

Sale AT-341-2019-W00615-01

District: Astoria Date: January 24, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,378,109.72	\$108,886.40	\$2,486,996.12
		Project Work:	(\$69,443.00)
		Advertised Value:	\$2,417,553.12

1/30/19



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District: Astoria Date: January 24, 2019

Timber Description

Location: Areas 1 through 3 are located in portions of Sections 2, 3, 11, 12, 13, and 14 T6N R6W. W.M., Clatsop County, OR

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	24	0	97
Western Hemlock / Fir	24	0	99
Alder (Red)	17	0	95

Volume by Grade	28	3S & 4S 6"- 11"	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	4,999	802	0	0	0	0	5,801
Western Hemlock / Fir	14	3	0	0	0	0	17
Alder (Red)	0	0	85	37	58	44	224
Total	5,013	805	85	37	58	44	6,042

Comments:

1. SOURCE OF POND VALUES

Pond Values Used: Local Pond Values, November 2018.

2. PRICING

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost: \$1,040.66/MBF = \$1,300/MBF - \$259.34/MBF

3. PULP PRICE

Pulp (Conifer and Hardwood) Price = \$30/MBF

4. PROFIT & RISK COSTS

Machine Washing for Invasive Weed Compliance = \$2,000

One week of skidding time for Line Pull required Area= \$7,560 = \$189 x 40hr

TOTAL Other Costs (with Profit & Risk to be added) = \$9,560

5. NON-PROFIT & RISK COSTS

None

6. SLASH DISPOSAL

Slash and Landing Piling (See attached appraisal)= \$21,001

7. ROAD MAINTENANCE COST

\$4.03/mbf (See attached appraisal)

1/30/19



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District: Astoria Date: January 24, 2019

Logging Conditions

Combination#: 1 Douglas - Fir 26.00%

Western Hemlock / Fir 26.00% Alder (Red) 26.00%

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

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

loads / day: 11 bd. ft / load: 4600

cost / mbf: \$130.43

machines: Log Loader (A)

Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 74.00%

Western Hemlock / Fir 74.00% Alder (Red) 74.00%

Logging System: Shovel Process: Manual Falling/Delimbing

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

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

loads / day: 15 bd. ft / load: 4600

cost / mbf: \$57.06

machines: Shovel Logger

1/30/19



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District: Astoria Date: January 24, 2019

Logging Costs

Operating Seasons: 3.00

Profit Risk: 12%

Project Costs: \$69,443.00

Slash Disposal: \$21,001.00

Other Costs (P/R): \$9,560.00

Other Costs: \$0.00

Miles of Road

Road Maintenance:

\$4.03

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	4.0
Western Hemlock / Fir	\$0.00	3.0	4.0
Alder (Red)	\$0.00	2.0	3.5

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District: Astoria Date: January 24, 2019

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas -	Fir								
\$76.14	\$4.15	\$2.18	\$81.55	\$1.58	\$19.87	\$3.48	\$2.00	\$0.00	\$190.95
Western H	emlock	/ Fir							
\$76.14	\$4.07	\$2.18	\$79.96	\$1.58	\$19.67	\$3.48	\$2.00	\$0.00	\$189.08
Alder (Red	l)								
\$76.14	\$4.23	\$2.18	\$142.50	\$1.58	\$27.20	\$3.48	\$2.00	\$0.00	\$259.31

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$600.00	\$409.05	\$0.00
Western Hemlock / Fir	\$0.00	\$495.59	\$306.51	\$0.00
Alder (Red)	\$0.00	\$745.41	\$486.10	\$0.00

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Sale AT-341-2019-W00615-01

District: Astoria Date: January 24, 2019

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,801	\$409.05	\$2,372,899.05
Western Hemlock / Fir	17	\$306.51	\$5,210.67
Alder (Red)	224	\$486.10	\$108,886.40

Gross Timber Sale Value

Recovery: \$2,486,996.12

Prepared By: Matt Dimick Phone: 503-325-5451

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SUMMARY OF ALL PROJECT COSTS

SALE NAME:	Vesper Bell			
Project No. 1	: ROAD CONSTRUCTION:			
	Road segment 3A to 3B	<u>Length/Sta</u> 3.95	<u>Cost</u> \$6,794.39	
	Move-In TOTALS	3.95	\$931.29	\$7,726
Project No. 2	ROAD IMPROVEMENT: Road segment 11 to 12, 13 to 14 15 to 16, 17 to 18 19 to 110, 111 to 112 113 to 114,	<u>Length/Sta</u> 339.00	<u>Cost</u> \$54,277.46	
	Move-In TOTALS	339.00	\$7,439.71	\$61,717
SPECIAL PRO	JECTS (Move-In and Road Maint. are in	icluded separetly as needed, 1	for each Special Project):	
	<u>Description</u>		<u>Cost</u>	
		and the state of t	•	
	TOTAL			
GRAND TOTA		_		\$69,443
Compiled By:	Matt Dimick		Date:	11/14/2018

Move In and Maintenance Calculator for Construction and Improvement

SALE NAME:	Vesper Bell			
Project No. 1:	ROAD CONSTRUCTION:			
	Road segment 3A to 3B	Length/Sta 3.95	<u>Cost</u> \$6,794	
			,	
	TOTALS	3.95		\$6,794
Project No. 2:	ROAD IMPROVEMENT:			
	Road segment	Length/Sta	<u>Cost</u>	
	11 to 12, 13 to 14	339,00	\$54,277	
	5 to 6, 7 to 8 9 to 10, 11 to 12			
	113 to 114,			
	113 10 114,		h	
	TOTALS			\$54,277
MOVE IN (Con	struction & Improvement			
	Equipme	<u>ent</u>	Cost	
	Dozer (D8)		\$1,581.00	
	Excavator (C330)		\$1,581.00	
	Excavator (C315) Dump Trucks (12cy x6)		\$905.00	
	Front End Loader (C966		\$1,104.00 \$875.00	
	Backhoe (C580)	3}	\$361,00	
	Grader (14G)		\$875.00	
	Vibratory Roller		\$875.00	
	Water Truck (2,500 gal)		\$214.00	
	Tracel Track (2,500 Ball)	<u> </u>	<u> </u>	
	TOTAL			\$8,371.00
ROAD MAINT	ENANCE (Construction &	Improvement Only)		
	Project road maintenan	nce		
	TOTAL			

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Vesper Bell	Vesper Bell				NEW CON	NEW CONSTRUCTION:	3.95	3.95 STATIONS	0.07 MILES
ROAD:	3A to 3B				M	IMPROVEMENT:		STATIONS	0.00 MILE
POINTS:	SNIBBIIIG								
CLEARING & GRODDING	Method			Acres/amount	×	Rate	ŧI	Cost	
3A to 3B	Scattered outside of right of way (\$/ac)	de of right of w	ay (\$/ac)	0.45	×	\$ 1,503	Iŝ	676.35	
								- Antonio	
								ALTERNATION OF THE PROPERTY OF	nya kan go da makama
SUB TOTAL F	SUB TOTAL FOR CLEARING & GRUBBING	& GRUBBING	47					38.00	\$676
EXCAVATION	J Material			Cy/amount	×	Rate	II.	Cost	
3A to 3B	Common drift (≤ 50% slopes) (\$/cy)	≤ 50% slopes)	(\$/cy)	755.00 1.00	××	\$2.02 \$438.00	 	\$1,525.10 \$438.00	
	Embankment compaction (\$/cy)	ompaction (\$/c	y)	755.00	×	\$0.79	: п	\$596.45	
	Cut slope rounding (sta.)	ding (sta.)		3.95	×	\$48.00	I	4 190.00	
	***************************************		Library Colonia (1)					A A A A A A A A A A A A A A A A A A A	
			***************************************	in the second se		West of the second seco		ALIANAMA PROPERTY OF THE PROPE	
SUB TOTAL I	SUB TOTAL FOR EXCAVATION	ON			TA A A A A A A A A A A A A A A A A A A		And Park Co.		\$2,753
CULVERT M/ Location	CULVERT MATERIALS AND INSTALLATION Location Dia/type Lineal ft.	INSTALLATIO	Rate	Cost	Location	Dia/type	Lineal ft.	Rate	Cost
3A to 3B 1+42	18" CPP	30	\$21.95	\$658.50			ALL THE PARTY OF T		
									1777
sale.									
	1						TANKELINIE .		
	•	1	The state of the s	Description		Quantity	Rate	Cost	
	Other/miscellaneous:	neous:					ALL PARTY OF THE P		
	Culvert stakes & markers:		6" x 2.5" whit	6' x 2.5" white fiberglass post	t	_	\$23.00	\$23.00	
SUB TOTAL	SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION	MATERIALS	& INSTALLA	TION			2.64.4.7.2.6.0	TO CALL	\$682
							Subtotal of C	Subtotal of Cleaning, Exc., Culv.	\$4,777

\$6,794											GRAND TOTAL	A Total Control of the Control of th
\$2,683 \$4,111	pec. Proj. Exc., Culv.	Subtotal of Surfacing & Spec. Proj. Subtotal of Clearing, Exc.,Culv.	Subtotal of Subtota									
\$555									JECTS	SPECIAL PRO	SUB TOTAL FOR SPECIAL PROJECTS	
			\$ 554.80	\$2.92/cy)	(190cy @ 1		-run	Develop pit-run				
	MANUFER PROPERTY CANAL	THE PROPERTY OF THE PROPERTY O	Cost			TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	Description	De		CTS	SPECIAL PROJECTS	
\$2,129			366			176	190			SURFACING	SUB TOTAL FOR SURFACING	and constraints for the constraints.
			Total			4"-0" crushed	6"-0" pit run					
	\$253.92	\$126.96	2.00			Water, Process, & Compact (2 lifts, 4" - 0"):	mpact (2	ocess, & Co	Water, Pr			
	Cost	Rate/sta	No.sta					Description		Processing:		
	\$1,675			366					3A to 3B	A designation of the second se		Total Rock for Road Segment:
		\$806	\$6.72	120	11	Stations	75	Station	12	2+00 to 3+60	6"-0" Pit- Run	anding Re-enforcement
		\$470	\$6.72	70	1	Landing	70	Landing	N/A	3+60	6"-0" Pit- Run	Landing
		\$50	\$2.26	22	13	Junctions	22	Junction	N/A	0+00	4"-0" Crushed	Junctions
		\$99	\$2.26	44	2	Turnout	22	Turnout	N/A	0+80	4"-0" Crushed	Turnouts
		\$249	\$2.26	110	10	Loads	54	Station	10	0+00 to 2+00	4"-0" Crushed	Base Rock
			amt.	(CY)		of		per	(inches)	Location	and Type	opineamon.
		LOSI	Sta./	VOLUME	ber	Number) (CX)	Volume (CY)	Rock		Rock Size	Application
		?	Rate/	TOTAL	3+00	0+00 to 3+00	3B	3A to 3B	Depth of			
					Sta.	Sta. to Sta.	POINT	POINT TO POINT			3A to 3B	ROAD SEGMENT
	\$89.63	\$22.69	×	3.95				4 to 3B)	paction (3/	Subgrade Compaction (3A to 3B)		
	\$110.24	\$27.91	×	3.95	***************************************		8)	16' (3A to 3B)	and Ditch 1	Grade, Shape and Ditch 16'		
****	Cost	sta/amt	×	amount					Description		Subgrade prep:	
		Data		240450=2/								STIREACING

Compiled By: Matt Dimick

Date: 11/01/2018

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Vesper Bell ROAD:	Vesper Bell				NEW CO	NEW CONSTRUCTION:	339.50	STATIONS	0.00 MILES 6.43 MILES
POINTS:	11 to 12, 13 to 14	1, 15 to 16, 17 to 18, 112, and 113 to 114	11 to 12, 13 to 14, 15 to 16, 17 to 18, 19 to 110, 111 to 112, and 113 to 114,						, and the same of
CLEARING & GRUBBING Meth	요			Acres/amount		Rate		Cost	******************

						- I I I I I I I I I I I I I I I I I I I			
								A CAMPANIA	
SUB TOTAL	SUB TOTAL FOR CLEARING & GRUBBING	& GRUBBIN	IG					WANTED THE STREET	\$0
EXCAVATION	Naterial Material	THE REAL PROPERTY OF	A STATE OF THE STA	Cv/amount		Rate		Cost	
11 to 12					***************************************				
28+75 38+40	Install Ditch Filters (utilizing 312) Ditchline re-establishment and co	ters (utilizing ablishment a	Install Ditch Filters (utilizing 312) Ditchline re-establishment and cutslope improver	→ N	××	114	EI I	\$114	
78+00	Install Ditch Filters	ters		2	×	114	ŧı	\$228	
SUB TOTAL	SUB TOTAL FOR EXCAVATION	ION		The state of the s					\$570
CULVERT M.	CULVERT MATERIALS AND INSTALLATION	INSTALLAT					l inoal #	Data	Cost
Location I1 to I2	Dia/type	Lineal It.	Kate	Son	Location	Dia/type	Lifleal it.	7.00	COST
10+15	18"CPP	30	\$21.95	\$658.50				The second secon	
56+00	18"CPP	30	\$21.95	\$658.50					en avenue a review a
86+00	18"CPP	30	\$21.95	\$658.50					
	Other/miscellaneous:	neous:		Description		Quantity	Rate	Cost	
	Other/miscellar	neous:							
	Culvert stakes & markers:	& markers:	6' X 2½" white fiberglass post	glass post		4	\$23.00	\$92.00	
SUB TOTAL	FOR CULVERT	MATERIALS	SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION				Subtatal of Classina	Yourne Evo Out	\$2,726

