

"STEWARDSHIP IN FORESTRY"

District: Forest Grove Date: April 09, 2013

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$391,814.88	\$0.00	\$391,814.88
		Project Work:	\$(20,640.00)
		Advertised Value:	\$371,174.88

4/9/13



"STEWARDSHIP IN FORESTRY"

District: Forest Grove Date: April 09, 2013

timber description

Location: Portions of Sections 17 and 20, T3N, R5W, W.M., Washington County, Oregon, and

portions of Section 13, T3N, R6W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	98

Volume by Grade	2S	3S	4S	Poles / P	Total
Douglas - Fir	185	195	37	392	809
Total	185	195	37	392	809



"STEWARDSHIP IN FORESTRY"

District: Forest Grove Date: April 09, 2013

comments: Pond Values Used: 1st Quarter Calendar Year 2013.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:

\$263.19/MBF = \$480/MBF - \$216.81/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value

minus Logging Cost:

\$783.19/MBF = \$1,000/MBF - \$216.81/MBF

 ${\tt Red \ Alder \ and \ Other \ Hardwoods \ Stumpage \ Price = Pond \ Value \ minus}$

Logging Cost:

\$338.19/MBF = \$555/MBF - \$216.81/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

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

Brand and Paint: 809 MBF @ \$1/MBF = \$809

Construct Non-Project Roads: $5 \text{ sta.} \times \$200/\text{sta.} = \$1,000$ TOTAL Other Costs (with Profit & Risk to be added) = \$1,809

Other Costs (No Profit & Risk added):

Machine Time to Block/Waterbar Roads, and Skid Trails:

10 Hours @ \$150/Hr. = \$1,500

Equipment Cleaning: $4 \times \$1,000/Piece = \$4,000$

Machine Time to Pile Landing Slash and Sort Firewood:

10 hrs x \$150/hr= \$1,500

TOTAL Other Costs (No Profit & Risk added) = \$7,000

ROAD MAINTENANCE

Move-in: \$1,000

General Road Maintenance: $6.5 \text{ miles } \times \$500/\text{mile} = \$3,250$

TOTAL: \$4,250 / 809 MBF = \$5.25/MBF



"STEWARDSHIP IN FORESTRY"

District: Forest Grove Date: April 09, 2013

logging conditions

combination#: 1 Douglas - Fir 87.16%

yarding distance: Medium (800 ft) downhill yarding: No logging system: Shovel Process: Stroke Delimber

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

loads / day: 5.0 bd. ft / load: 4,200

cost / mbf: \$68.49

machines: Stroke Delimber (B)

combination#: 2 Douglas - Fir 12.84%

yarding distance: Medium (800 ft) downhill yarding: No logging system: Cable: Medium Tower >40 - <70 Process: Stroke Delimber

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

loads / day: 5.0 bd. ft / load: 4,200

cost / mbf: \$159.24 machines: Log Loader (A)

Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)



"STEWARDSHIP IN FORESTRY"

District: Forest Grove Date: April 09, 2013

logging costs

Operating Seasons: 2.00 Profit Risk: 10.00%

Project Costs: \$20,640.00 **Other Costs (P/R):** \$1,809.00

Slash Disposal: \$0.00 **Other Costs:** \$7,000.00

Miles of Road

Road Maintenance: \$5.25

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	4.2

Local Pond Values

Date	Specie	Grade	Value
4/9/13	Douglas - Fir	Poles / Pilings	\$800.00



"STEWARDSHIP IN FORESTRY"

District: Forest Grove Date: April 09, 2013

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$80.14	\$5.36	\$10.84	\$86.11	\$2.24	\$18.47	\$0.00	\$5.00	\$8.65	\$216.81

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$701.13	\$484.32	\$0.00



District: Forest Grove

Date: April 09, 2013

summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	809	\$484.32	\$391,814.88

