Cruise Narrative

Sale Name:	LITTLE RIVER AERIAL	**Region:**	Olympic
App. #:	N/A	**District:**	Crescent
Lead cruiser:	Darryl Dillard	**Completion date:**	Jan. 24 2003 modified July 25 2003 to reflect changes made by forester.
Other cruisers on sale:	Jim Past, Marv Kirner, Durwood Duncan, Chuck Backman		

Unit acreage specifications:

Unit #	Cruised acres	Cruised acres agree with sale acres? Yes/No	If acres do not agree explain why.
1	116.8	Yes	
2	0.8	Yes	
3	4.0	Yes	
4	3.4	Yes	
Total	125.0		

Unit cruise specifications:

Unit #	Sample type (VP, FP, ITS,100%)	Expansion factor (BAF, full/ half)	Sighting height (4.5 ft, 16 ft.)	Grid size (Plot spacing or % of area)	Plot ratio (cruise: count)	Total number of plots
1	VP	46.94 H	D4'H	330'x300'	30:57	57
2	VP	40.00 F	D4'H	Random	2:2	2
3	VP	40.00 F	D4'H	330'x300'	3:3	3
4	VP	33.61 F	D4'H	330'x300'	2:2	2
						64

Sale/Cruise Description:

Minor species cruise intensity:	Cruised minor species same as majors' in order to utilize the "SuperAce" program.					
Minimum cruise spec:	20 Bd. Ft. gross					
Avg ring count by sp:	**DF** =	10 RPI	**WH** =	8 RPI	**SS** =	N/A
Leave/take tree description:	Leave trees in units 1 & 2 are banded with BLUE paint, mainly scattered but also clumped along the type 5 streams. Leave trees in units 3 & 4 are tagged out of the sale area. Unit 1 was modified after the cruise, 29.54 acres is to be a thinning area. These 3 areas are in the northern part of the unit nearest the 'Little River'. These trees to be left were also painted and 100% cruised and are to be deducted from unit 1 and overall sale volumes.					
Other conditions	Leave trees in original cruise were not counted or cruised when they fell in plots. Thinning leave trees were 100% cruised and are deducted from original volumes in U-1 and Total Cruise.					

Field observations:

These 80-90 year old units are dominated by small diameter Douglas Fir, Western Hemlock and Red Alder with Grand Fir and Western Red Cedar present as minor species. Little to no defect occurs except in the Cedar and is attributable to butt-rot. Defect in the other species is due primarily to 'mistletoe' in the Hemlock and anticipated breakage due to extremely steep terrain in places. The volume in Unit 4 is low as this area has recently been commercially thinned. The topography in units 3 and 4 is flat.

Grants: 01

Prepared by: Darryl R. Dillard

Title: Forest Cruiser

CC: N/A

TOTAL CRUISE LITTLE RIVER AERIAL

	Total Net MBF
DF DM2S	336
DF DM3S	1417
DF DM4S	280
DF Totals	2033
WH DM2S	51
WH DM3S	430
WH DM4S	176
WH Totals	657
GF DM2S	86
GF DM3S	41
GF DM4S	5
GF Totals	132
RC DM3S	94
RC DM4S	58
RC Totals	152
RA DM2S	31
RA DM3S	186
RA DM4S	288
RA Totals	505
TOTALS	3479

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T30N R06W S31 Ty0001
THRU
T30N R06W S32 Ty0004