SURFACING	Subgrade prep:		Description					Stations/ amount	×		Cost
	-1-	Grade, Shape and Ditc Subgrade Compaction	h 20' 1 to 2 20' 1 to 2					112.00	××		\$3,485.44
	11	Grade, Shape and Ditch 16' 13 to 14, 15 to 16, 17 to 18, 19 to 110, 111 to 112, and 113 to 114 Subgrade Compaction 16' 13 to 14, 15 to 16, 17 to 18, 19 to 110, 111 to 112, and 113 to 114	h 16' 13 to 14 16' 13 to 14, 15	to 16, 17 to 18	18, 19 to 110, 11 1, 19 to 110, 111	11 to 112, and 113 to to 112, and 113 to 114	114	227.50 227.50	××	\$27.91 \$22.69	\$6,349.53 \$5,161.98
ROAD SEGMENT	17 to 12			POINT	POINT TO POINT	Sta.	Sta. to Sta.				
			Depth of	11	1 to 12	0+00 tc	0+00 to 112+00	∐ TOTAL	Rate/	Cost	
Application	Rock Size and Type	Location	Rock (inches)	Volu	Volume (CY)	Nu.	Number of	(CY) VOLUME	amt.		
Rock Filter	5	28+75, 78+00	N.A	Load	11	Loads .	2	22	\$8.25	\$182	
Bedding and Backfill	<u>a</u>	10+15, 56+00, 80+50, 86+00	N N	oad	ಚ	Loads	13	132	\$2.26	\$298	
Total Rock for Road Segment:	***************************************		11 to 12					154			\$480
ROAD SEGMENT	13 to 14			POINT	POINT TO POINT	Sta.	Sta. to Sta.				
			Depth of	ä	13 to 14	0+00 t	0+00 to 10+60	TOTAL	Rate/	င်း	
Application	Rock Size	l ocetion	Rock	√ 01⊔	Volume (CY)	NE	Number	VOLUME	Sta/		
Base Rock	4"-0" Crushed	0+00 to 10+60	4	Station	22	Stations	11	242	\$2.26	\$547	
Traction Rock	1 1/2"-0" Crushed	0+00 to 5+00	2	Station	11	Stations	5	55	\$2.26	\$124	
Landing	6"-0" tit Xun	2+60 7+00	N/A	Landing	n o	Landing	<u>.</u>	A 00	\$6.72	\$370	
Junctions	1 1/2"-0" Crushed	0+00	N/A	Junction	22	Junctions	-1	22	\$2.26	\$50	
Total Rock for Road Segment:			13 to 14				1	440			\$1,534
ROAD SEGMENT	9:02:6		Death of	- INIO-F	FOINT TO POINT	0+00 to	0+00 to 130+00	TOTAL	Rate/		
Application	RockSize		Rock	Volu	Volume (CY)	Nu	Number	VOLUME	Stal.	COSI	
Base Rock	1 1/2"-0" Crushed	0+00 to 59+00	3	Station	16	Stations	59	944	\$2.26	\$ 2,133	
Turnouts	1 1/2"-0" Crushed	N/A	N/A	Turnout	22	Turnouts	10	220	\$2.26	\$497	
Landing	6"-0" Pit- Run	121+50	N/A	Landing	55	Landing	1	: 55	\$6.72	\$370	
I ransition Rock	1 1/2"-0" Crushed	121+50, 127+30	N/A	Station	222	Stations	4	5 44 4 4	\$2.26	\$99	
Junctions	1 1/2"-0" Crushed	0+00	N N	Landing	22	Landing	_ _	23 83	\$2.26	\$50	
Total Rock for Road Segment:			15 to 16				ļ.	1,340			\$3,519
ROAD SEGMENT	17 to 18			TNIOG	POINT TO POINT	Sta.	Sta. to Sta.				
			Depth of	71	7 to 18	0+00 t	0+00 to 12+40	TOTAL	Rate/	Cost	
Application	Rock Size	- north	Rock	Volu	Volume (CY)		Number	VOLUME	a 5 5 5		
Base Rock	4"-0" Crushed	0+00 to 12+40	4	Station	22	Stations	13	286	\$2.26	\$646	
Traction Rock	1 1/2"-0" Crushed	0+00 to 3+00	N/A	Station	11	Stations	ω	33	\$2.26	\$75	
Turnouts	4"-0" Crushed	N/A	N/A	Turnout	22	Tumout	2	4	\$2.26	\$99	
Junctions	1 1/2"-0" Crushed	0+00	N/A	Junction	222	Juncuons	ــــــــــــــــــــــــــــــــــــــ	22	\$2.25	\$50	
Total Rock for Road Segment:	고구 지금	12+40	N/A	Landing	20	Landing	_	440	\$0.72	\$370	\$1.240
ROAD SEGMENT	19 to 110			POINT	POINT TO POINT	Sta.	Sta. to Sta.				
	16 mily (1887) with spirit solution	formation second sequences (Secondary	Depth of	61	19 to 110	0+00+0	0+00 to 34+50	TOTAL	Rate/	2	
Application	Rock Size	Constin	Rock	√оі́и	Volume (CY)	Z	Number	VOLUME	Sta/		
Base Rock	4"-0" Crushed	9+00 to 34+50	4	Station	22	Stations	25	572	\$2.26	\$1,293	
Subgrade Leveling	4"-0" Crushed	0+00 to 9+00	N/A	Station	11	Stations	4	44	\$2.26	\$99	
Turnouts	4"-0" Crushed	N/A	N/A	Turnout	22	Turnouts	8	176	\$2.26	\$398	
Junctions Total Book for Book Sagment:	4"-0" Crushed	0+00	NA A	Junction	22	Junctions	_	814	\$2.26	\$50	#1 84D
l otal Rock for Road Segment:			19 to 110					814			\$1,840

Base Rock
Traction Rock
Junctions
Turnouts
Landing
Landing Turnouts
Junctions
Total Rock for Road Segment Application Application Base Rock SUB TOTAL FOR SURFACING SUB TOTAL FOR SPECIAL PROJECTS SPECIAL PROJECTS Processing: Rock Size
and Type
and Type
4"-0" Crushed
1/1/2"-0" Crushed
4"-0" Crushed
4"-0" Crushed
6"-0" Pit-Run
6"-0" Pit-Run GRAND TOTAL Rock Size
and Type
4"-0" Crushed
4"-0" Crushed
4"-0" Crushed 113 to 114 11 to 112 Description
Water, Process & Compact: 13 to 14, 15 to 16, 17 to 18, 19 to 110, 111 to 112, 113 to 114, and 3A to 3B Location 0+00 to 5+70 N/A 0+00 Location 0+00 to 34+30 0+00 to 3+00 0+00 0+00 N/A 27+10 30+10 34+30 Depth of Rock (inches) 4 2 N/A N/A N N N Turnout Junction Station POINT TO POINT
111 to 112
Volume (CY) per 6'-0' pr 451 Description 2222 4"-0" crushed 11/2"-0" crushed Total 2,486 1,560 4,519 Stations
Turnouts
Junctions Turnouts
Landing
Landing
Landing Stations Stations Junctions Sta. to Sta. 0+00 to 34+30 Number Sta. to Sta 0+00 to 5+70 Number of pit-run development riprap development TOTAL VOLUME (CY) 770 33 22 TOTAL VOLUME (CY) 132 44 22 198 No.sta 339.50 8883 Cy/Amount 451 Rate/sta \$56.48 Rate/ Sta./ Sta./ amt. \$2.26 \$2.26 Rate/ Sta./ amt. \$2.26 \$2.26 \$2.26 \$2.26 \$6.72 \$6.72 Subtotal of Surfacing & Spec. Proj. Subtotal of Clearing, Exc., Culv. Cost \$19,175 Rate Cost \$2.92 \$1,316.92 \$4,83 \$0.00 \$1,740 \$75 \$50 \$249 \$370 \$370 \$298 \$99 Cost Cost \$3,222 \$45 \$54,277 \$1,317 \$50,981 \$3,296 \$49,665

CRUSHED ROCK COST

SALE NAME:	Vesper Bell			DATE:_	11/14/2018
PROJECT:	Nos. 1 and 2	MATERIAL:	Crushed	BY:	M. Dimick
QUARRY:	Vesper Stockpile				

QUARRY:	ve	sper Stock	pile											
Road	01-11	Cubic	Γ				ON	E W	AY HAUL IN	MILES				Total
Segment	Stations	Yards	50	MPH	30	MPH	25 N	ΛPΗ	20 MPH	15 MPH	10 MPH	5	MPH	Haul
11-12	72.95	132							1.32		0.05			1.37
13-14	100.67	319							1.32	0.48	0.10			1.90
15-16	69.95	1,230								1.32				1.32
17-18	40.53	201								0.64	0.12			0.76
19-110	32.10	814	<u> </u>							0.42	0.18			0.60
111-112	29.64	935	ļ							0.23	0.32			0.55
113-114	23.38	198	<u> </u>						4.00	0.23	0.20			0.43
3A-3B	102.44	176	ļ <u> </u>						1.32	0.48	0.13			1.93
			ļ											
			<u> </u>											
			<u> </u>											
			ļ											
								,						
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]
TOTAL	471.66	4,005	7											AVERAGE
	STA./NO.	CU. YD.	7											HAUL
CUBIC YAR									0.21	0.64	0.13	<u> </u>		0.97
									lverage Roι	ind Trip Dist	ance (miles)	1	.95	

ROCK HAUL:

Truck type:	D20	No. trucks:			
Delay min	8	Efficiency:	85%	Ave haul: \$1.68	/cy
•				Load: \$0.10	/cy
Truck type:	D12	No. trucks:	4	Spread: \$0.48	/cy
Delay min.:	6	Efficiency:	85%		
				5	4 504
Truck type:	D10	No. trucks: _		Production: cy/day =	1,504
Delay min.:	5	Efficiency:	85%		

CRUSHED ROCK HAUL COSTS 4,005 cy @

\$2.26 /cy

PIT RUN ROCK COST

SALE NAME:		Vesper Bell						Pit Run		DATE:	11	/14/2018
PROJECT: QUARRY:		Nos. 1 and 2 Viewpoint	2			MATE	RIAL:	Pit Run		BY:	<u>IV</u>	1. Dimick
Road		Cubic					ONE W	AY HAUL IN	I MILES			Total
Segment	Stations	Yards	50	мры	3በ	мрнІ		20 MPH		10 MPH	5 M	
I3-I4	409.50	121	30	3411 1 1	- 00	1411 1 1	7.60	20 1011 11	10 1411 11	0.14	<u> </u>	7.74
15-16	514.19	110					8.09	1.26	0.29	0.09		9.73
111-112	549.89	165					8.09	2.22	00	0.09		10.40
3A-3B	409.50	190					7.60	2.22		0.14		7.74
O/ (-OL)	100.00	100					1.00			V		
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									1			
	Ì											
TOTAL	1,883.08	586	1									AVERAGE
	STA./NO.	CU. YD.	1									HAUL
CUBIC YARD							6.3		0.1			7.26
							,	Average Rou	ind Trip Dista	ance (miles)	14.5	3

ROCK HAUL:

Truck type:	D20	No. trucks:			
Delay min.	8	Efficiency:	85%	Ave haul: \$5.40	/cy
				Load: \$0.48	/cy
Truck type:	D12	No. trucks:	8	Spread: \$0.84	/cy
Delay min	6	Efficiency:	85%		
Truck type:	D10	No. trucks:		Production: cy/day = 93	36
Delay min.:	5	Efficiency:	85%		

PIT RUN ROCK HAUL COSTS 586 cy @ \$6.72 /cy

RIP RAP ROCK COST

SALE NAME:		Vesper Vie	N									i	DATE:		11/14	/2018 imick
		Nos. 1				MATE	RIAL:	6"-4"					BY:		M. D	imick
QUARRY:		Viewpoint														
									4 2 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							1
Road	Stations	Cubic		1			ONE V	VAY H	AUL IN	MIL.	ES			_		Total
Segment		Yards	50 M	PH	30	MPH	25 MPI	1 20	MPH	15	MPH			5	MPH	
I1-I2	453.74	22					8.09					0	.50			8.59
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	L									 						4
TOTAL	450 74	- 22	4													AVERAGE
TOTAL	453.74	22	-													AVERAGE
	STA./NO.	CU, YD.		- 1			١									HAUL
CUBIC YARD	WEIGHTEL	HAUL					8.1	<u> </u>		L	=:-:).5			8.59
								Averag	je Kou	ınd ir	ip Dista	ance	(miles)	1	7.18	
BOOKER																
ROCK HAUL:																
		.				į.										
	Truck type:		No. truc			4	•									
	Delay min.	6	Efficier	ісу:	8	5%				haul:		.45	/cy			
										ad:		.80	/cy			
	Truck type:		No. true						Dev	relop:			_/cy			
	Delay min.	. 5	Efficier	icy:	8	5%										

Production: cy/day = 392

RIP RAP ROCK HAUL COSTS

22 cy @ \$8.25 /cy

Site Prep Appraisal

\$21,001.00	Grand Total =							
\$3,746.00	Sub lotal						*Cost includes separating tirewood	*Cost includes se
	-	+1000		4.1.1.00	4 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -			
\$1.780.00	\$330.00	\$20.00	155	\$1.450.00	\$1 160 00	25	>	·
\$1,126.00	\$430.00	\$20.00	19	\$696.00	\$1,160.00	12	ω	2
\$840.00	\$550.00	\$20.00	27	\$290.00	\$1,160.00	5	1	-1
Cost/Area	Cost/Area	Cost/Pile	Unit Piles	Cost/Area	yarded	landing	cable Landings	Sale Area
Total	Material	Material	Number of In-		\$ per 20 acres	acres to	Number of	
						Number of		
	\$17,200.00	Sub Fotal =						
	\$4,205.00	\$145.00	29	29	A	MC	З	
	\$5,365.00	\$145.00	37	37	Α	MC	2	
	\$7,685.00	\$145.00	53	53	Α	MC		
	Cost/Area	Cost/Hour	Hours/Area	Yarding Acres	Type/Zone	Harvest Type	Sale Area	
***************************************	Total		Piling	Ground Based	Veg			
			Estimated					
					F			
	0.5	1.0	m	Conifer/Hardwood				
	1.0	2.0	ם	Hemlock				
	1.0	2.0	C	Hemlock/Spruce		11/14/2018		Date:
	0.8	1.5	В	Hemlock/Fir		Vesper Bell		Sale Name:
···	0.5	1.0	А	Doug-fir		341-19-W00615-01	34	Sale Number:
M	Estimated Piles/Acre	Production Rate (hr/ac)	Vegetation Type/Zone Code	Vegetation Type/Zone				
	ATTENNAMENT OF THE PROPERTY OF	Saldayy Saldaya yang masaga papaga papaga na sasaga ya	SWAND CONTRACTOR STATE OF STAT	PARAMETER STANDARD ST				

Road Maintenance Cost Summary

Final Road Maintenance	Progressive Ops. 1st Entry	Type Progressive Operations 1st Entry Final Haul Maintenance Haul Route	Sale: Date: By:
Production Rates Grader Vibratory Roller	Production Rates Grader Vibratory Roller	Equipment/Rationale Grader 14G Dump Truck 12CY x 2 FE Loader C966 Vibratory Roller Grader 14G Dump Truck 12CY x 2 Vibratory Roller Water Truck 2,500 gallon FE Loader C966 Rubber Tire Backhoe Laborer	Vesper Bell 14-Nov-18 M. Dimick
Miles/day 1.5 1.5	Miles/day 1.5 1.5	Move in \$778 \$326 \$778 \$778 \$778 \$778 \$326 \$778 \$190 \$778 \$321 \$0	
Distance(miles) 6.5 6.5	Distance(miles) 1.0 1.0	Times Hours 1 16 2 8 1 8 1 36 1 18 1 18 1 18 1 18 1 18 1 18	
Days 4.3 4.3	Days 0.7	\$113 \$89 \$94 \$87 \$113 \$89 \$113 \$113 \$87 \$101 \$87 \$101 \$94 \$87 \$45	
		\$2,586 \$2,586 \$1,530 \$1,126 \$4,846 \$3,500 \$2,344 \$2,008 \$2,282 \$1,713 \$360	MBF:
		\$24,371	6,042 \$4.03

Vesper Bell TIMBER CRUISE REPORT FY 2019

1. Sale Area Location: Areas 1, 2, and 3 are located in portions of Sections 2, 3, 11, 12, 13, and 14, T6N, R6W, W.M., Clatsop County, OR.

