

Timber Cruise

Bregman Property
Lincoln County, OR

Submitted to: Northwest Forest Properties

by

Jared Simmons
Alpenglow Forestry Consulting, LLC
P.O. Box 398
Lowell, OR 97452

Report Description:

This report displays the merchantable timber volumes and acreage on the Bregman Property, as of January 25, 2022.

Timber Assessment

All standing merchantable timber was cruised by Alpenglow Forestry Consulting, LLC in January 2022.

Acreage

Merchantable Timber 35+ Year-Old: Type 1	23.01 acres
Merchantable Timber: 50+ Year-Old Type 2	10.56 acres
Pre/Merchantable Timber 30+ Year-Old: Type 3	91.20 acres
Pre Merchantable Timber 20+ Year-Old: Type 4	19.75 acres
Pre Merchantable Timber 5+ Year-Old: Type 5	10.04 acres
Riparian Management Area*	0.45 acres

(*Primary streams within property do not appear as RMAs/buffered, but they meet criteria which will likely require some buffering. Current regulations are changing, at which time the new regulations are settled these streams will certainly require buffers)

Timber Volume

Merchantable Timber 35+ Year-Old: Type 1	372 mbf
Merchantable Timber: 50+ Year-Old Type 2	167 mbf
Pre/Merchantable Timber 30+ Year-Old: Type 3	685 mbf
Pre Merchantable Timber 20+ Year-Old: Type 4	well-stocked/primarily WH
Pre Merchantable Timber 5+ Year-Old: Type 5	well-stocked-DF/WH mix
Riparian Management Area*	N/A

BREGMAN PROPERTY TOTAL MERCH TIMBER (Types 1, 2, & 3)

SPECIES	VOLUME
WESTERN HEMLOCK	440 MBF
DOUGLAS FIR	458 MBF
SITKA SPRUCE	294 MBF
RED ALDER	32 MBF

Timber Review

Type 1 is ready for harvest, but would likely benefit from thinning or additional growth, and the current market for Sitka Spruce is low.

Type 2 is ready for harvest, but would benefit from a better Spruce market. The southern half of this stand has low volume and will benefit from harvest to rehabilitate the stand.

Type 3 is contains enough volume to justify a commercial thin on 60% of the stand. The remaining areas have been thinned, are not dense enough, and/or would require cable thinning (which is not cost effective at this time)

The remaining types are well stocked. A small amount of merchantable/residual leave trees exist, but are rough and have not been included in the displayed volumes.