Gross Timber Sale Value

Recovery: \$391,814.88

Prepared by: Joe Koch Phone: 503-359-7460

TIMBER SALE SUMMARY Cool Hand Lou Contract No. 341-13-60

- **1.** <u>Legal Description:</u> Portions of Sections 17 and 20, T3N, R5W, W.M., Washington County, Oregon, and Portions of Section 13, T3N, R6W, W.M., Tillamook County, Oregon.
- **2.** <u>Type of Sale</u>: Areas 1, 2, and 3 are a Light Partial Cut (PC-L). Area 1 is 57 acres, Area 2 is 12 acres, Area 3 is 8 acres, and Area 4 is 3 acres of Right of Way. The timber will be sold on a recovery basis at a sealed bid auction.
- **3.** Revenue Distribution: 100% BOF; 73% Washington County. 27% Tillamook County, Tax Code 56-1.
- **4.** <u>Sale Acreage</u>: Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
- **5.** <u>Cruise Data</u>: The Timber Sale was cruised by SLI cruisers in April 2008 and was also cruised by ODF foresters in January 2013. For more information see Cruise Report.
- **6.** <u>Timber Description</u>: Timber Sale Area is well stocked, 75 year old stands of Douglas-fir with minor amounts of Grand fir, Western hemlock, and hardwoods. For Areas 1 through 3 (PC-L) the average volume per acre to be removed is approximately 10 MBF. The average 'take' tree DBH is approximately 22 inches.
- **7.** Topography and Logging Method: Slopes within the sale vary in aspect and range from 5% to 50%. Timber Sale Area 1 is 87% ground-based yarding and 13% cable-based yarding, Timber Sale Areas 2 and 3 are both 100% ground-based yarding.
- 8. Access: From Forest Grove travel 7.5 miles north on Highway 47 to Banks. Continue north on Highway 47 and merge onto Highway 26 westbound for approximately 20 miles. From Highway 26 turn south onto Timber Road and drive 0.7 miles and turn west onto North Louisignont Road and continue for 1.7 miles, stay left on Crossover Road for approximately 1 mile to Timber Sale Area 1. To access Timber Sale Areas 2 and 3 continue travelling North Louisignont Road for 3 additional miles turn left onto Old Louisignont Road (arrived at Timber Sale Area 2) and continue for 0.5 miles to Timber Sale Area 3.

9. Projects:

Project No. 1: 0.87 miles of road construction	\$13,550.01
Project No. 3: Seed, fertilize, and mulch areas of disturbed soil	\$639.85
Project No. 4: Block and waterbar roads	\$2,314.09
Move in and equipment cleaning:	\$4,127.23

Project Total (rounded): \$20,640.00

10. Other Costs:

Other Costs (with Profit & Risk to be added):	
Brand and Paint: 809 MBF @ \$1/MBF =	\$809
Construct Operator Spurs: 5 sta. @ \$200/sta. =	\$1,000
Total Other Costs (with Profit & Risk to be added) =	\$1,809

Other Costs (No Profit & Risk added):

Machine time to block/waterbar roads, and skid trails: 10 hours @ \$150/Hr. =	\$1,500
Equipment Cleaning: 4 x \$1,000/Piece =	\$4,000
Machine Time to Pile Landing Slash and Sort Firewood: 10 hours x \$150/hr=	\$1,500
TOTAL Other Costs (No Profit & Risk added) =	\$7,000

ROAD MAINTENANCE

Move-in: \$1,000

General Road Maintenance: 6.5 miles x \$500/mile = \$3,250

TOTAL: \$4,250 / 809 MBF = \$5.25/MBF

PROJECT COST SUMMARY SHEET

Timber Sale: Cool Hand Lou Sale Number: 341-13-60

PROJECT NO. 1: ROAD CONSTRUCTION

CONSTRUCTION

Road Segment	Length	Cost
A to B	30+20	\$9,404.53
C to D	7+50	\$2,127.66
E to F	8+35	\$2,017.82
	46+05	stations
	0.87	miles

<u>TOTAL PROJECT NO. 1 COST = \$13,550.01</u>

PROJECT NO. 2: GRASS SEED & F	ERTILIZE	············
Grass seed and fertilize	\$639.85	
TOTAL PRO	OJECT NO. 2 COST =	\$639.85
PROJECT NO. 3: ROAD BLOCKING		
Block and Waterbar Roads	\$2,314.09	
TOTAL PRO	OJECT NO. 3 COST =	\$2,314.09
MOVE IN & EQUIPMENT CLEANING	ì	\$4,127.23
	(

TOTAL ALL PROJECTS TOTAL CREDITS

\$20,631.18 \$20,640.00

Timber Sale: Cool	Hand Lou		Timber S	ale No. :	341-1	3-60
Road Segment:	A to B		Const	ruction :	30+20 stations 0.57 miles	
PROJECT NO. 1						
EXCAVATION						
Clearing and Grubbing (Scatter)	2.77	acres @	\$1,274.00 pe		\$3,533.04	
Balanced Road Construction	25.40	sta @	\$90.00 pe		\$2,286.00	
Drift	. 4.80	sta @	\$150.00 pe		\$720.00	
Construct Turnouts	4	ea @	\$60.00 pe		\$240.00	
Construct Turnaround	2	ea@	\$75.00 pe		\$150.00	
Roadside Landing	1	ea@	\$150.00 pc		\$150.00	
Landing	1	ea.@	\$285.00 pe		\$285.00 \$364.49	
Grade, Ditch, and Roll	12.70	sta.@	\$28.70 pc		\$304,43 \$476.00	
Grade and Roll (Outslope)	17.50	sta @	\$27.20 pc	Ersia = Fotal Ev	CAVATION COSTS=	\$8,204.53
Culverts 60 LF of 18" \$	1,200.00	PR	OJECT N		.CULVERT COSTS =	\$1,200.00 \$9,404.53
PROJECT NO. 2:						
Grass seed and fertilize areas of distu	rbed soil. 1.39	acres @	\$220.00 p	er acre =	\$305.05	
		PR	OJECT N	O. 2 T	OTAL COST =	\$305,05
PROJECT NO. 3:						
Install Tank Trap at Point A	1	each @	\$50.00 p	erea =	\$50.00	
Waterbars	14	each@	\$25.00 p		\$350.00	
Grass seed and fertilize road surface	0.83	a.cres @	\$220.00 p	er acre =	\$183.03	
Equipment Move In and Cleaning					\$1,485.00	
		PR	OJECT N	10. 3 T	OTAL COST =	\$2,068.03
				TO	TAL COST =	\$11 777 61

