

Timber Sale Appraisal Harkin Larkin Area 2 Sale AT-341-2018-44-

District: Astoria Date: January 16, 2018

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,369,046.62	\$18,999.13	\$1,388,045.75
		Project Work:	\$0.00
		Advertised Value:	\$1,388,045.75



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District: Astoria Date: January 16, 2018

Timber Description

Location: Portions of Sections 19, and 20, T8N, R6W, W.M., Clatsop County, Oregon.

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	34	0	97
Western Hemlock / Fir	16	0	97
Sitka Spruce	15	0	97
Alder (Red)	16	0	96

Volume by Grade	28	3S & 4S 6"- 11"	8" - 9"	10" - 11"	6" - 7"	Total
Douglas - Fir	2,075	131	0	0	0	2,206
Western Hemlock / Fir	269	116	0	0	0	385
Sitka Spruce	0	35	0	0	0	35
Alder (Red)	0	0	21	12	4	37
Total	2,344	282	21	12	4	2,663

Comments: Pond Values Used: December 2018.

Expected Log Markets: Mist, Clatskanie, Tillamook, Forest Grove, Longview (WA), Chehalis (WA), Elma (WA), Raymond (WA), Banks, Warrenton, Garabaldi, Noti, Riddle, and Springfield.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost: \$1,256/MBF = \$1,500/MBF - \$244/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling is equivalent to \$780 daily truck cost.

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

Log Loader Slash & Landing Piling (includes Move-in and Pile Materials) = \$17,522 TOTAL Other Costs (with Profit & Risk to be added) = \$17,522

Other Costs (No Profit & Risk added):

Machine Washing for Invasive Weed Compliance = \$2,000 TOTAL Other Costs (No Profit & Risk added) = \$2,000



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Logging Conditions

Combination#: 1 Douglas - Fir 100.00%

Western Hemlock / Fir 100.00% Sitka Spruce 100.00% Alder (Red) 100.00%

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: 9 bd. ft / load: 4200

cost / mbf: \$104.16

machines: Shovel Logger



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Logging Costs

Operating Seasons: 2.00

Profit Risk: 10%

Project Costs: \$0.00 Slash Disposal: \$0.00 Other Costs (P/R): \$17,522.00

Other Costs: \$2,000.00

Miles of Road

Road Maintenance:

\$0.44

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.0
Western Hemlock / Fir	\$0.00	2.0	3.4
Sitka Spruce	\$0.00	2.0	3.4
Alder (Red)	\$0.00	2.0	3.0



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas -	Fir								
\$104.16	\$0.45	\$3.29	\$100.42	\$6.58	\$21.49	\$0.00	\$7.00	\$0.75	\$244.14
Western H	emlock	/ Fir							
\$104.16	\$0.45	\$3.29	\$118.15	\$6.58	\$23.26	\$0.00	\$7.00	\$0.75	\$263.64
Sitka Spru	ce								
\$104.16	\$0.45	\$3.29	\$118.15	\$6.58	\$23.26	\$0.00	\$7.00	\$0.75	\$263.64
Alder (Red)	-			_				
\$104.16	\$0.46	\$3.29	\$135.20	\$6.58	\$24.97	\$0.00	\$7.00	\$0.75	\$282.41

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$790.06	\$545.92	\$0.00
Western Hemlock / Fir	\$0.00	\$671.00	\$407.36	\$0.00
Sitka Spruce	\$0.00	\$489.74	\$226.10	\$0.00
Alder (Red)	\$0.00	\$795.90	\$513.49	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,206	\$545.92	\$1,204,299.52
Western Hemlock / Fir	385	\$407.36	\$156,833.60
Sitka Spruce	35	\$226.10	\$7,913.50
Alder (Red)	37	\$513.49	\$18,999.13