2. Fund Distribution:

BOF 100%

Tax Code

8-01 (100%)

3. Sale Acreage by Area:

Area	Treatment	Gross Acres	Stream Buffer	Existing Surface Roads	New Road Construction	Net Acres	Survey Method
1	Modified Clearcut	68	2	8	-	58	GIS
2	Modified Clearcut	59	5	5	-	49	GIS
3	Modified Clearcut	64	5	4	1	54	GIS
4	R/W	1				1	GIS
TOTALS		192	12	17	1	162	

4. Cruisers and Cruise Dates:

The areas were cruised by Matt Dimick during November 2018.

5. Cruise Method and Computation:

Areas 1 and 2 are modified clearcut units and were variable plot cruised using a 40 BAF. These plots are located on a 5 chain by 4.5 chain grid, with 2 to 1 count plots to grade and measure plots. A total of 48 plots were sampled, with 19 graded plots, and 29 count plots.

Area 3 is a modified clearcut unit and was variable plot cruised using a 40 BAF. These plots are located on a 5 chain by 4.5 chain grid, with 2 to 1 count plots to grade and measure plots. A total of 20 plots were sampled, with 7 graded plots, and 13 count plots.

Data was collected on Allegro 2 data collectors, and downloaded to the Atterbury <u>Super A.C.E.</u> program for computing. See the attached <u>Cruise Design</u> for more details on the cruise method. The cruise calculations were processed in the Astoria district office.

AREA	CRUISE	TRACT	TYPE	<u>ACRES</u>
1 & 2	VESBELL	A12	TAKE	107
3	VESBELL	AREA 3	TAKE	54
4	VESBELL	ROW	TAKE	1

6. Timber Description:

Areas 1 and 2 are modified clearcut units, approximately 69 to 77 years-old, consisting of Douglas-fir and red alder. The average Douglas-fir tree size is 29.7 inches DBH, with an average bole height of 97 feet. The average red alder tree size 17.2 inches DBH with an average height of 42 feet to a merchantable top (7 inch d.o.b). The net volume per acre to be harvested is 35.2 MBF/acre.

Area 3 is a modified clearcut unit, approximately 69 to 77 years-old, consisting of Douglas-fir and western hemlock. The average Douglas-fir tree size is 21.2 inches DBH, with an average bole height of 74 feet. The average Helmock tree size is 24.0 inches DBH, with an average bole height of 84 feet. The net volume per acre to be harvested is 40.4 MBF/acre.

Area 4 R/W is similar to the timber description mentioned above in Area 3. The average volume per acre to be harvested is 40.4 MBF/acre.

7. Statistical Analysis and Stand Summary

Statistics for Stand B.F. volumes

Area	Estimated CV	Target SE%	Actual CV	Actual SE%
1 and 2	40.0	8%	34.3	4.9%
3	40.0	8%	38.1	8.7%

8. Volumes by Species and Log Grade:

Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

Conifer

Species	DBH	Net Vol. MBF	2 Saw	3 Saw	4 Saw	%D&B	% Sale
Douglas-fir	24.9	5,801	4,999	613	189	2.4%	96%
Hemlock	24.0	17	14	3	0	<1%	>1%

Hardwoods

Species	DBH	Net Vol. MBF	12"+	10-12"	8-10"	6-8"	% D & B	% Sale
Red Alder	17.2"	224	85	37	58	44	2.2%	4%

Species	Net Vol. MBF
Douglas-fir	5,801
Hemlock	17
Red alder	224
Total	6,042

9. Approvals:

Prepared by:

Matt Dimick

Date: 11/13/2018

Unit Forester Approval:

Date: 1/23/19

10. Attachments:

Cruise Designs and Maps - 6 pages

Volume Reports – 4 pages Statistics Report -4 pages Stand Table Summary – 1 page Log Stock Tables – 2 pages

CRUISE DESIGN ASTORIA DISTRICT

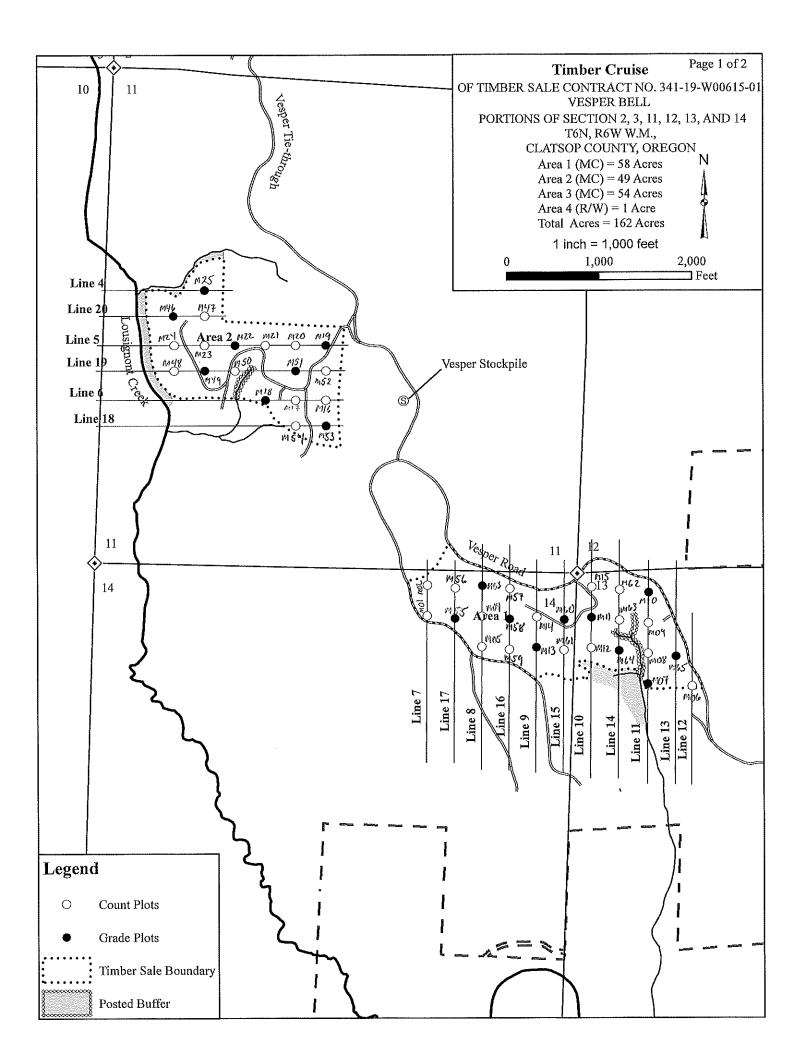
Sa	le Name: _	Vesper Bell	Area(s) _	1 a	nd 2	
На	rvest Type:	Modified Clearcu	<u>ıt</u>	Net BF or		
Аp	prox. Cruise	e Acres: <u>107</u> E	Estimated CV%			ti ve _9
Pla	anned Sale \	/olume: <u>3.5 M</u>	MBF Estimate	d Sale Are	a Value/Acre	<u>\$ 11,200.00</u>
Α.	Determine le	og grades for sale	nimum <u>60</u> tree value; Determine rvest parameters;		eave tree spe	cies and sizes;
B.	Record all c	ises: BAF <u>104</u> Cruise Line Cruise Line Cruise Plo Grade/Cou edar as leave. Re	_ Full point e Direction(s) N, is e Spacing 4.5 t Spacing 5 c unt Ratio 1:2 ecord all snags as	chains (29 hains (330 SN and red	Feet) cord diameter	& total height. If

C. Tree Measurements:

- 1. Diameter: Minimum DBH to cruise is 8" for conifers and 10" for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.
- 2. Bole Length: Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
- 3. Top Cruise Diameter (TCD): Minimum top outside bark is <u>7</u> " or <u>40</u>% of dob at 16' form point. Generally, use 7" outside bark for trees less than 18" dbh and 40% of dob @ FP for trees greater than 18" dbh.
- **4. Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; Hardwood form factors are a Standard 87.
- **5. Tree Segments:** Record log segments in "standard" 32" and 40' log lengths whenever possible. Do not record odd segments just to maximize grade. The maximum segment length is 40'.The minimum segment length is 12' for conifer and 8' for hardwoods. Minimum merchantable diameter for conifer is 8" dbh and 10" dbh for hardwoods. One foot of trim is assumed for each merchantable segment.

- 6. Species, Sort, and Grade Codes: A. Species: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple); DL(Douglas-fir over 30"dbh); HL(Western hemlock over 30" dbh); SL(Sitka spruce over 30" dbh); CL (Western red cedar over 30" dbh); NFL (Noble fir over 30" dbh); SFL (Silver fir over 30" dbh) B. Sort: Use code "1" (Domestic).
 C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; 0 = Cull Hardwoods: 12" + = 1 Sawmill; 10"-12" = 2 Sawmill; 10"-8" = 3 Sawmill; and 8"-6" 4 Sawmill; 0 = Cull.
- 7. **Deductions**: Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
- 8. Standard Field Procedures: Plot Type Cruises: Mark cruise line beginning and end points with <u>blue/yellow</u> flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie <u>yellow</u> flagging above eye level near plot center and another <u>yellow</u> flagging around a sturdy wooden stake marking plot center. On each <u>yellow</u> flagging, write the plot identification number. Between plots, along the cruise line, tie <u>blue</u> flagging at intervisible points. On "measure/grade" plots paint the tree diameter on each tree starting with the first tree right of the cruise line direction and continuing clockwise.
- **9. Cruising Equipment:** Relaskop, Rangefinder, Biltmore Stick, Compass, Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging.
- **10.Attachments:** A. <u>Cruise Map</u> (showing cruise unit boundaries, cruise lines and plot locations, BAF or plot size, measure/count plot ratio, north arrow, and scale bar.

Cruise Design	by:	Matt Dim	ick_	
Approved by:		7,		
Date:	/ // {	evited 1/	23/19	
		- 1		



CRUISE DESIGN ASTORIA DISTRICT

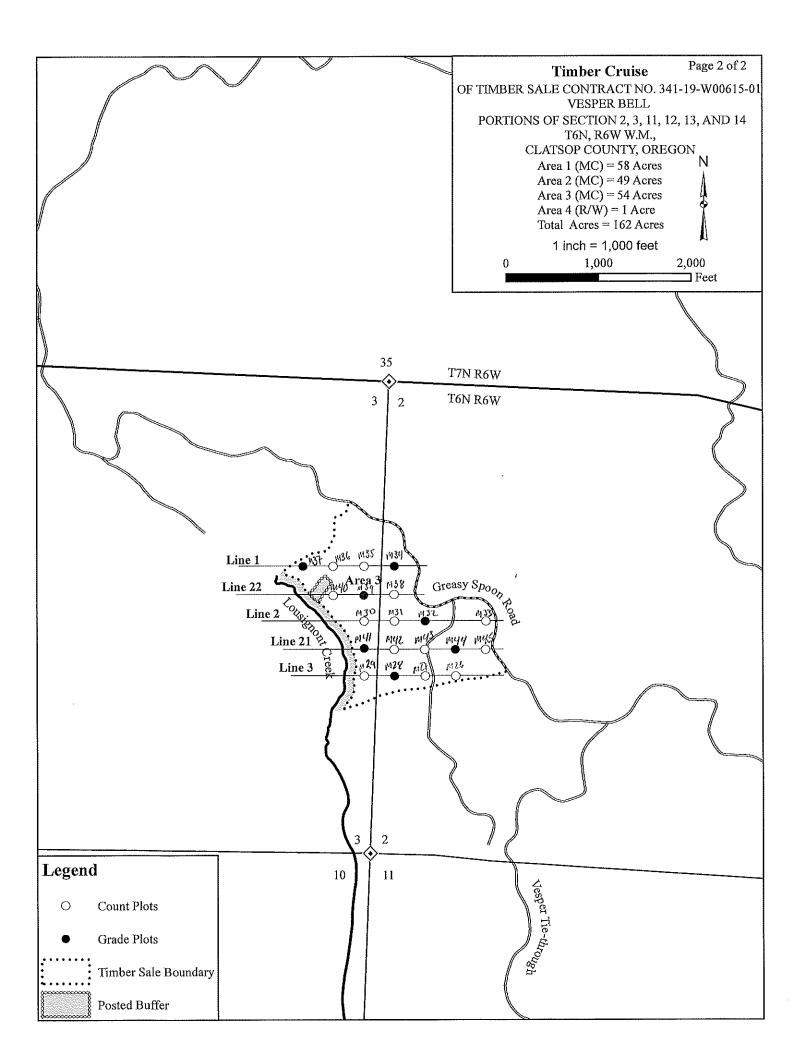
Sale Name: Vesper Bell Area(s)3	
Harvest Type: Modified Clearcut Net BF or	
Approx. Cruise Acres: 54 Estimated CV% 40 BA/Acre SE% Objective 9	
Planned Sale Volume: 2.1 MMBF Estimated Sale Area Value/Acre: \$ 16,100	.00
A. <u>Cruise Goals</u> : (a) Grade minimum <u>40</u> trees: Determine log grades for sale value; Determine snag and leave tree species and size Determine "diameter limit" harvest parameters;	∍s;
B. Cruise Design: 1. Plot Cruises: BAF 104 Full point Cruise Line Direction(s) N, S, E, W Cruise Line Spacing 4.5 chains (297 Feet) Cruise Plot Spacing 5 chains (330 Feet) Grade/Count Ratio 1:2 Record all cedar as leave. Record all snags as SN and record diameter & total heigh plot lands in buffer then offset at least ½ chain outside the buffer.	<u>nt. If</u>

C. Tree Measurements:

- 1. **Diameter:** Minimum DBH to cruise is <u>8</u>" for conifers and <u>10</u>" for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.
- 2. Bole Length: Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
- 3. Top Cruise Diameter (TCD): Minimum top outside bark is _7 " or _40% of dob at 16' form point. Generally, use 7" outside bark for trees less than 18" dbh and 40% of dob @ FP for trees greater than 18" dbh.
- **4. Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; Hardwood form factors are a Standard 87.
- 5. Tree Segments: Record log segments in "standard" 32" and 40' log lengths whenever possible. Do not record odd segments just to maximize grade. The maximum segment length is 40'. The minimum segment length is 12' for conifer and 8' for hardwoods. Minimum merchantable diameter for conifer is 8" dbh and 10" dbh for hardwoods. One foot of trim is assumed for each merchantable segment.

