The New and Improved SuperACE

& What to Look for in a Timber Cruise/Inventory Program



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University of Washington: BA, Forest Management, 1980; MBA, 1988.

Project Manager, employed by Atterbury Consultants Inc. since May 1989.

Employment with Washington Department of Natural Resources, Davey Tree Surgery and the US Forest Service.

30 years experience cruising timber

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- Started by Toby Atterbury in 1985
- Offices in Beaverton, OR. and Darrington, WA.
- Services
 - Timber Cruising, Forest Inventory, GIS
 - Appraisals, Timber Valuations
 - Wood Supply Studies, Harvest Levels
 - Seminars
 - Software
 - Forestry Equipment

What makes for a good cruise program?

Built for the User

- Field friendly
- Tree measurements easily taken
- Flexible
- User adaptable tables (species, sorts, etc)
- Good, adaptable reports
- Easy edit functions
- Connects with GIS for acres

Field Friendly

- Logical layout, like a cruise card
- Measurement at a distance function
- Log volume & value checks to help cruiser optimize

Tree Measurements Easily Taken

- Outside bark
- Ratios (percentages) are easily measured
- Measurements fit the tree so that equations can reasonably calculate scaling diameter at any point
- Measure actual tree with merch logs in it (deal with forks, broken tops)

Flexible

- Timber stands are variable and different sampling systems may be used
 - Variable plot
 - Fixed plot: circular or **rectangular** (new)
 - Strip cruise
- Sampling systems may be combined (nested plots)
- Cruise plots are calculated individually
- Use different **Sight** & **Form** points (new)

User Adaptable Tables not a black box

- Species codes numeric or alpha, can be set to user's preference.
- Minimum and maximum settings for logs.
- Weights, scaling rule, cubic rule can be set.
- Additional information about a tree can be collected if desired; position, crown, damage, etc.

Good Reports

- Parameters of reports can be set by user
- Board feet, cubic feet & tons in reports
- Graphics displays of some information
- Valuation using measured logs in cruise
- Pole report & ability to judge value vs logs
- Transportation costs

Easy Edit Functions

- Edit function is live linked to data
- Volume, scaling diameter and *log value* are visible (*new*)
- Can see if a log meets Table parameters assigned for sort, grade, length & diameter
- Allows cruiser to make value judgments on logs

Connects With GIS

• GIS calculated net timber acres can be directly transferred to timber types

SuperACE Cruise Program

- A "tree list" PC computer program using taper functions and log rules as used in the industry.
- First used by Crown Zellerbach for mainframe computers in 1964.
- ACI developed as a PC program in 1986.
- Several sampling systems to fit each stand.
- User control of tables and inputs such as species codes, weight, bark, etc.
- Variety of tree measurements to fit each tree accurately.
- Variable log lengths
- sorts, and grade by log
- Log scaling deductions by log.
- Data entry on handheld.
- Link to GIS for acres.
- Many reports

SuperACE 2017

- Accurate
- Cruise
- Extension

Designed by Toby Atterbury Programmed by Howard Parks Tested by Patience

Opening Screen

<u>tia</u>	Supe	rACE	2017	/1-Test												_		_										
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H	_		WA	UNIT 1		OR	0003	015	01W	24	85.92	TC		3/1/2004	/0	TIM	3/1/2004	65	119	DF	95.13	93.24	13.4	//	27.06	10.346	2,325	889
Ľ			WA			OR	0004	015	01W	24	30.26	TC		3/1/2004	17		3/1/2004	50	108	DE	67.46	114.09	15.5	255	89.53	43.941	2,709	1,330
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F			WA	UNIT 2		OR	0011	015	01W	25	15.12	тс		3/1/2004	7	TIM	3/1/2004	49	95	BM	93.35	139.83	16.6	88	33.23	11.191	502	169
F			WA	UNIT 2		OR	0012	015	01W	25	10.45	TC		3/1/2004	7	TIM	3/1/2004	45	117	DF	108.00	146.92	15.8	109	38.11	12.897	398	135
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F			WA	UNIT 3		OR	0021	015	01W	26	44.56	TC		3/1/2004	24	TIM	3/1/2004	57	122	WH	145.22	258.05	18.1	355	110.91	49.014	4,942	2,184
F			WA	UNIT 3		OR	0022	015	01W	26	6.09	TC		3/1/2004	3	TIM	3/1/2004	55	90	WH	85.35	82.59	13.3	74	23.15	7.351	141	45
F			WA	UNIT 3		OR	0024	01S	01W	26	45.82	тс		3/1/2004	25	TIM	3/1/2004	50	108	DF	169.57	207.33	15.0	205	72.09	29.997	3,303	1,374
E			WA	UNIT 3		OR	0026	01S	01W	26	14.92	тс		3/1/2004	8	TIM	3/1/2004	59	72	GF	131.21	157.61	14.8	110	50.07	18.931	747	282
F			WA	UNIT 3		OR	0029	01S	01W	26	33.73	тс		3/1/2004	16	ТІМ	3/1/2004	40	110	RA	171.56	155.55	12.9	111	40.46	14.404	1,365	486
F			WA	UNIT 3		OR	0032	01S	01W	26	5.52	тс		3/1/2004	5	TIM	3/1/2004	45	127	GF	153.00	136.63	12.8	70	31.93	10.818	176	60
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COLUMN CHOOSER – customize view

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	_		WA	UNIT 1		OR	0003	01S	01W	24	85.92	TC		3/1/2004	70	TIM	3/1/2004	65	119	DF	95.13	93.24	13.4	77	27.06	10.346	2,325	889
	_		WA	UNIT 1		OR	0004	01S	01W	24	30.26	TC		3/1/2004	17	ТІМ	3/1/2004	60	108	DF	67.46	180.30	22.1	255	89.53	43.941	2,709	1,330
	_		WA	UNIT 1		OR	0005	01S	01W	24	24.72	TC		3/1/2004	13	TIM	3/1/2004	75	98	DF	87.28	114.08	15.5	114	40.00	18.601	989	460
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ŀ			WA	UNIT 3		OR	0029	01S	01W	26	33.73	TC		3/1/2004	16	TIM	3/1/2004	40	1	Hrv						1	65	486
ŀ			WA	UNIT 3		OR	0032	01S	01W	26	5.52	TC		3/1/2004	5	ТІМ	3/1/2004	45	1	Src						1	76	60
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FILTER Stands by Attributes

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		WA	UNIT 1	0002	OR	01S	01W	TC	24		101.36	3/1/2004	57	TIM	3/1/2004	57	122	DF	121.41	155.08	15.3	168	58.96	26.286	5,976	2,664
		AW I	UNIT 1	0003	OR	01S	01W	TC	24		85.92	3/1/2004	70	TIM	3/1/2004	65	119	DF	95.13	93.24	13.4	77	27.06	10.346	2,325	889
		AW I	UNIT 1	0004	OR	01S	01W	TC	24		30.26	3/1/2004	17	ΤΙΜ	3/1/2004	60	108	DF	67.46	180.30	22.1	255	89.53	43.941	2,709	1,330
		I WA	UNIT 1	0005	OR	01S	01W	TC	24		24.72	3/1/2004	13	TIM	3/1/2004	75	98	DF	87.28	114.08	15.5	114	40.00	18.601	989	460
		I WA	UNIT 1	0006	OR	01S	01W	TC	24		51.59	3/1/2004	52	TIM	3/1/2004	3	92	BM	549.55	0.10	.2		0.00	0.000		
		AW I	UNIT 1	0013	OR	01S	01W	TC	24		112.75	3/1/2004	56	ΤΙΜ	3/1/2004	42	110	GF	59.85	137.90	20.6	91	41.34	17.874	4,661	2,015
		I WA	UNIT 1	RMZ	OR	01S	01W	TC	24		12.31	3/1/2004	4	TIM	3/1/2004	60	105	DF	34.57	67.59	18.9	67	23.55	10.965	290	135
											418.91		269			49	112		143.72	115.52		108	0.67	0.306	16.950	7.493
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		I WA	UNIT 3	0032	OR	015	01W	IC	26		5.52	3/1/2004	5	IIM	3/1/2004	45	12/	GF	153.00	136.63	12,8	70	31.93	10.818	1/6	60
											162.36		87			51	110		156.12	193.33		203	2.27	0.899	11,151	4,613

FILTER- by what attribute?

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	NA	UNIT 1	0006	OR	015	01W	TC	24	51.50	3/1/2004	57	TIM	3/1/2004	3	92	BM	549.55	0.10			0.00	0.000	365	
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III W	NA:	UNIT 1	RMZ	DR	015	01W	TC	24	12.3	3/1/2004	4	TIM	3/1/2004	60	105	DF	34.57	67.59	18.9	67	23.55	10.965	290	
			-						418.91	1	269			49	112	1	141.72	115.52		108	0.67	0.306	16.950	7.4
- Tract	t: UNI	T 2											_		ter Ed	tor								13
III W	NA.	UNIT 2	0006	OR	015	01W	TC	25	6.3	3/1/2004	22	TIM	3/1/2004	And (0									
III W	NA	UNIT 2	0007	OR.	015	01W	TC	25	62.5	3/1/2004	30	TIM	3/1/2004	1-12	otal N	et MbR	Equals <e< td=""><td>nter a valu</td><td>e>.0</td><td></td><td></td><td></td><td></td><td></td></e<>	nter a valu	e>.0					
1 W	N/A	UNIT 2	8000	OR	015	01W	TC	25	58, 58	3/1/2004	50	TIM	3/1/2004		B	ATT								
III W	NA	UNIT 2	0009	OR	015	01W	TÇ	25	10.26	3/1/2004	4	ΠМ	3/1/2004			8A Per	Ac							
III W	NA	UNIT 2	0010	OR	015	01W	TC	25	7.6	3/1/2004	3	ПМ	3/1/2004			αy								
	NA.	UNU 2	0011	UR OR	015	0.126	TC	76	15.1	3/1/2004	1	1194	3/1/2004			Exam D	ate							
141 14	NA	UNLI Z	0012	- UK	015	0.tw	n.	4	10.4	20172004	170	124	3/1/2009			Grown	Date							
v Tract	+ 118/								1/0.23		123					Hrv								
TT W	NA NA	UNIT 1	0016	DR	015	01W	TC	26	11.7	3/1/2004	6	TIM	1/1/2004			Land C	lass							
	NA	UNIT 3	0021	OR.	015	01W	TC	26	44.5	3/1/2004	24	TIM	3/1/2004			Maj Ag	e .							
III W	NA	UNIT 3	0022	OR	015	01W	TC	26	6.0	3/1/2004	3	TIM	3/1/2004			Maj Sp	c :							
III W	NA	UNIT 3	0024	DR	0.15	0.tw	TC	26	45.8	3/1/2004	- 25	TIM	3/1/2004	-		Net Ac	nes -		-					
III W	NA	UNIT 3	0026	DR	015	01W	TC	26	14.90	3/1/2004	8	TIM	3/1/2004			Net Cc	PerAc				-10	Cancel	Appl	<u>(N</u>
II W	NA	UNIT 3	0029	OR	015	01W	TC	26	33,7	3/1/2004	16	TIM	3/1/2004	-		Net M	f Per Ac						10	_
M I	NA	UNIT 3	0032	OR	015	01W	TC	26	5,5;	3/1/2004	5	TIM	3/1/2004	- 4		Dinte		0.03	12.8	70	31.93	10.815	176	
									162.36	1	87			51		CLUD	£22	3.33		203	2.27	0.899	11,151	4,6

FILTER- by what criteria?