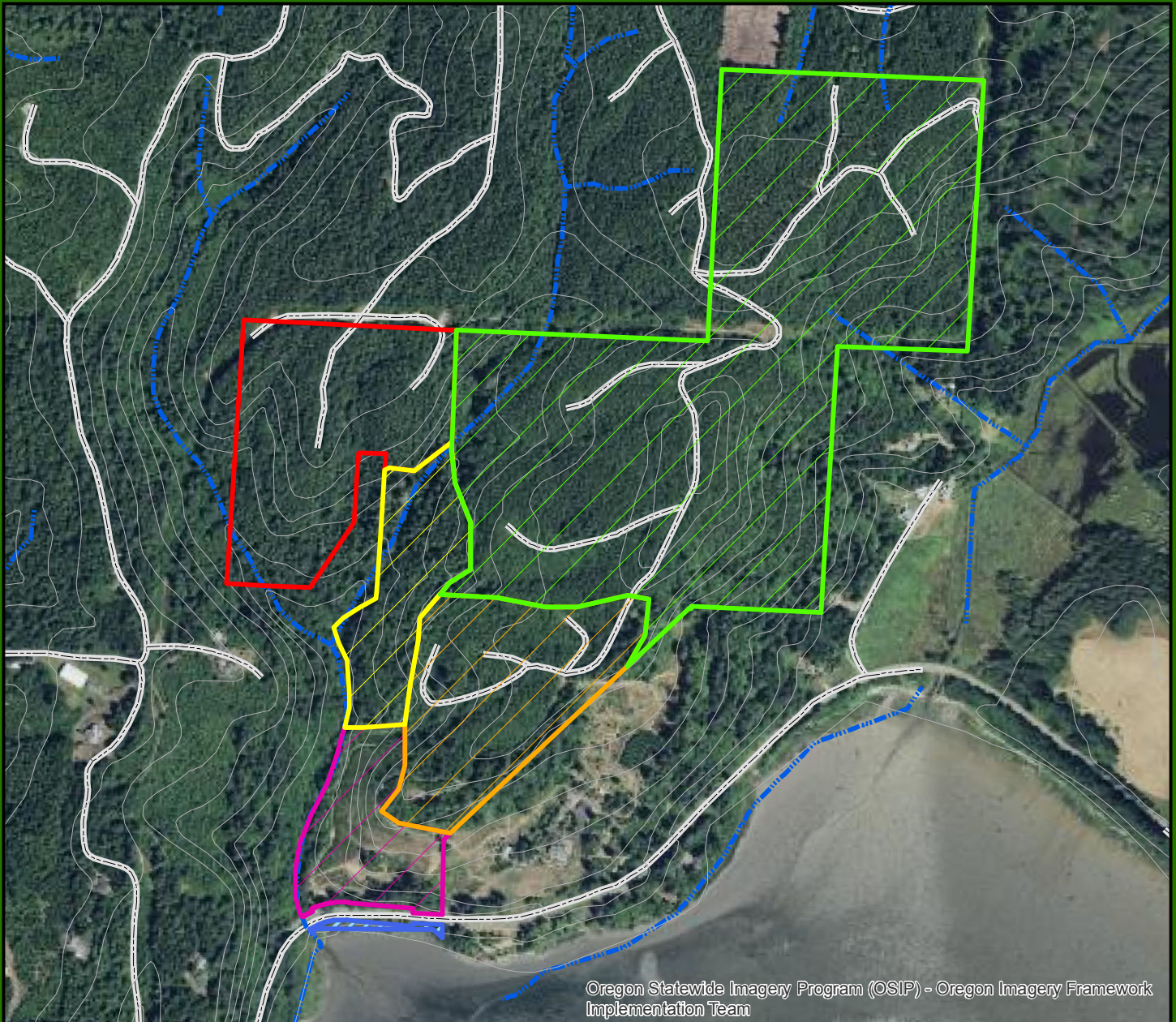
Nearly all of the Douglas fir has low needle retention, due to Swiss needle Cast.

The volumes shown in this cruise were based on variable plot sampling. The accuracy of log volumes, grades, sorts, species, and acreage are based upon the best of the cruiser's ability.

Thanks,
Jared Simmons
Alpenglow Forestry Consulting, LLC
(541)-525-3582

Bregman Property

T13S, R11W, Sec 7, 8, 17 & 18, WM



Oregon Statewide Imagery Program (OSIP) - Oregon Imagery Framework Implementation Team

Legend

40' Contours

Streams

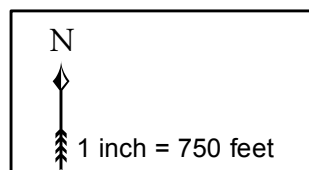
Roads

Type

- Type 1: 35+ Year-Old Merch
- Type 2: 50+ Year-Old Merch
- Type 3: 30+ Year-Old Reprod/Merch
- Type 4: 20 Year-Old Reprod
- Type 5: 5+ Year-Old Plantation
- RMA