- 6. Species, Sort, and Grade Codes: A. Species: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple); DL(Douglas-fir over 30"dbh); HL(Western hemlock over 30" dbh); SL(Sitka spruce over 30" dbh); CL (Western red cedar over 30" dbh); NFL (Noble fir over 30" dbh); SFL (Silver fir over 30" dbh) B. Sort: Use code "1" (Domestic).
 C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; 0 = Cull Hardwoods: 12" + = 1 Sawmill; 10"-12" = 2 Sawmill; 10"-8" = 3 Sawmill; and 8"-6" 4 Sawmill: 0 = Cull.
- 7. **Deductions**: Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
- 8. Standard Field Procedures: Plot Type Cruises: Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at intervisible points. On "measure/grade" plots paint the tree diameter on each tree starting with the first tree right of the cruise line direction and continuing clockwise.
- **9. Cruising Equipment:** Relaskop, Rangefinder, Biltmore Stick, Compass, Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging.
- **10.Attachments:** A. <u>Cruise Map</u> (showing cruise unit boundaries, cruise lines and plot locations, BAF or plot size, measure/count plot ratio, north arrow, and scale bar.

Cruise Design	by: <u>Matt Dimick</u>
Approved by:	71 71.
Date:	1/23/19/ (Revised)
	



TC	PSPCSTGR		S	pecies,	Sort G	rade - Boar	d Foot V	olum	es (P	rojec	t)							
TT	6N RR6W SI 6N RR6W SI 6N RR6W SI	I TyTA	К	07.00 54.00 1.00		Project:	VESBE								Page Date Time	1/.	1 23/20 :00:0	
Spp	S So Gr Trt ad	% Net BdFt	Bd, F Def%	t. per Acre	e Net	Total Net MBF		f Net Boale Dia			me Log L 21-30		36.00	Li	Avera Dia In		g CF/ Lf	Logs Per /Acre
A A A A	DO1S DO2S DO3S DO4S	38 16 26 20	3.0	542 230 355 272	526 230 355 272	85 37 58 44	100 100 100	100	1/+	8 42	21-30	100 68 30	32 92 29	32 35 35 24	14 10 8 7	222 133 90 43	1.80 1.35 1.07	2.4 1.7 3.9 6.4
A 7	Fotals	4	1.2	1,399	1,383	224	62	38		10		55	35	30	9	96	1.11	14.
D D D D	DOCU DO2S DO3S DO4S	86 10 4	100.0 1.2 .2	526 31,225 3,789 1,167	30,859 3,782 1,167	4,999 613 189	90 100		72	0 5 49	2 13 15	5 54	92 28 35	28 38 32 23	33 17 9 8	505 100 44	0.00 2.85 0.93 0.66	61. 37 <i>.</i> 26.
D 7	Fotals	96	2.4	36,707	35,808	5,801	13	25	62	2	4	10	84	33	13	284	1.96	125.
Н Н	DO2S DO3S Totals	81 19 0		86 19	86 19 106	14 3	100						100 100	40 40 40	16 8		2.43 0.93 1.68	•
Tota	ls		2.4	38,213	37,297	6,042	15	26	59	3	4	12	82	33	12	265	1.88	140.3

Т	TSPCSTG	R			Species,	Sort G Projec	rade - Boar t: VES	d Foot V	/olui	mes (T	Гуре)		,		Pag Da Tin	te 1	1 /23/20 1:00:5	
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			%					Percent	Net B	oard Fo	ot Vol	ıme			Avera	ige Log	5	Logs
Spp		Gr ad	Net BdFt	Bd. Def%	Ft. per Ac Gross	ere Net	Total Net MBF	Log So 4-5 6-1		ia. 6 17+	Log 12-20	Ler 21-30	_	36-99	Ln Die Ft In	Bd Ft	CF/ Lf	Per /Acre
D	DO	CU		0.00	563										35 31		0.00	.4
D	DO	2\$	90	1.4	30,873	30,453	3,258		18	82	1	2	5	92	38 19	596	3.30	51.1
D	DO	38	8	.4	2,731	2,719	291	79	21		8	22	42	28	30 10	106	1.08	25,6
D	DO	48	2		454	454	49	100			64	36			19 8	45	0.75	10.1
D	Totals	• •	94	2.9	34,620	33,626	3,598	8	18	74	2	4	8	85	34 15	385	2,53	87.2
Α	DO	1S	38	3.0	821	797	85		100				100		32 14	222	1.80	3,6
Α	DO	28	16		348	348	37	100					68	32	35 10	133	1.35	2,6
A	DO	38	26		538	538	58	100			8			92	35 8	90	1.07	6.0
Α	DO	48	20		412	412	44	100			42		30	29	24 7	43	0.71	9.7
A	Totals		6	1.2	2,119	2,094	224	62	38		10		55	35	30 9	96	1.11	21.8
Туре	Totals			2.8	36,739	35,720	3,822	11	19	70	3	4	11	82	33 14	327	2.27	109.1

т 7	FSPCSTG	R			Species,	Sort G Projec	rade - Boar t: VES	d Foot V BELL	oluı	nes (T	Гуре)				Pag Da Tin	e 1	1 /23/20 :01:0	
TT6N Twj T6N			Sec	Tract REA 3		Type TAF		00 20)		le Trees 42		C 1	uFt	BdFt W			FTAKE
Spp		Gr ad	% Net BdFt	Bd. Def%	Ft. per Ac Gross	ere Net	Total Net MBF	Percent 1 Log Sc 4-5 6-11	ale D			Len		36-99	Avera Ln Dia Ft In	ige Log Bd Ft	CF/ Lf	Logs Per /Acre
D D D	DO DO DO	CU 2S 3S	79 14	00.00 .8	454 31,910 5,848	31,650 5,848	1,709 316	100	47	53	0	2 5	4 64	94 29	15 38 39 16 34 9	394 95	0.00 2.31 0.82	.5 80.4 61.5
D D	DO Totals	4S	7	1.8	2,556 40,768	2,556 40,054	138 2,163	100	37	42	44	8	13	48 81	25 7 33 11	43 199		58.9 201.2
H H	DO DO	2S 3S	81 19		255 57	255 57	14 3	100	100					100 100	40 16 40 8	400 90	2.43 0.93	.6 .6
H Type T	Totals		1	1.7	312 41,080	312 40,366	17 2,180	18 21	82 37	42	3	3	13	100 81	40 12 33 11	245 199	1.68 1.48	1,3 202.5

Т	SPCSTG	R			Species,	Sort G Projec	rade - Boar t: VES	d Foot V BELL	olu1	nes (T	Гуре)					Page Date Time	1	1 /23/20 :01:1	
TT6N Twj T6N	Rg		TAKE Sec 11 F	Tract ROW		Туре ТАР				Samp	le Trees 42	•	C 1	uFt	TT Bd W		RR6W	S11 T	ГТАКЕ
			%					Percent 1	Net B	oard Fo	ot Volu	me			A	verag	ge Log		Logs
Spp	S So T rt	Gr ad	Net BdFt	Bd. Def%	Ft. per Ac Gross	ere Net	Total Net MBF	Log Sc 4-5 6-11		ia. 6 17+	Log	Len 21-30	_	36-99	Ln Ft	Dia In	Bd Ft	CF/ Lf	Per /Acre
D	DO	CU		00.0	454										15	38		0.00	.5
D	DO	2S	79	.8	31,910	31,650	32		47	53	0	2	4	94	39	16	394	2.31	80.4
D	DO	3S	14		5,848	5,848	6	100			1	5	64	29	34	9	95	0.82	61.5
D	DO	4S	7		2,556	2,556	3	100			44	8		48	25	7	43	0.64	58.9
D	Totals		99	1.8	40,768	40,054	40	21	37	42	3	3	13	81	33	11	199	1,48	201.2
Н	DO	2S	81		255	255	0		100			•		100	40	16	400	2.43	.6
H	DO	3S	19		57	57	0	100						100	40	8	90	0.93	.6
Н	Totals		1		312	312	0	18	82					100	40	12	245	1.68	1,3
Туре Т	otals	***		1.7	41,080	40,366	40	21	37	42	3	3	13	81	33	11	199	1,48	202.5