di	Supe	rACE	2017	V1-Test																							
1	File	Proj	ject S	Stands Ownersh	ip Rep	orts	Tables	Def	aults	Help	Skins																
÷	First	Prev	/ Next	t Last Print	Save 0	Columi	n Choo	ser	Filter	Selec	t All	Attached F	iles Additio	nal Tree	Measu	rements											
•		_																									
	Home		Stand N	Master Plot Loc	ation	Tree I	nput	Tree	Edit	Stan	d Input																
Г																											
		P			Stand	1									Land		Maj		Maj	Trees	BA Per	QM	Tons	Net Ccf	Net Mbf	Total Net	Total
			Cty	Tract	#	St	Twn	Rge	Src	Sec	Hrv	Net Acres	Exam Date	Plots	Class	Grown Date	Age	SI	Spc	Per Ac	Ac	Dbh	Per Ac	Per Ac	Per Ac	Ccf	Net Mbf
	• •	Tra	ict: UNI	Π1																							
			WA	UNIT 1	0002	OR	01S	01W	TC	24		101.36	3/1/2004	57	TIM	3/1/2004	57	122	DF	121.41	155.08	15.3	168	58.96	26.286	5,976	2,664
			WA	UNIT 1	0003	OR	01S	01W	TC	24		85.92	3/1/2004	70	TIM	3/1/2004	65	119	DF	95.13	93.24	13.4	77	27.06	10.346	2,325	889
			WA	UNIT 1	0004	OR	01S	01W	TC	24		30.26	3/1/2004	17	TIM	3/1/2004	60	108	DF	67.46	180.30	22.1	255	89.53	43.941	2,709	1,330
			WA	UNIT 1	0005	OR	01S	01W	TC	24		24.72	3/1/2004	13	TIM	3/1/2004	75	98	DF	87.28	114.08	15.5	114	40.00	18.601	989	460
			WA	UNIT 1	0006	OR	01S	01W	TC	24		51.59	3/1/2004	52	TIM	3/1/2004	3	92	BM	549.55	0.10	.2		0.00	0.000		
			WA	UNIT 1	0013	OR	01S	01W	TC	24		112.75	3/1/2004	56	TIM	3/1/2004	42	110	GF	59.85	137.90	20.6	91	41.34	17.874	4,661	2,015
			WA	UNIT 1	RMZ	OR	01S	01W	TC	24		12.31	3/1/2004	4	TIM	3/1/2004	60	105	DF	34.57	67.59	18.9	67	23.55	10.965	290	135
						-						418.91		269		_	49	112		143.72	115.52		108	0.67	0.306	16,950	7,493
ŀ	~	Tra	ct: UN	П 2													🖳 Filt	er Edit	or								23
ŀ			WA	UNIT 2	0006	OR	01S	01W	TC	25		6.32	3/1/2004	22	TIM	3/1/2004	And C	<u></u>									3
ŀ			WA	UNIT 2	0007	OR	015	01W	TC	25		62.50	3/1/2004	30	TIM	3/1/2004		otal N	at Mbfl	Equals <	enter a vali						3
ŀ			WA	UNIT 2	0008	OR	015	01W	TC	25		58.58	3/1/2004	50	ттм	3/1/2004	tr	Utarin	echoly		uals						
ŀ	-		WA	UNIT 2	0009	OR	015	01W	TC	25		10.20	3/1/2004	4	ттм	3/1/2004				≠ D							5
ŀ	-		WA		0010	OR	015	01W	TC	25		7.08	3/1/2004	3	ттм	3/1/2004					les not eq	uai					
ŀ	-		WA		0011	OP	015	01W	TC	25		15 12	3/1/2004	7	TTM	3/1/2004					greater in	an					
ŀ	-		WA		0012	OP	015	01W	TC	25		10.45	3/1/2004	7	TIM	3/1/2004				⇒ Is	greater th	an or eq	ual to				5
┢	-			UNIT 2	0012	UK	015	0100		23		10.45	3/1/2004	,	1201	5/1/2004				< ls	less than						
												170.25		123						≼ Is	less than (or equal	to				
	_ *	Tra	ict: UNI	П 3		_														🐣 ls	between						
			WA	UNIT 3	0016	OR	01S	01W	TC	26		11.72	3/1/2004	6	TIM	3/1/2004				Ma Is	not betwe	en					1
			WA	UNIT 3	0021	OR	01S	01W	TC	26		44.56	3/1/2004	24	TIM	3/1/2004				O Is	null						4
			WA	UNIT 3	0022	OR	01S	01W	TC	26		6.09	3/1/2004	3	TIM	3/1/2004				Is	not null						5
			WA	UNIT 3	0024	OR	01S	01W	TC	26		45.82	3/1/2004	25	TIM	3/1/2004				🚥 İs	any of						4
			WA	UNIT 3	0026	OR	01S	01W	TC	26		14.92	3/1/2004	8	TIM	3/1/2004					none of				Cancel	Apply	2
			WA	UNIT 3	0029	OR	01S	01W	TC	26		33.73	3/1/2004	16	TIM	3/1/2004											5
			WA	UNIT 3	0032	OR	01S	01W	TC	26		5.52	3/1/2004	5	TIM	3/1/2004	45	127	GF	153.00	136.63	12.8	70	31.93	10.818	176	60
												162.36		87			51	110		156.12	193.33		203	2.27	0.899	11,151	4,613

FILTER- by what value?

di	Supe	rACE	E 2017	V1-Test	:																							
÷	File	Pro	ject	Stands	Ownersh	ip Rep	orts	Tables	; Defa	aults	Help	Skins	5															
÷	First	Prev	v Nex	d Last	Print	Save C	olumr	n Choo	oser	Filter	Sele	ct All	Attached F	iles Additio	onal Tree	e Measu	rements											
Γ	Home		Stand I	Master	Plot Loc	ation	Tree I	nput	Tree	Edit	Star	nd Inpu	t															
ſ	_																											
		Ø				Stand										Land		Maj		Maj	Trees	BA Per	QM	Tons	Net Ccf	Net Mbf	Total Net	Total
	_		Cty		Tract	#	St	Twn	Rge	Src	Sec	Hrv	Net Acres	Exam Date	Plots	Class	Grown Date	Age	SI	Spc	Per Ac	Ac	Dbh	Per Ac	Per Ac	Per Ac	Ccf	Net Mbf
	• •	Tra	act: UN	ITT 1																								
	_		WA	UNIT 1		0002	OR	015	01W	TC	24		101.36	3/1/2004	57	ТІМ	3/1/2004	57	122	DF	121.41	155.08	15.3	168	58.96	26.286	5,976	2,664
	_		WA		1	0004	OR	015	01W	TC	24		30.26	3/1/2004	17	TIM	3/1/2004	60	108	DF	67.46	180.30	22.1	255	89.53	43.941	2,709	1,330
	-		WA		L 1	0013	OR	015	01W	TC	24		112 75	3/1/2004	56	TIM	3/1/2004	42	110	GE	59.85	137.90	20.6	91	41.34	17 874	4 661	2 015
	-			UNIT		0015	UK	015	0100	i.c	21		260.00	5/1/2004	142	1401	5/1/2004	52	112		96 42	146.05	20.0	141	0.95	0.207	14 225	6 460
		Тга	act: UN	стп									209.09		145	1		35	115	I	00.42	140.95		141	0.05	0.397	17,333	0,109
	- Ť		WA		,	0008	OR	015	01W	TC	25		58, 58	3/1/2004	50	TTM	3/1/2004	46	101	DE	95.61	187.08	18.9	222	78.01	36,360	4,570	2,130
	-		WA	UNIT 2	2	0009	OR	015	01W	TC	25		10.20	3/1/2004	4	TIM	3/1/2004	47	115	DF	51.70	149.42	23.0	192	67.43	32.007	688	326
		_											68.78		54			📴 Filt	er Edit	tor								23
	~	Tra	act: UN	IT 3												1		And ()									
			WA	UNIT 3	3	0016	OR	01S	01W	TC	26		11.72	3/1/2004	6	TIM	3/1/2004	L [N	let Mb	f Per A	c] Is great	er than 15	.000 😳					1
			WA	UNIT 3	3	0021	OR	01S	01W	тс	26		44.56	3/1/2004	24	TIM	3/1/2004											4
			WA	UNIT 3	3	0024	OR	01S	01W	тс	26		45.82	3/1/2004	25	TIM	3/1/2004											4
			WA	UNIT 3	3	0026	OR	01S	01W	TC	26		14.92	3/1/2004	8	TIM	3/1/2004											2
													117.02		63													
																								ОК		Cancel	Apply	
																										Carrota		

Stands > 15 MBF/Acre

di.	Supe	rACE	2017	V1-Test																								
1	File	Proj	ject S	Stands	Ownershi	ip Repo	orts	Tables	Def	aults	Help	Skins	;															
÷	irst	Prev	/ Next	t Last	Print S	ave C	olumr	n Choo	oser	Filter	Sele	ct All	Attached Fi	les Additio	nal Tree	Measu	rements											
	lome		Stand N	Aaster	Plot Loca	ation	Tree I	nput	Tree	Edit	Star	nd Inpu	t															
1																	1											
	6	0				Stand										Land		Mai		Mai	Trees	BA Per	ОМ	Tons	Net Ccf	Net Mbf	Total Net	Total
			Cty		Tract	#	St	Twn	Rge	Src	Sec	Hrv	Net Acres	Exam Date	Plots	Class	Grown Date	Age	SI	Spc	Per Ac	Ac	Dbh	Per Ac	Per Ac	Per Ac	Ccf	Net Mbf
	~	Tra	ct: UN	Π1																								
			WA	UNIT 1		0002	OR	01S	01W	TC	24		101.36	3/1/2004	57	TIM	3/1/2004	57	122	DF	121.41	155.08	15.3	168	58.96	26.286	5,976	2,664
┢	-		WA	UNIT 1		0004	OR	01S	01W	TC	24		30.26	3/1/2004	17	TIM	3/1/2004	60	108	DF	67.46	180.30	22.1	255	89.53	43.941	2,709	1,330
┢	-		WA	UNIT 1		0005	OR	015	01W	TC	24		24.72	3/1/2004	13	TIM	3/1/2004	75	98	DF	87.28	114.08	15.5	114	40.00	18.601	989	460
ŀ	-		WA	UNIT 1		0013	OR	015	01W	IC	24		112.75	3/1/2004	56	IIM	3/1/2004	42	110	GF	59.85	137.90	20.6	91	41.34	17.874	4,661	2,015
┢		T											269.09		143			53	113		86.42	146.95		141	0.85	0.397	14,335	6,469
┢	Ť	Ira				0008	00	010	0.114/	TC	25		50 50	2/1/2004	50	TTM	2/1/2004	45	101	DE	05.61	197.09	10.0	222	79.01	26,260	4 570	2 120
ŀ	-		WA			0000	OR	015	01W	TC	25		10.20	3/1/2004	50	ттм	3/1/2004	47	115	DE	51 70	140 42	23.0	102	67.43	32,007	4,570	2,130
ŀ				UNIT 2		0005	UIX	015	0100	10	25		69.79	5/1/2001	54	1201	5/1/2001		115		51.70	115/12	20.0	152	07.15	52.007		520
ŀ		Tra	ct: UN	пз									00.70		JT			- 1	Filter E	ditor								23
ŀ	ľ		WA	UNIT 3		0016	OR	015	01W	TC	26		11.72	3/1/2004	6	ТТМ	3/1/2004	And	0									
H			WA	UNIT 3	1	0021	OR	015	01W	TC	26		44.56	3/1/2004	24	TIM	3/1/2004	- L	[Net N	4bf Per	Ac] Is gre	ater than	15.000 (3				
ŀ			WA	UNIT 3	;	0024	OR	01S	01W	TC	26		45.82	3/1/2004	25	ТІМ	3/1/2004											
			WA	UNIT 3	1	0026	OR	01S	01W	тс	26		14.92	3/1/2004	8	ТІМ	3/1/2004											
													117.02		63													
Ľ																		1										
																								C	к	Cancel	Apr	oly

