T	17	2	89	137	2.985	4.71	8.96	23.5	106.7	6.00	210	955	438	154	70
DF	T	18	8	87	135	10.652	18.82	30.62	28.2	120.9	24.63	864	3,702	1,798	631	270
DF	T	19	4	88	144	4.780	9.41	14.34	31.9	144.2	13.05	458	2,067	952	334	151
DF	T	20	7	87	140	7.550	16.47	22.65	32.9	145.7	21.27	746	3,300	1,552	545	241
DF	T	21	4	87	140	3.913	9.41	10.76	39.1	180.0	11.98	420	1,937	874	307	141
DF	T	22	11	87	142	9.805	25.88	29.41	43.1	196.4	36.14	1,268	5,776	2,638	926	422
DF	T	23	5	86	143	4.078	11.76	13.05	43.2	194.4	16.06	564	2,536	1,173	411	185
DF	T	24	10	86	145	7.490	23.53	25.46	45.3	200.6	32.89	1,154	5,108	2,401	843	373
DF	T	25	4	86	150	2.761	9.41	9.66	49.5	227.9	13.62	478	2,202	994	349	161
DF	T	26	6	86	147	3.829	14.12	14.04	50.3	230.0	20.12	706	3,229	1,469	515	236
DF	T	27	5	86	159	2.959	11.76	12.43	50.2	251.4	17.78	624	3,125	1,298	455	228
DF	T	28	9	86	157	4.952	21.18	18.16	62.2	308.5	32.17	1,129	5,602	2,348	824	409
DF	T	29	5	86	163	2.565	11.76	9.75	65.1	324.2	18.10	635	3,160	1,321	463	231
DF	T	30	2	85	171	.959	4.71	3.83	69.7	350.0	7.62	267	1,342	556	195	98
DF	T	31	2	83	154	.898	4.71	3.59	65.3	325.0	6.78	234	1,167	495	171	85
DF	T	32	2	83	161	.843	4.71	3.37	73.2	358.7	7.03	247	1,209	513	180	88
DF		Totals	94	87	140	90.054	221.18	273.73	39.1	181.2	305.33	10,710	49,588	22,289	7,818	3,620
RC	L	12	1	80	52	2.996	2.35	3.00	15.7	50.0	1.11	47	150	81	34	11
RC	L	17	1	80	61	1.493	2.35	2.99	19.2	65.0	1.35	57	194	98	42	14
RC		Totals	2	80	55	4.489	4.71	5.98	17.5	57.5	2.45	104	344	179	76	25
Totals			96	87	136	94.542	225.88	279.71	38.7	178.5	307.78	10814	49,931	22,468	7,894	3,645

T03N R05W S16 T00MC		T03N R05W S16 T00MC
Twp Rge Sec Tract	Type Acres Plots Sample Trees	CuFt BdFt
03N 05W 16 00A2	00MC 44.00 8 29	S W

Spp	Sort	Grade	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
				Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft		CF/ Lf
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF	T	2M	78	2.1	24,825	24,294	1,069			23	77		2	7	91	39	18	518	2.57	46.9
DF	T	3M	19		6,023	6,023	265		64	36			3	1	96	39	10	149	0.93	40.5
DF	T	4M	3		714	714	31		67	33		76	24		16	7	24	0.41	29.7	
DF	T	Totals	85	1.7	31,563	31,031	1,365	14	26	60	2	3	6	89	33	12	265	1.65	117.2	
GF	L	2M	41		1,555	1,555	68			49	51				100	40	16	429	2.12	3.6
GF	L	3M	55		2,089	2,089	92		28	72			5		95	38	10	145	0.85	14.4
GF	L	4M	4		144	144	6		100			25	75		18	6	20	0.27	7.2	
GF	L	Totals	10		3,787	3,787	167	19	60	21	1	6		93	33	10	150	0.98	25.3	
WH	L	2M	63		732	732	32			100					100	40	17	460	2.36	1.6
WH	L	3M	37		414	414	18		23	77					100	38	9	130	0.85	3.2
WH	L	Totals	3		1,146	1,146	50	8	28	64				100	39	12	240	1.37	4.8	
RC	L	3M	100		520	520	23		20	80				20	80	36	9	125	1.17	4.2
RC	L	Totals	1		520	520	23	20	80					20	80	36	9	125	1.17	4.2
Type	Totals			1.4	37,015	36,484	1,605	14	30	56	2	3	5	90	33	12	241	1.51	151.4	