TIMBER TYPES

2018 NAIP Orthographic Imagery



T	Species, Sort Grade - Board Foot Volumes (Type)										Page 1									
Project: BREGMAN										Date	1/25/2022									
										Time	10:59:14AM									
T13S R11W S07 T0001										T13S R11W S07 T0001										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
13S	11W	07	BREGMAN	0001	23.01	21	57	1	W											
S So Gr T rt ad Spp		% Net BdFt	Bd. Ft. per Acre Def% Gross Net		Total Net MBF	Percent Net Board Foot Volume								Average Log		Logs Per /Acre				
		Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/ Lf							
						5-6	7-11	12-19	20+	16-20	21-30	32-36	37-99	Ft	In	Ft				
WH	2S	2M	10	17.0	910	755	17	100				100				36	14	239	2.388	3.2
WH	S	3M	74	7.0	5,944	5,529	127	100				46 54				38	10	127	1.064	43.4
WH	S	4M	16	8.3	1,280	1,174	27	95	5	23	77				29	5	31	.452	38.3	
WH	Totals		46	8.3	8,134	7,457	172	15	75	10	4	56 40				34	8	88	.882	84.9
SS	3+	2M	3	23.2	270	208	5	100				100				40	17	353	2.525	.6
SS	2S	2M	39	14.8	2,565	2,186	50	100				66 34				37	13	206	1.847	10.6
SS	S	3M	44	18.7	3,087	2,509	58	18	82	2 96 3				35	8	70	.796	36.0		
SS	S	4M	14	11.5	831	735	17	87	13	38	30	32	23 5 24 .411				30.6			
SS	Totals		35	16.5	6,752	5,637	130	19	38	42	5	5	73	18	31	8	72	.870	77.9	
DF	S	3M	67	11.8	2,165	1,909	44	5	95	100				35	9	92	.923	20.7		
DF	S	4M	33	10.6	1,035	925	21	100	36 64				25	5	27	.426	34.1			
DF	Totals		18	11.4	3,200	2,835	65	36	64	12	88				29	7	52	.654	54.8	
RA	RA	4M	100	19.1	314	254	6	40	60	40	60				24	6	27	.529	9.5	
RA	Totals		2	19.1	314	254	6	40	60	40	60				24	6	27	.529	9.5	
Type Totals				12.0	18,400	16,183	372	21	60	19	6	3	67	25	31	7	71	.815	227.1	

TC TLOGSTVB				Log Stock Table - MBF																			
				Project: BREGMAN																			
T13S R11W S07 T0001												T13S R11W S07 T0001											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1														
13S	11W	07	BREGMAN	0001	23.01	21	57	Date	1/25/2022														
										Time	10:59:14AM												
Spp	T	S	So	Gr	Log	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches													
										2-2	3-3	4-4	5-9	10-11	12-15	16-18	19-20	21-22	23-99	100-1	102+		
WH		2S	2M	36		21	17.0	17	10.1					17									
WH		S	3M	36		63	8.1	58	33.9				24	34									
WH		S	3M	40		73	6.0	69	40.2				4	65									
WH		S	4M	16		7	15.5	6	3.6				6										
WH		S	4M	36		22	6.0	21	12.2				21										
WH		Totals				187	8.3	172	46.1				55	99	17								
SS		3+	2M	40		6	23.2	5	3.7						5								
SS		2S	2M	32		6	12.8	5	4.2						5								
SS		2S	2M	36		32	14.2	28	21.4						28								
SS		2S	2M	40		20	16.3	17	13.1						10	7							
SS		S	3M	26		1	17.3	1	.8						1								
SS		S	3M	32		14	33.6	9	7.2				9										
SS		S	3M	36		54	15.0	46	35.4				22	24									
SS		S	3M	40		2	17.3	1	1.1				1										
SS		S	4M	16		6	11.3	6	4.3				6										
SS		S	4M	20		1	7.0	1	.7				1										
SS		S	4M	24		2	38.0	1	.9				1										
SS		S	4M	26		3	7.0	3	2.0				3										
SS		S	4M	30		1	7.0	1	.9				1										
SS		S	4M	32		4	7.0	3	2.6				3										
SS		S	4M	36		2	7.0	2	1.6				2										
SS		Totals				155	16.5	130	34.8				49	25	38	17							
DF		S	3M	32		8	26.1	6	8.5				6										
DF		S	3M	36		42	9.3	38	58.8				17	22									
DF		S	4M	16		5	5.0	5	7.7				5										
DF		S	4M	20		3	5.0	3	4.2				3										
DF		S	4M	32		10	18.9	8	11.9				8										
DF		S	4M	36		6	5.0	6	8.9				6										
DF		Totals				74	11.4	65	17.5				44	22									
RA		RA	4M	20		3	7.0	2	40.0				2										
RA		RA	4M	30		5	25.6	4	60.0				4										
RA		Totals				7	19.1	6	1.6				6										
Total All Species						423	12.0	372	100.0				154	146	56	17							