Filter Button Changes to Clear Filter

die s	uperA	CE	2017 V 1	-Test																									
Fi	le P	roje	ect Sta	ands (Ownership	Repo	orts	Tables	Defa	ults		Skins																	
Fi	rst P	rev	Next	Last	Print Sa	ve C	olumr	n Choo	ser	Clear F	ilter	Select	All Attac	hed Files A	dditiona	l Tree N	leasurements												
Но	me	S	tand Ma	ster	Plot Locat	ion	Tree I	nput	Tree	Edit	Stan	d Input																	
	Ø		Cty	Tr	act	Stand	St	Twn	Rge	Src	Sec	Hrv	Net Acres	Exam Date	Plots	Land Class	Grown Date	Maj Age	SI	Maj Spc	Trees Per Ac	BA Per Ac	QM Dbh	Tons Per Ac	Net Ccf Per Ac	Net Mbf Per Ac	Total Net Ccf	Total Net Mbf	
•	× 1	rac	:t: UNIT	1																									
	[•	WA U	NIT 1		0002	OR	01S	01W	TC	24		101.36	3/1/2004	57	TIM	3/1/2004	57	122	DF	121.41	155.08	15.3	168	58.96	26.286	5,976	2,664	
	[•	WA U	NIT 1		0004	OR	01S	01W	тс	24		30.26	3/1/2004	17	ТІМ	3/1/2004	60	108	DF	67.46	180.30	22.1	255	89.53	43.941	2,709	1,330	
	[•	WA U	NIT 1		0005	OR	01S	01W	TC	24		24.72	3/1/2004	13	TIM	3/1/2004	75	98	DF	87.28	114.08	15.5	114	40.00	18.601	989	460	
	[WA U	NIT 1		0013	OR	01S	01W	TC	24		112.75	3/1/2004	56	TIM	3/1/2004	42	110	GF	59.85	137.90	20.6	91	41.34	17.874	4,661	2,015	
													269.09		143			53	113		86.42	146.95		141	0.85	0.397	14,335	6,469	
	× 1	rac	t: UNIT	2																									
	[•	WA U	NIT 2		0008	OR	01S	01W	TC	25		58.58	3/1/2004	50	TIM	3/1/2004	46	101	DF	95.61	187.08	18.9	222	78.01	36.360	4,570	2,130	
			WA U	NIT 2		0009	OR	01S	01W	TC	25		10.20	3/1/2004	4	TIM	3/1/2004	47	115	DF	51.70	149.42	23.0	192	67.43	32.007	688	326	
													68.78		54			46	103		89.10	181.50		218	2.11	0.994	5,258	2,456	
	× 1	rac	t: UNIT	3																									
	[•	WA U	NIT 3		0016	OR	01S	01W	TC	26		11.72	3/1/2004	6	TIM	3/1/2004	55	129	WH	170.48	130.95	11.9	130	40.66	15.482	477	181	
	[•	WA U	NIT 3		0021	OR	01S	01W	TC	26		44.56	3/1/2004	24	TIM	3/1/2004	57	122	WH	145.22	258.05	18.1	355	110.91	49.014	4,942	2,184	
	[•	WA U	NIT 3		0024	OR	01S	01W	TC	26		45.82	3/1/2004	25	TIM	3/1/2004	50	108	DF	169.57	207.33	15.0	205	72.09	29.997	3,303	1,374	
	[WA U	NIT 3		0026	OR	01S	01W	TC	26		14.92	3/1/2004	8	TIM	3/1/2004	59	72	GF	131.21	157.61	14.8	110	50.07	18.931	747	282	
													117.02		63			54	111		155.50	212.65		243	2.34	0.969	9,469	4,022	

TABLES:

din :	SuperA	CE 2017	V1-Test																									
) F	ile P	roject	Stands	Ownership	Re	ports	Table	s De	faults H	Help	Skin	IS																
; Fi	irst P	rev Ne	xt Last	Print Sav	/e	Colum		Specie	25		All	Att	ached	Files Addition	onal Tree	Measu	irements											
н	ome	Stand	Master	Plot Locatio	on	Tree		Sort			Inp	ut																
J								Grade																				
	Ð	Chu		Treat	C 1	Stand	1	Price						Even Data	Dista	Land	Crown Data	Maj	GT	Maj	Trees	BA Per	QM	Tons	Net Ccf	Net Mbf	Total Net	Total
		ract III	NTT 1	IrdCL	SL	#		Cost			es	SIC		Exam Date	Plots	Cidss	Grown Date	Age	51	spc	Per Ac	AC	DDH	Per AC	Per AC	Per AC	ca	NetMDI
Ľ				1	OR	0002		Yield/	Normalit	y	36	TC		3/1/2004	57	TTM	3/1/2004	57	122	DE	121 41	155.08	15.3	168	58.96	26 286	5 976	2 664
			UNIT 1	• I	OR	0003		Classi	fications	•	.92	TC		3/1/2004	70	TIM	3/1/2004	65	119	DF	95.13	93.24	13.4	77	27.06	10.346	2,325	889
		WA	UNIT 1	- I	OR	0004		Crowr	Position	n	.26	TC		3/1/2004	17	TIM	3/1/2004	60	108	DE	67.46	180.30	22.1	255	89.53	43,941	2,709	1.330
		WA	UNIT 1	- L	OR	0005			Datia		.72	TC		3/1/2004	13	TIM	3/1/2004	75	98	DF	87.28	114.08	15.5	114	40.00	18.601	989	460
		WA	UNIT 1	L	OR	0006		Crown	1 Natio		. 59	тс		3/1/2004	52	TIM	3/1/2004	3	92	BM	549.55	0.10	.2		0.00	0.000		
		WA	UNIT 1	L	OR	0013		Vigor			.75	TC		3/1/2004	56	ТІМ	3/1/2004	42	110	GF	59.85	137.90	20.6	91	41.34	17.874	4,661	2,015
		WA	UNIT 1	L	OR	RMZ		Dama	ge		.31	тс		3/1/2004	4	TIM	3/1/2004	60	105	DF	34.57	67.59	18.9	67	23.55	10.965	290	135
		_						User D	efined		.91				269			49	112	1	143.72	115.52		108	0.67	0.306	16,950	7,493
F	× 1	ract: U	NIT 2				1	Poles																				
		WA	UNIT 2	2	OR	0006		Piling			.32	TC		3/1/2004	22	TIM	3/1/2004	120	115	DF	32.00	58.57	18.3	62	21.81	9.145	138	58
		WA	UNIT 2	2	OR	0007	015	01W	25	62	. 50	тс		3/1/2004	30	TIM	3/1/2004	36	88	RA	148.03	124.70	12.4	101	36.56	12.776	2,285	798
		WA	UNIT 2	2	OR	0008	01S	01W	25	58	.58	тс		3/1/2004	50	TIM	3/1/2004	46	101	DF	95.61	187.08	18.9	222	78.01	36.360	4,570	2,130
		WA	UNIT 2	2	OR	0009	01S	01W	25	10	.20	тс		3/1/2004	4	TIM	3/1/2004	47	115	DF	51.70	149.42	23.0	192	67.43	32.007	688	326
		WA	UNIT 2	2	OR	0010	01S	01W	25	7	.08	тс		3/1/2004	3	TIM	3/1/2004	53	118	DF	36.12	55.33	16.8	55	19.18	8.780	136	62
		WA	UNIT 2	2	OR	0011	01S	01W	25	15	. 12	TC		3/1/2004	7	TIM	3/1/2004	49	95	BM	93.35	139.83	16.6	88	33.23	11.191	502	169
		WA	UNIT 2	2	OR	0012	01S	01W	25	10	.45	тс		3/1/2004	7	TIM	3/1/2004	45	117	DF	108.00	146.92	15.8	109	38.11	12.897	398	135
	1 1									170	.25				123			46	99	1	107.95	145.01		144	1.73	0.723	8,717	3,679
	× 1	ract: Ul	NIT 3																									
		WA	UNIT 3	3	OR	0016	01S	01W	26	11	.72	TC		3/1/2004	6	TIM	3/1/2004	55	129	WH	170.48	130.95	11.9	130	40.66	15.482	477	181
		WA	UNIT 3	3	OR	0021	01S	01W	26	44	.56	тс		3/1/2004	24	TIM	3/1/2004	57	122	WH	145.22	258.05	18.1	355	110.91	49.014	4,942	2,184
		WA	UNIT 3	3	OR	0022	01S	01W	26	6	.09	TC		3/1/2004	3	TIM	3/1/2004	55	90	WH	85.35	82.59	13.3	74	23.15	7.351	141	45
		WA	UNIT 3	3	OR	0024	01S	01W	26	45	.82	TC		3/1/2004	25	TIM	3/1/2004	50	108	DF	169.57	207.33	15.0	205	72.09	29.997	3,303	1,374
		AW	UNIT 3	3	OR	0026	01S	01W	26	14	.92	TC		3/1/2004	8	TIM	3/1/2004	59	72	GF	131.21	157.61	14.8	110	50.07	18.931	747	282
		AW	UNIT 3	3	OR	0029	01S	01W	26	33	.73	TC		3/1/2004	16	TIM	3/1/2004	40	110	RA	171.56	155.55	12.9	111	40.46	14.404	1,365	486
		WA	UNIT 3	3	OR	0032	01S	01W	26	5	.52	TC		3/1/2004	5	TIM	3/1/2004	45	127	GF	153.00	136.63	12.8	70	31.93	10.818	176	60
										162	.36				87			51	110		156.12	193.33		203	2.27	0.899	11,151	4,613

TABLES: Species

🖳 Species Table

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Tab	ole Na	me: GEN WEST			Ŧ																	
Code	e Ab	v Description	Bark Ratio	AsubO Equ	Form Factor	Species Group	Conifer HW	Yield Table Name	Min Dia	Min Len	Max Dia	Max Len	Trim	Max Tree DBH	Max Tree Ht	BdFt Rule	CuFt Rule	Lbs	Lbs Per	Bio Mass	Percent Carbon	Percent Dry Weight
•	1 WH	WHEMLOCK	0.944	WH	WH	WH	С	WHEQUA050	5	12	108	40	1		259	W	S	6400	С	1.675	51.2	49
	2 RA	R ALDER	0.953	RA	RA	RA	н	RAEQUA050	5	12	36	40	1		130	W	S	5500	С	2.279	49.6	49
	3 BM	BL MAPLE	0.953	RA	RA	RA	н	RAEQUA050	5	12	96	40	1		110	W	S	5300	С	2.279	49.6	49
1	4 SS	S SPRUCE	0.962	SS	SS	SS	С	WHEQUA050	5	12	192	40	1		300	W	S	5200	С	1.675	51.2	49
	5 OG	OGDF	0.901	DF	DF	DF	С	DFEQUA050	5	12	200	40	1		417	W	S	5600	С	1.675	51.2	49
	6 DF	DOUG FIR	0.92	DF	DF	DF	С	DFEQUA050	5	12	200	40	1		246	W	S	5700	С	1.675	51.2	49
	7 SF	PS FIR	0.944	SS	SF	WH	С	WHEQUA050	5	12	96	40	1		246	W	S	5730	С	1.675	51.2	49
-	8 RC	WR CEDAR	0.951	SS	RC	RC	С	WHEQUA050	5	12	200	40	1		250	W	S	4700	С	1.675	51.2	49
-	9 CW	COTTONWOOD	0.94	RA	RA	CW	н	WHEQUA050	5	12	96	40	1		226	w	S	4900	С	2.279	49.6	49
1	0 PP	PONDEROSA PI	0.907	PP	PP	PP	С	PPNAT050	5	12	120	40	1		262	w	S	4800	С	1.675	51.2	49
1	1 WP	W PINE	0.95	PP	PP	WP	С	DFEQUA050	5	12	96	40	1		207	w	S	4800	С	1.675	51.2	49
1	2 MP	M PINE	0.94	PP	PP	WP	С	WHEQUA050	5	12	40	40	1		150	W	S	4800	С	1.675	51.2	49
1	4 NF	NOB FIR	0.924	NF	NF	WH	С	DFEQUA050	5	12	108	40	1		328	w	S	4800	С	1.675	51.2	49
1	6 MH	MHEMLOCK	0.944	WH	WH	WH	С	WHEQUA050	5	12	40	40	1		165	W	S	6350	С	1.675	51.2	49
2	1 PO	PO CEDAR	0.945	SS	RC	PO	С	DFEQUA050	5	12	192	40	1		225	w	S	4500	С	1.675	51.2	49
2	2 OA	OR ASH	0.953	RA	RA	RA	н	RAEQUA050	5	12	36	40	1		100	w	S	5800	С	2.279	49.6	49
2	4 OK	OR W OAK	0.953	RA	RA	RA	н	RAEQUA050	5	12	96	40	1		120	w	S	6900	С	2.279	49.6	49
2	5 TO	TAN OAK	0.94	RA	RA	RA	н	RAEQUA050	5	12	84	40	1		150	w	S	6900	С	2.279	49.6	49
3	1 RF	SH R FIR	0.924	DF	NF	WH	С	DFEQUA050	5	12	120	40	1		230	w					!	49
3	2 WF	CON FIR	0.91	SS	SF	WH	С	DFEQUA050	5	12	72	40	1		200	w	Co	dee			1	49
3	3 IC	INC CED	0.9	SS	RC	PP	С	DFEQUA050	5	12	132	40	1		186	w	00	uc.	,		1	49
3	4 YC	AY CEDAR	0.941	SS	RC	YC	С	DFEQUA050	5	12	84	40	1		130	w _	M	inin	nur	n lo	σ	49
4	1 GF	GR FIR	0.944	SS	SF	WH	С	WHEQUA050	5	12	72	40	1		250	W			iui		6	49
4	2 LP	LP PINE	0.96	DF	LP	WP	С	LPNAT050	5	12	36	40	1		151	w	Tri	m			1	49
4	3 SP	SUG.PINE	0.87	PP	PP	PP	С	PPEQUA100	5	12	120	40	1		246	w					1	49
4	4 WL	W LARCH	0.9	DF	DF	DF	С	PPEQUA100	5	12	96	40	1		210	w	Ra	rk T	Γhi	ckn	220	49
4	5 ES	E SPRUCE	0.962	SS	SS	WP	С	WHEQUA050	5	12	96	40	1		165	W	Du			CIVIT		49
4	6 AF	ALP FIR	0.94	0.333	WH	WH	С	WHEQUA050	5	12	36	40	1		160	w	Sca	aling	σR	ule		49
4	7 QA	ASPEN	0.94	RA	RA	RA	н	RAEQUA050	5	12	55	40	1		121	W	JUC	11118	5 1	ule		49
4	8 MA	MADRONE	0.94	RA	RA	RA	н	RAEQUA050	5	12	48	40	1		125	w	. \//	pigł	nt S	S'		49
4	9 CQ	CHINQUAP	0.94	RA	RA	RA	н	RAEQUA050	5	12	96	40	1		150	w	vv	Cigi	it C	x		49
5	0 CH	CHERRY	0.94	RA	RA	RA	н	RAEQUA050	5	12	30	40	1		85	w f	act	orc				49
5	1 BF	BAL FIR	0.94	SS	SS	WH	С	DFEQUA050	5	12	36	40	1		381	w	act	013				49
5	2 RW	REDWOOD	0.9	DF	DF	RW	С	RWREF050	5	12	200	40	1		200	W					1	49
5	3 OC	OTH CONF	0.944	WH	WH	WH	С	WHEQUA050	5	12	60	40	1		200	w					1	49
5	4 OH	OTH HDWD	0.94	RA	RA	RA	н	RAEQUA050	5	12	60	40	1		100	w	S	5500	С	2.279	49.6	49