Gross Timber Sale Value

Recovery: \$1,388,045.75

Prepared By: John Choate Phone: 503-325-5451

Site Prep Appraisal

Sale Number: 341-18-44
Sale Name: Harkin Larkin A2
Date: 07/13/2017

Vegetation Type/Zone	Vegetation Type/Zone Code	Production Rate (hr/ac)	Estimated Piles/Acre
Doug-fir	Α	0.5	2.0
Hemlock/Fir	В	1.5	4.5
Hemlock/Spruce	С	2.0	6.0
Hemlock	D	2.0	6.0
Conifer/Hardwood	Е	1.5	4.5
Whole Tree Yarding	F	0.25	0.5

Sale Area	Harvest Type	Veg Type/Zone	Ground Based Yarding Acres	Estimated Piling Hours/Area	Cost/Hour C325	Total Cost/Area	
2	MC	В	67	101	\$129.00	\$12,964.50	
					In-unit Piling	Sub Total =	\$12,964.50
Sale Area	Number of Landings to be Piled	Cost/Landing Pile	Total Cost/Area	Number of In- Unit Piles	Material Cost/Pile	Total Cost/Area	
2	8	\$220.00	\$1,760.00	301.5	\$5.00	\$1,507.50	
					Materials	Sub Total =	\$1,507.50
Move-In Allowance	Number of Move-In's	Total Move-In Allowance			Landing Piling	Sub Total =	\$1,760.00
\$1,290.00	1	\$1,290.00			Move-In	Sub Total =	\$1,290.00
						Grand Total =	\$17,522.00

Road Maintenance Cost Summary (Interim only)

Cal.	o.	
Sail	₽.	

Harkin Larkin Area 2

MBF:

2,663

Date:

September 6, 2017

\$\$/MBF:

\$0.44

By:

Bryce Rodgers

_		Move-in			D-4-	04
Туре	Equipment/Rationale	Rate	Times	Hours		Cost
	Grader 14G	\$778	1	4	\$100	\$1,178
Interim						
Operations						
Entries: 1						
□ :						
Final						
Road						
Maintenance						
Total						

Interim Operations Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	2.5	1.00	0.4	4

Final Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	1.5			
Vibratory Roller	1.5			

HARKIN LARKIN AREA 2 FY 2018 TIMBER CRUISE REPORT

1. Sale Area Location: Area 2 is located in portions of Sections 19 & 20, T8N, R6W, W.M., Clatsop County, Oregon

2. Fund Distribution: Fund:

BOF 100%

CSL 0%

Tax Code:

4-03 100%

3. Sale Acreage by Area:

Area	Treatment	Gross Acres	Stream Buffer Acres	New R/W Acres	Existing RW Acres	Reserve Tree Area	Net Acreage	Survey Method
2	Modified Clearcut	71	2	0	1	1	67	GIS

- **4. Cruisers and Cruise Dates:** <u>Area 2</u> was cruised by Bryce Rodgers with John Choate, Ed Holloran with Cody Valencia, Jenny Johnson with Ella Salkeld and John Tillotson on July 6, 2017.
- **5.** Cruise Method and Computation: Area 2 is a modified clearcut unit. A variable plot cruise with a 40 BAF was used for this Area. The plots were located on a 5 chain by 3 chain grid, with a count/grade plot ratio of 2:1. A total of 41 plots were sampled.

Cruisers used Allegro 2 data collectors that were downloaded to the Atterbury <u>Super A.C.E.</u> program at the Astoria District 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

PROJECT LARKIN2

TRACT

CRUISE TYPE 00MC

Timber Description: Area 2 is an approximately 85 year old stand of Douglas-fir, with some western hemlock, Sitka spruce and red alder. The average take Douglas-fir tree size is approximately 33 inches DBH, with an average merchantable tree height of 113 feet. The average take hemlock tree size is approximately 16 inches DBH, with an average merchantable tree height of 37 feet. The average take red alder tree size for harvest is approximately 15 inches DBH, with an average merchantable tree height of 65 feet. The average volume per acre to be harvested (net) is approximately 39.7 MBF. All trees were cruised to a merchantable top of 6 inch DIB or 40% fp.