Project: LILRIVAR
Acres 125.00

Page 1
Date 6/25/2003
Time 1:23:45PM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
DF		DM2S	16	3.9	2,969	2,853	357		31	69				100		32	172	1.29	16.6
DF		DM3S	70	4.4	12,627	12,069	1,509	11	85	5			0	100		32	63	0.50	190.8
DF		DM4S	13	5.6	2,522	2,381	298	99	1			27	37	36		18	13	0.19	182.1
DF	**Totals**		58	4.5	18,118	17,302	2,163	21	64	15		4	5	91		25	44	0.44	389.6
WH		DM2S	7	6.6	462	431	54			100				100		32	149	1.23	2.9
WH		DM3S	65	6.1	3,893	3,655	457	14	82	4			4	96		31	52	0.43	71.0
WH		DM4S	27	2.9	1,541	1,497	187	89	11			19	19	62		23	18	0.21	84.4
WH	**Totals**		19	5.3	5,896	5,583	698	33	56	10		5	8	87		27	35	0.35	158.2
GF		DM2S	65	15.5	873	737	92			39	61			100		32	318	2.14	2.3
GF		DM3S	31	14.2	414	355	44		87	13				100		32	89	0.84	4.0
GF		DM4S	3		38	38	5	37	63			100				13	19	0.33	2.0
GF	**Totals**		4	14.6	1,325	1,131	141	1	30	30	39	3		97		27	136	1.21	8.3
RC		DM3S	61	12.9	919	800	100		100				4	96		32	58	0.67	13.7
RC		DM4S	38		496	496	62	100				28	37	35		22	17	0.25	29.8
RC	**Totals**		4	8.4	1,415	1,296	162	38	62			11	17	73		25	30	0.42	43.6
RA		DM2S	6	12.5	299	262	33			100				100		32	140	1.19	1.9
RA		DM3S	37		1,585	1,585	198		100					100		32	127	0.88	12.5
RA		DM4S	57		2,452	2,452	306	37	63			2	6	93		29	41	0.40	60.2
RA	**Totals**		15	.9	4,336	4,299	537	21	73	6		1	3	96		30	58	0.51	74.6
Totals				4.8	31,090	29,611	3,701	23	63	12	2	4	6	90		26	44	0.44	674.3

This portion of Unit 1 was modified after the cruise to become a thinning area. All volumes, figures, and percentages are to be deducted from unit 1 and the Total Cruise document titled "LILRIVAR".

******TOTAL VOLUME FOR SALE IS 3,479 MBF.**

******TOTAL VOLUME FOR Unit 1 is 3235 MBF.**

TC PSTATS

PROJECT STATISTICS
PROJECT

PAGE 2
DATE 6/25/2003

												CuFt	BdFt
30N	06	31	UNIT 1	0001	TH		125.00	64	362				
30N	06W	32	UNIT 4	0004									

	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK	152.0	19.0	4,522	5,583	6,644			
WR CEDAR	233.2	29.2	918	1,296	1,674			
R ALDER	211.2	26.4	3,164	4,299	5,434			
GRAND F	523.1	65.4	391	1,131	1,870			
TOTAL	*61.5*	*7.7*	*27,333*	*29,611*	*31,889*	*152*	*38*	*17*

	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	96.2	12.0	3,839	4,364	4,889			
WHEMLOCK	149.7	18.7	1,194	1,469	1,744			
WR CEDAR	237.0	29.6	320	455	590			
R ALDER	212.1	26.5	822	1,119	1,415			
GRAND F	505.1	63.1	101	274	447			
TOTAL	*59.1*	*7.4*	*7,114*	*7,681*	*8,248*	*139*	*35*	*15*

TC PSTATS

PROJECT STATISTICS
PROJECT

DATE 6/25/2003

								CuFt	BdFt
30N 06 31	UNIT 1	0001	TH	125.00	64	362			
30N 06W 32	UNIT 4	0004							

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	64	362	5.7		
CRUISE	36	200	5.6	42,896	.5
DBH COUNT					
REFOREST COUNT	27	162	6.0		
BLANKS	1				
100 %					