Log Stock Table - MBF
Project: MEGAFIN

T03N R05W S16 T00MC

T03N R05W S16 T00M

Twp Rge Sec Tract
03N 05W 16 00A2

Type Acres Plots Sample Trees
00MC 44.00 8 29

Page 1
Date 3/29/2017
Time 3:34:16PM

S Spp	So T	Gr rt	Log de Len	Gross MBF	% Def	Net MBF	% Spe	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	T		2M 30	29	13.5	25	1.8										25		
DF	T		2M 33	20	3.0	19	1.4										19		
DF	T		2M 34	59	5.2	56	4.1										56		
DF	T		2M 40	984	1.6	969	70.9					7	114	544	233	69			
DF	T		3M 30	9		9	.6				9								
DF	T		3M 34	3		3	.2			3									
DF	T		3M 36	5		5	.3				5								
DF	T		3M 38	21		21	1.5			11	9								
DF	T		3M 40	228		228	16.7				42	91	41	55					
DF	T		4M 12	17		17	1.2			6						10			
DF	T		4M 14	1		1	.1			1									
DF	T		4M 16	4		4	.3			4									
DF	T		4M 18	1		1	.0			1									
DF	T		4M 20	2		2	.2			2									
DF	T		4M 22	1		1	.1				1								
DF	T		4M 24	1		1	.1			1									
DF	T		4M 28	5		5	.4			5									
DF			Totals	1,389	1.7	1,365	85.1			34	67	91	48	169	630	258	69		
GF	L		2M 40	68		68	41.1							68					
GF	L		3M 30	5		5	2.7			5									
GF	L		3M 36	7		7	4.0			7									
GF	L		3M 40	81		81	48.4			14		66							
GF	L		4M 12	2		2	1.0			2									
GF	L		4M 24	5		5	2.8			5									
GF			Totals	167		167	10.4			6	25	66		68					
WH	L		2M 40	32		32	63.9							32					
WH	L		3M 36	4		4	8.3			4									
WH	L		3M 40	14		14	27.8					14							
WH			Totals	50		50	3.1			4		14		32					
RC	L		3M 32	5		5	20.0			5									
RC	L		3M 40	18		18	80.0					18							
RC			Totals	23		23	1.4			5		18							
Total All Species				1,629	1.4	1,605	100.0			49	92	91	147	169	731	258	69		