TABLES: Sort (product)

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	Stan	Master	Plot Locab	00	Tree 3	nout	Tree	Eor	Star	d Input		_					_														
q	Ch		Tract	Stand	51	Twn	Rge	Src	Sec	Hrv	Net Acres	Exa	m Date	Plots	Land Class	Grown Date	Maj Age	sī	Maj Spc	Trees Per Ac	BA Per Ac	QM Dbh	Tons Per Ac	Net Ccf Per Ac	Net Mof Per Ac	Total Ne Ccf	t T Ne	otal t Mbf			
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圓	WA	UNIT 1		0002	OR	015	01W	TC	24		101.3	6 3/1/	2004	57	TIM	3/1/2004	- 57	122	DF	121.41	155.08	15.3	168	58.96	26.286	5,9	76	2,664			
	WA	UNIT 1		0003	DR	015	01W	TC	24		85.9	2 3/1/	2004	70	TIM	3/1/2004	65	119	DF	95.13	93.24	13.4	77	27.06	10.346	2,3	25	889			
	WA	UNIT 1		0004	OR.	015	01W	TC	24		30.2	Б 3/1/	2004	17	TIM	3/1/2004	60	108	DF	67.46	180.30	22.1	255	89.53	43.941	2,7	19	1,330			
	WA	UNIT 1		0005	OR	015	01W	TC	24		14.	n	990.A			ALTINGA	-		in.			10.0	- 114	45.00	10.004	1.0	9) <u>—</u>	ACR.			
	WA	UNIT 1	-	0006	OR.	015	01W	TC	24		11 Sar	rt Table																			
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	WA	UNIT 2		8000	OR.	015	01W	TC	25			_		0	au			0	1				0			0			0		1
	WA	UNIT 2		0009	OR.	015	01W	TC	25					1	OGEX	24	24	0	1	1			0			0			.0		
۵	WA	UNIT 2		0010	DR	015	a tw	TC	25					2	HIEK	5	16	0	2	i			0			0			0		
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TABLES: Price

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🖳 Price Table

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						Min	Max	Max										
	Species	Product Name	Util	Sorts	Grades	Diam	Diam	Butt	40	36-39	32-35	28-31	24-27	22-23	16-21	12-15	Units	Destination
•	*	CAMPRUN	SAW	*	*	5	99		500	225	350	450	225	175	225	500	MBF	MT VERNON
	DF WL	HIGHGRADE	SAW	1	1567	16	40		1000	300	400	600	300	250	300	150	MBF	SNOHOMISH
	DF WL	EXPORT	EXP	23	12	12	99		625	600	575						MBF	EVERETT
	DF WL	OVERSIZED	SAW	8	1234	22	99		375	360	353	319	263	263	300		MBF	DARRINGTON
	DF WL	SAWMILL	SAW	18	123	6	99	31	600	576	564	510	420	420	480	357	MBF	DARRINGTON
	DF WL	POLES	POLES	PG	1234	4	99		600	576	564	510	420	420	480	357	MBF	ARLINGTON
	DF WL	UTILITY	UTIL	9	49	4	99		30	30	30	30	30	30	30	30	TON	EVERETT
	DF WL	CAMPRUN	SAW	*	*	4	99		450	250	350	400	250	150	250	225	MBF	MT VERNON
	MA BM CH	SAWMILL	SAW	18	1234	6	99	24	550	500	550	550	500	150	500	550	MBF	MT VERNON
	MA BM CH	UTILITY	UTIL	9	49	5	99		30	30	30	30	30	30	30	30	TON	EVERETT
	RA	HIGHGRADE	SAW	1	1	16	99		500	225	350	450	225	175	225	500	MBF	MT VERNON
	RA	EXPORT	EXP	23	12	14	99		600		500	550				600	MBF	MT VERNON
	RA	SAWMILL	SAW	18	1234	6	99	28	350	200	250	250	200	100	200	350	MBF	MT VERNON
	RA	OVERSIZED	SAW	8	1234	29	99		250	200	250	250	200	100	200	250	MBF	MT VERNON
	RA	UTILITY	UTIL	9	49	5	99		30	30	30	30	30	30	30	30	TON	EVERETT
	RC	HIGHGRADE	SAW	1	1	16	99		600	550	600	600	550	500	550	600	MBF	EVERETT
	RC	SAWMILL	SAW	18	1234	6	99	30	550	500	550	550	500	150	500	550	MBF	EVERETT
	RC	UTILITY	UTIL	9	49	5	99		30	30	30	30	30	30	30	30	TON	EVERETT
	RC	POLES	POLES	PG	1234	0	99		550	500	550	880	500	150	500	550	MBF	ARLINGTON
	SS	CAMPRUN	SAW	*	*	4	99		250	250	250	250	250	250	250	250	MBF	TACOMA
	WH GF SF NF	HIGHGRADE	SAW	1	1	16	99		500	225	350	450	225	175	225	150	MBF	SNOHOMISH
	WH GF SF NF	EXPORT	EXP	23	12	12	99		600	525	500	550					MBF	EVERETT
	WH GF SF NF	SAWMILL	SAW	18	1234	6	99	28	350	200	250	300	200	150	200	350	MBF	DARRINGTON
	WH GF SF NF	OVERSIZED	SAW	8	1234	0	99		250	200	250	250	200	100	200	250	MBF	DARRINGTON
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		P	Cty		Tract	Stand #	St	Twn	Rge	Src	Sec	Hrv	Net	Acres	Exam Date	Plot	Land Class	Grow	n Date	Maj Age Si	I	Maj Spc	Tree Per /
	• •	Tra	act: UN	Π1																			
	WA UNIT 1 0002 OR 01S 01W TC 24 WA UNIT 1 0003 OR 01S 01W TC 24 WA UNIT 1 0003 OR 01S 01W TC 24 WA UNIT 1 0004 OR 01S 01W TC 24 WA UNIT 1 0004 OR 01S 01W TC 24																						
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			WA	UNIT 1	L	0004	OR	01S	01W	TC	24			Add	Delete								
	WA UNIT 1 0003 OR 01S 01W TC 24 WA UNIT 1 0004 OR 01S 01W TC 24 WA UNIT 1 0005 OR 01S 01W TC 24 WA UNIT 1 0005 OR 01S 01W TC 24 WA UNIT 1 0005 OR 01S 01W TC 24																						
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			WA	UNIT 1		0013	OR	01S	01W	TC	24			Tab	le Name: G	ENERAL				•			
	Image: WA with the second s																						
														COSL	nauling								
	~	Tra	act: UN	IT 2												Avg Load	Round Trip			Truck Cost pe	er		
			WA	UNIT 2	2	0006	OR	01S	01W	TC	25			De	estination	Tons	Miles	Hours	Minutes	Hour	5		
	WA UNIT 2 0006 OR 01S 01W TC 25 Destination Tons Miles Hours Minutes Hour \$ WA UNIT 2 0007 OR 01S 01W TC 25 ARLINGTON 28.0 70 2 40 85.00																						
	WA UNIT 2 0007 OR 01S 01W TC 25 ARLINGTON 28.0 70 2 40 85.00 WA UNIT 2 0008 OR 01S 01W TC 25 DARRINGTON 28.0 70 2 40 85.00																						
			WA	UNIT 2	2	0009	OR	01S	01W	TC	25			DEMI	ING	28.0	160	4	40	85.0)0		
			WA	UNIT 2	2	0010	OR	01S	01W	тс	25			EVER	ETT	28.0	100	2	50	85.0	00		
			WA	UNIT 2	2	0011	OR	01S	01W	TC	25			MT V	ERNON	28.0	120	2	50	85.0)0		
			WA	UNIT 2	2	0012	OR	01S	01W	TC	25			SNO	HOMISH	28.0	100	2	5	85.0	00		
														TACO	DMA	28.0	180	4	50	85.0	00		
																						28	

Stand Master

each stand has this as control

Alie SuperACE 2017 V1-Test															
File Project Stands Ownership Reports Tables Defaults	lelp Skins														
First Prev Next Last Print Save Attached Files Additional	Tree Measurements														
Home Stand Master Plot Location Tree Input Tree Edit	Stand Input														
Project State County Tract	Stand # Twn	Rge Sec Net Acres Plots	Cruise or Input Date: 3/1/2004												
DEMO OR - WA - UNIT 1	0004 015	01W 24 30.26 17	Stand Grown To: 3/1/2004 Grow												
Species Table Sort Table Grade Table Price Table Cost Table GEN WEST NW SORTS NW GRADES GENERAL GENERAL Auto Segment Length: 0 Non-Stocked Table Non-Timbered Table Harvest Table Growth Model															
3EN WEST NW SORTS NW GRADES GENERAL GENERAL Auto Segment Length: Auto Segment Length: Harvest Table Growth Model Gro															
Non-Stocked Table Non-Timbered Table Non-Timbered Table Harvest Table Growth Model															
Non-Stocked Table Non-Timbered Table Harvest Table Growth Model															
Non-Stocked Table Non-Timbered Table Harvest Table Growth Model Image: Control of the system of the															
Dist Darling Asso Dist Dist	Proportional Plot (BAF) Fixed Area Strip Cruise Age Codes Proportional Plot (BAF) Strip														
Input BAF Factor Calc Code Acres Radius	1 2 Up	Ft in Ft Up	Age sion Measured val												
B1: 13.61 2.3572 A1: ▼ 0.000 0.00	0.00 0.00 0.00	S1: 0 0 0.00	1: 60 1 12/1/2016 - 0												
B2: 17.78 2.0623 A2: ▼ 0.000 0.00	0.00 0.00 0.00	S2: 0 0 0.00	2: 105 2 12/1/2018 - 2												
B3: 22.5 1.8333 A3: ▼ 0.000 0.00	0.00 0.00 0.00	S3: 0 0 0.00	3: 75 3 12/1/2022 • 4												
B4: 27.78 1.6499 A4: 🔽 0.000 0.00	0.00 0.00 0.00	S4: 0 0 0.00	4: 0												
B5: 33.61 1.5000 A5: ▼ 0.000 0.00	0.00 0.00 0.00	S5: 0 0 0.00	5: 0												
			6: 0												
Site Index by Species Hauling Calculations			7: 0												
Site Species Species Index	Avg Round Load Trip	Truck Cost per	8: 0												
DE T T 108 Destination	Tons Miles Hours Minu	tes Hour \$	9: 0												
	28.0 180 4	50 85.00													
	28.0 120 2	50 85.00													
DARRINGTON	28.0 40 1	50 85.00	T												
ARLINGTON	28.0 70 2	40 85.00													

