Cruise Narrative

Sale Name:	Impulse	**Region:**	Pacific Cascade
App. #:	76367	**District:**	St. Helens
Lead cruiser:	M. Kirner	**Completion date:**	07/05/04
Other cruisers on sale:	D. Duncan		

it acreage specifications:

Unit #	Cruised acres	Cruised acres agree with sale acres? Yes/No	If acres do not agree explain why.
1	77.1	Yes	
Total	77.1		

it 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	V.P.	54.45 F	4.5'	440 x 220	1 to 1	35

le/Cruise Description:

Minor species cruise intensity:	Cruised on appropriate plots.					
Minimum cruise spec:	40% of 16' D.O.B. and 5" top.					
Avg ring count by sp:	**DF** =	10 R.P.I.	**WH** =		**SS** =	
Leave/take tree description:	Scattered blue leave trees, and leave islands.					
Other conditions	None.					

eld observations:

While sampling the stand, it appeared that the number of poles were minimal. There were however 16" and smaller diameter trees with tight grain Of high quality, scattered.

Grants: 01____ 03____ _____ _____ _____

Prepared by: M. Kirner

Title: Forest Cruiser

CC:

TC PSPCTLTCM

Species Summary - Trees, Logs, Tons, CCF, MBF

T10N R02W S7W TyU1 77.1

Project **IMPULSE**
Acres **77.10**

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Species	S T	Total Trees	Total Logs	Total Tons	Net Cubic Ft/ Tree	Net Cubic Ft/ Log	CF/ LF	Total CCF Gross	Total CCF Net	Total MBF Gross	Total MBF Net
DOUG FIR		6,130	18,223	19,289	110.47	37.16	1.33	6,768	6,772	3,710	3,597
R ALDER		1,831	3,702	1,654	32.95	16.30	0.63	601	603	242	221
BL MAPLE		228	570	403	66.98	26.77	1.12	152	153	60	45
WR CEDAR		153	305	61	17.00	8.50	0.43	26	26	9	9
Totals		8,342	22,801	21,408	90.56	33.13	1.21	7,548	7,554	4,021	3,872

Wood Type Species	Total Trees	Total Logs	Total Tons	Net Cubic Ft/ Tree	Net Cubic Ft/ Log	CF/ LF	Total CCF Gross	Total CCF Net	Total MBF Gross	Total MBF Net
C	6,283	18,528	19,350	108.20	36.69	1.32	6,794	6,798	3,719	3,606
H	2,059	4,273	2,057	36.72	17.69	0.69	754	756	302	266
Totals	8,342	22,801	21,408	90.56	33.13	1.21	7,548	7,554	4,021	3,872

TC PSTATS

PROJECT STATISTICS

PROJECT IMPULSE

DATE 7/15/2004

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10N	02W	7W	IMPULSE	U1	77.10	35	141	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	35	141	4.0		
CRUISE	19	80	4.2	8,342	1.0
DBH COUNT					
REFOREST					
COUNT	15	61	4.1		
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	64	79.5	20.7	93	43	186.7	48,119	46,652	8,778	8,783
R ALDER	12	23.7	13.9	65		24.9	3,141	2,866	780	783
BL MAPLE	3	3.0	19.6	68		6.2	774	580	197	198
WR CEDAR	1	2.0	12.0	49		1.6	119	119	34	34
TOTAL	*80*	*108.2*	*19.3*	*85*		*219.4*	*52,152*	*50,216*	*9,790*	*9,798*

			SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	7	8	9
DOUG FIR	114.9	12.8	963	1,104	1,246			
R ALDER	279.7	31.3	15	22	29			
BL MAPLE	557.3	62.3	3	8	14			
WR CEDAR	894.4	100.0		1	2			
TOTAL	*109.4*	*12.2*	*997*	*1,136*	*1,275*	*244*	*187*	*148*