STAND SUMMARY

	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 FIR	101	169.5	12.3	68	39	139.1	18,118	17,302	4,369	4,364
WHEMLOCK	54	99.2	10.1	54	13	55.5	5,896	5,583	1,467	1,469
WR CEDAR	15	32.6	11.7	43		24.4	1,415	1,296	453	455
R ALDER	24	39.3	12.9	64		35.4	4,336	4,299	1,118	1,119
GRAND F	6	2.6	20.9	98	1	6.2	1,325	1,131	274	274
TOTAL	*200*	*343.2*	*11.8*	*62*		*260.5*	*31,090*	*29,611*	*7,680*	*7,681*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	141.3	10.0	76	84	92			
WHEMLOCK	226.2	16.0	20	24	28			
WR CEDAR	469.1	33.2	3	4	6			
R ALDER	292.2	20.7	12	15	18			
GRAND F	641.9	45.4	9	17	25			
TOTAL	*94.4*	*6.7*	*135*	*144*	*154*	*356*	*89*	*40*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	138.5	9.8	19	21	24			
WHEMLOCK	219.4	15.5	5	6	7			
WR CEDAR	469.0	33.2	1	2	2			
R ALDER	291.5	20.6	3	4	5			
GRAND F	624.4	44.2	2	4	6			
TOTAL	*86.5*	*6.1*	*35*	*37*	*39*	*299*	*75*	*33*

SD: 1	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	107.8	13.5	147	169	192			
WHEMLOCK	152.2	19.0	80	99	118			
WR CEDAR	234.1	29.3	23	33	42			
R ALDER	218.7	27.3	29	39	50			
GRAND F	463.9	58.0	1	3	4			
TOTAL	*64.4*	*8.1*	*316*	*343*	*371*	*166*	*42*	*18*

SD: 1	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	96.0	12.0	122	139	156			
WHEMLOCK	146.1	18.3	45	55	66			
WR CEDAR	226.5	28.3	17	24	31			
R ALDER	212.5	26.6	26	35	45			
GRAND F	483.4	60.4	2	6	10			
TOTAL	*56.4*	*7.0*	*242*	*260*	*279*	*127*	*32*	*14*

SD: 1	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	97.5	12.2	15,193	17,302	19,412			

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T30N R06W S31 Ty0001 116.80

Project: LILRIVAR
Acres 116.80

Page 2
Date 6/25/2003
Time 1:02:59PM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
DF		DM2S	15	4.2	2,746	2,631	307		36	64				100		32	168	1.25	15.6
DF		DM3S	70	4.5	12,683	12,108	1,414	11	84	5			0	100		32	62	0.50	193.9
DF		DM4S	14	5.5	2,574	2,434	284	100	0			27	35	38		17	13	0.19	189.5
DF	**Totals**		58	4.6	18,003	17,173	2,006	22	65	13		4	5	91		25	43	0.43	399.0
WH		DM2S	8	6.6	494	462	54			100				100		32	149	1.23	3.1
WH		DM3S	64	6.3	3,650	3,421	400	16	84				4	96		31	49	0.41	70.1
WH		DM4S	27	3.1	1,512	1,464	171	93	7			19	14	67		22	17	0.21	84.7
WH	**Totals**		18	5.5	5,656	5,347	625	36	55	9		5	7	88		27	34	0.34	157.9
RC		DM3S	58	14.2	867	744	87		100					100		32	58	0.67	12.8
RC		DM4S	41		522	522	61	100				29	36	36		22	17	0.25	31.5
RC	**Totals**		4	8.8	1,389	1,266	148	41	59			12	15	73		25	29	0.41	44.3
GF		DM2S	65	15.5	934	789	92			39	61			100		32	318	2.14	2.5
GF		DM3S	31	14.2	443	380	44		87	13				100		32	89	0.84	4.3
GF		DM4S	3		41	41	5	37	63			100				13	19	0.33	2.2
GF	**Totals**		4	14.6	1,418	1,210	141	1	30	30	39	3		97		27	136	1.21	8.9
RA		DM2S	6	12.5	320	280	33			100				100		32	140	1.19	2.0
RA		DM3S	37		1,696	1,696	198		100					100		32	127	0.88	13.4
RA		DM4S	57		2,624	2,624	306	37	63			2	6	93		29	41	0.40	64.4
RA	**Totals**		16	.9	4,641	4,600	537	21	73	6		1	3	96		30	58	0.51	79.8
Totals				4.9	31,107	29,597	3,457	24	63	11	2	4	5	91		26	43	0.43	690.0