TC PS	TATS		PAGE DATE	1 1/23/2019								
TWP	RGE	SC	TRACT	,	ГҮРЕ		A(CRES	PLOTS	TREES	CuFt	BdFt
T6N T6N T6N	R6 R6W R6W	11 A12 11 AREA 3 11 ROW		•	ΓΑΚΕ ΓΑΚΕ ΓΑΚΕ			162.00	88	452	1	W
1014	Row	11	ROW		ITAL	TREES		ESTIMATED TOTAL		ERCENT SAMPLE		
		I	PLOTS	TREES		PER PLOT	•	TREES		TREES		*****
TOTA	AL.		88	452		5.1						
	ISE COUNT DREST		33	162		4.9		10,455		1.5		
COU BLAI 100 %	NKS		55	290		5.3						
					STA	ND SUM	MARY					
			AMPLE FREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOU	G FIR		150	53,4	24.9	83	36.2	180.7	36,707	35,808	8,324	8,225
R AL	DER		10	10.9	17.2	42	4.2	17.6	1,399	1,383	476	476
WHE	MLOCK		2	.2	24.0	84	0.1	.7	106	106	29	29
TOT	AL		162	64.5	23.8	76	40.8	199.0	38,213	37,297	8,828	8,730
CON				THE SAMPI		13.4D2 137H I	ne we	א יס לפו זייני זאנו זו	MI E EDDA)D		
	68						BE WIT	HIN THE SAN		OR TREES	REQ.	INF. POP.
	68		TIMES OU		HE VOLU						REO. 10	INF. POP.
CL SD:	68.1		COEFF VAR.% 75.8	S.E.% 6.2	HE VOLU	SAMPI	E TREE AVG 1,004	S - BF HIGH 1,066		OF TREES		
CL SD: DOU R AL	68.1 1.0 G FIR .DER		COEFF VAR.%	T OF 100 TI S.E.%	HE VOLU	SAMPI LOW 942 123	E TREE AVG 1,004 154	S - BF HIGH 1,066 185		OF TREES		
CL SD: DOU R AL WHE	68.1 1.0 G FIR DER		COEFF VAR.% 75.8 61.4	S.E.% 6.2 20.4	HE VOLU	SAMPI .OW 942 123 490	E TREE AVG 1,004 154 490	S - BF HIGH 1,066 185 490		OF TREES 5	10	15
CL SD: DOU R AL	68.1 1.0 G FIR DER		COEFF VAR.% 75.8	S.E.% 6.2	HE VOLU	SAMPI LOW 942 123	E TREE AVG 1,004 154	S - BF HIGH 1,066 185		OF TREES		
CL SD: DOU R AL WHE	68.1 1.0 G FIR DER		COEFF VAR.% 75.8 61.4	S.E.% 6.2 20.4	HE VOLU	SAMPI .OW 942 123 490 885 TREES	AVG 1,004 154 490 945	S - BF HIGH 1,066 185 490	#	OF TREES 5 260 OF PLOTS	65 REO.	29 INF. POP.
CL SD: DOU R AL WHE TOT CL SD:	68.1 1.0 G FIR DER EMLOCK AL 68.1 1.0		COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.%	S.E.% 6.2 20.4 6.3 S.E.%	HE VOLU	SAMPI .OW 942 123 490 885 TREES	E TREE AVG 1,004 154 490 <i>945</i> /ACRE AVG	S - BF HIGH 1,066 185 490 1,005	#	OF TREES 5	65	29
CL SD: DOU R AL WHE TOT CL SD:	68.1 1.0 G FIR DER EMLOCK AL 68.1 1.0 G FIR		COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9	S.E.% 6.2 20.4 6.3 S.E.% 12.9	HE VOLU	SAMPI .OW 942 123 490 885 TREES .OW 47	AVG 1,004 154 490 945 /ACRE AVG 53	S - BF HIGH 1,066 185 490 1,005 HIGH	#	OF TREES 5 260 OF PLOTS	65 REO.	29 INF. POP.
CL SD: DOU R AL WHE TOT CL SD: DOU R AL	68.1 1.0 G FIR DER EMLOCK AL 68.1 1.0 G FIR DER		COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0	HE VOLU	SAMPI .OW 942 123 490 885 TREES .OW 47 8	AVG 1,004 154 490 945 /ACRE AVG 53 11	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14	#	OF TREES 5 260 OF PLOTS	65 REO.	29 INF. POP.
CL SD: DOU R AL WHE TOT CL SD: DOU R AL	68.1 1.0 G FIR DER MLOCK AL 68.1 1.0 G FIR DER EMLOCK		COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9	S.E.% 6.2 20.4 6.3 S.E.% 12.9	HE VOLU	SAMPI .OW 942 123 490 885 TREES .OW 47	AVG 1,004 154 490 945 /ACRE AVG 53	S - BF HIGH 1,066 185 490 1,005 HIGH	#	OF TREES 5 260 OF PLOTS	65 REO.	29 INF. POP.
CL SD: DOU R AL WHE TOT CL SD: DOU R AL WHE	68.1 1.0 G FIR DER MLOCK AL 68.1 1.0 G FIR DER EMLOCK		COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0 921.0	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0 98.1	HE VOLU	SAMPI .OW 942 123 490 885 TREES .OW 47 8 0 57	AVG 1,004 154 490 945 /ACRE AVG 53 11 0	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14 0 72	#	OF TREES 5 260 OF PLOTS 5	65 REO. 10	29 INF. POP. 15
CL SD: DOU R AL WHE TOT CL SD: DOU R AL WHE	68.1 1.0 G FIR DER EMLOCK AL 68.1 1.0 G FIR DER EMLOCK AL		COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0 921.0 105.6	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0 98.1	I.	SAMPI .OW 942 123 490 885 TREES .OW 47 8 0 57	AVG 1,004 154 490 945 /ACRE AVG 53 11 0 65	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14 0 72	#	OF TREES 5 260 OF PLOTS 5	65 REO. 10	29 INF. POP. 15 49 INF. POP.
CL SD: DOU R AL WHE TOT CL SD: DOU R AL WHE TOT CL SD: DOU	68.1 1.0 G FIR DER MLOCK AL 68.1 1.0 G FIR DER MLOCK AL 68.1 1.0 G FIR G FIR G FIR		COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0 921.0 105.6 COEFF VAR.% 79.4	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0 98.1 11.2 S.E.% 8.5	I.	SAMPI .OW 942 123 490 885 TREES .OW 47 8 0 57 BASAL	AVG 1,004 154 490 945 /ACRE AVG 53 11 0 65 AREA/A	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14 0 72 ACRE HIGH 196	#	OF TREES 5 260 OF PLOTS 5 445 OF PLOTS	65 REQ. 10 111 REQ.	29 INF. POP. 15 49 INF. POP.
CL SD: DOU R AL WHE TOT CL SD: DOU R AL WHE TOT CL SD: DOU R AL	68.1 1.0 G FIR DER EMLOCK AL 68.1 1.0 G FIR DER EMLOCK AL 68.1 1.0 G FIR DER EMLOCK AL 68.1 1.0 G FIR DER	.1	COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0 921.0 105.6 COEFF VAR.% 79.4 283.4	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0 98.1 11.2 S.E.% 8.5 30.2	I.	SAMPI .OW 942 123 490 885 TREES .OW 47 8 0 57 BASAL .OW 165 12	AVG 1,004 154 490 945 /ACRE AVG 53 11 0 65 AREA/A AVG 181 18	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14 0 72 ACRE HIGH 196 23	#	OF TREES 5 260 OF PLOTS 5 445 OF PLOTS	65 REQ. 10 111 REQ.	29 INF. POP. 15 49 INF. POP.
CL SD: DOU R AL WHE TOT CL SD: DOU R AL WHE TOT CL SD: WHE TOT CL SD: WHE TOT	68.1 1.0 G FIR DER MLOCK AL 68.1	.1	COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0 921.0 105.6 COEFF VAR.% 79.4 283.4 921.0	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0 98.1 11.2 S.E.% 8.5 30.2 98.1	I.	SAMPI LOW 942 123 490 885 TREES LOW 47 8 0 57 BASAL LOW 165 12 0	AVG 1,004 154 490 945 /ACRE AVG 53 11 0 65 AREA/A AVG 181 18	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14 0 72 ACRE HIGH 196 23 1	#	OF TREES 5 260 OF PLOTS 5 445 OF PLOTS 5	65 REO. 10 III REO. 10	29 INF. POP. 15 49 INF. POP.
CL SD: DOU R AL WHE TOT CL SD: DOU R AL WHE TOT CL SD: DOU R AL	68.1 1.0 G FIR DER MLOCK AL 68.1	.1	COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0 921.0 105.6 COEFF VAR.% 79.4 283.4	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0 98.1 11.2 S.E.% 8.5 30.2	I.	SAMPI .OW 942 123 490 885 TREES .OW 47 8 0 57 BASAL .OW 165 12	AVG 1,004 154 490 945 /ACRE AVG 53 11 0 65 AREA/A AVG 181 18	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14 0 72 ACRE HIGH 196 23	#	OF TREES 5 260 OF PLOTS 5 445 OF PLOTS 5	10 65 REQ. 10 111 REQ. 10	29 INF. POP. 15 49 INF. POP. 15
CL SD: DOU R AL WHE TOT CL SD: DOU R AL WHE TOT CL SD: CL CL CL CL	68.1 1.0 G FIR DER MLOCK AL 68.1	.1	COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0 921.0 105.6 COEFF VAR.% 79.4 283.4 921.0 73.8 COEFF	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0 98.1 11.2 S.E.% 8.5 30.2 98.1 7.9	HE VOLU	SAMPI .OW 942 123 490 885 TREES .OW 47 8 0 57 BASAL .OW 165 12 0 183 NET BI	AVG 1,004 154 490 945 /ACRE AVG 53 11 0 65 AREA/A AVG 181 18 1 199	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14 0 72 ACRE HIGH 196 23 1 215	#	OF TREES 5 260 OF PLOTS 5 445 OF PLOTS 5	10 65 REQ. 10 111 REQ. 10 54 REQ.	29 INF. POP. 15 INF. POP. 24 INF. POP.
CL SD: DOU R AL WHE TOT CL SD: DOU R AL WHE TOT CL SD: CL SD: CL SD: CL SD: CL SD: CL SD:	68.1 1.0 G FIR DER MLOCK AL 68.1 1.0	.1	COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0 921.0 105.6 COEFF VAR.% 79.4 283.4 921.0 73.8 COEFF VAR.%	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0 98.1 11.2 S.E.% 8.5 30.2 98.1 7.9 S.E.%	HE VOLU	SAMPI .OW 942 123 490 885 TREES .OW 47 8 0 57 BASAL .OW 165 12 0 183 NET BI	AVG 1,004 154 490 945 ACRE AVG 53 11 0 65 AREA/A AVG 181 18 1 199 F/ACRE AVG	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14 0 72 ACRE HIGH 196 23 1 215	#	OF TREES 5 260 OF PLOTS 5 445 OF PLOTS 5	10 65 REQ. 10 111 REQ. 10	29 INF. POP. 15 49 INF. POP. 15
CL SD: DOU R AL WHE TOT CL SD: DOU R AL WHE TOT CL SD: DOU	68.1 1.0 G FIR DER EMLOCK AL 68.1 1.0 G FIR DER EMLOCK AL 68.1 1.0 G FIR DER EMLOCK AL 1.0 G FIR DER EMLOCK AL 1.0 G FIR DER EMLOCK AL 68.1 1.0 G FIR	.1	COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0 921.0 105.6 COEFF VAR.% 79.4 283.4 921.0 73.8 COEFF VAR.%	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0 98.1 11.2 S.E.% 8.5 30.2 98.1 7.9 S.E.% 7.6	HE VOLU	SAMPI .OW 942 123 490 885 TREES .OW 47 8 0 57 BASAL .OW 165 12 0 183 NET BI	AVG 1,004 154 490 945 ACRE AVG 53 11 0 65 AREA/A AVG 181 18 1 199 F/ACRE AVG 35,808	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14 0 72 ACRE HIGH 196 23 1 215	#	OF TREES 5 260 OF PLOTS 5 445 OF PLOTS 5	10 65 REQ. 10 111 REQ. 10 54 REQ.	29 INF. POP. 15 INF. POP. 24 INF. POP.
CL SD: DOU R AL WHE TOT	68.1 1.0 G FIR DER MLOCK AL 68.1 1.0	.1	COEFF VAR.% 75.8 61.4 80.7 COEFF VAR.% 120.9 291.0 921.0 105.6 COEFF VAR.% 79.4 283.4 921.0 73.8 COEFF VAR.%	S.E.% 6.2 20.4 6.3 S.E.% 12.9 31.0 98.1 11.2 S.E.% 8.5 30.2 98.1 7.9 S.E.%	HE VOLU	SAMPI .OW 942 123 490 885 TREES .OW 47 8 0 57 BASAL .OW 165 12 0 183 NET BI	AVG 1,004 154 490 945 ACRE AVG 53 11 0 65 AREA/A AVG 181 18 1 199 F/ACRE AVG	S - BF HIGH 1,066 185 490 1,005 HIGH 60 14 0 72 ACRE HIGH 196 23 1 215	#	OF TREES 5 260 OF PLOTS 5 445 OF PLOTS 5	10 65 REQ. 10 111 REQ. 10 54 REQ.	29 INF. POP. 15 INF. POP. 15 24 INF. POP.

