Cruise Narrative

Sale Name:	WANDERING HARDWOOD	**Region:**	NORTHWEST
App. #:	74768	**District:**	CASCADE
Lead cruiser:	JIM PAST	**Completion date:**	9/25/03
Other cruisers on sale:	PHIL KIRNER		

Unit acreage specifications:

Unit #	Cruised acres	Cruised acres agree with sale acres? Yes/No	If acres do not agree explain why.
1-A	38.6	YES	
1-B	1.4	YES	
1-C	1.8	YES	
1-D	31.8	NO	1.2 ACRE R/W WAS ADDED TO UNIT D
Total	73.6	YES	

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-A	VP	46.95 F	4.5	300X200	1:1	29
1-B	VP	46.95	4.5	100'	CRUISE ALL	3
1-C	VP	54.45	4.5	200X200	CRUISE ALL	2
1-D	VP	46.95	4.5	300X200	1:1	23

Sale/Cruise Description:

Minor species cruise intensity:	VP CRUISED ALL MINOR SPECIES ON ALL GRADE PLOTS					
Minimum cruise spec:	MINIMUM DBH = 8 INCHES. MINIMUM TOP DIAMETER = 5 INCHES OR 40% OF 16'.					
Avg ring count by sp:	**DF =**	8	**WH =**	8	**SS =**	
Leave/take tree description:	TAGGED OUT LEAVE TREE AREAS HAVE BEEN DEDUCTED FROM GROSS ACREAGE. ANY BLUE PAINTED LEAVE TREES WERE IGNORED ON PLOTS AND NOT INCLUDED IN CRUISE VOLUME.					
Other conditions	MOSTLY HARDWOOD WITH SOME LARGE DOUGLAS FIR SCATTERED THROUGHOUT SALE.					

Field observations:

BE ADVISED THAT BLUE PAINT IS FADING ON LARGER DOUGLAS FIR AND IS NOT ALWAYS VISIBLE FROM PLOT CENTER. ALSO, POINTS SHOWN ON TRAVERSE MAPS DO NOT CORRESPOND WITH POINTS FOUND ON GROUND.

Grants: 01=100%____ _____ _____ _____ _____

Prepared by: JIM PAST

Title: NORTHWEST REGION FOREST CRUISER

CC:

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T33N R05E S03 TyU1
THRU
T33N R05E S03 TyUD

Project: WNDRHDWD

Acres 73.60

Page 1
Date 10/6/2003
Time 7:50:52AM

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	22	4.7	6,252	5,957	438			44	56			100		32	314	1.96	19.0
DF		DM3S	10	4.8	2,717	2,587	190	2	67	31		0	13	87		31	84	0.68	30.6
DF		DM4S	4	21.0	1,224	967	71	63	37			5	55	39		15	15	0.30	63.7
DF	**Totals**		35	6.7	10,193	9,511	700	7	22	36	35	1	9	90		22	84	0.84	113.3
RC		DM2S	1		154	154	11			100				100		32	160	1.48	1.0
RC		DM3S	6	3.8	1,728	1,662	122	8	85	7		2	1	97		31	64	0.73	25.8
RC		DM4S	3	26.7	1,165	854	63	75	25			32	18	50		14	12	0.33	71.3
RC	**Totals**		10	12.4	3,047	2,670	197	29	61	10		11	6	82		19	27	0.52	98.1
RA		DM2S	12	7.3	3,581	3,318	244		37	51	12			100		32	173	1.33	19.1
RA		DM3S	16	5.7	4,445	4,191	308		91	9			1	99		32	105	0.84	39.9
RA		DM4S	23	15.5	7,446	6,291	463	23	76	1		9	8	83		23	31	0.41	204.4
RA	**Totals**		51	10.8	15,472	13,800	1,016	10	71	16	3	4	4	92		25	52	0.58	263.5
BM		DM3S	0	50.0	118	59	4			100				100		32	140	2.19	.4
BM		DM4S	1	53.8	405	187	14		100					100		24	19	0.47	9.8
BM	**Totals**		1	52.9	523	246	18		76	24				100		25	24	0.56	10.2
WH		DM2S	0		91	91	7			100				100		32	190	1.34	.5
WH		DM3S	2		452	452	33		100					100		32	74	0.58	6.1
WH		DM4S	1	22.0	172	135	10	100				7	93			12	10	0.24	13.9
WH	**Totals**		3	5.3	716	678	50	20	67	13		1	18	80		18	33	0.46	20.4
Totals				10.2	29,950	26,906	1,980	11	53	22	14	4	6	90		23	53	0.62	505.5