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	BREGMAN			DATE	1/25/2022		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
13S	11W	07	BREGMAN	0001	23.010	21	137	1	W		
				TREES	ESTIMATED			PERCENT			
				PER PLOT	TOTAL			SAMPLE			
					TREES			TREES			
TOTAL			21	137	6.5						
CRUISE			11	57	5.2	3,266	1.7				
DBH COUNT											
REFOREST											
COUNT			10	76	7.6						
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
WHEMLOCK			14	46.6	17.2	64	18.2	75.5	8,134	7,457	2,513
S SPRUCE			22	47.4	15.7	54	16.1	64.0	6,752	5,637	2,083
DOUG FIR			17	38.4	13.8	44	10.7	39.7	3,200	2,835	1,040
R ALDER			4	9.5	10.9	31	1.9	6.2	314	254	123
TOTAL			57	141.9	15.5	53	47.1	185.4	18,400	16,183	5,759
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL:	68.1 %	COEFF		SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
WHEMLOCK				301	301	301					
S SPRUCE			50.3	11.9	177	201	225				
DOUG FIR			25.5	7.1	102	110	118				
R ALDER					56	56	56				
TOTAL			33.8	5.2	174	183	193	46	11	5	
CL:	68.1 %	COEFF		SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
WHEMLOCK				103	103	103					
S SPRUCE			38.9	9.2	65	72	78				
DOUG FIR					39	39	39				
R ALDER					27	27	27				
TOTAL			20.3	3.1	63	65	67	17	4	2	
CL:	68.1 %	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
WHEMLOCK			94.8	21.2	37	47	56				
S SPRUCE			102.7	22.9	37	47	58				
DOUG FIR			105.5	23.6	29	38	47				
R ALDER			319.4	71.4	3	10	16				
TOTAL			34.9	7.8	131	142	153	51	13	6	
CL:	68.1 %	COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
WHEMLOCK			97.9	21.9	59	76	92				
S SPRUCE			88.8	19.9	51	64	77				
DOUG FIR			90.8	20.3	32	40	48				
R ALDER			316.1	70.6	2	6	11				
TOTAL			39.7	8.9	169	185	202	66	17	7	
CL:	68.1 %	COEFF		NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
WHEMLOCK			100.5	22.5	5,783	7,457	9,132				
S SPRUCE			88.0	19.7	4,528	5,637	6,746				
DOUG FIR			99.6	22.3	2,204	2,835	3,466				
R ALDER			322.7	72.1	71	254	437				

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	BREGMAN			DATE	1/25/2022
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
13S	11W	07	BREGMAN	0001	23.010	21	137	1	W
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL		52.7	11.8	14,276	16,183	18,090	117	29	13
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK		99.5	22.2	1,954	2,513	3,072			
S SPRUCE		87.4	19.5	1,676	2,083	2,490			
DOUG FIR		94.6	21.2	820	1,040	1,260			
R ALDER		322.7	72.1	34	123	211			
TOTAL		47.9	10.7	5,142	5,759	6,375	96	24	11

T	TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)											Page 1						
			Project: BREGMAN											Date 1/25/2022						
														Time 11:00:52AM						
T13S R11W S07 T0002											T13S R11W S07 T0002									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
13S	11W	07	BREGMAN	0002	10.56	12	41	1	W											
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
			Def%	Gross	Net	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/ Lf			
WH	2S	2M	70	14.8	9,489	8,084	85	89	11	7	43	50	37	14	250	1.984	32.4			
WH	S	3M	25	13.4	3,244	2,809	30	22	78		1	62	37	37	8	73	.776	38.2		
WH	S	4M	5	14.6	666	569	6	87	13	44	7	49		26	6	26	.482	21.7		
WH	Totals		72	14.5	13,399	11,462	121	10	20	63	8	7	1	48	44	34	10	124	1.184	92.3
SS	3+	2M	8	34.9	406	264	3		100			100	40	20	456	4.900	.6			
SS	2S	2M	66	16.1	2,601	2,184	23		57	43		86	14	37	18	428	3.173	5.1		
SS	S	3M	22	15.3	872	739	8	100				71	29	37	9	101	1.224	7.3		
SS	S	4M	4	7.0	122	114	1	100		100				16	8	28	.750	4.1		
SS	Totals		21	17.5	4,001	3,300	35	26	38	36	3	72	24	32	12	193	1.994	17.1		
DF	2S	2M	80	11.0	978	870	9	100			58	42	36	16	320	2.442	2.7			
DF	S	3M	15	5.0	170	162	2	100				100	40	10	142	1.075	1.1			
DF	S	4M	5	18.0	58	47	1	100		100			16	7	25	.603	1.9			
DF	Totals		7	10.5	1,206	1,079	11	19	81		4	47	49	30	12	187	1.760	5.8		
Type Totals				14.9	18,606	15,841	167	7	21	59	13	6	0	53	40	34	10	138	1.324	115.2