Cedar is a reserved species.

6. Statistical Analysis: (See also "Statistics Reports," attached.)

Area	Target CV	Target SE%	Actual CV	Actual SE%
2	45	9	34.7	5.4

The statistics are for all areas and Take and Leave trees combined based on Net BF/Acre.

7. Take Volumes by Species and Log Grades for All Sale Areas by MBF: (See "Species, Sort Grade-Board Feet Volumes (Project)", "Statistics (Project)", and the "Stand Table Summary" attached). Volumes do not include "in-growth." The majority of defect and breakage was taken out during the cruise.

Conifer

Species	DBH	Net Vol. MBF	2 Saw	3Saw	4 Saw	% D&B	% Sale
Douglas-fir	34	2,206	2,075	131	0	1	83
Western Hemlock/fir	16	385	269	83	33	6	14
Sitka Spruce	13	35	0	22	13	28	1

Hardwoods

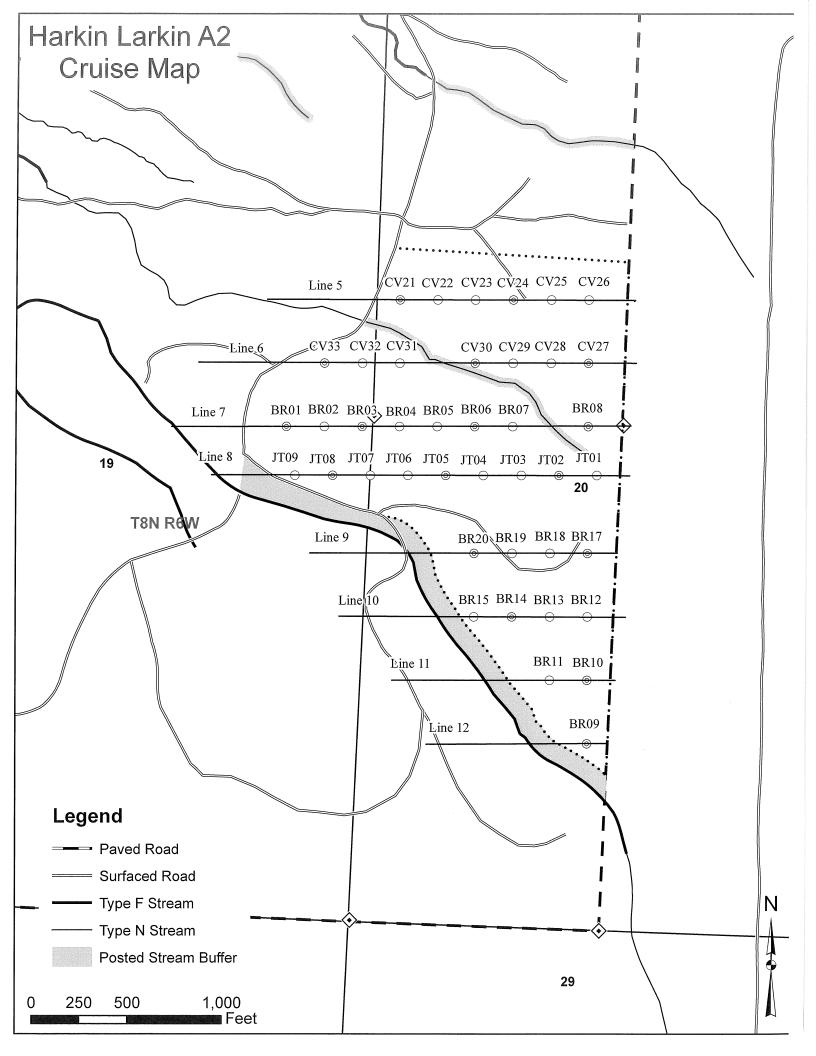
Species	DBH	Net Vol. MBF	12"+	10-12"	8-10"	6-8"	% D&B	% Sale
Red Alder	16	37	0	12	21	4	10	2