TC PSTATS

PROJECT STATISTICS

PROJECT WNDRHDWD

DATE 10/6/2003

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
33N	05E	03	WANDERING HA	U1	THRU	73.60	57	284	S	W
33N	05E	03	WANDERING HA	UD						

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	57	284	5.0		
CRUISE	33	158	4.8	16,730	.9
DBH COUNT					
REFOREST COUNT	24	122	5.1		
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
R ALDER	73	110.4	14.0	66		117.7	15,472	13,800	3,797	3,800
DOUG FIR	48	49.1	15.3	61	16	62.6	10,193	9,511	2,140	2,138
WR CEDAR	27	54.0	12.1	43		42.9	3,047	2,670	957	957
WHEMLOCK	7	8.8	11.2	57	1	6.0	716	678	173	173
BL MAPLE	3	5.1	13.7	56		5.2	523	246	140	140
TOTAL	*158*	*227.3*	*13.7*	*59*		*234.4*	*29,950*	*26,906*	*7,206*	*7,208*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
R ALDER	191.9	15.3	62	73	84			
DOUG FIR	208.8	16.6	120	144	168			
WR CEDAR	283.1	22.5	9	12	15			
WHEMLOCK	566.0	45.0	3	6	9			
BL MAPLE	859.6	68.4	0	1	2			
TOTAL	*121.8*	*9.7*	*213*	*236*	*259*	*594*	*303*	*148*

SD: 1	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
R ALDER	75.8	10.0	99	110	121			
DOUG FIR	147.5	19.5	39	49	59			
WR CEDAR	117.4	15.6	46	54	62			
WHEMLOCK	380.4	50.4	4	9	13			
BL MAPLE	314.3	41.6	3	5	7			
TOTAL	*51.3*	*6.8*	*212*	*227*	*243*	*105*	*54*	*26*

SD: 1	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
R ALDER	66.4	8.8	107	118	128			
DOUG FIR	144.0	19.1	51	63	75			
WR CEDAR	104.2	13.8	37	43	49			
WHEMLOCK	340.3	45.1	3	6	9			
BL MAPLE	294.2	39.0	3	5	7			
TOTAL	*41.5*	*5.5*	*221*	*234*	*247*	*69*	*35*	*17*

SD: 1	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
R ALDER	71.2	9.4	12,500	13,800	15,101			
DOUG FIR	157.5	20.9	7,527	9,511	11,495			
WR CEDAR	108.4	14.4	2,287	2,670	3,054			
WHEMLOCK	355.6	47.1	359	678	997			
BL MAPLE	294.6	39.0	150	246	342			
TOTAL	*54.7*	*7.2*	*24,955*	*26,906*	*28,856*	*120*	*61*	*30*

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: WNDRHDWD

Date 10/6/2003
Time 7:44:43AM

T33N R05E S03 TU1

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
33N	05E	03	WANDERING HA	U1A	38.60	29	83	S	W

T33N R05E S03 TU1

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent 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
RA		DM	2S	23	7.9	4,053	3,734	144		39	41	20			100		32	177	1.36	21.1
RA		DM	3S	31	.6	5,013	4,983	192		100				1	99		32	105	0.80	47.2
RA		DM	4S	46	10.6	8,456	7,563	292	27	73			8	9	83		23	31	0.39	243.2
RA		**Totals**		52	7.1	17,522	16,280	628	12	74	9	5	4	4	92		25	52	0.55	311.5
DF		DM	2S	66	5.1	7,162	6,794	262			58	42			100		32	285	1.83	23.8
DF		DM	3S	28	7.7	3,119	2,879	111	4	70	26			7	93		32	77	0.61	37.6
DF		DM	4S	6	36.4	1,031	656	25	51	49				72	28		16	14	0.34	47.5
DF		**Totals**		33	8.7	11,313	10,328	399	4	23	45	28		7	93		25	95	0.88	108.9
RC		DM	2S	8		294	294	11			100				100		32	160	1.48	1.8
RC		DM	3S	55		2,098	2,098	81	9	91			2		98		31	59	0.62	35.8
RC		DM	4S	38	24.5	1,930	1,456	56	75	25			30	14	56		14	12	0.32	119.8
RC		**Totals**		12	10.9	4,322	3,849	149	33	59	8		13	5	82		18	24	0.46	157.4
BM		DM	4S	00	55.6	557	247	10		100					100		26	20	0.44	12.4
BM		**Totals**		1	55.6	557	247	10		100					100		26	20	0.44	12.4
WH		DM	2S	35		174	174	7			100				100		32	190	1.34	.9
WH		DM	3S	48	.0	236	236	9		100					100		32	70	0.54	3.4
WH		DM	4S	17		83	83	3	100				11	89			13	14	0.24	5.8
WH		**Totals**		2		493	493	19	17	48	35		2	15	83		21	49	0.54	10.1
Type Totals					8.8	34,206	31,197	1,204	12	55	21	12	4	5	91		23	52	0.60	600.4