Stand Table Summary																
TC TSTNDSUM																
Project MEGAFIN																
T03N R05W S16 T00MC											T03N R05W S16 T00MC					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
03N	05W	16	00A2	00MC	44.00	8	29	Date:	03/29/20							
								Time:	3:34:15PM							
Sp	S	DBH	Sample Trees	FF	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF	T	16	1	86	127	3.581	5.00	10.74	20.5	86.7	6.28	220	931	276	97	41
DF	T	22	1	90	152	1.894	5.00	7.58	35.0	167.5	7.55	265	1,269	332	117	56
DF	T	24	1	84	134	1.592	5.00	4.77	48.0	203.3	6.53	229	971	287	101	43
DF	T	25	3	86	156	4.400	15.00	17.60	44.8	211.7	22.45	788	3,726	988	347	164
DF	T	26	2	84	165	2.712	10.00	10.85	50.2	236.2	15.54	545	2,563	684	240	113
DF	T	27	6	85	164	7.545	30.00	30.18	54.9	270.0	47.21	1,657	8,149	2,077	729	359
DF	T	28	1	84	158	1.169	5.00	4.68	55.9	250.0	7.45	261	1,169	328	115	51
DF	T	29	1	84	167	1.090	5.00	4.36	63.3	317.5	7.87	276	1,384	346	121	61
DF	T	30	1	85	178	1.019	5.00	3.06	81.2	426.7	7.08	248	1,304	311	109	57
DF	T	31	2	84	175	1.908	10.00	6.68	78.9	405.7	15.02	527	2,709	661	232	119
DF	T	32	2	84	155	1.790	10.00	7.16	73.0	356.3	14.90	523	2,551	656	230	112
DF	T	33	1	83	174	.842	5.00	3.37	83.6	425.0	8.02	281	1,431	353	124	63
DF	T	34	1	83	176	.793	5.00	3.17	90.7	460.0	8.20	288	1,459	361	127	64
DF	T	35	1	85	159	.748	5.00	2.99	92.4	472.5	7.88	277	1,414	347	122	62
DF		Totals	24	85	157	31.084	120.00	117.19	54.5	264.8	181.98	6,385	31,031	8,007	2,809	1,365
GF	L	16	1	92	142	3.581	5.00	10.74	23.2	106.7	5.47	249	1,146	241	109	50
GF	L	22	1	85	162	1.894	5.00	7.58	37.0	172.5	6.17	280	1,307	271	123	58
GF	L	23	1	89	151	1.733	5.00	6.93	40.4	192.5	6.16	280	1,334	271	123	59
GF		Totals	3	89	149	7.208	15.00	25.25	32.0	150.0	17.80	809	3,787	783	356	167
WH	L	24	1	86	141	1.592	5.00	4.77	53.1	240.0	8.11	253	1,146	357	112	50
WH		Totals	1	86	141	1.592	5.00	4.77	53.1	240.0	8.11	253	1,146	357	112	50
RC	L	21	1	78	93	2.079	5.00	4.16	42.1	125.0	4.11	175	520	181	77	23
RC		Totals	1	78	93	2.079	5.00	4.16	42.1	125.0	4.11	175	520	181	77	23
Totals			29	86	152	41.962	145.00	151.37	50.4	241.0	212.01	7623	36,484	9,328	3,354	1,605

VOLUME SUMMARY
(Shown in MBF)
Mega Lou Mania
Sale No. 341-18-27
March, 2017

AREA 1: MC (73 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2,483	1,047	90	3,620
	Hidden D&B (2%)	(50)	(21)	(2)	(72)
	NET TOTAL	2,433	1,026	88	3,548
	% of Total	69	29	2	

AREA 2: MC (44 ACRES)