Sight Point (in/out) can be different from Form Point (taper length)

File Project Stands Ownership Reports Tables Defaults Help Skins First Prev Next Last Print Save Column Chooser Attached Files Additional Tree Measurements																					
Hom	Stand Master Plot Location Tree Enput Tree Edit Stand Input																				
UNI	Tract Stand # Twn Rge Sec Net Acres Species Table Sort Table Grade Table Price Table Cost Table NIT 1 0004 015 01W 24 30.26 GEN WEST NW SORTS NW GRADES GENERAL GENERAL Root Group Data Taken Load Data Habitat Coordinates Per Acre by Plot																				
	Root Group Data Taken Load Data Habitat Coordinates Per Acre by Plot																				
	Notes Notes Notes Notes Notes Notes Image: Angle of the state of																				
•	Image: Constrained by the state of																				
		A035		TOBY	FP									0	0	0	215.069	72.54	11,171	59,554	
		A040		TOBY	FP									0	0	0	343.463	211.75	15,324	72,569	
		A041		TOBY	FP									0	0	0	287.759	286.73	8,748	39,795	
		A042		TOBY	FP									0	0	0	117.657	117.36	3,962	15,949	
		A134		TOBY	FP									0	0	0	160.292	39.67	7,775	38,305	
		A135		TOBY	FP									0	0	0	182.877	34.88	9,485	48,051	
		A136		TOBY	FP									0	0	0	155.196	25.17	9,516	48,251	
		A137		TOBY	FP									0	0	0	189.250	22.88	12,006	62,297	
		A138		TOBY	FP									0	0	0	123.256	39.57	5,421	29,422	
		A139		TOBY	FP									0	0	0	65.350	13.45	3,313	14,528	
		A140		TOBY	FP									0	0	0	154.518	30.51	8,856	46,124	
		A141		TOBY	FP									0	0	0	157.336	27.54	9,032	44,452	
		A142		TOBY	FP									0	0	0	221.080	48.49	12,025	63,027	
		A150		TOBY	FP									0	0	0	221.831	68.71	11,147	48,365	
		A151		TOBY	FP									0	0	0	184.099	46.28	9,984	48,288	
		A152		TOBY	FP									0	0	0	158.109	27.36	8,586	39,722	

Why sight at 16 feet above stump? 16 Ft sight point for trees in/out is above the brush



Tree Measurement Screen

đ,	SuperA	CE 2017	/1-Te	st																																						
1	File P	roject S	tand	s Ov	wnersh	nip	Repo	rts Ta	able	5 C)efaul	ts He	elp Sk	ins																												
÷	First P	rev Next	Las	t Pi	rint	Save	Co	lumn (Cho	oser	Ad	dition	al Tree I	Meas	uren	nent	s	Mea	sure	e Fro	om E)ista	nce	•																		
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	T125	1	B3	1	DF		1	17.0	16	85	40	80	100						6	3	40	-					8	4		-	_				-	-		-	-			
	T125	2	B3	1	DF		1	11.0	16	89	40	79	99						8	3	40						8	4														
	T125	3	B3	1	DF		1	14.0	16	89	40	87	109						6	3	40						8	4										-				
	T125	4	B3	1	DF		1	19.0	16	87	40	75	93						5	2	40						8	4														
	T125	5	B3	3	DF		1	23.0	16	86	40	86	107						5	2	40						6	3	40													
	T126	1	B3	3	DF		1	23.0	16	81	40	95	119						8	2	40	4	1				8	4	40		4											
	T126	2	B3	3	DF		1	33.0	16	84	40	111	140						5	2	40	2	2				8	2	40	1	1				8	3		4				
	T126	3	B3	3	DF		1	28.0	16	85	40	112	141						5	2	40	1	1				5	2	40	2					8	3		4				
	T127	1	B3	1	RA		1	16.0	16	84	40	90	112						9	4	20						9	4	30	2		2										
	T127	2	B3	1	RA		1	9.0	16	88	40	54	65						9	4	40																					
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Top Diameter or Top Diameter Fraction

- A point in the upper bole where the height is measured to a diameter or a fraction of the diameter at 16 feet (FORM POINT).
- Use top diameter or top diameter fraction when the top is damaged or you cannot see the top.
- Trees with damaged tops or broken tops must be measured to a Top Diameter or Top Diameter Fraction. Otherwise, the taper functions may give you bad diameters in all of the logs in the tree.

4/10ths or 5/10ths is typical for normal trees It is a point of taper change



Basic Measurements





Tree heights need to be measured as they are, not estimated to an imaginary total height



Measurements are Taken to Fit the Tree

- Taken above stump cruiser decides what stump will be
- Form Factor measures high taper butt
- Bole Length between stump & Top Fraction
- Top Fraction point at which tree taper changes again

Then Behre's Hyperbola can work and Scaling diameter is calculated for any log length

Cruiser Decisions:

- Fit in most valuable
 - Sorts
 - Log lengths
 - Diameters (grades)
- Take scaling defect on logs
- Take out defect as it would be bucked out
- Make judgment allowances for breakage

Measuring trees for a cruise is a 2 step process

1. We measure DBH, form factor (taper) & bole height to a top fraction.

This builds the TREE SHAPE

2. Then we cut it down and make logs out of it.
Logs are what volume and value come from.

Measure @Distance Calculator

die s	SuperAC	CE 2017 V1-7	Test																																											
File Project Stands Ownership Reports Tables Defaults Help Skins First Prev Next Last Print Save Column Chooser Additional Tree Measurements Measure From Distance																																														
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Stand Input (details) & Grown Data

di.	SuperAC	E 201	.7 V1-T	est												
	File Pro	oject	Stan	ds Owr	nershi	p Re	eports Ta	bles Defa	ults Help	p Ski	ns					
	First Pre	v N	ext La	st Prin	nt S	ave										
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ľ]				L					
	Origina	I														
	Spc	St	Age	Birth Year	SI	DC Ht	Norma- lity	Basal Area	Trees /Ac	Dbh	Logs /Ac	Gross CuFt /Ac	Net CuFt /Ac	Gross BdFt /Ac	Net BdFt /Ac	
	BM		60	1944	100	0	8	13.583	18.950	11.0	15.954	203	203	786	786	
	BM		75	1929	100	0	3	4.528	4.101	14.0	4.101	99	99	286	286	
	DF		75	1929	108	0	8	20.204	12.456	17.0	25.387	901	901	4,320	4,269	
	DF		105	1899	108	0	44	132.935	24.898	31.0	78.666	7,409	7,386	40,854	36,860	
	DF	D	105	1899	108	0	1	3.538	0.561	34.0	1.406	196	187	1,185	1,045	
	RA		60	1944	100	0	2	3.541	6.248	10.0	9.024	82	82	305	305	
	RC		105	1899	70	0		1.968	0.250	38.0	0.750	86	86	432	387	
							66	180.297	67.464		135.287	8,976	8,945	48,170	43,938	
ſ	Update	d														
	Spc	St	Age	Birth Year	SI	DC Ht	Norma- lity	Basal Area	Trees /Ac	Dbh	Logs /Ac	Gross CuFt /Ac	Net CuFt /Ac	Gross BdFt /Ac	Net BdFt /Ac	
	BM		60	1944	100		8	13.583	18.950	11.0	15.954	203	203	786	786	
	BM		75	1929	100		3	4.528	4.101	14.0	4.101	99	99	286	286	
	DF		75	1929	108		8	20.204	12.456	17.0	25.387	901	901	4,320	4,269	
	DF		105	1899	108		44	132.935	24.898	31.0	78.666	7,409	7,386	40,854	36,860	
	DF	D	105	1899	108		1	3.538	0.561	34.0	1.406	196	187	1,185	1,045	
	RA		60	1944	100		2	3.541	6.248	10.0	9.024	82	82	305	305	
	RC		105	1899	70			1.968	0.250	38.0	0.750	86	86	432	387	

Edit Screen – Live Linked to Data

ACE	E 2017 \	/1-Tes	t																																
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						-													3 5	2	34		-		0.920)	0.00	0.000	117	19.3	13.7	49	210	84	
																			4 0	0	2				0.920)	0.00	0.000	119	13.7	13.3	0	0	0	Cull Segment
																			58	4	20				0.920)	0.00	0.000	140	13.3	8.7	13	40	10	
																																321	1740		
	A034	4	4 B3	75	BM		1	19.0	16	5 78		48	69						1 9	4	30				0.953		36.98	18.783	31	20.6	12.0	45	150	5	
																																45	150		
						_																										1.	5140		
	4035		1 83	105	DE		1	43.0	16			160	100						1 2	8	40				0.920		29.05	2 891	41	47.9	32 5	304	1750	875	
	4055		. 03	103		-	1	-5.0	10	, 00		100	199						2 5	2	40		-		0.920		0.00	0.000	82	32.5	28.0	191	1300	585	
									+	-									3 8	3	40		+		0.920		0.00	0.000	123	28.0	21.8	128	700	315	
			-			-	-		+	+									4 0	0	2		+		0.920)	0.00	0.000	125	21.8	21.4	0	0	0	Cull Segment
									+	+									5 8	3	40		+		0.920)	0.00	0.000	166	21.4	12.4	64	200	90	
									1	-									6 0	0	+				0.920)	0.00	0.000	166	12.4	12.4	0	0	0	Cull Seament