TC TSTATS					ST PROJE	ATIST		PAGE 1 DATE 1/23/2019			
TWP RGE	SECT	TRACT	1		TYPE		VESBELL RES	PLOTS	TREES	CuFt	BdFt
T6N R6W	11	A12			TAKE		107.00	48	216	1	W
					TREES		ESTIMATED FOTAL		ERCENT AMPLE		
	PLOTS	TF	REES		PER PLOT		TREES	Ti	REES		
TOTAL	48				4.5				·		
CRUISE	19	}	78		4.1		5,171		1.5		
DBH COUNT											
REFOREST											
COUNT	29)	138		4.8						
BLANKS											
100 %											
				STA	ND SUMI	MARY					
	SAMPLE	E TRE	EES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/AC	RE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	(58	31.8	29.7	97	28.1	153.3	34,620	33,626	7,515	7,405
R ALDER	1	10	16.6	17.2	42	6.4	26.7	2,119	2,094	720	720
CONFIDENC	ZE LIMITS		48.3 SAMPL	<i>26.1</i> E	78 WILL BE	35.2 WITHIN	180.0 THE SAMP	<i>36,739</i> LE ERROR	35,720	8,235	8,125
CONFIDENC	ZE LIMITS TIMES O	OF THE S	48.3 SAMPL	<i>26.1</i> E	WILL BE		THE SAMP	LE ERROR	35,720 OF TREES		8,125 INF. POP.
CONFIDENCE 68.1	ZE LIMITS TIMES O	OF THE S UT OF 10 EFF	48.3 SAMPL	<i>26.1</i> E VOLUME	WILL BE	WITHIN E TREES AVG	THE SAMP	LE ERROR			INF. POP.
CL: 68.1 % SD: 1.0 DOUG FIR	CE LIMITS TIMES O CO: VA 56	OF THE S UT OF 10 EFF R.% S	48.3 SAMPLI 0 THE V S.E.% 6.9	26.1 E VOLUME L	WILL BE SAMPL DW 1,294	E WITHIN E TREES AVG 1,390	THE SAMP	LE ERROR	OF TREES	REO.	INF. POP.
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER	CE LIMITS TIMES O CO VA 56	OF THE S UT OF 10 EFF R.% S 5.8	48.3 SAMPLE 0 THE V S.E.% 6.9 20.4	26.1 E VOLUME	SAMPL OW 1,294 123	E WITHIN E TREES AVG 1,390 154	THE SAMP 6 - BF HIGH 1,486 185	LE ERROR	OF TREES 5	REO. 10	INF. POP.
CL: 68.1 % SD: 1.0 DOUG FIR	CE LIMITS TIMES O CO: VA 56	OF THE S UT OF 10 EFF R.% S 5.8	48.3 SAMPLI 0 THE V S.E.% 6.9	26.1 E VOLUME	WILL BE SAMPL DW 1,294	E WITHIN E TREES AVG 1,390	THE SAMP	LE ERROR	OF TREES	REO.	INF. POP.
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 %	CE LIMITS TIMES O CO: VA 56 61 68	OF THE S UT OF 10 EFF R.% S 5.8	48.3 SAMPLE 0 THE V S.E.% 6.9 20.4	26.1 E VOLUME L	WILL BE SAMPL DW 1,294 123 7,136 TREES	E TREES AVG 1,390 154 1,231	THE SAMP 6 - BF HIGH 1,486 185	LE ERROR #	OF TREES 5	REO. 10	INF. POP.
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0	CO VA	OF THE S UT OF 10 EFF R.% S i.8 .4 .8 EFF	48.3 SAMPL 0 THE V S.E.% 6.9 20.4 7.8 S.E.%	26.1 E VOLUME L	WILL BE SAMPI OW 1,294 123 1,136 TREES	E TREES AVG 1,390 154 1,231 (ACRE AVG	THE SAMP 6 - BF HIGH 1,486 185 1,327 HIGH	LE ERROR #	OF TREES 5 189	REO. 10	INF. POP. 15 21 INF. POP.
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR	CE LIMITS TIMES O CO VA 56 61 68 CO VA 43	OF THE S UT OF 10 EFF R.% S 5.8 .4 .8 EFF R.% S	48.3 SAMPL: 0 THE V S.E.% 6.9 20.4 7.8 S.E.% 6.2	26.1 E VOLUME L	WILL BE SAMPL DW 1,294 123 1,136 TREES DW 30	E TREES AVG 1,390 154 1,231 ACRE AVG 32	THE SAMP 6 - BF HIGH 1,486 185 1,327 HIGH 34	LE ERROR #	OF TREES 5 189 OF PLOTS	REO. 10 47 REO.	INF. POP. 15
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER	CE LIMITS TIMES O VA 56 61 68 CO VA 43 204	OF THE S UT OF 10 EFF R.% S 5.8 4 8 EFF R.% S	48.3 SAMPLI 0 THE V 6.9 20.4 7.8 S.E.% 6.2 29.6	26.1 E VOLUME L	WILL BE SAMPL DW 1,294 123 7,136 TREES DW 30 12	E TREES AVG 1,390 154 1,231 ACRE AVG 32 17	THE SAMP 5 - BF HIGH 1,486 185 1,327 HIGH 34 21	LE ERROR #	OF TREES 5 189 OF PLOTS 5	REO. 10 47 REQ. 10	INF. POP. 15 21 INF. POP. 15
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL	CE LIMITS TIMES O VA 56 61 68 CO VA 43 204	OF THE S UT OF 10 EFF R.% S 5.8 .4 .8 EFF R.% S 3.1	48.3 SAMPL: 0 THE V S.E.% 6.9 20.4 7.8 S.E.% 6.2	26.1 E VOLUME L	WILL BE SAMPL DW 1,294 123 7,136 TREES DW 30 12 44	E TREES AVG 1,390 154 1,231 ACRE AVG 32 17 48	THE SAMP 3 - BF HIGH 1,486 185 1,327 HIGH 34 21 53	LE ERROR #	OF TREES 5 189 OF PLOTS 5	REO. 10 47 REO. 10	INF. POP. 15 21 INF. POP. 15
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % CL: 68.1 %	70 CE LIMITS OCO VA 56 61 68 CO VA 43 204 66 CO	OF THE S UT OF 10 EFF R.% S 5.8 .4 .8 EFF R.% S 1.1 1.9 .3	48.3 SAMPLI 0 THE V 6.9 20.4 7.8 S.E.% 6.2 29.6 9.6	26.1 E VOLUME L	WILL BE SAMPL DW 1,294 123 7,136 TREES DW 30 12 44 BASAL	E TREES AVG 1,390 154 1,231 ACRE AVG 32 17 48 AREA/A	THE SAMP 3 - BF HIGH 1,486 185 1,327 HIGH 34 21 53 CRE	LE ERROR #	OF TREES 5 189 OF PLOTS 5 176 OF PLOTS	REO. 10 47 REO. 10 44 REO. 10	INF. POP. 15 21 INF. POP. 15 20 INF. POP.
CONFIDENCE 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL	CO VA 43 204 666 CO VA	OF THE S UT OF 10 EFF R.% S 3.8 .4 .8 EFF R.% S 3.1 1.9 .3 EFF	48.3 SAMPLI 0 THE V 6.9 20.4 7.8 S.E.% 6.2 29.6 9.6	26.1 E VOLUME L	SAMPL DW 1,294 123 7,136 TREES DW 30 12 44 BASAL DW	E TREES AVG 1,390 154 1,231 (ACRE AVG 32 17 48 AREA/A AVG	THE SAMP 3 - BF HIGH 1,486 185 1,327 HIGH 34 21 53 CRE HIGH	LE ERROR #	OF TREES 5 189 OF PLOTS 5	REO. 10 47 REO. 10	INF. POP. 15 21 INF. POP. 15
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % DOUG FIR R ALDER TOTAL	70 CO VA 43 204 666 CO VA 38	OF THE S UT OF 10 EFF R.% S 3.8 .4 .8 EFF R.% S 3.1 1.9 .3 EFF R.% S	48.3 SAMPLI 0 THE V 6.9 20.4 7.8 S.E.% 6.2 29.6 9.6 S.E.% 5.6	26.1 E VOLUME L	SAMPL DW 1,294 123 7,136 TREES DW 30 12 44 BASAL DW 145	E TREES AVG 1,390 154 1,231 ACRE AVG 32 17 48 AREA/A AVG 153	THE SAMP 3 - BF HIGH 1,486 185 1,327 HIGH 34 21 53 CRE HIGH 162	LE ERROR #	OF TREES 5 189 OF PLOTS 5 176 OF PLOTS	REO. 10 47 REO. 10 44 REO. 10	INF. POP. 15 21 INF. POP. 15 20 INF. POP.
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 CL: 68.1 % SD: 1.0	CO VA 43 204 666 CO VA	OF THE S UT OF 10 EFF R.% S 6.8 .4 .8 EFF R.% S 6.1 1.9 .3 EFF R.% S 8.6 8.9	48.3 SAMPLI 0 THE V 6.9 20.4 7.8 S.E.% 6.2 29.6 9.6	26.1 E VOLUME L	SAMPL DW 1,294 123 7,136 TREES DW 30 12 44 BASAL DW	E TREES AVG 1,390 154 1,231 (ACRE AVG 32 17 48 AREA/A AVG	THE SAMP 3 - BF HIGH 1,486 185 1,327 HIGH 34 21 53 CRE HIGH	LE ERROR #	OF TREES 5 189 OF PLOTS 5 176 OF PLOTS	REO. 10 47 REO. 10 44 REO. 10	INF. POP. 15 21 INF. POP. 15 20 INF. POP.
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL	700 CO. VA. 56 61 68 CO. VA. 43 204 66 CO. VA. 38 198 33	OF THE S UT OF 10 EFF R.% S 6.8 .4 .8 EFF R.% S 6.1 1.9 .3 EFF R.% S 8.6 8.9	48.3 SAMPLI 0 THE V 6.9 20.4 7.8 S.E.% 6.2 29.6 9.6 S.E.% 5.6 28.7	26.1 E VOLUME L	WILL BE SAMPL DW 1,294 123 7,136 TREES DW 30 12 44 BASAL DW 145 19 171	E TREES AVG 1,390 154 1,231 ACRE AVG 32 17 48 AREA/A AVG 153 27 180	THE SAMPI 5 - BF HIGH 1,486 185 1,327 HIGH 34 21 53 CRE HIGH 162 34	LE ERROR #	OF TREES 5 189 OF PLOTS 5 176 OF PLOTS 5	REO. 10 47 REO. 10 44 REO. 10	INF. POP. 15 21 INF. POP. 15 20 INF. POP. 15
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 CL: 68.1 % SD: 1.0 CL: 68.1 %	CO VA 38 198 33 CO	OF THE S UT OF 10 EFF R.% S 6.8 .4 .8 EFF R.% S 6.1 1.9 .3 EFF R.% S 6.6 8.9 .7	48.3 SAMPLI 0 THE V 6.9 20.4 7.8 S.E.% 6.2 29.6 9.6 S.E.% 5.6 28.7 4.9	26.1 E VOLUME	SAMPL DW 1,294 123 7,136 TREES DW 30 12 44 BASAL DW 145 19 171 NET BI	E TREES AVG 1,390 154 1,231 ACRE AVG 32 17 48 AREA/A AVG 153 27 180	THE SAMPI 5 - BF HIGH 1,486 185 1,327 HIGH 34 21 53 CRE HIGH 162 34	LE ERROR #	OF TREES 5 189 OF PLOTS 5 176 OF PLOTS 5 45 OF PLOTS	REO. 10 47 REO. 10 44 REO. 10 11 REO.	INF. POP. 15 21 INF. POP. 15 20 INF. POP. 15
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL	CO VA 38 33 CO VA	OF THE S UT OF 10 EFF R.% S 6.8 .4 .8 EFF R.% S 6.1 1.9 .3 EFF R.% S 6.6 8.9 .7	48.3 SAMPLI 0 THE V 6.9 20.4 7.8 S.E.% 6.2 29.6 9.6 S.E.% 5.6 28.7	26.1 E VOLUME L	SAMPL DW 1,294 123 7,136 TREES DW 30 12 44 BASAL DW 145 19 171 NET BI	E TREES AVG 1,390 154 1,231 ACRE AVG 32 17 48 AREA/A AVG 153 27 180	THE SAMP 3 - BF HIGH 1,486 185 1,327 HIGH 34 21 53 CRE HIGH 162 34 189	LE ERROR #	OF TREES 5 189 OF PLOTS 5 176 OF PLOTS 5	REO. 10 47 REO. 10 44 REO. 10	INF. POP. 15 21 INF. POP. 15 20 INF. POP. 15
CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER TOTAL	CO VA 38 33 CO VA	OF THE S UT OF 10 EFF R.% S 5.8 .4 .8 EFF R.% S 6.1 1.9 .3 EFF R.% S 6.6 3.9 .7 EFF R.% S	48.3 SAMPLI 0 THE V 6.9 20.4 7.8 S.E.% 6.2 29.6 9.6 S.E.% 5.6 28.7 4.9 S.E.%	26.1 E VOLUME L L L L L L L L L L L L L L L L L L L	SAMPL DW 1,294 123 7,136 TREES DW 30 12 44 BASAL DW 145 19 171 NET BI	E TREES AVG 1,390 154 1,231 ACRE AVG 32 17 48 AREA/A AVG 153 27 180 E/ACRE AVG	THE SAMP 3 - BF HIGH 1,486 185 1,327 HIGH 34 21 53 CRE HIGH 162 34 189 HIGH	LE ERROR #	OF TREES 5 189 OF PLOTS 5 176 OF PLOTS 5 45 OF PLOTS	REO. 10 47 REO. 10 44 REO. 10 11 REO.	INF. POP. 15 21 INF. POP. 15 20 INF. POP. 15