******TOTAL VOLUME FOR Unit 1 is 3,235 MBF.**

TC PSTATS

PROJECT STATISTICS
PROJECT

DATE 6/25/2003

						CuFt	BdFt
30N 06 31	UNIT 1	0001	116.80	57	318		

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	57	318	5.6		
CRUISE	30	160	5.3	40,937	.4
DBH COUNT					
REFOREST COUNT	26	158	6.1		
BLANKS	1				
100 %					

STAND SUMMARY

	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 FIR	76	173.4	12.1	68	39	138.3	18,003	17,173	4,325	4,322
WHEMLOCK	42	99.0	10.0	53	12	54.4	5,656	5,347	1,424	1,426
R ALDER	24	42.0	12.9	64		37.9	4,641	4,600	1,197	1,197
WR CEDAR	12	33.4	11.7	42		24.7	1,389	1,266	447	449
GRAND F	6	2.8	20.9	98	1	6.6	1,418	1,210	293	293
TOTAL	*160*	*350.5*	*11.7*	*61*		*261.9*	*31,107*	*29,597*	*7,686*	*7,687*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	152.0	12.0	64	73	81			
WHEMLOCK	228.5	18.1	17	21	24			
R ALDER	257.7	20.4	15	19	23			
WR CEDAR	450.6	35.6	2	3	5			
GRAND F	572.8	45.3	12	21	31			
TOTAL	*102.3*	*8.1*	*126*	*137*	*148*	*418*	*105*	*46*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	149.4	11.8	16	18	21			
WHEMLOCK	224.9	17.8	5	6	7			
R ALDER	257.0	20.3	4	5	6			
WR CEDAR	489.1	38.7	1	1	2			
GRAND F	557.0	44.0	3	5	7			
TOTAL	*92.9*	*7.3*	*33*	*35*	*38*	*345*	*86*	*38*

SD: 1	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	104.1	13.8	149	173	197			
WHEMLOCK	152.7	20.2	79	99	119			
R ALDER	203.9	27.0	31	42	53			
WR CEDAR	228.2	30.2	23	33	43			
GRAND F	436.9	57.9	1	3	4			
TOTAL	*60.1*	*8.0*	*323*	*350*	*378*	*144*	*36*	*16*

SD: 1	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	95.2	12.6	121	138	156			
WHEMLOCK	149.4	19.8	44	54	65			
R ALDER	197.9	26.2	28	38	48			
WR CEDAR	221.6	29.4	17	25	32			
GRAND F	455.4	60.3	3	7	11			
TOTAL	*53.2*	*7.1*	*243*	*262*	*280*	*113*	*28*	*13*

SD: 1	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	96.6	12.8	14,976	17,173	19,371			

PROJECT STATISTICS
PROJECT

											CuFt	BdFt
30N	06	31	UNIT 1		0001			116.80	57	318		

			NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK	158.3	21.0	4,226	5,347	6,468			
R ALDER	196.7	26.1	3,402	4,600	5,799			
WR CEDAR	231.7	30.7	878	1,266	1,655			
GRAND F	493.0	65.3	420	1,210	2,001			
TOTAL	*59.0*	*7.8*	*27,286*	*29,597*	*31,908*	*139*	*35*	*15*

			NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	95.6	12.7	3,775	4,322	4,869			
WHEMLOCK	154.0	20.4	1,135	1,426	1,717			
R ALDER	197.5	26.2	884	1,197	1,510			
WR CEDAR	235.1	31.1	309	449	589			
GRAND F	476.0	63.0	108	293	478			
TOTAL	*56.2*	*7.4*	*7,115*	*7,687*	*8,259*	*126*	*32*	*14*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T30N R06W S31 Ty0005 29.54