TOTAL NET VOLUME	2,663 MBF
	1 ' 1

8.	Prepared by:	Cody Valencia	Date: _	7/13/17
10.	Approved by:_	the tills.	Date:_	8/18/17

11. Attachments:

Cruise Plans & Maps (3) Species, Sort, Grade Report (1) Statistics Reports (1) Stand Table Report (1) Log Stock Table Report MBF (2)



Т	Species, Sort Grade - Board Foot Volumes (Type) Project: LARKIN2 8N R06W S19 T00MC														Pag Date Tim	e 7	1 7/18/20 1:16:2	
T08 Tv 08	vp R		Sec	Tract FK		Type 00M			ots 1	Samp	le Tree 76	S	C 1	'uFt	T08N I BdFt W	-		00MC
	s so	Gr	% Net	Bd.	Ft. per Ac	re	Total	Percent Log S				ume g Len	oth		Averaş Ln Dia		CF/	Logs Per
Spp		ad	BdFt	Def%	Gross	Net	Net MBF	ŀ		16 17+	12-20	_	_	36-99	Ft In	Ft	Lf	/Acre
D D D	DO DO DO	CU 2S 3S	94 6	100.0 .4 1.5	194 31,095 1,989	30,976 1,960	2,075 131	70	12	88 26	1 7	1 18	2 32	95 43	7 26 38 20 30 11		0.00 3.48 1.34	.9 44.6 13.5
D	Totals		83	1.0	33,278	32,936	2,206 ^{2,207}	4	11	85	1	2	4	92	36 18	558	3.06	59.0
Н Н Н	DO DO DO	CU 2S 3S 4S	69 22 9	1.6	292 4,089 1,240 491	4,022 1,240 491	269 83 33	2 59 100		93 22	5	2 5 100	36	93 59	7 13 30 18 37 8 24 6	100	0.00 3.55 0.85 0.43	6.3 7.0 12.5 15.3
Н	Totals		14	5.9	6,112	5,753	385	23	8	70	4	11	8	78	26 10	140	1.18	41.1
S S S	DO DO DO	CU 3S 4S	62 38	100.0	202 327 197	327 197	22 13	100	100		23		77	100	16 8 40 14 30 7		0.00 2.22 0.65	6.7 1.1 4.2
s	Totals		1	27.9	726	524	35	38	62		9		29	62	23 8	44	0.65	12.0
A A A	DO DO DO	CU 2S 3S 4S	33 57 10	100.0 4.7	47 186 326 54	186 311 54	12 21 4	100 100 100			100	51		100 49	5 15 40 11 33 8 20 6	180 84 20	0.00 1.22 0.81 0.42	1.2 1.0 3.7 2.7
A	Totals		1	10.1	612	551	37	100			10	29		61	26 9	64	0.77	8.6
Туре	Totals			2.4	40,728	39,763	2,663 2,664	9	11	80	2	4	5	89	31 13	329	2.19	120.8