List of Reports

nine :	Sup	Dee	ject Stands Ownership Reports Tables Defaults Help Skins v Next Last Print Save Column Chooser Filter Select All Attached Files Additional Tree Measurements Stand Master Plot Location Tree Input Tree Edit Stand Input																										
1	-iie	Pro	Vext Last Print Save Column Chooser Filter Select All Attached Files Additional Tree Measurements Stand Master Plot Location Tree Input Tree Edit Stand Input																										
:	-irst	Prev	ev Next Last Print Save Column Chooser Filter Select All Attached Files Additional Tree Measurements Stand Master Plot Location Tree Input Tree Edit Stand Input																										
	lome		Stand Master Plot Location Tree Input Tree Edit Stand Input Cty Tract Stand # St Twn Rge Src Sec Hrv Net Acres Exam Date Plots Class Grown Dete																										
Г	Т	_	Cty Tract Stand # St Twn Rge Src Sec Hrv Net Acres Exam Date Plots Land Class Maj act: UNIT 1 WA UNIT 1 0002 OR 015 01W TC 24 101.36 3/1/2004 57 TIM 3/1/2004 57																										
		P	Chu			Stand	C1	Turn	Dee	Con	Care	Line	Not Arros	Even Data	Dista	Land	Craw Dr		Maj		Maj	Trees	BA Per	QM	Tons	Net Ccf	Net Mbf	Total Net	Total
		Tra	ct: UN	ITT 1	ract	#	St	Twn	кge	SIC	Sec	Hrv	Net Acres	Exam Date	Plots	Class	Grown Da		Repor	ts									23
			WA	UNIT 1		0002	OR	015	01W	TC	24		101.36	3/1/2004	57	TIM	3/1/2004	:	Proces	is C	ancel	Save Re	port Re	cent Rep	orts				
Ŀ			WA	UNIT 1		0003	OR	01S	01W	TC	24		85.92	3/1/2004	70	TIM	3/1/2004	Ė											
			WA	UNIT 1		0004	OR	01S	01W	TC	24		30.26	3/1/2004	17	TIM	3/1/2004		🔘 Ind	ividua	í ()	Combined		Over	ride Spe	cies Table			
			WA	UNIT 1		0005	OR	01S	01W	TC	24		24.72	3/1/2004	13	TIM	3/1/2004	1	-										
			WA UNIT 1 0006 OR 01S 01W TC 24 51.59 3/1/2004 52 TIM 3/1/2004 Reg WA UNIT 1 0013 OR 01S 01W TC 24 112.75 3/1/2004 56 TIM 3/1/2004 Image: constraint of the second sec															Repor	ts										
			WA UNLI 1 0006 OR 01S 01W TC 24 51.59 3/1/2004 52 TIM 3/1/2004 Reg WA UNIT 1 0013 OR 01S 01W TC 24 112.75 3/1/2004 56 TIM 3/1/2004 Image: March and a straight and straight and straight and straing straight and a straing strai																Acre	s									
			WA UNIT 1 0013 OR 01S 01W TC 24 112.75 3/1/2004 56 TIM 3/1/2004 Image: Mail and Mai																Age	Class									
			WA UNIT 1 RMZ OR 01S 01W TC 24 112.75 3/1/2004 4 TIM 3/1/2004 Image: Mail of the state															¥ 🗖	Edit	Trop Co	amont Vo	lumo							
	~	Tra	WA UNIT 1 RMZ OR 01S 01W TC 24 12.31 3/1/2004 4 TIM 3/1/2004 418.91 269 act: UNIT 2 WA UNIT 2 0006 OR 01S 01W TC 25 6.32 3/1/2004 27 TIM 3/1/2004																	lot Tre	e List Det	ails							
			act: UNIT 2 0006 OR 015 01W TC 25 6.32 3/1/2004 22 TIM 3/1/2004																F	lot Tre	e List By \	/olume							
			WA	UNIT 2		0007	OR	01S	01W	TC	25		62.50	3/1/2004	30	TIM	3/1/2004	E	- 🗖	Eval	uation								
			WA	UNIT 2		8000	OR	01S	01W	TC	25		58.58	3/1/2004	50	ТІМ	3/1/2004				Timber \	Value Ana	lysis						
			WA	UNIT 2		0009	OR	01S	01W	TC	25		10.20	3/1/2004	4	TIM	3/1/2004	L	~ 🗆	Cata	log								
			WA	UNIT 2		0010	OR	01S	01W	TC	25		7.08	3/1/2004	3	TIM	3/1/2004	H	-		Catalog	- Species	by Volume						
			WA	UNIT 2		0011	OR	01S	01W	TC	25		15.12	3/1/2004	7	ТІМ	3/1/2004	H		Grow	tand Li	ist keport							
	-		WA	UNIT 2		0012	OR	01S	01W	TC	25		10.45	3/1/2004	7	TIM	3/1/2004	H	-	Log	Sorts a	nd Grade							
													170.25		123			E			Species,	, Sort, Gra	ade - Board	Foot Vo	lumes				
	~	Tra	ct: UN	ПТ З														E	1	F	ole and	d Piling							
			WA	UNIT 3		0016	OR	01S	01W	TC	26		11.72	3/1/2004	6	TIM	3/1/2004				og Sto	ck - MBF b	y Species,	Sort, Gra	ade, Len	, Dia Clas	;		
			WA	UNIT 3		0021	OR	01S	01W	TC	26		44.56	3/1/2004	24	TIM	3/1/2004	L	-		og Sto	ck - CCF b	oy Species,	Sort, Gra	ade, Len	, Dia Class	;		
	_		WA	UNIT 3		0022	OR	01S	01W	TC	26		6.09	3/1/2004	3	TIM	3/1/2004	H			.og Sto	ck - TON b	by Species,	Sort, Gr	ade, Len	, Dia Clas	5		
	-		WA	UNIT 3		0024	OR	01S	01W	TC	26		45.82	3/1/2004	25	TIM	3/1/2004	H		Pern	vestati	PIOT							
	-		WA	UNIT 3		0026	OR	015	01W	TC	26		14.92	3/1/2004	8	ΠМ	3/1/2004	E		Site	Index/E	Bark							
	-		WA	UNIT 3		0029	OR	015	01W	TC	26		33.73	3/1/2004	16	ТІМ	3/1/2004	E	-	Spec	ies								
┢	-		WA	UNIT 3		0032	OR	015	01W	IC	26		5.52	3/1/2004	5	IIM	3/1/2004				species	Summary	- Trees, Lo	ogs, Volu	mes, Per	cents			
ŀ													162.36		87						Species	Summary	- Trees, B	A, QMD,	Volumes				
																		L	~ 🗆	Stat	stics								
																		H			Statistic	s of the S	ampled Po	pulation					
																		H	× 🗆	Stan	d Table	e ummary P	eport						
																				Tabl	es	uninai y R	cport						
																			-	Rela	tionship	os							
																			1	F	Relation	ships by s	Species						44
																			-	_	_				_				الغبيب

Plot Reports –

data as entered

												Plot Tre	e List	De	etails									
State, Cou	nty: (DR.	7	VA						Cruise	Date:	03/01/2004				Species:		GEI	N WE	ST		Dat	e: (04/11/2017
Project:	I	DEMO)							Grown	Date:	03/01/2004				Sort:		NW	SOR	TS		Pag	a:	1/13
Tract:	Ţ	UNIT	1						1	Modifi	ed Date					Grade:		NW	SOR	TS				
Stand:	(0002								# Plots: # T		57				Price:		GEI	TER	AL.				
Acres:		101.30								# Ifees		294				Cost:		GEI	NERA	τ.				
													8	G				s	G			G	÷	
	Tree #	DE			S t cm	DU	ED	FF	TDE	Bole	Total H+		S r	ſ			S #	ſ	ſ	TELELA	S #	ſ		FIFIN
Plot		Pr B3	1	DF	1	120	16	71	1DF 40	70	95	CP CR DM VI UD		<u>م</u>	34	70		t g	4	Ln FI FI %	-		LI	n 11 11 %
A001	2	B3	1	DF	1	18.0	16	88	40	78	109		15	2	36		2	8	3	38				
A001	3	B3	1	DF	1	19.5	16	88	40	85	112		1 5	2	40		2	8	4	40				
A001	4	B3	1	DF	1	17.0	16	89	40	77	109		1 5	2	34		2	8	3	38				
A001	5	B3	1	DF	1	10.5	16	87	40	64	85		1 8	3	40									
A001	6	B3	1	DF	1	14.0	16	89	40	74	99		1 6	3	40		2	8	4					
A001	7	B3	1	DF	1	8.5	5 16	87	40	58	77		1 8	4	38									
A002	1	B3	1	DF	1	19.0	16	83	40	75	104		15	2	34		2	8	4	40				
A002	2	B3	1	DF	1	23.0	16	85	40	85	119		15	2	40		2	8	3	40	3	0 0		
A002	3	B 3	1	DF	1	16.5	16	87	40	71	100		16	3	40		2	8	4	40				
A002	4	B3	1	DF	1	17.0	16	89	40	65	89		15	2	30		2	8	4	32				
A002	5	B 3	1	DF	1	18.0	16	88	40	78	115		15	2	30		2	0	0	03	3	3 3	4(04
A003	1	B 3	1	DF	1	8.7	16	87	40	48	75		1 8	4	40 6									
A003	2	B 3	1	DF	1	12.0	16	87	40	64	86		16	3	30		2	8	4					
A003	3	B3	1	DF	1	19.0	16	85	40	78	119		1 8	2	16 4		2	6	3	40	3	84		
A003	4	B 3	1	DF	1	16.0	16	89	40	69	98		16	3	40		2	8	4	40				
A003	5	B 3	1	DF	1	11.0	16	88	40	70	104		1 8	3	40		2	8	4					
A003	6	B 3	1	DF	1	24.0	16	87	40	92	130		15	2	40		2	8	3	40 6				
A003	7	B 3	1	DF	1	20.5	16	85	40	95	128		15	2	34		2	6	3	40				
A003	8	B 3	1	DF	1	105.0	16	87	40	60	80		1 8	3	40									
A003	9	B 3	1	DF	1	17.0	16	87	40	87	113		1 8	2	16 2		2	6	3	40	3	84		
A003	10	B 3	1	DF	1	11.0	16	89	40	65	84		1 8	3	40		2	8	4					

Plot Reports –

individual cruise tree detail calculations

					Edit	Repo	ort - P	lot Ti	ree L	ist by	Volur	ne				
State, Co	unty:	OR	WA	Cn	uise Date:	03/01	1/2004		S	pecies:	GEN	WEST			Date: 04/	11/2017
Project:		DEMO		Gr	own Date:	03/01	1/2004		S	ort:	NW	SORTS			Page: 1/10)
Tract:		UNIT 1		Mo	dified Dat	ec			C	Hade:	NW	SORTS				
Stand:		0002		# P	lots:	57			F	rice:	GEN	ERAL				
Acres:		101.36		# T	rees:	294			c	Cost:	GEN	ERAL				
Plot #	Tree #	PF	Age	Spp	St	Tree Cnt	Dbh	FF	Total Ht	BA /Ac	Trees /Ac	Logs /Ac	Net CuFt /Ac	Net BdFt /Ac	Total Net Ccf	Total Net Mbf
A001	1	22.5	57	DF		1	12.0	86	95	30.4	38.73	77.5	909	3,873	16	7
	2	22.5	57	DF		1	18.0	88	109	29.1	16.44	32.9	1,006	3,946	18	7
	3	22.5	57	DF		1	19.5	88	112	29.1	14.01	28.0	1,123	4,203	20	7
	4	22.5	57	DF		1	17.0	89	109	28.4	18.02	36.0	1,005	4,145	18	7
	5	22.5	57	DF		1	10.5	87	85	29.7	49.44	49.4	733	2,966	13	5
	6	22.5	57	DF		1	14.0	89	99	28.4	26.57	53.1	947	3,986	17	7
	7	22.5	57	DF		1	8.5	87	77	29.7	75.44	75.4	696	3,017	12	5
Plot										204.80	238.65	352.4	6,419	26,136	114	46
A002	1	22.5	57	DF		1	19.0	83	104	32.7	16.59	33.2	1,083	3,483	19	6
	2	22.5	57	DF		1	23.0	85	119	31.1	10.79	32.4	1,210	4,641	22	8
	3	22.5	57	DF		1	16.5	87	100	29.7	20.02	40.0	982	3,603	17	6
	4	22.5	57	DF		1	17.0	89	89	28.4	18.02	36.0	856	3,244	15	6
	5	22.5	57	DF		1	18.0	88	115	29.1	16.44	49.3	939	3,946	17	7
Plot										150.99	81.86	191.0	5,069	18,918	90	34
A003	1	22.5	57	DF		1	8.7	87	75	29.7	72.01	72.0	577	2,160	10	4
	2	22.5	57	DF		1	12.0	87	86	29.7	37.85	75.7	803	3,406	14	6
	3	22.5	57	DF		1	19.0	85	119	31.1	15.82	47.4	949	3,638	17	6
	4	22.5	57	DF		1	16.0	89	98	28.4	20.34	40.7	908	3,662	16	7
	5	22.5	57	DF		1	11.0	88	104	29.1	44.03	88.1	875	3,962	16	7
	6	22.5	57	DF		1	24.0	87	130	29 .7	9.46	18.9	1,158	4,731	21	8
	7	22.5	57	DF		1	20.5	85	128	31.1	13.59	27.2	1,161	4,891	21	9
	8	22.5	57	DF		1	105.0	87	80	29.7	0.49	0.5	762	3,456	14	6
	9	22.5	57	DF		1	17.0	87	113	29.7	18.86	56.6	1,017	4,338	18	8
	10	22.5	57	DF		1	11.0	89	84	28.4	43.04	86.1	739	3,013	13	5
Plot										296.78	275.49	513.1	8,949	37,257	159	66