TC TSTATS				S PROJ	STATIST ECT	TICS VESBELL		PAGE 1 DATE 1/23/2019				
TWP RGE	SECT	TRACT		TYPE		RES	PLOTS	TREES	CuFt	BdFt		
T6N R6W	11	AREA 3		TAK	E	54.00	20	118	1	_ w		
	D. 0.70			TREES		ESTIMATED TOTAL	S	ERCENT AMPLE				
	PLOTS	TRE	ES	PER PLO	TC	TREES	Т	REES				
TOTAL	20) 1	18	5.9								
CRUISE DBH COUNT REFOREST	7	1	42	6.0		5,187		.8				
COUNT BLANKS 100 %	13	,	76	5,8								
			ST	AND SUI	MMARY							
	SAMPLE TREES			BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC		
DOUG FIR	4	11 9:	5.4 21.2	. 74	4 50.8	234.0	40,768	40,054	9,896	9,822		
WHEMLOCK		1	.6 24.0	84	4 0.4	2.0	312	312	85	85		
TOTAL	al .	12 90	5.1 21.2	~ ~	4 57.3	2260	41,080	40,366	9,981	9,907		
CONFIDENC				74	51.2	236.0	41,000	70,500	<i>2,20x</i>			
CONFIDENC	E LIMITS TIMES O	OF THE SA	MPLE	E WILL I		THE SAMP	LE ERROR	OF TREES		INF. POP.		
CONFIDENC 68.1	E LIMITS TIMES O	OF THE SA UT OF 100	MPLE THE VOLUM	E WILL I	BE WITHIN	THE SAMP	LE ERROR					
CONFIDENC 68.1 CL: 68.1 %	E LIMITS TIMES O CO	OF THE SA UT OF 100 T EFF R.% S.I	MPLE THE VOLUM	E WILL I	BE WITHIN	THE SAMP S - BF HIGH 773	LE ERROR	OF TREES	REQ.	INF. POP.		
CL: 68.1 % SD: 1.0 DOUG FIR	E LIMITS TIMES O CO	OF THE SA UT OF 100 T EFF R.% S.E	MPLE THE VOLUM	E WILL I SAMI LOW	BE WITHIN PLE TREE AVG	I THE SAMP S - BF HIGH	LE ERROR	OF TREES	REQ.	INF. POP.		
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK	CE LIMITS TIMES O CO VA 83	OF THE SA UT OF 100 T EFF R.% S.E	MPLE THE VOLUM 5.% 3.0	SAMI LOW 595 592	BE WITHIN PLE TREE AVG 684	THE SAMP S - BF HIGH 773	LE ERROR #	OF TREES	REQ. 10	INF. POP.		
CONFIDENCE 68.1 % CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0	CE LIMITS TIMES O CO. VA 83 82 CO. VA	OF THE SA UT OF 100 T EFF R.% S.E 3.3 1 .9 17 EFF R.% S.E	MPLE THE VOLUM 3.0 2.8 3.%	E WILL I SAMI LOW 595 592 TREE LOW	BE WITHIN PLE TREE AVG 684 679 ES/ACRE AVG	THE SAMP S - BF HIGH 773 766 HIGH	LE ERROR #	OF TREES 5 275	REQ. 10	INF. POP. 15		
CONFIDENCE 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR	CE LIMITS TIMES O VA 83 82 CO VA 60	OF THE SA UT OF 100 7 EFF R.% S.E 3.3 1 .9 12 EFF R.% S.E	MPLE THE VOLUM 3.0 2.8 3.9	E WILL I SAMI LOW 595 592 TREE	BE WITHIN PLE TREE AVG 684 679 ES/ACRE AVG 95	THE SAMP S - BF HIGH 773 766 HIGH 109	LE ERROR #	OF TREES 5 275 OF PLOTS	REQ. 10 69 REQ.	INF. POP. 15 31 INF. POP.		
CONFIDENCE 68.1 % CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0	CE LIMITS TIMES O CO. VA. 83 82 CO. VA.	OF THE SA UT OF 100 ' EFF R.% S.F 3.3 1 .9 12 EFF R.% S.F 7.2 10	MPLE THE VOLUM 3.0 2.8 3.%	E WILL I SAMI LOW 595 592 TREE LOW	BE WITHIN PLE TREE AVG 684 679 ES/ACRE AVG	THE SAMP S - BF HIGH 773 766 HIGH	LE ERROR #	OF TREES 5 275 OF PLOTS	REQ. 10 69 REQ.	INF. POP. 15 31 INF. POP.		
CONFIDENCE 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK	E LIMITS TIMES O VA 83 82 CO VA 60	OF THE SA UT OF 100 ' EFF R.% S.F 3.3 1 .9 12 EFF R.% S.F 7.2 10	MPLE 1HE VOLUM 3.0 2.8 3.9 2.5	SAME LOW 595 592 TREE LOW 82	BE WITHIN PLE TREE AVG 684 679 ES/ACRE AVG 95	THE SAMP S - BF HIGH 773 766 HIGH 109 1 109	LE ERROR #	OF TREES 5 275 OF PLOTS 5	REQ. 10 69 REQ. 10	INF. POP. 15 31 INF. POP. 15		
CONFIDENCE 68.1 CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL	E LIMITS TIMES O VA 83 82 CO VA 60 447 60 CO	OF THE SA UT OF 100 T EFF R.% S.E 3.3 1 .9 17 EFF R.% S.E 1.7 1 7.2 10 1.5 1. EFF R.% S.E 8.8 S.E	MPLE 12.46 13.0 12.8 13.9 12.5 13.9 13.9 14.5 15.46 15	SAME LOW 595 592 TREE LOW 82 83 BASA	BE WITHIN PLE TREE: AVG 684 679 ES/ACRE AVG 95 1 96 AL AREA/A AVG	THE SAMP S - BF HIGH 773 766 HIGH 109 1 109 CCRE HIGH	LE ERROR #	OF TREES 5 275 OF PLOTS 5	REQ. 10 69 REQ. 10 39 REQ.	INF. POP. 15 31 INF. POP. 15		
CONFIDENCE 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR	EE LIMITS TIMES O VA 83 82 CO VA 60 447 60 CO VA	OF THE SA UT OF 100 T EFF R.% S.E B.3 1 .9 12 EFF R.% S.E D.7 1 7.2 10 1.5 1. EFF R.% S.E S.1	MPLE 1HE VOLUM 2.% 3.0 2.8 3.9 2.5 3.9 2.5 3.9	SAME LOW 595 592 TREE LOW 82 83 BASA	BE WITHIN PLE TREE AVG 684 679 ES/ACRE AVG 95 1 96 AL AREA/A AVG 234	S - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS	REQ. 10 69 REQ. 10 39 REQ.	INF. POP. 15 31 INF. POP. 15 17 INF. POP.		
CONFIDENCE 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL	EE LIMITS TIMES O VA 83 82 CO VA 60 447 60 CO VA 43 447	OF THE SA UT OF 100 T EFF R.% S.I .9 12 EFF R.% S.I .7.2 10 .5 1. EFF R.% S.I .7.2 10	MPLE 11HE VOLUM 12.% 13.0 12.8 13.9 12.5 13.9 12.5 13.9 12.5 13.9 13.9	SAME LOW 595 592 TREE LOW 82 83 BASA LOW 211	BE WITHIN PLE TREE AVG 684 679 ES/ACRE AVG 95 1 96 AL AREA/A AVG 234 2	THE SAMP S - BF HIGH 773 766 HIGH 109 1 109 CCRE HIGH 257 4	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS 5	REQ. 10 69 REQ. 10 39 REQ. 10	INF. POP. 15 31 INF. POP. 15 INF. POP.		
CONFIDENCE 68.1 CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL	EE LIMITS TIMES O CO VA 83 82 CO VA 60 CO VA 43 447 43	OF THE SA UT OF 100 7 EFF R.% S.F 3.3 1 .9 12 EFF R.% S.F 7.2 10 5.5 1. EFF R.% S.F 7.2 10 6.6 16	MPLE 1HE VOLUM 2.% 3.0 2.8 3.9 2.5 3.9 2.5 3.9	SAMILL I SAMILOW 595 592 TREE LOW 82 83 BASA	BE WITHIN PLE TREE AVG 684 679 ES/ACRE AVG 95 1 96 AL AREA/A AVG 234	S - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS	REQ. 10 69 REQ. 10 39 REQ.	INF. POP. 15 31 INF. POP. 15 17 INF. POP.		
CONFIDENCE 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL	EE LIMITS TIMES O CO VA 83 82 CO VA 60 CO VA 43 447 43	OF THE SA UT OF 100 T EFF R.% S.E 3.3 1 .9 12 EFF R.% S.E 1.7 1 7.2 10 7.5 1 8.1 7 7.2 10 7.6 16 7.6 16 1.6 16	MPLE THE VOLUM 2.% 3.0 2.8 3.9 2.5 3.9 2.5 3.9	SAMH LOW 595 592 TREE LOW 82 83 BASA LOW 211	BE WITHIN PLE TREE AVG 684 679 ES/ACRE AVG 95 1 96 AL AREA/A AVG 234 2	THE SAMP S - BF HIGH 773 766 HIGH 109 1 109 CCRE HIGH 257 4	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS 5	REQ. 10 69 REQ. 10 39 REQ. 10	INF. POP. 15 31 INF. POP. 15 INF. POP.		
CONFIDENCE 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0	E LIMITS TIMES O VA 83 82 CO VA 60 447 60 CO VA 43 447 43 CO VA	OF THE SA UT OF 100 T EFF R.% S.E 3.3 1 .9 17 .9 17 .7.2 10 .5 17 .5 17 .5 17 .6 16 .6 16 EFF R.% S.E S.E S.E S.E S.E S.E S.E S.E	MPLE THE VOLUM 2.% 3.0 2.8 3.9 2.5 3.9 2.5 3.9 2.5 0.0	SAME LOW 595 592 TREE LOW 82 83 BASA LOW 211 212 NET 1 LOW	BE WITHIN PLE TREE: AVG 684 679 ES/ACRE AVG 95 1 96 AL AREA/A AVG 234 2 236 BF/ACRE AVG	THE SAMP S - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257 4 260 HIGH	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS 5	REQ. 10 69 REQ. 10 39 REQ. 10	INF. POP. 15 31 INF. POP. 15 INF. POP. 15		
CONFIDENCE 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR	E LIMITS TIMES O CO. VA 83 82 CO VA 60 447 60 CO VA 43 447 43 CO VA	OF THE SA UT OF 100 7 EFF R.% S.E 3.3 1 .9 17 .9 17 .2 10 .5 1. EFF R.% S.I 7.2 10 .6 16 EFF R.% S.I 7.2 10 .6 16 EFF R.% S.I 7.2 10	MPLE THE VOLUM 2.% 3.0 2.8 3.9 2.5 3.9 2.5 0.0	SAME LOW 595 592 TREE LOW 82 83 BASA LOW 211 212 NET 1	BE WITHIN PLE TREE: AVG 684 679 ES/ACRE AVG 95 1 96 AL AREA/A AVG 234 2 236 BF/ACRE AVG 40,054	S - BF HIGH 773 766 HIGH 109 1 109 CCRE HIGH 257 4 260	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS 5 80 OF PLOTS	REQ. 10 69 REQ. 10 39 REQ. 10	INF. POP. 15 31 INF. POP. 15 17 INF. POP. 15		
CONFIDENCE 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0 DOUG FIR WHEMLOCK TOTAL CL: 68.1 % SD: 1.0	E LIMITS TIMES O VA 83 82 CO VA 60 447 60 CO VA 43 447 43 CO VA	OF THE SA UT OF 100 T EFF R.% S.E 3.3 1 .9 17 EFF R.% S.E .7.2 10 .5 1. EFF R.% S.E .6 10 EFF R.% S.E .7.2 10 .6 10 EFF R.% S.E .7.2 10 .7.2 10 .7.2 10 .7.2 10 .7.2 10 .7.2 10 .7.2 10 .7.2 10 .7.2 10 .7.2 10 .7.2 10 .7.2 10 .7.2 10 .7.2 10	MPLE THE VOLUM 2.% 3.0 2.8 3.9 2.5 3.9 2.5 0.0 3.% 8.5 2.5	SAME LOW 595 592 TREE LOW 82 83 BASA LOW 211 212 NET 1 LOW	BE WITHIN PLE TREE: AVG 684 679 ES/ACRE AVG 95 1 96 AL AREA/A AVG 234 2 236 BF/ACRE AVG	THE SAMP S - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257 4 260 HIGH	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS 5 80 OF PLOTS	REQ. 10 69 REQ. 10 39 REQ. 10	INF. POP. 15 31 INF. POP. 15 17 INF. POP. 15		

TC TST.	`ATS			-		ST PROJE	ATIST	ICS VESBELL			PAGE DATE 1	1 /23/2019
TWP	RGE	SECT	TRAC	T		TYPE	AC	RES	PLOTS	TREES	CuFt	BdFt
T6N	R6W	11	ROW	·		TAKE		1.00	20	118	1	W
						TREES		ESTIMATED FOTAL		ERCENT AMPLE		
		PLOTS		TREES		PER PLOT		TREES	T	REES		
TOTA	L.	20)	118		5.9						
CRUISE		7	•	42		6.0		96		43.7		
DBH (COUNT											
REFO	REST											
COUN	NT	13	}	76		5.8						
BLAN	NKS											
100 %	6											
					STA	ND SUM	MARY					
		SAMPLE	8 T	REES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES		ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG	G FIR		li	95.4	21.2	74	50.8	234.0	40,768	40,054	9,896	9,822
DOO			1	.6	24.0	84	0.4	2.0	312	312	85	85
WHEN	мі оск										• • •	
TOTA	FIDENCI	E LIMITS	OF THE	<i>96.1</i> E SAMPI	21.2 LE	74	51.2 : WITHIN	236.0 THE SAMP	41,080	40,366	9,981	9,907
CON	AL FIDENCI 68.1	E LIMITS TIMES O	OF THE	<i>96.1</i> E SAMPI	21.2 LE	74 WILL BE	WITHIN	THE SAMP	LE ERROR			-
CON	AL FIDENCI 68.1 68.1 %	E LIMITS TIMES O	OF THE UT OF 1	<i>96.1</i> E SAMPI 100 THE	21.2 LE VOLUME	74 WILL BE	WITHIN	THE SAMP	LE ERROR	40,366 OF TREES 5		9,907 INF. POP.
CL:	AL FIDENCI 68.1 68.1 % 1.0	E LIMITS TIMES O CO VA	OF THE	<i>96.1</i> E SAMPI	21.2 LE VOLUME	74 WILL BE	WITHIN	THE SAMP	LE ERROR	OF TREES	REO.	INF. POP.
CON CL:	AL FIDENCI 68.1 68.1 % 1.0	E LIMITS TIMES O CO VA	OF THE UT OF 1 EFF R.%	<i>96.1</i> E SAMPI 100 THE S.E.%	21.2 LE VOLUME	74 WILL BE SAMPI OW	WITHIN E TREES AVG	THE SAMP - BF HIGH	LE ERROR	OF TREES	REO.	INF. POP.
CON CL:	FIDENCI 68.1 68.1 % 1.0 G FIR MLOCK	E LIMITS TIMES O CO VA	OF THE UT OF 1 EFF R.%	<i>96.1</i> E SAMPI 100 THE S.E.%	21.2 LE VOLUME	74 WILL BE SAMPI OW	WITHIN E TREES AVG	THE SAMP - BF HIGH	LE ERROR	OF TREES	REO.	INF. POP.
CL: SD: DOUG WHEI	AL FIDENCI 68.1 68.1 % 1.0 G FIR MLOCK AL	E LIMITS TIMES O CO: VA 83	OF THE UT OF 1 EFF R.%	96.1 E SAMPI 100 THE S.E.% 13.0	21.2 LE VOLUME	74 WILL BE SAMPL OW 595 592	E TREES AVG 684 679	THE SAMP S - BF HIGH 773	LE ERROR #	OF TREES 5 275	REO. 10	INF. POP. 15
CL: SD: DOUG WHEI TOTA	68.1 % 1.0 G FIR MLOCK AL 68.1 %	E LIMITS O CO. VA 83 82 CO.	OF THE UT OF 1 EFF R.% i.3	96.1 E SAMPI 100 THE S.E.% 13.0	21.2 LE VOLUME L	74 WILL BE SAMPI OW 595 592 TREES	E TREES AVG 684 679	THE SAMP 8 - BF HIGH 773 766	LE ERROR #	OF TREES 5 275 OF PLOTS	REO. 10 69 REO.	INF. POP. 15 31 INF. POP.
CL: SD: DOUG WHEI	68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0	E LIMITS O CO. VA 83 82 CO. VA	OF THE UT OF 1 EFF R.%	96.1 E SAMPI 100 THE S.E.% 13.0	21.2 LE VOLUME L	74 WILL BE SAMPL OW 595 592	E TREES AVG 684 679	THE SAMP S - BF HIGH 773	LE ERROR #	OF TREES 5 275	REO. 10	INF. POP. 15
CL: SD: DOUG CL: SD: DOUG WHEI TOTA CL: SD: DOUG	68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0	E LIMITS O CO. VA 83 82 CO. VA	OF THE UT OF 1 EFF R.% 5.3 9 EFF R.%	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.%	21.2 LE VOLUME L	SAMPI OW 595 592 TREES OW	E WITHIN E TREES AVG 684 679 ACRE AVG	THE SAMP S - BF HIGH 773 766 HIGH	LE ERROR #	OF TREES 5 275 OF PLOTS	REO. 10 69 REO.	INF. POP. 15 31 INF. POP.
CL: SD: DOUG CL: SD: DOUG WHEI TOTA CL: SD: DOUG	FIDENCE 68.1 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK	E LIMITS O CO. VA 83 82 CO. VA 60	OF THE UT OF 1 EFF R.% 3.3 .9 EFF R.% 0.7	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.% 13.9	21.2 LE VOLUME L	SAMPI OW 595 592 TREES OW	E WITHIN E TREES AVG 684 679 ACRE AVG 95	THE SAMP 3 - BF HIGH 773 766 HIGH 109	LE ERROR #	OF TREES 5 275 OF PLOTS	REO. 10 69 REO.	INF. POP. 15 31 INF. POP.
CL: SD: DOUG WHE! TOTA CL: SD: DOUG WHE! TOTA	FIDENCE 68.1 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK	# LIMITS O CO. VA 83 82 CO. VA 60 60 60	OF THE UT OF 1 EFF R.% 3.3 .9 EFF R.% 0.7	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.% 13.9 102.5	21.2 LE VOLUME L	74 WILL BE SAMPI OW 595 592 TREES OW 82 83	E WITHIN E TREES AVG 684 679 ACRE AVG 95 1	THE SAMP 3 - BF HIGH 773 766 HIGH 109 1 109	LE ERROR #	OF TREES 5 275 OF PLOTS 5	REO. 10 69 REO. 10	INF. POP. 15 31 INF. POP. 15
CL: SD: DOUG WHEI TOTA CL: SD: CL: CL: CL: CL:	FIDENCI 68.1 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL	E LIMITS O CO. VA 83 82 CO. VA 60 447 60 CO.	OF THE UT OF 1 EFF R.% 3.3 9 EFF R.% 0.7	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.% 13.9 102.5 13.9 S.E.%	21.2 LE VOLUME L	74 WILL BE SAMPI OW 595 592 TREES OW 82 83	E WITHIN E TREES AVG 684 679 ACRE AVG 95 1 96 AREA/A	THE SAMP 6 - BF HIGH 773 766 HIGH 109 1 109 CRE	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 FOF PLOTS	REO. 10 69 REO. 10	INF. POP. 15 31 INF. POP. 15 17 INF. POP.
CL: SD: DOUG WHEI TOTA CL: SD: DOUG WHEI TOTA CL: SD: DOUG DOUG	68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR	# E LIMITS O CO. VA 83 60 CO. VA 43 43	OF THE UT OF 1 EFF R.% 3.3 EFF R.% 0.7 7.2 .5 EFF R.%	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.% 13.9 102.5 13.9 S.E.% 9.9	21.2 LE VOLUME L	74 WILL BE SAMPI OW 595 592 TREES OW 82 83 BASAL	E WITHIN E TREES AVG 684 679 ACRE AVG 95 1 96 AREA/A AVG 234	THE SAMP 3 - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 FOF PLOTS	REO. 10 69 REO. 10 39 REO.	INF. POP. 15 31 INF. POP. 15 17 INF. POP.
CL: SD: DOUG WHEI TOTA CL: SD: DOUG WHEI TOTA CL: SD: DOUG WHEI WHEI WHEI SD: DOUG WHEI WHEI	68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK	# LIMITS O CO VA 83 60 CO VA 43 443 443 443	OF THE UT OF 1 EFF R.% 3.3 .9 EFF R.% 0.7 7.2 5.5 EFF R.%	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.% 13.9 102.5 13.9 S.E.% 9.9 102.5	21.2 LE VOLUME L	74 WILL BE SAMPI OW 595 592 TREES OW 82 83 BASAL OW 211	E WITHIN E TREES AVG 684 679 ACRE AVG 95 1 96 AREA/A AVG 234 2	THE SAMP 5 - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257 4	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS 5	REO. 10 69 REO. 10 39 REO. 10	INF. POP. 15 31 INF. POP. 15 17 INF. POP. 15
CL: SD: DOUG WHEI TOTA CL: SD: DOUG WHEI TOTA CL: SD: DOUG DOUG	68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK	# E LIMITS O CO. VA 83 60 CO. VA 43 43	OF THE UT OF 1 EFF R.% 3.3 .9 EFF R.% 0.7 7.2 5.5 EFF R.%	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.% 13.9 102.5 13.9 S.E.% 9.9	21.2 LE VOLUME L	WILL BE SAMPI OW 595 592 TREES OW 82 83 BASAL OW	E WITHIN E TREES AVG 684 679 ACRE AVG 95 1 96 AREA/A AVG 234	THE SAMP 3 - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 FOF PLOTS	REO. 10 69 REO. 10 39 REO.	INF. POP. 15 31 INF. POP. 15 17 INF. POP.
CL: SD: DOUG WHEI TOTA CL: SD: DOUG WHEI TOTA CL: SD: DOUG WHEI TOTA	68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK	# LIMITS TIMES O CO: VA 83 82 CO: VA 60 447 60 CO VA 43 447 43	OF THE UT OF 1 EFF R.% 3.3 .9 EFF R.% 0.7 7.2 5.5 EFF R.%	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.% 13.9 102.5 13.9 S.E.% 9.9 102.5	21.2 LE VOLUME L	74 WILL BE SAMPI OW 595 592 TREES OW 82 83 BASAL OW 211	E WITHIN E TREES AVG 684 679 ACRE AVG 95 1 96 AREA/A AVG 234 2 236	THE SAMP 5 - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257 4	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS 5	REO. 10 69 REO. 10 39 REO. 10 20	INF. POP. 15 31 INF. POP. 15 17 INF. POP. 15
CL: SD: DOUG WHEI TOTA CL: SD: DOUG WHEI TOTA CL: SD: DOUG WHEI TOTA	68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0 G FIR MLOCK AL 68.1 % 68.1 % 1.0 G FIR MLOCK AL 68.1 %	## E LIMITS O CO. VA 83 60 CO VA 43 447 43 CO	OF THE UT OF 1 EFF R.% 6.3 .9 EFF R.% 0.7 7.2 .5 EFF R.%	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.% 13.9 102.5 13.9 S.E.% 9.9 102.5	L L	74 WILL BE SAMPI OW 595 592 TREES OW 82 83 BASAL OW 211	E WITHIN E TREES AVG 684 679 ACRE AVG 95 1 96 AREA/A AVG 234 2 236	THE SAMP 5 - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257 4	LE ERROR #	275 275 OF PLOTS 5 154 OF PLOTS 5	REO. 10 69 REO. 10 39 REO. 10 20	INF. POP. 15 31 INF. POP. 15 17 INF. POP. 15
CL: SD: DOUG WHEI TOTA CL: SD: DOUG WHEI TOTA CL: SD: CL: CL: CL: CL: CL:	AL FIDENCI 68.1 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0	## E LIMITS TIMES O CO VA 83 82 CO VA 60 447 60 CO VA 43 447 43 CO VA	OF THE UT OF 1 EFF R.% 3.3 .9 EFF R.% 0.7 7.2 .5 EFF R.% 3.1 7.2 .6 EFF	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.% 13.9 102.5 13.9 S.E.% 9.9 102.5 10.0	L L	74 WILL BE SAMPI OW 595 592 TREES OW 82 83 BASAL OW 211 212 NET BI	E WITHIN E TREES AVG 684 679 ACRE AVG 95 1 96 AREA/A AVG 234 2 236 FACRE	THE SAMP 5 - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257 4 260	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS 5 80 FOF PLOTS	REO. 10 69 REO. 10 39 REO. 10 20 REO. 5 REO.	INF. POP. 15 31 INF. POP. 15 17 INF. POP. 15
CL: SD: DOUG WHEI TOTA	AL FIDENCI 68.1 68.1 % 1.0 G FIR MLOCK AL 68.1 % 1.0	## E LIMITS TIMES O CO VA 83 82 CO VA 60 447 60 CO VA 43 447 43 CO VA	OF THE UT OF 1 EFF R.% 3.3 .9 EFF R.% 0.7 7.2 .5 EFF R.% 6 EFF R.%	96.1 E SAMPI 100 THE S.E.% 13.0 12.8 S.E.% 13.9 102.5 13.9 S.E.% 9.9 102.5 10.0 S.E.%	L L	74 WILL BE SAMPI OW 595 592 TREES OW 82 83 BASAL OW 211 212 NET BI OW 6,635	E WITHIN E TREES AVG 684 679 ACRE AVG 95 1 96 AREA/A AVG 234 2 236 F/ACRE AVG	THE SAMP 5 - BF HIGH 773 766 HIGH 109 1 109 CRE HIGH 257 4 260 HIGH	LE ERROR #	OF TREES 5 275 OF PLOTS 5 154 OF PLOTS 5 80 FOF PLOTS	REO. 10 69 REO. 10 39 REO. 10 20 REO. 5 REO.	INF. POP. 15 31 INF. POP. 15 17 INF. POP. 15