TC TLOGSTVB				Log Stock Table - MBF																
				Project: BREGMAN																
T13S R11W S07 T0002										T13S R11W S07 T0002										
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		1		
13S		11W		07		BREGMAN		0002		10.56		12		41		Date		1/25/2022		
																Time		11:00:51AM		
Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spc	2-2	3-3	4-4	5-9	10-11	12-15	16-18
WH		2S	2M	20		7	22.8	6	4.7								3	3		
WH		2S	2M	36		43	14.4	37	30.5					23	10	4				
WH		2S	2M	40		50	14.0	43	35.3					35	4	4				
WH		S	3M	24		0	21.7	0	.3			0								
WH		S	3M	32		1	32.9	1	.5			1								
WH		S	3M	36		21	15.3	18	14.7			14	4							
WH		S	3M	40		12	8.4	11	9.1			6	4							
WH		S	4M	16		1	6.0	1	.5			1								
WH		S	4M	20		2	6.0	2	1.7			2								
WH		S	4M	24		0	6.0	0	.4			0								
WH		S	4M	36		4	22.0	3	2.4			3								
WH		Totals				141	14.5	121	72.4			27	9	58	14	8	3	3		
SS		3+	2M	40		4	34.9	3	8.0							3				
SS		2S	2M	36		24	16.5	20	56.6							20				
SS		2S	2M	40		4	13.4	3	9.5					3						
SS		S	3M	36		7	16.1	6	15.8			2	3							
SS		S	3M	40		3	13.2	2	6.5				2							
SS		S	4M	16		1	7.0	1	3.4			1								
SS		Totals				42	17.5	35	20.8			4	5	3		23				
DF		2S	2M	32		2	10.0	1	12.5				1							
DF		2S	2M	36		4	10.3	4	34.0						4					
DF		2S	2M	40		4	12.2	4	34.1						4					
DF		S	3M	40		2	5.0	2	15.0				2							
DF		S	4M	16		1	18.0	1	4.4			1								
DF		Totals				13	10.5	11	6.8			1	2	1	8					
Total All Species						196	14.9	167	100.0			31	16	62	22	30	3	3		

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	BREGMAN			DATE	1/25/2022		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
13S	11W	07	BREGMAN	0002	10.560	12	62	1	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL		12	62	5.2							
CRUISE		8	41	5.1	630		6.5				
DBH COUNT											
REFOREST											
COUNT		4	21	5.3							
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
WHEMLOCK		29	46.3	20.7	77	23.8	108.2	13,399	11,462	3,758	
S SPRUCE		10	11.4	22.2	54	6.5	30.6	4,001	3,300	1,092	
DOUG FIR		2	1.9	26.0	93	1.4	7.1	1,206	1,079	306	
TOTAL		41	59.6	21.2	73	31.7	146.0	18,606	15,841	5,156	
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
WHEMLOCK		17.7	3.6	335	348	360					
S SPRUCE				760	760	760					
DOUG FIR		19.9	18.6	468	575	682					
TOTAL		4.9	.8	433	436	440	1 0		0		
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
WHEMLOCK		11.9	2.4	109	112	115					
S SPRUCE				249	249	249					
DOUG FIR		17.0	15.9	137	163	188					
TOTAL				140	140	140					
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
WHEMLOCK		84.0	25.3	35	46	58					
S SPRUCE		136.7	41.2	7	11	16					
DOUG FIR		183.5	55.2	1	2	3					
TOTAL		60.3	18.2	49	60	70	158 40		18		
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
WHEMLOCK		76.0	22.9	83	108	133					
S SPRUCE		121.4	36.5	19	31	42					
DOUG FIR		181.1	54.5	3	7	11					
TOTAL		53.3	16.1	123	146	169	124 31		14		
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
WHEMLOCK		77.5	23.3	8,788	11,462	14,136					
S SPRUCE		124.3	37.4	2,065	3,300	4,535					
DOUG FIR		181.0	54.5	491	1,079	1,667					
TOTAL		57.4	17.3	13,101	15,841	18,581	144 36		16		
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
WHEMLOCK		77.9	23.4	2,877	3,758	4,639					
S SPRUCE		117.2	35.3	707	1,092	1,478					
DOUG FIR		181.2	54.6	139	306	473					