TC TST	TATS				ST PROJE	CATIS	TICS LARKIN2			PAGE DATE	1 8/18/2017
TWP	RGE	SECT 7	ГRАСТ		TYPE	A	CRES	PLOTS	TREES	CuFt	BdFt
08N	06W	19	42		00MC		67.00	41	193	1	W
		PLOTS	TREES		TREES PER PLOT	•	ESTIMATED TOTAL TREES	3	PERCENT SAMPLE FREES		
TOTA	L	41	193		4.7						
CRUIS DBH (REFO: COUN	COUNT REST	20	81 101		4.1		4,331		1.9		
BLAN 100 %											
				STA	ND SUMI	MARY					
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG	FIB	58	19.2	33.5	113	20.4					
	MLOCK	12	30.6	33.3 15.5	37	10.2	118.0 40.0	33,278 6,112	32,936 5,753	6,486 1,353	6,457 1,289
S SPRI		4	9.1	14.7	27	2.8	10.7	1,311	1,144	322	277
SNAG		3	1.7	33.8	76	1.8	10.7	1,511	1,111	322	211
R ALD		3	3.7	15.5	65	1.2	4.9	639	577	182	173
DOUG	LEAV	1	.3	37.0	123	0.3	2.0	653	653	118	118
TOTA	L	81	64.6	23.0	61	38.9	186.3	41,993	41,063	8,462	8,314
CL:	68.1 %	COEFI	OF 100 THE	VOLUME	SAMPL				OF TREES	REO.	INF. POP.
SD:	1.0	VAR.9	6 S.E.%	LC		AVG	HIGH	"	5	10	15
DOUG		37.6	4.9	1	,792	1,885	1,978				
WHEM S SPRU SNAG		134.9 189.2	40.6 108.1		454	765 2,255	1,076 4,692				
R ALD DOUG	ER LEAV	27.2	18.8		130	160	190				
TOTA		77.4	8.6	1,	473	1,611	1,750		239	60	27
CL:		COEFF	7		TREES/A	ACRE		#	OF PLOTS	REQ.	INF. POP.
SD:		VAR.%		LC		AVG	HIGH		5	10	15
DOUG		56.6	8.8		18	19	21				
WHEM S SPRU		138.0 316.5	21.5 49.4		24 5	31 9	37 14				
SNAG		212.4	33.1		1	2	2				
R ALD	ER	337.6	52.7		2	4	6				
DOUG		447.1	69.8		0	0	0				
TOTA		79.6	12.4		57	65	73		253	63	28
CL:		COEFF	•		BASAL A	AREA/A	CRE	#	OF PLOTS	REQ.	INF. POP.
SD:		VAR.%		LO		AVG	HIGH		5	10	15
DOUG		54.6 124.5	8.5		108	118	128				
WHEM S SPRU		124.5 276.7	19.4 43.2		32 6	40 11	48 15				
SNAG	CL	204.6	31.9		7	11	13 14				
R ALD	ER	327.7	51.1		2	5	7				
DOUGI		447.1	69.8		1	2	3				
TOTAL	L	27.4	4.3		178	186	194		30	8	3
CL: 6	58.1 %	COEFF			NET BF/	ACRE		#	OF PLOTS	REQ.	INF. POP.
	1.0	VAR.%		LO	W	AVG	HIGH		5	10	15
DOUG		53.4	8.3			2,936	35,679				
WHEM		137.9	21.5			5,753	6,991				
S SPRU SNAG	JCE	288.5	45.0		629	1,144	1,659				
DAMG											

TC TST	ATS					STATI JECT	ISTICS LARKIN	PAGE 2 DATE 8/18/2017			
TWP	RGE	SECT	TRAC	T	TYP	E	ACRES	PLOTS	TREES	CuFt	BdFt
08N	06W	19	A2		00M	<u>C</u>	67.00	41	193	11	W
CL: SD:	68.1 % 1.0	COEFF VAR. S.E.%			NET LOW	BF/ACR AVG			# OF PLO	TS REQ.	INF. POP.
R ALI Doug Tot a	GLEAV	322 447 <i>31</i> .	'.1	50.3 69.8 5.0	287 198 <i>39,026</i>	577 653 41,063	1,109		40	10	4