Project: LILRIVAR
Acres 29.54

Page 1
Date 6/25/2003
Time 1:18:15PM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
DF		DM2S	12	10.8	468	417	12		41	59				100		32	140	1.24	3.0
DF		DM3S	79	4.2	2,717	2,601	77	13	87			1	1	99		31	55	0.45	47.1
DF		DM4S	9		297	297	9	100				68	27	5		15	10	0.16	30.6
DF	**Totals**		44	4.8	3,481	3,316	98	19	74	7		7	3	91		25	41	0.43	80.7
WH		DM2S	4	12.9	121	105	3			100				100		32	155	1.37	.7
WH		DM3S	82	5.6	1,928	1,821	54	5	90	6				100		32	60	0.47	30.4
WH		DM4S	13	1.6	289	285	8	94	6			29	43	28		20	11	0.18	24.8
WH	**Totals**		29	5.5	2,338	2,210	65	16	75	9		4	6	91		27	40	0.39	55.9
RC		DM3S	48	15.1	171	145	4	50	50					100		32	29	0.37	5.0
RC		DM4S	52	1.3	157	155	5	96	4			16	64	20		19	15	0.22	10.6
RC	**Totals**		4	8.5	328	300	9	74	26			8	33	58		23	19	0.28	15.6
RA		DM2S	1		28	28	1			100				100		32	166	1.27	.2
RA		DM3S	36	1.2	580	573	17		91	9				100		32	103	0.76	5.6
RA		DM4S	62	1.0	1,008	998	29	37	63			10		90		25	30	0.34	32.9
RA	**Totals**		21	1.1	1,616	1,599	47	23	72	5		6		94		26	41	0.42	38.6
GF		DM2S	3	21.4	5	4	0		100					100		32	110	1.31	.0
GF		DM3S	91	5.1	93	88	3	43	57			11	11	78		29	40	0.47	2.2
GF		DM4S	5		5	5	0	100				100				5	5	0.19	.9
GF	**Totals**		1	5.6	103	97	3	44	56			15	10	75		22	30	0.46	3.2
Totals				4.4	7,867	7,522	222	21	71	7		6	4	90		26	39	0.40	194.0

TC PSTATS

PROJECT STATISTICS
PROJECT

DATE 6/25/2003

								CuFt	BdFt
30N	06	31	LILRVDST	0005	29.54	3	2,866		

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	3	2866	955.3		
CRUISE	3	2866	955.3	2,866	100.0
DBH COUNT					
REFOREST COUNT					
BLANKS					
100 %					

STAND SUMMARY

	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 FIR	1,027	34.8	12.1	68	8	27.9	3,481	3,316	867	867
WHEMLOCK	854	28.9	11.1	61	4	19.3	2,338	2,210	581	582
R ALDER	598	20.2	11.5	57		14.5	1,616	1,599	418	418
WR CEDAR	333	11.3	9.3	41		5.3	328	300	103	101
GRAND F	54	1.8	11.5	54	0	1.3	103	97	32	32
TOTAL	*2,866*	*97.0*	*11.4*	*60*		*68.3*	*7,867*	*7,522*	*2,001*	*2,000*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	178.1	3.3	33	34	35			
WHEMLOCK	205.0	3.8	22	23	24			
R ALDER	236.2	4.4	16	16	17			
WR CEDAR	314.7	5.9	3	3	3			
GRAND F	942.2	17.6	1	1	1			
TOTAL	*76.7*	*1.4*	*76*	*78*	*79*	*236*	*59*	*26*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	179.6	3.4	9	9	9			
WHEMLOCK	203.3	3.8	6	6	6			
R ALDER	235.2	4.4	4	4	4			
WR CEDAR	324.1	6.1	1	1	1			
GRAND F	929.4	17.4	0	0	0			
TOTAL	*75.2*	*1.4*	*20*	*21*	*21*	*226*	*57*	*25*