Timber Sale:	Cool Hand Lou			Timbe	r Sale No.	: 341-1	3-60
Road Segment:	C to D			Co	nstruction	7+50 stations 0.14 miles	
PROJECT NO. 1							
EXCAVATION			,				
Clearing and Grubbing (Sc Balanced Road Construct Construct Turnaround Landing Grade, Ditch, and Roll		0.69 7.50 1 1 7.50	acres @ sta @ ea @ ea @ sta @	\$90.00 \$75.00 \$285.00	per acre = per sta = per ea = per ea = per sta = TOTAL E	\$877.41 \$675.00 \$75.00 \$285.00 <u>\$215.25</u> XCAVATION COSTS=	\$2,127.66
			PR	OJECT	NO. 1 T	OTAL COST = .	\$2,127.66
PROJECT NO. 2:							
Grass seed and fertilize a	reas of disturbed soil.	0.34	acres @	\$220.00	per acre =	\$75.76	
			PR	OJECT	NO. 2 T	OTAL COST =	\$75.76
PROJECT NO. 3:							
Waterbars Grass seed and fertilize ro	oad surface		each @ acres @ 	\$220.00	per ea = per acre =	\$75.00 <u>\$45.45</u>	
			PR	OJECT	NO. 3 T	OTAL COST =	\$120.45
					TO	ΓAL COST =	\$2,323.87

Timber Sale:	Cool Hand Lou			Timber Sale No.	.: 341-1	3-60
Road Segment:	E to F			Construction	8+35 stations 0.16 miles	
PROJECT NO. 1						
EXCAVATION						
Clearing and Grubbing (Sc	atter)	0.77	acres @	\$980.00 per acre =		
Balanced Road Construction		7.50	sta. @	\$90.00 persta =	\$675.00	
Construct Turnaround		1	ea@	\$75.00 perea=	\$75.00 \$285.00	
Landing		1	ea.@	\$285.00 perea =	\$205.00 \$81.80	
Grade, Ditch, and Roll		2.85	ste.@ ste.@	\$28.70 persta = \$27.20 persta =	\$149.60	
Grade and Roll (Outslope)		5.50	21 G (G)		EXCAVATION COSTS=	\$2,017.82
			PR	OJECT NO. 1	TOTAL COST = ,	\$2,017.82
PROJECT NO. 2:						
Grass seed and fertilize ar	eas of disturbed soil	0.38	acres @	\$220.00 per acre =	\$84.34	
			PR	OJECT NO. 2	TOTAL COST =	\$84.34
PROJECT NO. 3:						
Waterbars		3.00	each @	\$25.00 perea=	\$75.00	
Grass seed and fertilize ro	ad surface	0.23	acres @	\$220.00 per acre	= <u>\$50.61</u>	
<u> </u>			PR	OJECT NO. 3	TOTAL COST =	\$125.61
			W	TO	TAL COST =	\$2.227.77

Timber Sale:	Cool Hand Lou		Timber Sale No.:	341-13	3-60
Road Segment:	G to E		Construction :	8+20 stations 0.16 miles	
PROJECT NO. 3: Install Tank Trap at Point G Waterbars Grass seed and fertilize roa		1,00 each @ 3,00 each @ 0,23 acres @ PR	\$50.00 perea = \$25.00 perea = \$220.00 peracre = OJECT NO. 3 TC	\$50.00 \$75.00 \$49.70 OTAL COST =	\$174.70

TOTAL COST = \$174.70

Move-In & Equipment Cleaning

Timber Sale: Sale Number:

Cool Hand Lou 341-13-60

LOW	BOY HAUL	(One-way)
DIST.	0,00	AVE SPEED
(mi)	ROAD	(mph)
, L	Main	7
C:7	Lines	
<u>.</u>	Steep	2
o O	Grades	1