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: WNDRHDWD

Date 10/6/2003
Time 7:45:44AM

T33N R05E S03 TUB

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
33N	05E	03	WANDERING HA	UB	1.40	3	15	S	W

T33N R05E S03 TUB

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent 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
RA		DM	3S	18	16.7	1,530	1,275	2		100					100		32	100	0.88	12.8
RA		DM	4S	82	25.0	7,518	5,635	8	20	80			12	4	85		26	35	0.48	161.9
RA	**Totals**			26	23.6	9,048	6,910	10	16	84			10	3	87		26	40	0.52	174.7
DF		DM	2S	63	8.2	10,249	9,407	13			60	40			100		32	302	1.90	31.2
DF		DM	3S	33	3.4	5,178	5,002	7		100			4		96		31	96	0.69	52.0
DF		DM	4S	4		577	577	1	25	75			25	75			16	17	0.35	34.4
DF	**Totals**			56	6.4	16,004	14,986	21	1	36	37	25	2	3	95		27	127	1.01	117.6
RC		DM	3S	69		2,188	2,188	3	23	77					100		32	55	0.81	39.9
RC		DM	4S	31		997	997	1	88	12			29	71			10	9	0.28	110.7
RC	**Totals**			12	.0	3,185	3,185	4	44	56			9	22	69		15	21	0.57	150.6
WH		DM	3S	86		1,423	1,423	2		100					100		32	60	0.41	23.7
WH		DM	4S	14		237	237	0	100				100				12	10	0.20	23.7
WH	**Totals**			6		1,660	1,660	2	14	86			14		86		22	35	0.35	47.4
Type Totals					10.6	29,898	26,741	37	11	54	21	14	6	5	89		23	55	0.65	490.3

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: WNDRHDWD

Date 10/6/2003
Time 7:47:04AM

T33N R05E S03 TUC

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
33N	05E	03	WANDERING HA	UC	1.80	2	9	S	W

T33N R05E S03 TUC

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent 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		DM	2S	71		21,257	21,257	38			34	66			100		32	329	1.82	64.7
DF		DM	3S	24		7,319	7,319	13		83	17				100		32	89	0.62	82.2
DF		DM	4S	5		1,509	1,509	3	62	38			66	34			15	18	0.32	82.2
DF	**Totals**			68	.0	30,086	30,086	54	3	22	28	47	3	2	95		26	131	0.97	229.1
WH		DM	3S	95		8,874	8,874	16		100					100		32	100	0.70	88.7
WH		DM	4S	5		444	444	1	100					100			12	10	0.24	44.4
WH	**Totals**			21		9,318	9,318	17	5	95				5	95		25	70	0.63	133.1
RA		DM	2S	93		3,169	3,169	6			100				100		32	280	1.82	11.3
RA		DM	3S		100.0	1,358											32		0.88	11.3
RA		DM	4S	7		226	226	0		100			100				13	20	0.37	11.3
RA	**Totals**			8	28.6	4,754	3,396	6		7	93		7		93		26	100	1.18	34.0
RC		DM	4S	00		1,238	1,238	2	100					100			26	30	0.38	41.3
RC	**Totals**			3		1,238	1,238	2	100					100			26	30	0.38	41.3
Type Totals					3.0	45,395	44,037	79	6	36	26	32	3	5	92		26	101	0.83	437.4

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: WNDRHDWD

Date 10/6/2003
Time 7:48:34AM

T33N R05E S03 TUD **T33N R05E S03 TUD**

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
33N	05E	03	WANDERING HA	UD	31.80	23	51	S	W