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Plot Reports –

calculations on per segment (log) basis

State Country OF WA Covice Date: 02/01/2004 Service CENTRET Date: 02/01/2004																						
State, County:	OR	WA		Cruise	Date:	03/01	/2004		Speci	ies:			GEN	I WE	ST				D	ate:	04/11/2	017
Project:	DEMO			Grown	n Date:	03/01	/2004		Sort:				NW	SOR	TS				Pa	ige:	1/29	
Tract:	UNIT I	L		Modif	fied Date:				Grad	e:			NW	SOR	TS							
Stand:	0002			#Plot	5:	57			Price	:			GEN	JERA	L							
Acres:	101.36			# Tree	15:	294			Cost:				GEN	IERA	L							
Tree Plot # PF	A g e SP(s c T ci	DBH	FP	T D FF F	Bole Ht	Total Ht CP	CR DM VI	T5	S E G	S R T	G R D	Ln	FI	FI	%	Bark	Len	Butt	Top	Net CuFt	Net BdFt
A001 1 B3	3 57 D	F 1	12.	0 16	86 40	70	95			1	6	3	34				.92	35	11.9	8.1	17	70
					20			20.724		2	8	4	26				.92	62	8.1	5.1	23	30
	A	J: 0.5	./	BA:	30.4	+2	1/A:	38.734													23	100
A001 2 B3	57 D	F 1	18.	0 16	88 40	78	109			1	5	2	36				.92	37	17.6	12.5	43	180
	A	D: 0.5	17	BA:	29.	05	T/A:	16.442		-	8	2	28				.92	/0	12.5	0.3	61	240
A001 3 B3	57 D	F 1	19.	5 16	88 40	85	112			1	5	2	40				.92	41	19.2	13.4	58	240
		_								2	8	4	40				.92	82	13.4	7.0	22	60
	A	D: 0.5	17	BA:	29.0	5	T/A:	14.009													80	300
A001 4 B3	57 D	F 1	17.	0 16	89 40	77	109			1	5	2	34				.92	35	16.5	12.1	37	170
					20			10.021		2	8	3	38				.92	74	12.1	6.2	19	60
	A	J: 0.5	17	BA:	28.4	¥1	T/A:	18.021													20	230
A001 5 B3	57 D	F 1	10.	5 16	87 40	64	85			1	8	3	40				.92	41	10.3	6.4	15	60
	A	D: 0.5	17	BA:	29.1	73	T/A:	49.435													15	60
A001 6 B3	57 D	F 1	14.	0 16	89 40	74	99			1	6	3	40				.92	41	13.6	9.3	27	120
			_	-						2	8	4	29				.92	71	9.3	5.2	8	30
	A	D: 0.5	17	BA:	28.4	41	T/A:	26.572													36	150
A001 7 B3	57 D	F 1	8.	5 16	87 40	58	77			1	8	4	38				.92	39	8.3	5.1	9	40
	A	D: 0.5	17	BA:	29.1	73	T/A:	75.436													9	40
Plot				BA:	204.	80	T/A:	238.649													6,419	26,136

Catalog Report –

usually matched with type map of section

					•	Catal	og -	Spe	cie	s By	Volur	ne						
State, Co	unty: OR	WA		Cruis	se Date:	03/01/2	004			Sp	ecies:	GEN	WEST			Date	: 04/11	/2017
Project:	DEMO			Grow	n Date:	03/01/2	004			So	rt:	NW S	ORTS			Page	e 1/1	
Tract:	+									Gn	ade:	NW S	ORTS			-		
Stand:										Pri	ce:	GENE	RAL					
Acres										Co	at.	GENE	RAL					
Stand								Total		BA	Trees	Logs	Avg	Log	Net Ccf/	Net Mbf /	Total Net	Total Net
#	Acres Src	Date	Age	SI S	Spp St	Dbh	FF	Ht	Stk	/Ac	Ac	/Ac	CuFt	BdFt	Ac	Ac	Ccf	Mbf
I ract:	UNITI	1	wh: 0.	15	Kge:	01W	51	BC: 24		SE C	JK C	AY: WA						
0002	101.36 TC	3/2004	57	99 1	BM	10.0	83	40	0	0.6	1.03	1.0	10	30	10	31	10	3
			57	00 1	DF MA	12.0	87	90 56	0	38.5	07.50	113.3	28	/s 60	1,926	8,223	1,952	833
			57	99 1	RA	10.0	85	62	0	9.1	16.76	19.6	11	44	224	856	227	87
		Age	57			12.1	70	76		69.3	86.28	134.9	15	62	2,187	9,166	2,217	929
			80	122 1	DF	17.7	87	113	0	29.4	17.21	37.8	33	146	1.253	5,535	1.270	561
			80	99 1	RA	16.1	86	69	0	4.8	3.36	4.8	25	78	119	375	120	38
		Age	80			17.5	142	145		34.2	20.57	42.6	34	150	1,372	5,910	1,391	599
			121	99 1	BM	25.2	83	86	0	0.6	0.17	0.3	49	180	17	62	17	6
			121	122 1	DF	25.8	86	123	0	47.6	13.08	35.9	62	303	2,227	10,877	2,258	1,103
			121	99 1	RA	18.6	85	78	0	1.6	0.85	0.8	52	160	44	136	44	14
			121	99 1	RC	23.9	75	80	0	0.7	0.22	0.4	52	135	23	59	23	6
			121	110	wn	20.9		•/	•	1.1	0.24	0.7	50	107	20	/0	20	•
		Age	121			25.5	104	133		51.0	14.50	38.3	03	300	2,337	11,210	2,369	1,130
Stand	0002					15.3	86	95		155.1	121.41	215.8	27	122	5,896	26,286	5,976	2,664
Tract:	UNIT 1	Т	wn: 0	1S	Rge:	01W	Se	sc: 24		St. (OR C	ity: WA						
0003	85.92 TC	3/2004	56	91 1	BM	25.4	82	70	0	7.0	2.00	3.3	56	185	187	618	161	53
			56	119 1	DF	23.5	86	122	0	7.4	2.46	6.4	49	225	316	1,448	272	124
			56	91 1	RA	14.9	85	74	0	30.3	24.93	36.0	23	79	817	2,835	702	244
			56	102 1	KC WH	25.1	85	97	0	13	0.08	0.2	56	225	48	08 190	41	0 16
		Age	56			16.9	84	77	-	46.5	29.84	46.9	29	106	1.384	5,160	1,189	443
		-	65	01 1	BM	10.8	84	44	0	1.6	2.50	2.5	13	36	31	, 01	. 27	8
			65	119 1	DF	23.2	86	117	ŏ	0.8	0.29	0.6	58	256	35	153	30	13
			65	91 I	RA	10.3	86	62	0	34.3	59.65	72.5	12	43	852	3,088	732	265
			65	89 1	RC	26.1	74	88	0	0.5	0.14	0.3	59	175	17	50	14	4
			65	102	WH	12.8	84	53	0	1.3	1.49	2.1	18	71	37	151	32	13
		Age	65			10.5	84	61		38.6	64.0 7	78.0	13	46	972	3,532	835	303
			111	119 1	DF	35.2	87	146	0	4.4	0.65	2.4	87	460	211	1,115	181	96
			111	89 1	RC	41.5	83	112	0	0.5	0.05	0.1	159	460	17	50	15	4
		4.8-	111	102	WH	33.7	85	113	0	3.3	0.53	1.3	93	374	122	490	105	42
		Age	111			34.9	152	140		8.1	1.23	3.8	08	558	350	1,055	300	142
Stand	0003					14.5	86	83		93.2	95.14	128.7	25	105	2,706	10,346	2,325	889

Species Summary Report

	Species Summary - Trees, Logs, Volumes, Percents															
State, County	y: OR	WA			Cruise	e Date:	03/01/2004				Species:	GEN WEST			Date: 04	/11/2017
Project:	DEMO)			Grow	n Date:	03/01/2004				Sort:	NW SORTS			Page: 1/	1
Tract:	UNIT	ı			Modi	fied Date:					Grade:	NW SORTS				
Stand:	0002				#Plot	5:	57				Price:	GENERAL				
Acres:	101.36				# Tree	85:	294				Cost:	GENERAL				
Species	St	Trees /Ac	% Trees /Acre	Logs /Ac	% Logs /Acre	Lbs /Ccf	Tons /Mbf	Tons /Acre	Net CuFt / Acre	Net BdFt /Acre	Total Tons	% Tons	Total Net Ccf	% Net Ccf	Total Net Mbf	% Net Mbf
BM		1.20	1.0	1.2	0.6	5,300	7.75	0.72	27.1	92.8	73	0.4	28	0.5	9	0.4
DF		96.90	79.8	179.4	86.9	5,700	6.26	153.72	5,393.6	24,568.1	15,581	91.8	5,467	91.5	2,490	93.5
DF	D	0.96	0.8	0.0	0.0	5,700	5.70	0.38	13.4	66.9	39	0.2	14	0.2	7	0.3
MA		0.93	0.8	0.9	0.5	5,000	11.67	0.65	26.1	56.0	66	0.4	27	0.4	6	0.2
RA		20.96	17.3	24.0	11.6	5,500	7.79	10.64	387.0	1,367.0	1,079	6.4	392	6.6	139	5.2
RC		0.22	0.2	0.4	0.2	4,700	9.14	0.54	22.8	58.7	54	0.3	23	0.4	6	0.2
WH		0.24	0.2	0.5	0.2	6,400	10.80	0.83	25.8	76.5	84	0.5	26	0.4	8	0.3
		121.41		206.5		38,300	59.10	167.48	5,895.9	26,286.1	16,976		5,976		2,664	

Log Stock Table –

shows what logs were made in the cruise

					Log Stoc	k - Mbf by	y Specie	s, Sort, G	Frade, I	.en, Dia Cl	ass				
State, County:	OR	WA			Cruise Date:	03/01/2004				Species:	GEN WEST	г		Date: 0	4/11/2017
Project:	DEMO				Grown Date:	03/01/2004				Sort:	NW SORTS	s		Page: 1	/5
Tract:	UNIT 1				Modified Date	E				Grade:	NW SORTS	S			
Stand:	0002				# Plots:	57				Price:	GENERAL				
Acres:	101.36				#Trees:	294				Cost:	GENERAL				
										Ne	t Mhf hy Scalir	o Diamatar in I	nches		
			Log	Gross	%	Net	%								
Species BM	PU	Grade 4M	28	3	Der	3	opp	0-5	6-7	8-11	12-15	16-19	20-23	24-29	30+
BM	PU	4M	40	6		6					6				
						0									
BM				9		9		2			•				
DF	CH	2M	26	7	7	6									6
DF	CH	2M	30	37	1	36					19		5	12	
DF	CH	2M	32	17	15.3	14									14
DF	CH	2M	34	120	3.9	115					42	7	İ	35	31
DF	CH	2M	36	16	3	16					9	7			
DF	CH	2M	40	553	2.7	538					246	180	56	48	8
DF	CU	UT	16	4		4									4
DF	CU	UT	20	8	17	7						3		4	
DF	CU	UT	24	5		5						5	İ		
DF	CU	UT	32	7		7								7	
DF	CU	UT	40	7		7			7						
DF	DO	2M	16	10	12.5	9					9				
DF	DO	2M	20	5		5							5		
DF	DO	2M	24	17	30.6	12					4		i		8
DF	DO	2M	28	7	21.5	5								5	
DF	DO	2M	30	7	19.7	6								6	
DF	DO	2M	32	22	11.1	19								6	14
DF	DO	2M	36	8	6.2	7						7			
DF	DO	2M	40	294	8.5	269					93	70	53	45	9
DF	DO	3M	12	1		1									
DF	DO	3M	16	1		1				1					
DF	DO	3M	20	6	2.4	6				3	3				
DF	DO	3M	23	1	16.7	1				1					

Pole & Piling Report

Pole and Piling Report																			
State, County	y: WA	SN	1			Cruise Date:	03/21/2017				Specie	5:	GEN WEST					Date: 04/	11/2017
Project:	POL	EPILII	NG			Grown Date:	03/21/2017				Sort:		NW SORTS					Page: 1/1	
Tract:	TES	Г			1	Modified Date	ĸ				Grade	:	NW SORTS						
Stand:	1234					# Plots:	1				Price:		GENERAL						
Acres:	: 52.11 # Trees: 3					3				Cost:		GENERAL							
Sort	Snc	Len Feet	O.B Butt	Dia	Class	Number Pieces	Lineal Feet	Av	g Piece Siz	ze BdFt	Tons	Totals Ccf	Mbf	Lineal Ft	Dollar	sper Cof	Mbf	Dollars Piece	Total Dollars
POLES	DF	80	17.5	9.1	1	2,865	229,163	2.41	88	345	6,904	2,511	988	4.31	143.13	393.62	1,000	345.00	988,267
	DF					2,865	229,163	2.41	88	345	6,904	2,511	988	4.31	143	393.62	1,000	345.00	988,267
POLES						2,865	229,163	2.41	88	345	6,904	2,511	988	4.31	143	393.62	1,000	345.00	988,267
						2,865	229,163	2.41	88	345	6,904	2,511	988	4.31	143	393.62	1,000	345.00	988,267

Back by Popular Demand !