			SAMPLE TREES - CF			# OF TREES REQ.		INF. POP.
SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	7	8	9
DOUG FIR	105.9	11.8	173	197	220			
R ALDER	277.3	31.0	4	6	8			
BL MAPLE	551.6	61.7	1	3	5			
WR CEDAR	894.4	100.0		0	0			
TOTAL	*97.4*	*10.9*	*183*	*206*	*228*	*194*	*148*	*117*

			TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	7	8	9
DOUG FIR	91.4	15.5	67	80	92			
R ALDER	239.6	40.5	14	24	33			
BL MAPLE	362.1	61.2	1	3	5			
WR CEDAR	591.6	100.0		2	4			
TOTAL	*79.8*	*13.5*	*94*	*108*	*123*	*130*	*99*	*79*

			BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	7	8	9
DOUG FIR	66.8	11.3	166	187	208			
R ALDER	207.8	35.1	16	25	34			
BL MAPLE	353.3	59.7	3	6	10			
WR CEDAR	591.6	100.0		2	3			
TOTAL	*53.3*	*9.0*	*200*	*219*	*239*	*58*	*44*	*35*

			NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	7	8	9
DOUG FIR	69.6	11.8	41,162	46,652	52,142			
R ALDER	202.9	34.3	1,883	2,866	3,848			
BL MAPLE	376.0	63.6	211	580	948			
WR CEDAR	591.6	100.0		119	238			
TOTAL	*60.9*	*10.3*	*45,046*	*50,216*	*55,387*	*76*	*58*	*46*

TC PSTATS

PROJECT STATISTICS

PROJECT IMPULSE

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10N	02W	7W	IMPULSE	U1	77.10	35	141	S	W

	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.	S.E.%	LOW	AVG	HIGH	7	8	9

	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.	S.E.%	LOW	AVG	HIGH	7	8	9
DOUG FIR	68.0	11.5	7,773	8,783	9,793			
R ALDER	202.1	34.2	515	783	1,050			
BL MAPLE	365.2	61.7	76	198	320			
WR CEDAR	591.6	100.0	0	34	67			
TOTAL	*56.3*	*9.5*	*8,865*	*9,798*	*10,730*	*65*	*50*	*39*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T10N R02W S7W TyU1 77.10

Project: **IMPULSE**

Acres **77.10**

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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		DM3P		10.2	425	382	29				100			100		32	1320	7.84	.3
DF		DMSM	1		354	354	27			100				100		32	320	1.90	1.1
DF		DM2S	78	2.8	37,322	36,264	2,796		0	22	77			100		32	465	2.54	77.9
DF		DM3S	18	2.4	8,788	8,575	661	3	70	22	5	4	8	89		29	79	0.64	108.6
DF		DM4S	3	12.3	1,229	1,078	83	67	33			13	51	35		20	22	0.30	48.5
DF	**Totals**		93	3.0	48,119	46,652	3,597	2	14	22	62	1	3	96		28	197	1.32	236.4
BM		DM2S	27	29.7	225	158	12				100			100		32	260	2.62	.6
BM		DM3S	71	22.3	531	413	32		69	31				100		32	93	0.97	4.4
BM		DM4S	2	50.0	17	9	1		100			100				7	4	0.58	2.3
BM	**Totals**		1	25.1	774	580	45		50	22	27	1		99		24	78	1.11	7.4
RA		DM2S	13	14.5	452	387	30			100				100		32	178	1.48	2.2
RA		DM3S	42	7.6	1,309	1,209	93		100					100		32	103	0.83	11.7
RA		DM4S	45	8.0	1,380	1,270	98	28	72			9	12	79		25	37	0.43	34.1
RA	**Totals**		6	8.8	3,141	2,866	221	13	74	13		4	5	91		27	60	0.60	48.0
RC		DM4S	100		119	119	9	17	83			17		83		20	30	0.43	4.0
RC	**Totals**		0		119	119	9	17	83			17		83		20	30	0.43	4.0
Totals				3.7	52,152	50,216	3,872	3	18	21	58	1	3	96		28	170	1.19	295.7