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent 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
RA		DM	2S	25	6.9	3,189	2,968	94		35	65				100		32	164	1.28	18.1
RA		DM	3S	31	11.5	4,059	3,594	114		75	25				100		32	106	0.90	33.9
RA		DM	4S	44	22.7	6,625	5,120	163	16	81	3		11	6	82		23	30	0.45	170.2
RA		**Totals**		56	15.8	13,872	11,682	371	7	67	26		5	3	92		25	53	0.63	222.1
DF		DM	2S	55	4.8	4,122	3,923	125			18	82			100		32	395	2.42	9.9
DF		DM	3S	26		1,859	1,859	59		53	47			27	73		31	102	0.86	18.3
DF		DM	4S	19	9.4	1,469	1,331	42	72	28			4	46	50		15	16	0.27	83.6
DF		**Totals**		34	4.5	7,451	7,113	226	13	19	22	45	1	16	83		19	64	0.74	111.8
RC		DM	3S	93	11.3	1,356	1,203	38	4	74	22			4	96		30	82	1.05	14.7
RC		DM	4S	7	60.1	241	96	3	61	39			100				14	8	0.37	12.3
RC		**Totals**		6	18.6	1,596	1,299	41	8	72	20		7	4	89		23	48	0.86	27.0
BM		DM	3S	51	50.0	273	136	4			100				100		32	140	2.19	1.0
BM		DM	4S	49	49.2	262	133	4		100					100		21	17	0.52	7.6
BM		**Totals**		1	49.6	535	269	9		49	51				100		22	31	0.80	8.6
WH		DM	3S	53		195	195	6		100					100		32	50	0.49	3.9
WH		DM	4S	47	33.3	263	175	6	100					100			12	8	0.24	21.4
WH		**Totals**		2	19.1	458	370	12	47	53				47	53		15	15	0.32	25.3
Type Totals					13.3	23,912	20,734	659	10	51	24	16	3	8	88		22	53	0.66	394.9

TC TSTATS

STATISTICS

PROJECT WNDRHDWD

DATE 10/6/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
33N	05E	03	WANDERING HA	U1 A	38.60	29	164	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	29	164	5.7		
CRUISE	16	83	5.2	10,406	.8
DBH COUNT					
REFOREST COUNT	13	77	5.9		
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
R ALDER	36	129.1	13.6	67		131.1	17,522	16,280	4,263	4,267
DOUG FIR	27	42.7	16.7	71	16	64.8	11,313	10,328	2,378	2,377
WR CEDAR	17	88.2	11.3	42		61.5	4,322	3,849	1,320	1,323
BL MAPLE	1	6.2	12.0	60		4.9	557	247	142	142
WHEMLOCK	2	3.4	13.3	72	1	3.2	493	493	116	116
TOTAL	*83*	*269.6*	*13.4*	*60*		*265.5*	*34,206*	*31,197*	*8,219*	*8,225*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
R ALDER	229.2	25.2	57	76	95			
DOUG FIR	191.9	21.1	116	147	178			
WR CEDAR	268.4	29.5	9	13	16			
BL MAPLE	911.0	100.0		0	1			
WHEMLOCK	706.1	77.5	1	4	8			
TOTAL	*118.7*	*13.0*	*209*	*240*	*272*	*564*	*288*	*141*

SD: 1	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
R ALDER	66.9	12.4	113	129	145			
DOUG FIR	129.3	24.0	32	43	53			
WR CEDAR	75.6	14.0	76	88	101			
BL MAPLE	299.6	55.6	3	6	10			
WHEMLOCK	538.5	100.0		3	7			
TOTAL	*35.8*	*6.6*	*252*	*270*	*288*	*51*	*26*	*13*

SD: 1	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
R ALDER	60.0	11.2	117	131	146			
DOUG FIR	140.3	26.0	48	65	82			
WR CEDAR	73.8	13.7	53	62	70			
BL MAPLE	299.6	55.6	2	5	8			
WHEMLOCK	538.5	100.0	0	3	6			
TOTAL	*28.5*	*5.3*	*251*	*266*	*280*	*32*	*17*	*8*

SD: 1	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
R ALDER	60.1	11.2	14,463	16,280	18,098			
DOUG FIR	157.7	29.3	7,303	10,328	13,353			
WR CEDAR	78.0	14.5	3,291	3,849	4,406			
BL MAPLE	299.6	55.6	110	247	385			
WHEMLOCK	538.5	100.0	0	493	985			
TOTAL	*43.3*	*8.0*	*28,688*	*31,197*	*33,707*	*75*	*38*	*19*