SD: 1	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	81.1	46.8	18	35	51			
WHEMLOCK	49.1	28.3	21	29	37			
R ALDER	15.8	9.1	18	20	22			
WR CEDAR	51.1	29.5	8	11	15			
GRAND F	149.2	86.1	0	2	3			
TOTAL	*34.1*	*19.7*	*78*	*97*	*116*	*46*	*12*	*5*

SD: 1	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	75.7	43.7	16	28	40			
WHEMLOCK	50.2	29.0	14	19	25			
R ALDER	22.2	12.8	13	14	16			
WR CEDAR	47.5	27.4	4	5	7			
GRAND F	153.9	88.9	0	1	2			
TOTAL	*35.0*	*20.2*	*54*	*68*	*82*	*49*	*12*	*5*

SD: 1	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	71.1	41.0	1,955	3,316	4,676			

TC PSTATS

PROJECT STATISTICS
PROJECT

									CuFt	BdFt
30N	06	31	LILRVDST	0005			29.54	3	2,866	

SD: 1	COEFF VAR.	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHEMLOCK	50.7	29.3	1,563	2,210	2,858			
R ALDER	22.4	12.9	1,392	1,599	1,806			
WR CEDAR	48.6	28.1	216	300	385			
GRAND F	152.5	88.0	12	97	183			
TOTAL	*34.1*	*19.7*	*6,040*	*7,522*	*9,004*	*47*	*12*	*5*

SD: 1	COEFF VAR.%	S.E.%	NET CUFT FT/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	74.2	42.9	495	867	1,239			
WHEMLOCK	50.6	29.2	412	582	752			
R ALDER	24.4	14.1	359	418	477			
WR CEDAR	46.4	26.8	74	101	128			
GRAND F	155.2	89.6	3	32	61			
TOTAL	*35.7*	*20.6*	*1,588*	*2,000*	*2,413*	*51*	*13*	*6*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T30N R06W S32 Ty0003 4.00

Project: LILRIVAR
Acres 4.00

Page 1
Date 6/25/2003
Time 1:08:47PM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
WH		DM3S	93	5.5	13,643	12,893	52		65	35				100		32	87	0.62	148.9
WH		DM4S	7		870	870	3	100				34	66			21	18	0.24	47.7
WH	**Totals**		35	5.2	14,513	13,763	55	6	60	33		2	4	94		29	70	0.55	196.6
DF		DM2S	16	3.9	3,841	3,690	15			100				100		32	190	1.48	19.4
DF		DM3S	76	2.6	17,531	17,077	68		96	4			3	97		32	81	0.64	210.0
DF		DM4S	8	14.3	2,115	1,813	7	100				23	77			24	19	0.25	95.4
DF	**Totals**		57	3.9	23,487	22,581	90	8	73	19		2	8	90		29	70	0.60	324.8
RC		DM3S	92	3.9	3,403	3,270	13		100				30	70		31	61	0.62	53.4
RC		DM4S	7		264	264	1	100					100			30	20	0.22	13.2
RC	**Totals**		9	3.6	3,667	3,535	14	7	93				35	65		31	53	0.55	66.7
Totals				4.3	41,667	39,878	160	7	70	22		2	9	89		30	68	0.58	588.0

TC PSTATS

PROJECT STATISTICS
PROJECT

DATE 6/25/2003

								CuFt	BdFt
30N	06	32	UNIT 3	0003	4.00	3	23		

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	3	23	7.7		
CRUISE	3	23	7.7	1,159	2.0
DBH COUNT					
REFOREST COUNT					
BLANKS					
100 %					