TC TSTA	ATS		nd-red affaire and a second and a second development of the second development of the second development of the		S'. PROJE	FATIS CT	TICS LARKIN2			PAGE DATE	1 7/18/2017
TWP	RGE	SECT T	RACT		TYPE	A	CRES	PLOTS	TREES	CuFt	BdFt
08N	06W	19 T	K		00MC		67.00	41	177	1	W
					TREES		ESTIMATED TOTAL	9	PERCENT SAMPLE		
		PLOTS	TREES		PER PLO	Γ	TREES	[TREES		
TOTAL		41	177		4.3						
CRUIS DBH C REFOR	COUNT REST	19 22	76 93		4.0		4,321		1.8		
BLANI 100 %	KS	22	93		4.2						
				STA	ND SUM	MARY					
		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	58	19.2	33.5	113	20.4	118.0	33,278	32,936	6,486	6,457
WHEM	//LOCK	12	30.6	15.5	37	10.2	40.0	6,112	5,753	1,353	1,289
S SPRU	UCE	3	10.9	12.8	27	2.7	9.8	726	524	236	182
R ALD	ER	3	3.7	15.5	65	1.2	4.9	612	551	181	171
TOTA	L	76	64.5	22.2	60	36.7	172.7	40,728	39,763	8,256	8,100
	68.1				WILL BI	E WITHIN	N THE SAMPI				
CL:		COEFF				E TREE		#	OF TREES	S REQ.	INF. POP.
	1.0	VAR.%	S.E.%		OW	AVG	HIGH		5	10	15
DOUG WHEM		37.6 134.9	4.9 40.6		1,792 454	1,885 765	1,978 1,076				
S SPRU		134.9	97.1		434	127	250				
R ALD		32.2	22.3		119	153	187				
TOTA		59.8	6.9	j	1,463	1,571	1,678		143	36	16
CL: 6	58.1 %	COEFF	· · · · · · · · · · · · · · · · · · ·		TREES	ACRE		#	OF PLOTS	REO	INF. POP.
_	1.0	VAR.%	S.E.%	L	OW	AVG	HIGH	π	5	10	15
DOUG		56.6	8.8		18	19	21			10	
WHEM		138.0	21.5		24	31	37				
S SPRU	JCE	316.9	49.4		6	11	16				
R ALDI		337.6	52.7		2	4	6				
TOTAL	L	85.2	13.3		56	64	73		290	72	32
CL: 6	58.1 %	COEFF			BASAL	AREA/A	CRE	#	OF PLOTS	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	Lo	OW	AVG	HIGH		5	10	15
DOUG		54.6	8.5		108	118	128				
WHEM		124.5	19.4		32	40	48				
S SPRU		301.0	47.0		5	10	14				
R ALDI		327.7	51.1		2	5	7		12	1 1	-
TOTAL		32.5	5.1		164	173	181		42	11	5
CL: 6		COEFF			NET BE			#	OF PLOTS	REQ.	INF. POP.
	1.0	VAR.%	S.E.%		OW	AVG	HIGH		5	10	15
DOUG		53.4	8.3			32,936	35,679				
WHEM		137.9	21.5	4	4,515	5,753	6,991 772				
S SPRU R ALDI		303.0 320.1	47.3 49.9		276 276	524 551	772 826				
TOTAI		320.1 34.7	49.9 5.4	27		331 39,763	826 41,915		48	12	5
IOIAI		54./	J.4	3/	,012	17,703	71,710		70	12	