						WIEDID					
	FOLITPMENT	Equipment	Base	Woods	Pilot	Area	Begin	End	Total	Area	Total
2		Cleaning	Cost	Cost	Cars	Move	Mileage Mileage	Aileage	Miles	Cost	Cost
2	Drill & Com	6	\$0.00	\$0.00		\$46.00	0.0	0.0	0.0	\$0.00	\$0.00
O	Brich Culter		\$0.00	\$0.00		\$4.00	0.0	0.0	0.0	\$0.00	\$0.00
•	Craders		\$300.00	\$93.22		\$3.65	0.0	0.0	0.0	\$0.00	\$393.22
	Gladers Loader (Small)		\$0.00	\$0.00	₩.	\$3.55	0.0	0.0	0.0	\$0.00	\$0.00
•	Loader (Med & Large)		\$0.00	\$0.00	₩	\$9.00	0.0	0.0	0.0	\$0.00	\$0.00
7	Pollers (smooth/arid) & Compact	hors	\$308,59	\$109.25		\$5.00	0.0	0.0	0.0	\$0.00	\$417.84
1 C	Evravators (Small)	0\$	\$0.00	\$0.00		\$22.00	0.0	0.0	0.0	\$0.00	\$0.00
.	Excavators (Med.)	9	\$0.00	\$0.00		\$35.50	0.0	0.0	0.0	\$0.00	\$0.00
·	Excavators (Targe)	\$1,000	\$466.14	\$193.70	.	\$44.80	0.0	0.0	0.0	\$0.00	\$1,659.84
- د	Tired Backhoes/Skidders	\$0	\$0.00	\$0.00		\$3.00	0.0	0'0	0.0	\$0.00	\$0.00
) C	Tractors (D6)) (\$0.00	\$0.00	7	\$7.10	0.0	0.0	0.0	\$0.00	\$0.00
) C	Tractors (D2)	0 . 5	\$0.00	\$0.00	7	\$11.30	0.0	0.0	0.0	\$0.00	\$0.00
, -	Tractor (D8)	\$1,000	\$473.80	\$182.53	7	\$15.10	0.0	0.0	0.0	\$0.00	\$1,656.33
1 0	Dimp Trick (10 cv +)	, ,	\$0.00	\$0.00		\$2.85	0.0	0.0	0.0	\$0.00	\$0.00
· C	Dump Truck (Off Hiway)		\$0.00	\$0.00		\$4.75	0.0	0.0	0.0	\$0.00	\$0.00
· C	Water Truck (1500 Gal)		\$0.00	\$0.00		\$2.85	0.0	0.0	0.0	\$0.00	\$0.00
0	Water Truck (2500 Gal)		\$0.00	\$0.00		\$2.85	0.0	0.0	0.0	\$0.00	\$0.00
					_		TOTAL MOVE-IN COSTS:	VE-IN C	SOSTS:		\$4,127.23
					_						

CRUISE REPORT Cool Hand Lou 341-13-60

1. LEGAL DESCRIPTION:

Portions of Sections 17 and 20, T3N, R5W, W.M., Washington County, Oregon, and Portions of Section 13, T3N, R6W, W.M., Tillamook County, Oregon.

2. CRUISE DESIGN:

The volume estimate was obtained with a combination of SLI and ODF-cruised variable radius plots. The cruise design assumed a Coefficient of Variation CV% of 60%, an average stand diameter of 18 inches, a desired sampling error (SE%) of 11%.

3. SAMPLING METHOD:

A portion of Sale Area 1 was inventory cruised in April, 2008 with 17 plots using a 40 BAF prism; the results from this cruise were grown forward to February, 2013. The remaining portion of Area 1 was cruised with variable radius plots in 2013 by ODF foresters using a 40 BAF prism. For this cruise, a total of 12 measure plots were evenly distributed throughout the remaining sale area. Plots falling on or near existing roads or no-harvest areas were offset 1 chain. The plots in Sale Area 1 were spaced 5 chains apart on two cruise lines. Because of the similarities between Sale Areas 1, 2, and 3, the acres from Sale Area 2 and 3 were grouped with Area 1 to extrapolate the data from the cruise. An ocular assessment was used to estimate the amount of board feet in the Right-of-Way area (Area 4).

4. CRUISE RESULTS

158 trees were measured and graded producing a cumulative sampling error on the total tree basal area of 8.2% and 8.5% on the Board Foot Volume at a 68% confidence level.

5. TREE MEASUREMENT AND GRADING:

For the Timber Sale Area, all sample trees were measured and graded.

a) Height Standards:

Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.

- b) Diameter Standards: Diameters were measured outside bark at breast height to the nearest inch.
- c) Form Factors were measured for each grade tree using a form point of 16 feet on all sale areas. It was estimated at 88% for the SLI plots.

6. DATA PROCESSING

- a) Volumes and Statistics, Cruise and grown forward volume 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.
- 7. CRUISERS: The sale was cruised by SLI contract cruisers and ODF cruisers Mark Savage and Joe Koch.

Prepared by:	Joe Koch	2/26/2012
	ODF Forester	Date
Reviewed by:		
	Eric Foucht	Date

RESIDUAL STAND SPECIFICATIONS

SALE NAME: Cool Hand Lou SALE NUMBER: 341-13-60

AREAS 1, 2, & 3

Residual QMD assumption (from leave tree cruise information) =	17
Target Relative Density =	41

	Minimum	Target	Maximum
Relative Density	39	41	44
Basal Area	160	170	180
Trees per Acre	102	108	114

RD = BA / $\sqrt{}$ DBH BA = $\sqrt{}$ DBH (RD) TPA = (BA/acre) / (BA/tree) BA / tree = (πr^2) / (144)