Valuation: using the logs in cruise

					Ti	mber	Value	Analys	sis					
State, County:	OR WA	A		Cruise Date:	03/01/2	004		Species:	GE	WEST		D	ate: 04/1	1/2017
Project:	DEMO			Grown Date:	03/01/2	004		Sort:	NW	SORTS		P	age: 1/2	
Tract:	UNIT 1		1	Modified Date:				Grade:	NW	SORTS				
Stand:	0002		;	#Plots:	57			Price:	GET	VERAL				
Acres:	101.36		;	# Trees:	294			Cost:	GET	VERAL				
Revenue by S	necies and P	roduct												
Intrade by b	proto and r													
Species	Sorts Products		Log Avg Dia	Log Avg Len	Total Logs	Total Tons	Total Cunits	Total Mb	f \$/Log	\$/Acre	\$/Ton	\$/Ccf	\$/Mbf	Total Dollars
BL MAPLE	CULL		13.7	9.0	1				0.00	0.00	0.00	0.00	0.00	
BL MAPLE	UTILITY		10.5	34.0	2	71	27	9	135.00	2.66	3.80	10.00	30.00	270
BL MAPLE					3.00	71	27	9						270
DOUG FIR	?		39.5	49.0	1	28	10	5	0.00	0.00	0.00	0.00	0.00	
DOUG FIR	CAMPRU	IN	13.4	36.6	222	6,509	2,284	1,084	2,197.30	4,812.55	74.94	213.57	450.00	487,800
DOUG FIR	CULL		17.1	11.4	49	168	59	30	0.00	0.00	0.00	0.00	0.00	127.160
DOUG FIR	EXPORT	TD	19.9	30.0	31	1,157	400	211	4,424.19	1,353.10	118.54	357.81	050.00	137,150
DOUG FIR DOUG FIR	SAWMIL	L	10.5	33.6	329	6,566	2,304	939	1,141.64	3,705.60	57.20	163.02	400.00	375,600
DOUG FIR					671.00	15,607	5,477	2,494	-	-				1,079,300
MADRONE	UTILITY		6.9	40.0	1	65	26	5	150.00	1.48	2.31	5.77	30.00	150
MADRONE					1.00	65	26	5						150
R ALDER	CULL		8.4	11.0	2				0.00	0.00	0.00	0.00	0.00	
R ALDER	SAWMIL	L	10.4	34.7	18	627	228	73	1,216.67	216.06	34.93	96.05	300.00	21,900
R ALDER	UTILITY		6.1	31.5	17	448	163	64	112.94	18.94	4.29	11.78	30.00	1,920
R ALDER					37.00	1,075	391	137						23,820
WHEMLOCK	CULL		16.3	16.0	1	48	15	3	0.00	0.00	0.00	0.00	0.00	
WHEMLOCK	SAWMIL	L	8.6	26.0	2	196	10	3	375.00	7.40	3.83	75.00	250.00	750
WHEMLOCK					3.00	244	25	6						750
WR CEDAR	SAWMIL	L	10.2	32.0	2	54	23	5	1,375.00	27.13	50.93	119.57	550.00	2,750
WR CEDAR					2.00	54	23	5						2,750
					717.00	17,116	5,969	2,656						1,107,040
Cost By Line	Item													
	с	ost Item					\$/	Log	\$/Acre	\$/Ton	\$/Ccf	\$/2	Abf I	Total Dollars
ADMIN								1.40	254.35	2.60	7.33	3 2	0.00	4,530
FALL, BUCK								4.90	890.23	9.12	25.60	5 2	1.00	4,757
HARVEST TA	x							1.54	279.79	2.87	8.00	5 2	2.00	4,983
HAULING								1.85	337.02	3.45	9.71	I 2	6.50	6,002
ROAD CONST	TRUCTION N	MAINT						0.35	63.59	0.65	1.83	3	5.00	1,133
YARDING AV	7G							1.47	267.07	2.74	7.70	0 7	70.00	15,855
								11.51	2,092.05	21.43	60.29	9 16	i4.50	37,260
Pre-Tax Profit	or Loss							0.00	0.00	0.00	0.00)	0.00	0.00

Statistics Report

					Statis	tics of S	ample	d Popula	ation						
State, County:	OR.	WA		Cruise Dat	e: 03/01	/2004	-	Species:	GENW	EST		Da	ate: 04/1	1/2017	
Project:	DEMO)		Grown Da	te: 03/01	2004		Sort:	NWSO	RTS		Pa	ge: 1/1		
Tract:	UNIT	1	1	Modified I	Date:			Grade:	NWSO	RTS					
Stand:	0002		;	#Plots:	57			Price:	GENER	LAL					
Acres:	101.36		,	# Trees:	294			Cost	GENER	LAL					
Sample data	collectio	n inform	tion.												
		Crui Plo	B. ise Co ts Pl	AF unit ots	Blank Plots	Sample Trees	DBH Trees	Count Trees	100% Trees	Trees /Plot	Trees /Acre	Est Total Trees	% Sample Trees		
BAF Plots (B))		57			294				5.16	121.41	12,306	2.4	4	
BAF Count P	lots (B)														
Fixed Area (F	,R,V)														
Strip Plots (S)															
Rectang Plots	(A)														
100% (00)															
Stand Sum	Stand Summary - Average														
Species Group	St	Sample Tres	QM Dbh	Avg Total Ht	Trees /Acre	Basal Area / Acre	RD	Net Mbf CV	Net Mbf SE	Tons / Acre	Net CuFt/ Acre	Net BdFt/ Acre	Total Net Ccf	Total Net Mbf	
DOUGFIR		258	16.0	123	96.9	2.4	0.6	57. 6	12.8	154	53.94	24.568	5,467	2,490	
R ALDER		29	11.6	71	21.0	0.3	0.1	209.9	46.6	11	3.87	1.367	392	139	
BL MAPLE		2	13.2	63	1.2	0.0	0.0	529.2	117.5	1	0.27	0.093	28	9	
DOUG FIR.	D	1	10.0	132	1.0	0.0	0.0	755.0	167.6	0	0.13	0.067	14	7	
WHEMLOC	к	1	29.0	87	0.2	0.0	0.0	755.5	167.6	1	0.26	0.076	26	8	
WR CEDAR		1	24.0	81	0.2	0.0	0.0	755.0	167.6	1	0.23	0.059	23	6	
MADRONE		2	15.0	112	0.9	0.0	0.0	755.0	167.7	1	0.26	0.056	27	6	
		294		668	121.4	2.7	0.7	59.7	7.9	167	58.959	26.286	5,976	2,664	
Confidence I Coefficient o	.evel (CL f Variatio	.) 90.5 on %(CV)	out o Star	of 100. 1d Error of	Standard Estimate %	Deviation (SE) are both	SD) 1.7 computed fi	Input D	efault Scree	n					
							-	•							
Volume	Unit	SD	CL	CV%	SE%	Low	Avg	High	5	10 Inte Rossie	15	Low	Avg	High	
BA per Acre		1.7	90.5	42.8	5.7	2.57	2.72	2.87	212	53	24	Jamp	ning Entor I	Kauge	
Net Mbf (100	0 bf)	1.7	90.5	59.7	7.9	24.21	26.29	28.36	411	103	46	2.454	2.664	2.875	
Net CuFt (10	0 cf)	1.7	90.5	51.7	6.8	54.92	58.96	63.00	309	77	34	5,567	5,976	6,385	
Tons per Acr	2	1.7	90.5	52.1	11.6	148.05	167.48	186.91	314	78	35	15,006	16,976	18,945	
VBar per Acr	e	1.7	90.5	60.8	13.5	0.00	0.00	0.00	427	107	47				
- Trees per Acr	e	1.7	90.5	86.7	11.5	107.47	121.41	135.35	869	217	97				
			,	Volume p		Tr	ees Requi	red							
Sample Trees	BF	1.7	90.5	163.1	16.0	565.00	673.00	781.00	3,075	769	342				
Sample Trees	CF	1.7	90.5	114.8	14.2	119.00	138.00	158.00	1,523	381	169				
				Trees per	Plot				Nu	mber Requ	ired				
Required Mea	sured Tre	es per Plot	- BdFt per	Acre					7	7	7				
Remired Mea	sured Tre	es per Plot	- CuEt per	Acre					5	5	5				

Supplemental Files can be attached

) F	ile F	roject	Stands Ownershi	p Rep	orts	Tables	Def	aults	Help	Skins	;															
÷ F	irst P	rev Ne	xt Last Print S	ave C	olum	n Choo	oser	Filter	Selec	t All	Attached F	iles Additio	nal Tree	Measu	rements											
н	ome	Stand	Master Plot Loca	ition	Tree I	nput	Tree	Edit	Stan	id Inpu	t															
	1				1																					
	Ø			Stand										Land		Maj		Maj	Trees	BA Per	QM	Tons	Net Ccf	Net Mbf	Total Net	Total
		Cty	Tract	#	St	Twn	Rge	Src	Sec	Hrv	Net Acres	Exam Date	Plots	Class	Grown Date	Age	SI	Spc	Per Ac	Ac	Dbh	Per Ac	Per Ac	Per Ac	Ccf	Net Mbf
	~ 1	ract: U	NIT 1																							
►		AW [UNIT 1	0002	OR	01S	01W	TC	24		101.36	3/1/2004	57	TIM	3/1/2004	57	122	DF	121.41	155.08	15.3	168	58.96	26.286	5,976	2,664
		AW I	UNIT 1	0003	OR	01S	01W	TC	24		85.92	3/1/2004	70	TIM	3/1/2004	65	119	DF	95.13	93.24	13.4	77	27.06	10.346	2,325	889
	Image: Note of the state of the st															2,709	1,330									
	WA UNIT 1 0005 OR 015 01W TC 24 24.72 3/1/2004 13 TIM 3/1/2004 75 98 DF 87.28 114.08 15.5 114 40.00 18.601 99 WA UNIT 1 0005 OP 015 01W TC 24 21.72 3/1/2004 F3 TIM 3/1/2004 75 98 DF 87.28 114.08 15.5 114 40.00 18.601 99 WA UNIT 1 0005 OP 015 01W TC 24 F1.50 21/1/0044 F3 TIM 21/1/0044 75 98 DF 87.28 114.08 15.5 114 40.00 18.601 99															989	460									
	Image: Non-state Image: Non-state<																									
		AW [UNIT 1	0013	OR	01S	01W	TC	24		112.75	3/1/2004	56	TTM	3/1/2004	47	110	GE	59.85	137.90	20.6	91	41 34	17 874	4 661	2 015
		AW [UNIT 1	RMZ	OR	01S	01W	TC	24		12.31	3/1/2004	<u> </u>	Attachme	ents											
											418.91		Sa	ave (Cancel Ren	nove At	ttache	d File								
	~ 1	ract: U	NIT 2			_		_						omment	s /	Attache	d File									
		AW	UNIT 2	0006	OR	01S	01W	TC	25		6.32	3/1/2004	IU	Init 1 PH	отоз (С: (РА Н	ARDW	OOD\2	017\APOni	on\IMGP36	513.JPG					
		AW [UNIT 2	0007	OR	01S	01W	TC	25		62.50	3/1/2004			×										_	
		AW [UNIT 2	0008	OR	01S	01W	TC	25		58.58	3/1/2004														
		AW [UNIT 2	0009	OR	01S	01W	TC	25		10.20	3/1/2004														
		AW	UNIT 2	0010	OR	01S	01W	TC	25		7.08	3/1/2004														
		■ WA	UNIT 2	0011	OR	01S	01W	TC	25		15.12	3/1/2004														
		■ WA	UNIT 2	0012	OR	01S	01W	TC	25		10.45	3/1/2004														
											170.25															

Thank you