TC TSTATS

STATISTICS

PROJECT WNDRHDWD

DATE 10/6/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
33N	05E	03	WANDERING HA	UB	1.40	3	15	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	3	15	5.0		
CRUISE	3	15	5.0	304	4.9
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
R ALDER	5	81.0	13.3	63		78.3	9,048	6,910	2,344	2,354
DOUG FIR	5	37.4	19.6	89	18	78.3	16,004	14,986	3,207	3,201
WR CEDAR	4	75.3	12.3	41		62.6	3,185	3,185	1,331	1,322
WHEMLOCK	1	23.7	11.0	52	3	15.7	1,660	1,660	366	366
TOTAL	*15*	*217.4*	*14.1*	*59*		*234.8*	*29,898*	*26,741*	*7,248*	*7,243*

	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
R ALDER	153.7	39.7	18	31	43			
DOUG FIR	169.2	43.7	97	173	248			
WR CEDAR	237.8	61.4	7	18	29			
WHEMLOCK	387.3	100.0	0	5	9			
TOTAL	*115.7*	*29.9*	*159*	*226*	*293*	*535*	*273*	*134*

	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
R ALDER	108.9	62.8	30	81	132			
DOUG FIR	173.2	100.0	0	37	75			
WR CEDAR	104.6	60.4	30	75	121			
WHEMLOCK	173.2	100.0		24	47			
TOTAL	*43.6*	*25.2*	*163*	*217*	*272*	*76*	*39*	*19*

	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
R ALDER	91.7	52.9	37	78	120			
DOUG FIR	173.2	100.0		78	157			
WR CEDAR	86.6	50.0	31	63	94			
WHEMLOCK	173.2	100.0	0	16	31			
TOTAL			*235*	*235*	*235*			

	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
R ALDER	92.3	53.3	3,229	6,910	10,591			
DOUG FIR	173.2	100.0	0	14,986	29,972			
WR CEDAR	87.5	50.5	1,576	3,185	4,795			
WHEMLOCK	173.2	100.0		1,660	3,320			
TOTAL	*59.1*	*34.1*	*17,624*	*26,741*	*35,858*	*139*	*71*	*35*

TC TSTATS

STATISTICS

PROJECT WNDRHDWD

DATE 10/6/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
33N	05E	03	WANDERING HA	UC	1.80	2	9	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	2	9	4.5		
CRUISE	2	9	4.5	322	2.8
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	5	82.2	17.4	79	33	136.1	30,086	30,086	5,797	5,797
WHEMLOCK	2	44.4	15.0	83	11	54.5	9,318	9,318	2,126	2,126
R ALDER	1	11.3	21.0	80		27.2	4,754	3,396	1,033	1,029
WR CEDAR	1	41.3	11.0	32		27.2	1,238	1,238	427	413
TOTAL	*9*	*179.2*	*15.8*	*69*		*245.0*	*45,395*	*44,037*	*9,383*	*9,364*

	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	133.4	44.5	202	363	525			
WHEMLOCK	199.6	66.5	16	47	78			
R ALDER	300.0	100.0		33	67			
WR CEDAR	300.0	100.0		3	7			
TOTAL	*95.4*	*31.8*	*305*	*447*	*589*	*364*	*186*	*91*

	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	141.4	100.0		82	164			
WHEMLOCK			44	44	44			
R ALDER	141.4	100.0		11	23			
WR CEDAR	141.4	100.0	0	41	83			
TOTAL	*23.4*	*16.6*	*150*	*179*	*209*	*22*	*11*	*5*

	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	141.4	100.0	0	136	272			
WHEMLOCK			54	54	54			
R ALDER	141.4	100.0	0	27	54			
WR CEDAR	141.4	100.0	0	27	54			
TOTAL	*47.1*	*33.3*	*163*	*245*	*327*	*89*	*45*	*22*

	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	141.4	100.0	0	30,086	60,171			
WHEMLOCK	13.5	9.5	8,430	9,318	10,205			
R ALDER	141.4	100.0	0	3,396	6,791			
WR CEDAR	141.4	100.0		1,238	2,475			
TOTAL	*84.6*	*59.8*	*17,697*	*44,037*	*70,376*	*286*	*146*	*72*

TC TSTATS

STATISTICS

PROJECT WNDRHDWD

DATE 10/6/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
33N	05E	03	WANDERING HA	UD	31.80	23	96	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	23	96	4.2		
CRUISE	12	51	4.3	5,697	.9
DBH COUNT					
REFOREST COUNT	11	45	4.1		
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
R ALDER	31	94.5	14.5	64		108.2	13,872	11,682	3,451	3,453
DOUG FIR	11	55.4	13.5	49	15	55.1	7,451	7,113	1,597	1,595
WR CEDAR	5	12.3	17.4	54		20.4	1,596	1,299	530	528
BL MAPLE	2	4.3	16.2	49		6.1	535	269	151	151
WHEMLOCK	2	12.7	9.4	47	1	6.1	458	370	123	123
TOTAL	*51*	*179.2*	*14.2*	*57*		*196.0*	*23,912*	*20,734*	*5,852*	*5,849*