STAND SUMMARY

	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 FIR	13	150.0	14.6	77	46	173.3	23,487	22,581	5,763	5,747
WHEMLOCK	7	94.1	13.5	73	19	93.3	14,513	13,763	3,180	3,177
WR CEDAR	3	45.6	12.7	65		40.0	3,667	3,535	1,105	1,109
TOTAL	*23*	*289.7*	*13.9*	*74*		*306.7*	*41,667*	*39,878*	*10,048*	*10,033*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	119.6	24.9	83	111	139			
WHEMLOCK	177.4	37.0	33	52	71			
WR CEDAR	316.1	65.9	5	13	22			
TOTAL	*60.1*	*12.5*	*154*	*177*	*199*	*145*	*36*	*16*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	115.4	24.1	21	28	34			
WHEMLOCK	173.3	36.1	8	12	16			
WR CEDAR	302.5	63.1	2	4	7			
TOTAL	*54.8*	*11.4*	*39*	*44*	*49*	*120*	*30*	*13*

SD: 1	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	50.6	29.2	106	150	194			
WHEMLOCK	58.3	33.6	62	94	126			
WR CEDAR	173.2	100.0		46	91			
TOTAL	*34.2*	*19.7*	*233*	*290*	*347*	*47*	*12*	*5*

SD: 1	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	74.2	42.8	99	173	248			
WHEMLOCK	49.5	28.6	67	93	120			
WR CEDAR	173.2	100.0		40	80			
TOTAL	*49.4*	*28.5*	*219*	*307*	*394*	*98*	*24*	*11*

SD: 1	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	87.6	50.6	11,163	22,581	33,999			
WHEMLOCK	36.9	21.3	10,828	13,763	16,697			
WR CEDAR	173.2	100.0	0	3,535	7,069			
TOTAL	*52.0*	*30.0*	*27,903*	*39,878*	*51,854*	*108*	*27*	*12*

SD: 1	COEFF VAR.%	S.E.%	NET CUFT FT/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	83.9	48.5	2,963	5,747	8,532			
WHEMLOCK	41.5	23.9	2,416	3,177	3,938			
WR CEDAR	173.2	100.0	0	1,109	2,217			
TOTAL	*53.8*	*31.1*	*6,915*	*10,033*	*13,150*	*116*	*29*	*13*

PROJECT STATISTICS
PROJECT

								CuFt	BdFt
30N	06	32	UNIT 3	0003	4.00	3	23		

TC PSTATS

PROJECT STATISTICS
PROJECT

DATE 6/25/2003

								CuFt	BdFt
30N	06	32	UNIT 4	0004	3.40	2	10		

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	2	10	5.0		
CRUISE	2	10	5.0	547	1.8
DBH COUNT					
REFOREST COUNT					
BLANKS					
100 %					

STAND SUMMARY

	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 FIR	8	69.3	18.9	81	32	134.4	17,853	17,534	4,596	4,589
WHEMLOCK	2	91.6	8.2	54	8	33.6	2,749	2,749	650	650
TOTAL	*10*	*160.9*	*13.8*	*65*		*168.1*	*20,603*	*20,283*	*5,246*	*5,239*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	66.4	21.0	181	229	277			
WHEMLOCK	210.8	66.7	2	6	10			
TOTAL	*60.5*	*19.1*	*190*	*235*	*280*	*146*	*37*	*16*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	65.2	20.6	48	60	72			
WHEMLOCK	210.8	66.7	0	1	2			
TOTAL	*59.8*	*18.9*	*50*	*61*	*73*	*143*	*36*	*16*

SD: 1	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	76.6	54.2	32	69	107			
WHEMLOCK	141.4	100.0	0	92	183			
TOTAL	*47.6*	*33.6*	*107*	*161*	*215*	*91*	*23*	*10*

SD: 1	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	70.7	50.0	67	134	202			
WHEMLOCK	141.4	100.0		34	67			
TOTAL	*28.3*	*20.0*	*134*	*168*	*202*	*32*	*8*	*4*

SD: 1	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	56.9	40.2	10,480	17,534	24,588			
WHEMLOCK	141.4	100.0		2,749	5,499			
TOTAL	*30.0*	*21.2*	*15,979*	*20,283*	*24,588*	*36*	*9*	*4*