TC	PLO	GSTVB					Log	Stock	x Table	- MB	F								
Т03	N R	05W S20	ТуРС	-L 8	0.00		Proj Acre		CO	OLHA 80	ND 0.00				•	Page Date Time		1 8/2013 02:30A	
	s	So Gr	Log	Gross	Def	Net	Net												
Spp	Т	rt de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	Т	2M	40	589		589	72,2						124	130	336				
DF	Т	3M	24	9		9	1.1				6	3							
DF	T	3M	32	22		22	2.7			9	13								
DF	Т	3M	40	159		159	19.5			6	28	70	55	•					
DF	Т	4M	12	3		3	.3			3									
DF	T	4M	16	13		11	1,4			11									
DF	Т	4M	24	12		12	1.5			6	7								
DF	Т	4M	32	10		10	1.3			10									
DF		Totals	3	816		816	100.0			44	55	72	178	130	336				
Total	ĺ	All Specie	es	816		816	100.0			44	55	72	178	130	336				

TC PSTATS					DJECT : ROJECT		STICS DLHAND			PAGE DATE	1 1/24/2013
WP RGE	SC	TRACT		TYPE		AC	RES	PLOTS	TREES	CuFt	BdFt
03N 05	20	COOLHAI	ΝD	PC-L			80.00	29	158	S	\mathbf{w}
					TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
		PLOTS	TREES		PER PLOT		TREES		TREES		
TOTAL		29	158		5,4	*	····				
CRUISE		29	158		5.4		9,917		1.6		
DBH COUNT							•				
REFOREST											
COUNT											
BLANKS											
100 %											
				STA	ND SUMI	MARY					
	5	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR-L		116	100.7	17.1	91	39	160.0				
DOUG FIR-T		34	17.3	22.3	131	10		10,201	10,201	2,188	2,188
GR FIR-L		6	2.5	24.5	130	2					
WHEMLOCK	-L	1	.3	29.0	143	0					
R ALDER-L		1	3.1	9.0	48		1,4			_	_
TOTAL		158	124.0	18.0	97		217.9	10,201	10,201	2,188	2,188
CONFIDENC	CE L	LIMITS OF T	HE SAMP	LE							
	3.1				ME WILL	BE WITH	IIN THE SAN	MPLE ERRO	OR		
		COEFF			CLACOX						DE DOD
CL 68.1		COEFF			SAMPL	E TREES	5 - BF	#	FOF TREES	REQ.	INF. POP.
CL 68.1 SD: 1.0		VAR.%	S.E.%	L	SAMPL OW	E TREES AVG	S - BF HIGH	#	FOF TREES 5	REQ. 10	INF. POP.
			S.E.%	I				. · · · · · · · · · · · · · · · · · · ·			
SD: 1.0 DOUG FIR-L DOUG FIR-T			S.E.% 5.5	L							
SD: 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L		VAR.%		L	OW	AVG	HIGH	# 			
SD: 1.0 DOUG FIR-L DOUG FIR-T	-L	VAR.%		L	OW	AVG	HIGH	# 			
SD: 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK	-L	VAR.%		I	OW	AVG	HIGH				
SD: 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK- R ALDER-L TOTAL	-L	VAR.% 31.8 203.2	5.5	I	600 115	635 137	HIGH 669		1,649	10	15 183
SD: 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1	-L	VAR.% 31.8 203.2 COEFF	5.5		OW 600 115 TREES/	635 137 ACRE	HIGH 669 159		5 1,649 4 OF PLOTS	10 412 REQ.	15 /85 INF. POP.
SD: 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1 SD: 1.0	-L	VAR.% 31.8 203.2	5.5		600 115	635 137	HIGH 669		1,649	10	15 183
SD: 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1	-L	VAR.% 31.8 203.2 COEFF VAR.%	5.5 16.2 S.E.%		OW 600 115 TREES/	635 137 ACRE AVG	HIGH 669 159 HIGH		5 1,649 4 OF PLOTS	10 412 REQ.	15 /85 INF. POP.
SD: 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L	-L	VAR.% 31.8 203.2 COEFF VAR.% 99.6	5.5 16.2 S.E.% 18.8		OW 600 115 TREES/OW 82	635 137 ACRE AVG 101	HIGH 669 159 HIGH 120		5 1,649 4 OF PLOTS	10 412 REQ.	15 /85 INF. POP.
DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L	- · · · · · · · · · · · · · · · · · · ·	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9	5.5 16.2 S.E.% 18.8 30.8		OW 600 115 TREES/OW 82 12	AVG 635 137 ACRE AVG 101 17	HIGH 669 159 HIGH 120 23		5 1,649 4 OF PLOTS	10 412 REQ.	15 /85 INF. POP.
DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L WHEMLOCK- R ALDER-L WHEMLOCK- R ALDER-L	- · · · · · · · · · · · · · · · · · · ·	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7		OW 600 115 TREES/OW 82 12 1	AVG 635 137 ACRE AVG 101 17 3	HIGH 669 159 HIGH 120 23 4		5 1,649 4 OF PLOTS 5	412 REO. 10	15 /85 INF. POP.
DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L GR FIR-L WHEMLOCK-	- · · · · · · · · · · · · · · · · · · ·	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7		OW 600 115 TREES/OW 82 12	AVG 635 137 ACRE AVG 101 17 3 0	HIGH 669 159 HIGH 120 23 4 1		5 1,649 4 OF PLOTS	10 412 REQ.	15 /85 INF. POP.
DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK- R ALDER-L	- · · · · · · · · · · · · · · · · · · ·	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7		OW 600 115 TREES/OW 82 12 1	AVG 635 137 ACRE AVG 101 17 3 0 3	HIGH 669 159 HIGH 120 23 4 1 6 143	ħ	5 1,649 4 OF PLOTS 5	10 412 REO. 10	18: INF. POP.
D: 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L WHEMLOCK- R ALDER-L TOTAL	- · · · · · · · · · · · · · · · · · · ·	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7	L	OW 600 115 TREES/OW 82 12 1	AVG 635 137 ACRE AVG 101 17 3 0 3 124	HIGH 669 159 HIGH 120 23 4 1 6 143	ħ	5 1,649 4 OF PLOTS 5	10 412 REO. 10	183 INF. POP. 13
DE 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK-R R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L WHEMLOCK-R R ALDER-L TOTAL CL 68.1	- · · · · · · · · · · · · · · · · · · ·	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7 15.6 S.E.% 5.0	L	0W 600 115 TREES/.OW 82 12 1 1 105 BASAL	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE	ħ	5 1,649 4 OF PLOTS 5	### 412 REO. 10 70 REO.	183 INF. POP. 13
DE 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L OOUG FIR-L DOUG FIR-L DOUG FIR-L DOUG FIR-L CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L DOUG FIR-L	- · · · · · · · · · · · · · · · · · · ·	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7 15.6 S.E.% 5.0 28.2	L	OW 600 115 TREES/OW 82 12 1 105 BASAL OW 152 34	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60	ħ	5 1,649 4 OF PLOTS 5	### 412 REO. 10 70 REO.	183 INF. POP. 13
DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L UNDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L GR FIR-L DOUG FIR-L TOTAL	Ł	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7 15.6 S.E.% 5.0 28.2 51.0	L	OW 600 115 TREES/OW 82 12 1 105 BASAL OW 152	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13	ħ	5 1,649 4 OF PLOTS 5	### 412 REO. 10 70 REO.	183 INF. POP. 13
DDUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L WHEMLOCK	Ł	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3 538.5	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7 15.6 S.E.% 5.0 28.2 51.0 101.7	L	OW 600 115 TREES/OW 82 12 1 105 BASAL OW 152 34	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8 1	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13 3	ħ	5 1,649 4 OF PLOTS 5	### 412 REO. 10 70 REO.	183 INF. POP. 13
DE 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L WHEMLOCK R ALDER-L WHEMLOCK R ALDER-L	Ł	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3 538.5 538.5 538.5	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 15.6 S.E.% 5.0 28.2 51.0 101.7 101.7	L	0W 600 115 TREES/ OW 82 12 1 105 BASAL OW 152 34 4	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8 1 1	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13 3 3	ħ	5 1,649 FOF PLOTS 5 281 FOF PLOTS 5	### 412 REO. 10 70 REO. 10	18: INF. POP. 1: 31: INF. POP.
DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L WHEMLOCK WHEMLOCK WHEMLOCK WHEMLOCK	Ł	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3 538.5	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7 15.6 S.E.% 5.0 28.2 51.0 101.7	L	OW 600 115 TREES/OW 82 12 1 105 BASAL OW 152 34	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8 1	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13 3	ħ	5 1,649 4 OF PLOTS 5	10 412 REO. 10 70 REO. 10	183 INF. POP. 133 INF. POP. 133
DE 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L WHEMLOCK R ALDER-L WHEMLOCK R ALDER-L	Ł	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3 538.5 538.5 538.5	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 15.6 S.E.% 5.0 28.2 51.0 101.7 101.7	L	0W 600 115 TREES/ OW 82 12 1 105 BASAL OW 152 34 4	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8 1 1 218	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13 3 3	#	5 1,649 FOF PLOTS 5 281 FOF PLOTS 5	10 412 REO. 10 70 REO. 10	18: INF. POP. 1: 31: INF. POP.
DE 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L WHEMLOCK- R ALDER-L TOTAL CL 68.1 SD: 1.0 CK ALDER-L CK 68.1 SD: 1.0	Ł	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3 538.5 538.5 538.5 43.2	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 15.6 S.E.% 5.0 28.2 51.0 101.7 101.7	L	OW 600 115 TREES/OW 82 12 1 105 BASAL OW 152 34 4	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8 1 1 218	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13 3 3	#	5 1,649 4 OF PLOTS 5 281 4 OF PLOTS 5	10 412 REO. 10 70 REO. 10	183 INF. POP. 133 INF. POP. 133
DE 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L ODUG FIR-L ODUG FIR-L ODUG FIR-L ODUG FIR-L ODUG FIR-L	Ł	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3 538.5 538.5 43.2 COEFF VAR.%	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7 15.6 S.E.% 5.0 28.2 51.0 101.7 101.7 8.2 S.E.%	L.	0W 600 115 TREES/ OW 82 12 1 105 BASAL OW 152 34 4 200 NET BF	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8 1 1 218 /ACRE AVG	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13 3 3 236 HIGH	#	1,649 FOF PLOTS 5 281 FOF PLOTS 5	10 412 REO. 10 70 REO. 10	183 INF. POP. 13 INF. POP. 15
DE 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L OOUG FIR-L DOUG FIR-L	Ł	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3 538.5 538.5 43.2 COEFF	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7 15.6 S.E.% 5.0 28.2 51.0 101.7 101.7 8.2	L.	0W 600 115 TREES/ OW 82 12 1 105 BASAL OW 152 34 4 200 NET BF	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8 1 1 218	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13 3 3 236	#	1,649 FOF PLOTS 5 281 FOF PLOTS 5	10 412 REO. 10 70 REO. 10	183 INF. POP. 13 INF. POP. 15
DE 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L	-L	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3 538.5 538.5 43.2 COEFF VAR.%	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7 15.6 S.E.% 5.0 28.2 51.0 101.7 101.7 8.2 S.E.%	L.	0W 600 115 TREES/ OW 82 12 1 105 BASAL OW 152 34 4 200 NET BF	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8 1 1 218 /ACRE AVG	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13 3 3 236 HIGH	#	1,649 FOF PLOTS 5 281 FOF PLOTS 5	10 412 REO. 10 70 REO. 10	183 INF. POP. 13 INF. POP. 15
DE 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R HOUG FIR-L WHEMLOCK WHEMLOCK WHEMLOCK WHEMLOCK WHEMLOCK WHEMLOCK	-L	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3 538.5 538.5 43.2 COEFF VAR.%	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7 15.6 S.E.% 5.0 28.2 51.0 101.7 101.7 8.2 S.E.%	L.	0W 600 115 TREES/ OW 82 12 1 105 BASAL OW 152 34 4 200 NET BF	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8 1 1 218 /ACRE AVG	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13 3 3 236 HIGH	#	1,649 FOF PLOTS 5 281 FOF PLOTS 5	10 412 REO. 10 70 REO. 10	183 INF. POP. 13 INF. POP. 15
DE 1.0 DOUG FIR-L DOUG FIR-T GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 GR FIR-L WHEMLOCK R ALDER-L TOTAL CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L	-L	VAR.% 31.8 203.2 COEFF VAR.% 99.6 162.9 271.1 538.5 538.5 82.5 COEFF VAR.% 26.7 149.6 270.3 538.5 538.5 43.2 COEFF VAR.%	5.5 16.2 S.E.% 18.8 30.8 51.2 101.7 101.7 15.6 S.E.% 5.0 28.2 51.0 101.7 101.7 8.2 S.E.%	L.	0W 600 115 TREES/OW 82 12 1 105 BASAL OW 152 34 4 200 NET BF	AVG 635 137 ACRE AVG 101 17 3 0 3 124 AREA/A AVG 160 47 8 1 1 218 /ACRE AVG	HIGH 669 159 HIGH 120 23 4 1 6 143 CRE HIGH 168 60 13 3 3 236 HIGH	#	1,649 FOF PLOTS 5 281 FOF PLOTS 5	10 412 REO. 10 70 REO. 10	183 INF. POP. 13 INF. POP. 15