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	BREGMAN			DATE	1/25/2022
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
13S	11W	07	BREGMAN	0002	10.560	12	62	1	W
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.0	VAR.	S.E. %	LOW	AVG	HIGH	5	10	15
TOTAL		56.2	16.9	4,284	5,156	6,029	137	34	15

T	Species, Sort Grade - Board Foot Volumes (Type)														Page	1				
Project: BREGMAN																Date	1/25/2022			
																Time	11:02:41AM			
T13S R11W S08 T0003																T13S R11W S08 T0003				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
13S	11W	08	BREGMAN	0003	91.20	36	115	1	W											
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
			Def%	Gross	Net	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/ Lf			
								5-6	7-11	12-19	20+	16-20	21-30	32-36	37-99	Ft	In	Ft		
DF	S	3M	25	12.8	1,202	1,048	96	64	36				84	16		36	7	56	.649	18.6
DF	S	4M	75	2.0	3,204	3,140	286	97	3			28	18	50	4	25	5	24	.376	130.7
DF	Totals		56	5.0	4,406	4,188	382	88	12			21	14	59	7	26	5	28	.423	149.3
WH	2S	2M	5	16.2	111	93	9		100				100			36	13	184	1.889	.5
WH	S	3M	59	5.3	1,000	948	86	43	57				37	63		39	7	64	.645	14.8
WH	S	4M	36	7.8	614	566	52	91	9			15	49	36		22	5	17	.321	32.6
WH	Totals		21	6.9	1,726	1,608	147	57	37	6		5	17	40	37	27	6	34	.485	48.0
SS	3+	2M	9	32.4	191	129	12		100				100			26	20	304	4.115	.4
SS	2S	2M	8	20.8	153	121	11		100					100		40	15	285	2.975	.4
SS	S	3M	18	9.7	282	255	23	40	60					60	40	38	7	54	.767	4.7
SS	S	4M	65	7.2	986	915	83	87	13			47	35	18		21	5	25	.384	36.3
SS	Totals		19	11.9	1,612	1,420	129	63	19	9	9	31	31	22	16	23	6	34	.540	41.9
RA	RA	4M	100	17.2	355	294	27	70	30			56	44			21	6	23	.473	12.8
RA	Totals		4	17.2	355	294	27	70	30			56	44			21	6	23	.473	12.8
Type Totals				7.3	8,099	7,509	685	76	19	3	2	21	19	46	15	26	6	30	.455	252.0