TC PSTNDSUM	Stand Table Summary	Page Date:	1 1/23/2019
TT6N RR6W S11 TyTAK 107.00	, 10,000	Time:	1:02:27PM
TT6N RR6W S11 TyTAK 54.00 TT6N RR6W S11 TyTAK 1.00	A 2000 162 00	Grown Year:	

				Tot				Averag	e I og	***	Net	Net			
S		Commis	FF	Av	Trees/	BA	Logs	Net	Net	Tons/	Cu.Ft.			Totals	
Ѕрс Т	DBH	Sample Trees	16'	Ht	Acre		Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre	Tons	Cunits	MBF
D	12	2	85	50	2,467	1.94	2.47	16.0	50.0		39	123		64	20
D	13	2	85	53	2.102	1.94	2.10	20.0	60.0		42	126		68	20
D	14	2	86	51	1.813	1.94	1.81	22.0	60.0		40	109		65	18
D	15	4	85	57	3.158	3.88	3.16	28.0	65.0		88	205		143	33
D	16	7	86	79	5.230	7.30	9.07	23.8	80.4		216	729		350	118
D	18	1	86	96	.843	1.49	1,69	32.5	115.0		55	194		89	31
D	19	3	84	96	1.741	3.43	4.47	29.0	102.5		129	458		210	74
D	20	4	85	115	1.776	3.88	4.44	38.4	138.0		171	613		276	99
D	21	4	85	98	2.044	4.92	4.09	44.5	148.0		182	605		295	98
D	22	12	85	109	4.798	12.67	12.36	43.3	170.3		536	2,105		868	341
D	23	11	85	118	3.874	11.18	10.43	47.0	186.7		491	1,948		795	316
D	24	1	86	116	.474	1.49	1.42	46.3	190.0		66	270		107	44
D	25	7	86	119	2.448	8.34	6.77	55.7	226.3		377	1,533		611	248
D	26	11	85	122	3,032	11.18	9.09	56.3	231,4		512	2,104		829	341
D	27	4	86	125	1.236	4.92	3.71	61,6	259.9		228	964		370	156
D	28	5	86	129	1.498	6.41	4,49	69.3	296.9		312	1,334		505	216
D	29	9	85	129	2.241	10.28	6.72	75.3	331.9		506	2,232		820	362
D	30	5	85	145	1.305	6.41	3.91	88.2	401.6		345	1,572		559	255
D	31	9	85	129	2,359	12,36	6.51	91.2	402.8		593	2,621		961	
D	32	6	86	135	1.414	7.90	4.24	94.3	438.1		400	1,858		648	
D	33	9	86	139	2.081	12.36	6.24	103.2	491.4		644	3,069		1,044	
D	34	4	85	137	.945	5.96	2.83	107.3	493.3		304	1,398		492	
D	35	5	86	140	.959	6.41	2.88	115.3	539.6		332	1,552		537	
D	36	2	86	143	.421	2.98	1.26	124.3	615.0		157	777		255	
D	37	2	86	143	.399	2.98	1.20	132.3	663.3		158	794		257	
D	38	4	86		.624	4.92	1.87	146.0	743.3		273	1,392		443	
D	39	3	85		.539	4.47	1.44	158.2	791.2		227	1,136		368	
D	41	3	85		.487	4.47	1.46	164.7	815.6		241	1,192		390	
D	43	2	84		.295	2.98	1.03	159.0	754.3		164	780		266	
D	45	3	83		.405	4.47	1.08	152.0	753.7		164	813		266	
D	48	3	84		.273	3.43	.82	176.4	896.6		144	734		234	
D	51	1	85	166	.105	1.49	.42	208.7	1110.0		88	466		142	76
D	Totals	150	85	106	53.386	180.72	125.51	65,5	285.3		8,225	35,808		13,325	5,801
Α	11	1	87	18	2.669	1.76	2.67	8.0	30.0		21	80		35	
Α	16	1	86	58	1.261	1.76	1.26	37.0	90.0		47	114		76	
A	17	2	86		2,235	3.52	3.35	29.0	80.0		97	268		157	
Α	19	3	87		2.684	5.28	3.58	1	115.0		147	411		238	
A	20	1	87		.807	1.76	1.61	1	130.0		64	210		103	
A	22	1	87		.667	1.76	1,33	1	170.0		62	227		101	
A	23	1	87	51	.610	1.76	.61	62.0	120.0		38	73		61	12
A	Totals	10	87	51	10.934	17.61	14.42	33.0	95.9		476	1,383		771	224
Н	24	2	86	102	.216	.68	.43	67.0	245.0		29	106		47	17
Н	Totals	2	86	102	.216	.68	.43	67.0	245.0		29	106		47	17
Totals		162	86	97	64.536	199.01	140.36	62.2	265.7		8,730	37,297		14,142	6,042

TC PLOGSTVB Log Stock Table - MBF Page 107.00 TT6N RR6W S11 TyTAK Project: VESBELL Date 1/23/2019 54.00 TT6N RR6W S11 TyTAK Acres 162.00 Time 1:02:39PM TT6N RR6W S11 TyTAK 1.00 % Net Volume by Scaling Diameter in Inches So Gr Log Def Gross Net 10-11 12-13 14-15 16-19 20-23 24-29 30-39 40+ rt de Len MBF % **MBF** Spc 2-3 4-5 Spp 88 3.0 38.0 28 58 DO 1S 32 85 25 11.3 25 DO 2S 32 25 A 12 DO 2S 40 12 12 5.3 A 4 1.9 18 4 DO 3S 53 40 53 23.7 DO 3S 53 13 5.8 13 16 A DO 4S 13 DO 4S 18 5 2.4 5 A 32 13 13 5.8 13 A. DO 4S 40 13 5.7 13 DO 4S 13 A 28 224 3.7 44 69 25 58 Totals 227 1.2 Α 100.0 D DO CU 12 25 100.0 D DO CU 15 48 100.0 D DO CU 58 17 .3 17 D DO 2S 16 17 DO 2S 18 .1 4 D .2 13 DO 2S 24 13 13 D 92 30 26 26 10 DO 2S 30 92 1.6 D 17 D DO 2S 32 254 254 4.4 120 45 72 5 .1 D DO 2S 36 5 4,672 4,613 79.5 269 663 1205 1414 877 184 40 1.3 D DO 2S 6 3 9 .1 DO 3S 16 9 D 3 20 .3 5 9 3 DO 3S 18 20 D 57 1.0 13 35 8 DO 3S 24 57 D 4 26 4 .1 D DO 3S 30 21 21 .4 21 D DO 3S 14 233 26 32 328 5.7 55 D DO 3S 329 6 36 12 12 .2 6 DO 3S D 79 13 162 162 2.8 54 15 D DO 3S 40 7 22 28 .5 D DO 4S 16 28 17 41 8 1.1 DO 4S 18 65 D 65 17 4 12 .3 DO 4S 24 17 D .2 12 DO 4S 30 12 12 D .7 38 D DO 4S 36 38 38 .5 29 40 29 29 DO 4S D

TC	PLO	GST	√B					Log	Stock	Table	- MB	F								
ТТб	SN F	R6V	V S11	ТуТ <i>А</i> ТуТ <i>А</i> ТуТ <i>А</i>	AK 5	7.00 4.00 1.00		Proj Acre		VES	SBELL 162						Page Date Time	1/2	2 3/2019 02:39F	
	S	So	Gr	Log	Gross	Def	Net	%		ľ	let Volu	ıme by	Scalin	g Diam	eter in	Inches				
Spp	Т				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+
D			Total	s	5,947	2.4	5,801	96.0			204	110	426	489	743	1310	1441	877	202	
Н		DO	2S	40	14		14	81.6								14				
Н		DO	38	40	3		3	18.4				3								
H			Total	s	17	,	17	.3				3				14				
Total		All	Speci	es	6,190	2.4	6,042	100.0			248	182	452	516	801	1324	1441	877	202	