TC PST	ATS			-v .		ROJECT PROJECT		ISTICS OLHAND			PAGE DATE	2 1/24/2013
TWP	RGE	SC	TRACT		TYPE		. A	CRES	PLOTS	TREES	CuFt	BdFt
03N .	05	20	COOLHAND		PC-L			80.00	29	158	S	W
CL	68.1		COEFF			NET C	UFT FT/	ACRE		# OF PLOTS I	REQ.	INF. POP.
SD;	1.0		VAR.%	S.E.%		LOW	AVG	HIGH		5	10	15
DOUG GR FIF		F	143.6	27.1		1,595	2,188	2,782				

2,188

2,782

853

213

95

1,595

TOTAL

143.6

27.1

Т03	3N R05W S2	0 ТуРС	L 8	80.00		Project: Acres		LHA 80.00	ND]	Page Date Fime	1/28/20 9:02:3	
		%					Percen	t of Ne	Board I	oot Vol	ıme				Average	Log	Logs
	S So Gr	Net	Bd. Ft	per Acre	3	Total	Log	Scale I	Dia.		Log L	ength		Ln	Bd	CF/	Per
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5 6-	11 12	16 17+	12-20	21-30	31-35	36-99	Ft	Ft	Lf	/Acre
DF	T 2M	72		7,368	7,368	589		5	4 46				100	40	362	1.82	20
ϽF	T 3M	23		2,375	2,375	190		71 2	9		5	12	84	37	129	0.85	18
DF	T 4M	5		459	459	37	1	00		38	33	28		19	29	0.41	15
DF	Totals	100		10,201	10,201	816		21 4	6 33	2	3	4	92	33	187	1.22	54