SD: 1	COEFF VAR.%	S.E.%	NET CUFT FT/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	61.3	43.4	2,600	4,589	6,579			
WHEMLOCK	141.4	100.0		650	1,300			
TOTAL	*36.2*	*25.6*	*3,899*	*5,239*	*6,579*	*52*	*13*	*6*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T30N R06W S32 Ty0004 3.40

Project: LILRIVAR
Acres 3.40

Page 1
Date 6/25/2003
Time 1:15:03PM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
DF		DM2S	57	1.6	10,305	10,145	34			100				100		32	196	1.64	51.9
DF		DM3S	35	2.6	6,154	5,995	20		100				4	96		31	80	0.66	74.6
DF		DM4S	8		1,394	1,394	5	58	42			28	72			20	25	0.29	56.2
DF	**Totals**		86	1.8	17,853	17,534	60	5	38	58		2	7	91		28	96	0.90	182.7
WH		DM4S	100		2,749	2,749	9		100				100			26	30	0.27	91.6
WH	**Totals**		14		2,749	2,749	9		100				100			26	30	0.27	91.6
Totals				1.5	20,603	20,283	69	4	46	50		2	20	79		27	74	0.70	274.3

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T30N R06W S31 Ty0002 .80

Project: LILRIVAR
Acres 0.80

Page 1
Date 6/25/2003
Time 1:07:08PM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
WH		DM3S	63		7,105	7,105	6		100					100		32	70	0.50	102.0
WH		DM4S	37		4,023	4,023	3	100				32		68		22	21	0.24	192.5
WH	**Totals**		56		11,127	11,127	9	36	64			12		88		25	38	0.36	294.5
DF		DM3S	80	5.5	7,465	7,052	6	25	75					100		32	52	0.50	136.8
DF		DM4S	19		1,698	1,698	1	100						100		23	21	0.28	80.0
DF	**Totals**		44	4.5	9,163	8,750	7	40	60					100		29	40	0.44	216.8
Totals				2.0	20,290	19,877	16	38	62			7		93		27	39	0.39	511.3

TC PSTATS

PROJECT STATISTICS
PROJECT

DATE 6/25/2003

								CuFt	BdFt
30N	06	31	UNIT 2	0002	0.80	2	11		

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	2	11	5.5		
CRUISE	1	7	7.0	254	2.8
DBH COUNT					
REFOREST COUNT	1	4	4.0		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
WHEMLOCK	3	192.5	10.7	48	27	120.0	11,127	11,127	2,641	2,668
DOUG FIR	4	125.0	12.1	63	28	100.0	9,163	8,750	2,728	2,720
TOTAL	*7*	*317.5*	*11.3*	*54*		*220.0*	*20,290*	*19,877*	*5,369*	*5,388*

	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK	159.8	60.4	13	33	53			
DOUG FIR	113.1	42.8	29	50	71			
TOTAL	*55.6*	*21.0*	*65*	*83*	*100*	*124*	*31*	*14*

	COEFF		SAMPLE TREES - CF			# OF TREES REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK	169.6	64.1	3	8	14			
DOUG FIR	112.3	42.4	9	16	22			
TOTAL	*59.6*	*22.5*	*18*	*24*	*29*	*142*	*36*	*16*

	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK			193	193	193			
DOUG FIR	84.9	60.0	50	125	200			
TOTAL	*33.4*	*23.6*	*243*	*318*	*393*	*45*	*11*	*5*

	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK			120	120	120			
DOUG FIR	84.9	60.0	40	100	160			
TOTAL	*38.6*	*27.3*	*160*	*220*	*280*	*60*	*15*	*7*

	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK			11,127	11,127	11,127			
DOUG FIR	84.9	60.0	3,500	8,750	14,000			
TOTAL	*37.4*	*26.4*	*14,627*	*19,877*	*25,127*	*56*	*14*	*6*

	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK			2,668	2,668	2,668			
DOUG FIR	84.9	60.0	1,088	2,720	4,352			
TOTAL	*42.8*	*30.3*	*3,756*	*5,388*	*7,020*	*73*	*18*	*8*