TC TS	TNDSUI	M		/			Stan	d Table	Summa	nry					
							Proj	ject	LARKI	N2	~				
T08N R06W S19 T00MC Twp Rge Sec Tract 08N 06W 19 TK				Type 00MC				cres 7.00	Plots 41	Sample 7		T08N R Page: Date: Time:	06W S19 T00MC 1 07/18/20: 1:16:23PM		
S	1	Sample		Av Ht	Trees/		Logs	Net	age Log Net	Tons/	Net Cu.Ft.	Net Bd.Ft.	To	tals	
Spc T		Trees	16'	Tot	Acre	Acre		Cu.Ft.		Acre	Acre	Acre	Tons	Cunits	MBF
D	27	1	89	136	.512	2.04	1.54	69.7	316.7		107	486		72	33
D	28 29	4	89	136 145	1.904	8.14	5.71	74.7	360.0		426	2,056		286	138
D D	30	7	89 90	145	3.106 1.244	14.25 6.11	9.32 3.73	82.5 93.6	408.1 468.9		769 349	3,803 1,750		515 234	255 117
D	31	3	90	147	1.165	6.11	3.49	97.3	492.2	1	349	1,730		234	117
D	32	6	89	145	i	12.21	6.56	101.8	503.9		668	3,305		448	221
D	33	5	89	143	1.713	10.18	5.14	107.7	550.0		554	2,827		371	189
D	34	3	89	137	.968	6.11	2.91	110.1	548.9		320	1,595		214	107
D	35	4	91	155	1.219	8.14	3.66	130.1	693.3		476	2,535		319	170
D	36	3	88	133	.864	6.11	2.59	115.3	583.3		299	1,512		200	101
D	37	5	89	149	1.363	10.18	4.09	140.1	753.3	İ	573	3,080		384	206
D	38	2	89	143	.517	4.07	1.55	143.5	728.3		223	1,129		149	76
D	39	2	89	149	.491	4.07	1.47	153.2	806.7		225	1,187		151	80
D	40	1	89	128	.233	2.04	.70	141.7	683.3		99	478		66	32
D	41	2	87	153	.444	4.07	1.33	172.7	895.0		230	1,192		154	80
D D	42 43	1 1	85 85	161 137	.212 .202	2.04 2.04	.85 .61	139.7 172.7	717.5 873.3		118 105	607 529		79 70	41
D	44	2	90	158	.386	4.07	1.35	172.7	978.6		234	1,320		157	35 88
D	46	2	88	155	.353	4.07	1.06	222.2	1205.0		235	1,320		157	85
D	49	1	86	146	.155	2.04	.47	232.3	1176.7		108	549		73	37
D	Totals	58	89	145	19.236	118.05	58.11	111.1	566.8		6,457	32,936		4,326	2,207
Н	10	2	85	41	12.223	6.67	12.22	9.0	30.0		110	367		74	25
Н	11	1	78	72	5.051	3.33	5.05	18.0	60.0		91	303		61	20
Н	14	1	83	45	3.118	3.33	3.12	16.0	40.0		50	125		33	8
Н	15	1	85	72	2.716	3.33	2.72	24.0	70.0		65	190		44	13
H H	16 17	1 1	91 85	17 50	2.544 2.115	3.33 3.33	2.54 2.11	17.0 32.0	80.0 60.0		43 68	204		29 45	14
Н	28	1	92	99	.780	3.33	1.56	94.5	425.0		08 147	127 663		43 99	9 44
Н	29	1	91	88	.727	3.33	1.45	90.5	405.0		132	589		88	39
Н	35	1	91	141	.499	3.33	1.50	136.7	763.3		205	1,142		137	77
Н	37	1	91	130	.446	3.33	1.34	131.7	683.3		176	915		118	61
Н	39	1		141	.402	3.33	1.21	168.0	936.7		203	1,129		136	76
Н	Totals	12	85	55	30.620	40.00	34.82	37.0	165.2		1,289	5,753		864	385
A	14	1	87	79	1.521	1.63	3.04	20.0	60.0		61	183		41	12
A	16	1	87	70	1.165	1.63	2.33	19.5	65.0		45	151		30	10
A	17	1	87	87	1.032	1.63	2.06	31.5	105.0		65	217		44	15
A	Totals	3	87	78	3.717	4.88	7.43	23.0	74.1		171	551		115 '	37
S	9	1	89	17	6.748	3.25									
S	14	1	92	42	3.042	3.25	3.04	21.0	50.0		64	152		43	10
S	23	1	82	75	1.127	3.25	2.25	52.5	165.0		118	372		79	25
S	Totals	3	89	30	10.917	9.76	5.30	34.4	98.9		182	524		122	35
Totals		76	87	79	64.491 1	72.68	105.66	76.7	376.3		8100	39,763		5,427	2,664