TC	PSTNDS	JM				,	Stand	Table	Summa	гу			Page Date:	1 1/28/2	013
T031	1 R05W 5	320 ТуРС	-L	80.	00		Projec	et C	COOLHA	ND	.,		Time:	9:02:3	1AM
							Acres		80.0	0			Grown Ye	ar:	
S Spc T		Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Averag Net Cu.Ft.	Net	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	MBF
DF T	18	2	89	120	1.561	2.76	4.68	24.7	105.0	3.30	116	492	264	93	39
DFT	19	3		117	2.102	4,14	6.30	26.3	108.9	4.73	166	687	379	133	55
DFT	20 22	3 9		117 137	1.897 4.703	4.14 12.41	5.69 14.63	29.5 40.3	125.6 191.4	4.78 16.79	168 589	714 2,801	383	134 471	57 224
DF T DF T	23	2		136	.956	2.76	3,35	39.9	191.4	3.81	134	2,601 641	1,344 305	107	51
DF T	24	4		134	1.756	5.52	5.71	45.7	216.2	7.44	261	1,234	595	209	99
DF T	25	8		139	3.237	11.03	10.52	51.6	246.5	15.47	543	2,594	1,238	434	207
DFT	26	1 2		147	.374	1.38	1.50	48.4	250.0	2.06	72	374	165	58	30
DFT	27			147	.694	2.76	2.08	66.9	320.0	3.97	139	666	317	111	53
DFT	Totals	34	88 87	131 45	17.279 7.025	46.90 1.38	54.46	40.2	187.3	62.36	2,188	10,201	4,989	1,751	816
DF L DF L	6 7	! 1	88	43 48	5.161	1.38									
DFL	8	5	87	61	19.757	6.90									
DF L	9	1	88	65	3.122	1.38									
DF L	10	4	87	60	10.116	5.52									
DF L DF L	12 14	8 1	88 88	88 92	14.050 1.290	11.03 1.38									
DF L	15	1	89	116	1,124	1,38									
DF L	16	1		109	.988	1.38		-							
DF L	17	2		128	1.750	2.76									
DF L	18 19	4 2		119 127	3,122 1,401	5.52 2.76									
DF L DF L	20	4		117	2.529	5.52									
DFL	21	7		121	4.014	9.66									
DF L	22	7		136	3,658	9.66									į
DF L	23	4	89	129	1.912	5.52									
DF L DF L	24 25	5 7		131 129	2.195 2.832	6.90 9.66									
DF L	26	9		126	3.367	12.41									
DF L	27	2	90	140	.694	2.76									
DF L	28	6		154	1.935	8.28									
DF L DF L	29 30	8		138 146	2.406 2.248	11.03 11.03									
DF L	31	5		137	1.316	6.90							•		
DF L	32	1		154	.247	1.38		-							
DF L	33 34	3 3		158 142	.697	4.14						_			
DF L DF L	35	1		151	.656 .206	4.14 1.38									
DF L	36	3		152	.585	4.14									
DF L	37	1		130	.185	1.38									
DF L	42	1		148	.143	1.38									
DF L	Totals	116	88	91	100.732	160.00									
GF L	20	1		104	.632	1.38									
GF L GF L	21 25	1 2		134 134	.573 .809	1.38 2.76			İ						
GF L	31	1		162	.263	1,38									
GF L	32	1	94	139	,247	1.38									
GF L	Totals	6	92	130	2,525	8.28									
RA L	9	1	85	48	3.122	1.38									
RA L	Totals	1	85	48	3.122	1.38									-

тс	PSTNDS	UM				, 	Stand	Table	Summa	ry			Page Date:	2 1/28/2	013
T03N R05W S20 TyPC-L 80.00 Project COOLHAND Time: 9:02:31AN Acres 80.00 Grown Year:											31AM				
S Spc T	ЪВН	Sample Trees		Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Averag Net Cu.Ft.	Net	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tens	Totals Cunits	MBF
WHL	29	I	87	143	.301	1.38									
WH L	Totals	1	87	143	.301	1.38		·							
Totals		158	88	97	123.959	217.93	54.46	40.2	187.3	62.36	2,188	10,201	4,989	1,751	816

VOLUME SUMMARY

(Shown in MBF) Cool Hand Lou 341-13-60 January 2013

AREA 1, 2, & 3: PC-L (77 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	POLE	TOTAL
Douglas-fir	Cruise Volume	189	190	37	400	816
	Hidden D&B (2%)	(4)	(4)	(1)	(8)	(17)
	NET TOTAL	185	186	36	392	799
	% of Total	23	23	5	49	

AREA 4: R/W (3 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	POLE	TOTAL
Douglas-fir	Cruise Volume	0	9	1		10
	Hidden D&B (2%)	()	()	()		()
	NET TOTAL	0	9	1		10
	% of Total	0	90	10		

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	POLE	TOTAL
Douglas-fir	185	195	37	392	809