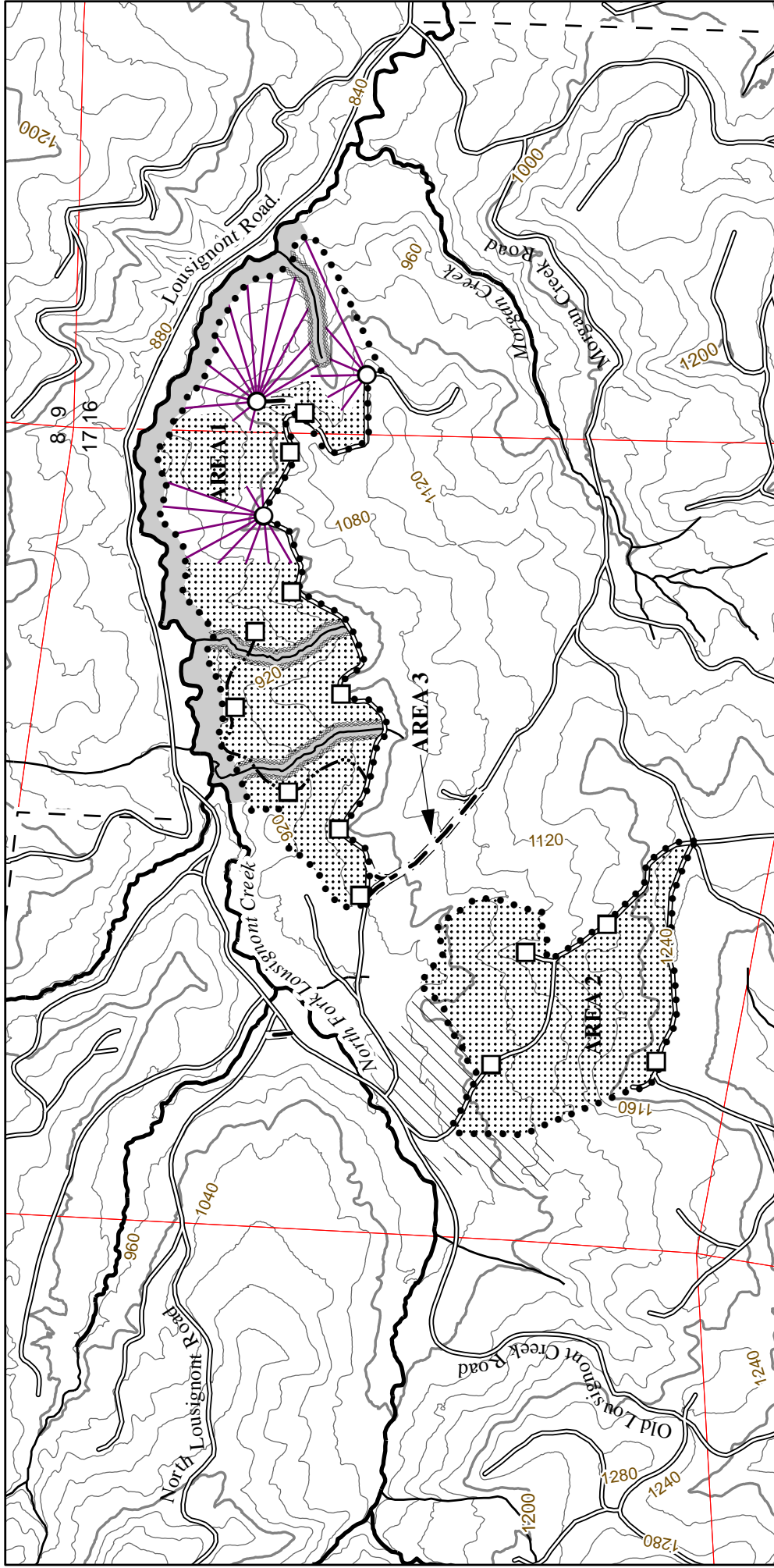
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	1,069	265	31	1,365
	Hidden D&B (2%)	(21)	(5)	(1)	(27)
	NET TOTAL	1,048	260	30	1,338
	% of Total	78	19	2	
Grand fir	Cruise Volume	68	92	6	166
	Hidden D&B (2%)	(1)	(2)	()	(3)
	NET TOTAL	67	90	6	163
	% of Total	41	55	4	

AREA 3: R/W (1 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	23	10	1	34
	Hidden D&B (2%)	()	()	()	(1)
	NET TOTAL	23	10	1	33
	% of Total	70	30	3	

SALE TOTAL

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir		3,504	1,296	119	4,919
Grand fir		67	92	6	163
Total					5,082

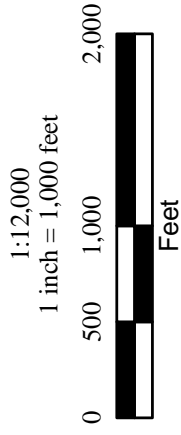


Legend

- Timber Sale Boundary
- Cable Landing
- Tractor Landing
- ▬▬▬ New Road Construction
- ▬▬▬ Cable Yarding Area
- ▬▬▬ Non Project Road
- ▬▬▬ Tractor Yarding Area
- ▬▬▬ Type F Stream
- ▬▬▬ Tractor Yarding Area
- ▬▬▬ Type N Stream
- ▬▬▬ Reforested Area
- ▬▬▬ Stream Buffer Boundary
- ▬▬▬ ODF Ownership Boundary
- ▬▬▬ Sections
- ▬▬▬ Stream Buffer
- ▬▬▬ 200 Foot Contour Band
- ▬▬▬ 40 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT # 341-18-27
 MEGA LOU MANIA
 PORTIONS OF SECTIONS 16 & 17, T3N, R5W
 WASHINGTON COUNTY, OREGON.



	APPROXIMATE NET ACRES	
	CABLE	TRACTOR
AREA 1	26	47
AREA 2	0	44
AREA 3	0	1
TOTAL	26	92

Forest Grove District GIS
 April, 2017

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