TC TLOGSTVB				Log Stock Table - MBF																																			
				Project:				BREGMAN																															
T13S R11W S08 T0003												T13S R11W S08 T0003																											
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		1																					
13S		11W		08		BREGMAN		0003		91.20		36		115		Date		1/25/2022																					
																Time		11:02:41AM																					
S		So Gr		Log		Gross		%		Net		%		Net Volume by Scaling Diameter in Inches																									
Spp		T		rt de		Len		MBF		Def		MBF		Spc		2-2		3-3		4-4		5-9		10-11		12-15		16-18		19-20		21-22		23-99		100-1		102+	
DF		S		3M		32		8		29.3		5		1.4								5																	
DF		S		3M		36		87		13.5		75		19.7								75																	
DF		S		3M		40		15		1.0		15		3.9								15																	
DF		S		4M		13																																	
DF		S		4M		15																																	
DF		S		4M		16		42		8.1		38		10.0								38																	
DF		S		4M		20		41		1.0		41		10.7								41																	
DF		S		4M		26		28		1.0		28		7.3								28																	
DF		S		4M		30		25		1.0		25		6.5								25																	
DF		S		4M		32		50		1.0		50		13.0								50																	
DF		S		4M		36		95		1.0		94		24.6								94																	
DF		S		4M		40		11		1.0		11		2.9								11																	
DF				Totals				402		5.0		382		55.8								382																	
WH		2S		2M		36		10		16.2		9		5.8										9															
WH		S		3M		36		34		5.7		32		21.7								32																	
WH		S		3M		40		57		5.0		55		37.2								55																	
WH		S		4M		12																																	
WH		S		4M		15																																	
WH		S		4M		16		6		10.1		6		3.9								6																	
WH		S		4M		20		2		3.0		2		1.4								2																	
WH		S		4M		26		22		13.2		19		13.0								19																	
WH		S		4M		30		7		3.0		6		4.3								6																	
WH		S		4M		32		6		3.0		6		3.9								6																	
WH		S		4M		36		13		3.0		13		8.8								13																	
WH				Totals				157		6.9		147		21.4								138		9															
SS		3+		2M		26		17		32.4		12		9.1										12															
SS		2S		2M		40		14		20.8		11		8.5								11																	
SS		S		3M		36		16		12.6		14		10.9								14																	
SS		S		3M		40		10		5.0		9		7.1								9																	
SS		S		4M		16		42		5.0		39		30.5								39																	
SS		S		4M		26		31		6.2		29		22.4								29																	
SS		S		4M		32		9		24.0		7		5.1								7																	
SS		S		4M		36		9		5.0		8		6.5								8																	
SS				Totals				147		11.9		129		18.9								107		11				12											
RA		RA		4M		16		8		5.0		8		28.5								8																	
RA		RA		4M		20		11		32.3		7		27.8								7																	
RA		RA		4M		26		8		5.0		8		29.4								8																	
RA		RA		4M		30		5		24.0		4		14.3								4																	
RA				Totals				32		17.2		27		3.9								27																	
Total All Species								739		7.3		685		100.0								653		20				12											

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	BREGMAN			DATE	1/25/2022		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
13S	11W	08	BREGMAN	0003	91.200	36	200	1	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL		36	200	5.6							
CRUISE		26	115	4.4	23,539	.5					
DBH COUNT											
REFOREST											
COUNT		10	62	6.2							
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
DOUG FIR		69	148.9	10.7	30	28.5	93.3	4,406	4,188	1,663	
WHEMLOCK		23	46.3	11.0	32	9.2	30.4	1,726	1,608	631	
S SPRUCE		15	50.1	10.5	26	9.2	29.9	1,612	1,420	527	
R ALDER		8	12.8	10.1	26	2.3	7.2	355	294	127	
TOTAL		115	258.1	10.7	29	49.2	160.8	8,099	7,509	2,949	
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		39.6	5.0	35	37	39					
WHEMLOCK		75.7	16.5	46	56	65					
S SPRUCE		137.8	38.2	45	73	101					
R ALDER				27	27	27					
TOTAL		97.3	9.4	41	45	49	378	95	42		
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		46.1	5.8	15	15	16					
WHEMLOCK		75.3	16.4	19	23	27					
S SPRUCE		139.9	38.8	19	31	43					
R ALDER		29.2	11.9	11	13	14					
TOTAL		99.4	9.6	17	19	21	394	99	44		
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		73.0	12.1	131	149	167					
WHEMLOCK		123.8	20.6	37	46	56					
S SPRUCE		229.5	38.2	31	50	69					
R ALDER		259.9	43.3	7	13	18					
TOTAL		44.8	7.5	239	258	277	80	20	9		
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		76.1	12.7	81	93	105					
WHEMLOCK		130.0	21.7	24	30	37					
S SPRUCE		222.8	37.1	19	30	41					
R ALDER		253.1	42.2	4	7	10					
TOTAL		40.6	6.8	150	161	172	66	16	7		
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		77.9	13.0	3,644	4,188	4,731					
WHEMLOCK		148.5	24.7	1,210	1,608	2,005					
S SPRUCE		225.5	37.6	886	1,420	1,953					
R ALDER		240.8	40.1	176	294	412					

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	BREGMAN			DATE	1/25/2022
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
13S	11W	08	BREGMAN	0003	91.200	36	200	1	W
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL		45.1	7.5	6,945	7,509	8,073	81	20	9
CL:	68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR		80.0	13.3	1,442	1,663	1,885			
WHEMLOCK		142.9	23.8	481	631	781			
S SPRUCE		223.7	37.3	331	527	724			
R ALDER		243.3	40.5	76	127	179			
TOTAL		42.3	7.0	2,741	2,949	3,156	71	18	8