TC TLOGSTVB Log Stock Table - MBF Project: LARKIN2 T08N R06W S19 T00MC T08N R06W S19 T00M Page 1 Twp Rge Sec Tract Sample Trees Type **Plots** Acres Date 7/18/2017 08N 06W 19 TK 00MC 67.00 41 76 Time 1:16:23PM S So Gr Log Gross % Net % Net Volume by Scaling Diameter in Inches Spp T rt de Len **MBF** Def **MBF** Spc 10-11 12-13 14-15 16-19 2-3 4-5 20-23 24-29 30-39 40+ DO CU 6 D 100.0 8 DO CU 10 100.0 D 5 DO 2S 18 5 5 D DO 2S 20 18 D 18 .8 3 11 D DO 2S 22 15 15 .7 DO 2S 26 D 5 5 .2 3 DO 2S 5 .2 D 28 5 DO 2S D 32 47 2.5 45 2.1 3 7 18 D DO 2S 36 4 4 .2 20 D DO 2S 38 20 .9 10 11 D DO 2S 40 1,934 1,927 87.3 31 72 363 640 164 658 D DO 2S 41 31 31 1.4 31 3 .2 3 D DO 3S 16 3 D DO 3S 18 2 .1 2 D DO 3S 20 .2 .2 D DO 3S 22 4 2 2 DO 3S 24 2 2 D 2 .1 D DO 3S 26 3 3 .1 D 3S 16 .7 DO 28 16 4 12 D DO 3S 32 35 35 1.6 27 D DO 3S 34 6 6 .3 6 D DO 3S 36 3 3 .1 3 D DO 3S 38 4 4 .2 4 D DO 3S 40 3.9 49 2.2 51 11 11 23 Totals 2,230 1.0 2,207 82.8 20 73 392 707 D 62 86 669 198 DO CU 5 100.0 Η 4 Η DO CU 6 100.0 6 DO CU 10 9 100.0 Η 14 14 3.5 DO 2S 14 14 Η DO 2S 30 5 5 1.4 5 Η DO 2S 40 255 Η 1.8 250 65.0 121 85 44 Η DO 3S 26 4 1.0 DO 3S 32 Η 30 30 7.7 6 18 DO 3S 36 20 20 Η 5.3 20 DO 3S 40 29 29 Η 7.5 21 8 25 6.4 Η DO 4S 24 25 25 Η DO 4S 26 8 8 2.2 8 Totals 13 409 5.9 385 14.5 74 23 6 Η 140 85 44 DO CU 16 14 100.0 DO 3S 40 22 22 62.4 22 S DO 4S 20 3 3 8.6 3 S DO 4S 34 10 10 29.0 10 S Totals 49 27.9 35 1.3 10 3 22 A DO CU 5 3 100.0 33.7 12 DO 2S 40 12 12 A 2 2 5.6 DO 3S 28 2

TC TLOGSTVB Log Stock Table - MBF Project: LARKIN2																		
T08N R06W S19 T00MC Twp Rge Sec Tract 08N 06W 19 TK							7	Acres Plots Sample Trees 67.00 41 76			es	T08N R06W S19 T00M Page 2 Date 7/18/2017 Time 1:16:23PM						
S Spp T	So Gr	Log Len	Gross MBF	%	Net MBF	% .	Net Volume by Scaling Diameter in Inches									40.		
A A	DO 3S DO 3S	30	9 11	Def 9.1	9 10	23.3 27.6	2-3	4-5	6-7	8-9	10-11 9	12-13	14-15	16-19	20-23	24-29	30-39	40+
Α	DO 4S	20	4		4	9.8			4									
A	Tot	als	41	10.1	37	1.4			6	10	21							
Total All	Species		2,729	2.4	2,664	100.0			90	33	107	85	114	392	809	792	242	