	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
R ALDER	106.2	14.9	74	87	100			
DOUG FIR	308.0	43.1	52	92	132			
WR CEDAR	320.1	44.8	6	11	16			
BL MAPLE	574.6	80.5	1	4	6			
WHEMLOCK	545.6	76.4	0	1	2			
TOTAL	*134.1*	*18.8*	*159*	*195*	*232*	*719*	*367*	*180*

	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
R ALDER	69.8	14.6	81	94	108			
DOUG FIR	155.8	32.5	37	55	73			
WR CEDAR	151.8	31.7	8	12	16			
BL MAPLE	292.7	61.0	2	4	7			
WHEMLOCK	350.9	73.2	3	13	22			
TOTAL	*59.9*	*12.5*	*157*	*179*	*202*	*144*	*73*	*36*

	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
R ALDER	59.1	12.3	95	108	122			
DOUG FIR	153.4	32.0	37	55	73			
WR CEDAR	152.3	31.8	14	20	27			
BL MAPLE	264.0	55.0	3	6	9			
WHEMLOCK	350.9	73.2	2	6	11			
TOTAL	*47.7*	*10.0*	*176*	*196*	*215*	*91*	*46*	*23*

	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
R ALDER	68.0	14.2	10,027	11,682	13,338			
DOUG FIR	157.8	32.9	4,773	7,113	9,453			
WR CEDAR	151.7	31.6	888	1,299	1,709			
BL MAPLE	264.0	55.1	121	269	418			
WHEMLOCK	350.9	73.2	99	370	641			
TOTAL	*58.7*	*12.2*	*18,195*	*20,734*	*23,272*	*138*	*70*	*34*

TC TSTNDSUM

Stand Table Summary

Project WNDRHDW

T33N R05E S03 TU1

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33N	05E	03	WANDERING HA	U1	38.60	29	83

T33N R05E S03 TU1
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Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
RA		9	1	86	72	8.245	3.64	16.49	6.1	25.0	2.73	101	412	105	39	16
RA		10	1	85	74	6.679	3.64	13.36	7.3	35.0	2.67	97	468	103	37	18
RA		11	3	86	76	16.559	10.93	33.12	9.6	36.7	8.65	317	1,214	334	122	47
RA		12	4	86	73	18.552	14.57	41.74	10.1	36.7	11.63	420	1,531	449	162	59
RA		13	6	86	88	23.711	21.86	63.23	11.5	43.7	19.97	725	2,766	771	280	107
RA		14	5	85	78	17.038	18.21	37.48	15.0	54.5	15.43	563	2,045	596	217	79
RA		15	6	86	88	17.810	21.86	44.52	16.8	67.3	20.56	749	2,998	794	289	116
RA		16	4	86	93	10.435	14.57	31.31	16.4	67.5	14.07	512	2,113	543	198	82
RA		17	1	85	93	2.311	3.64	6.93	18.9	60.0	3.59	131	416	138	51	16
RA		18	2	86	87	4.123	7.29	12.37	19.1	63.3	6.48	236	783	250	91	30
RA		19	1	86	93	1.850	3.64	5.55	22.8	83.3	3.50	126	463	135	49	18
RA		23	1	85	92	1.263	3.64	3.79	34.3	70.0	3.57	130	265	138	50	10
RA		35	1	85	111	.545	3.64	1.64	97.6	493.3	4.39	160	807	169	62	31
RA		Totals	36	86	82	129.121	131.14	311.53	13.7	52.3	117.24	4,267	16,280	4,525	1,647	628
DF		9	1	87	36	5.429	2.40	5.43	6.1	30.0	.94	33	163	36	13	6
DF		10	2	87	73	8.795	4.80	21.99	5.2	26.0	3.28	115	572	127	44	22
DF		11	2	87	60	7.269	4.80	14.54	6.7	20.0	2.83	98	291	109	38	11
DF		13	1	87	81	2.602	2.40	5.20	12.6	45.0	1.83	65	234	71	25	9
DF		17	2	87	117	3.043	4.80	9.13	20.8	53.3	5.38	190	487	208	73	19
DF		19	2	86	120	2.436	4.80	7.31	25.7	85.0	5.36	188	621	207	73	24
DF		20	2	87	118	2.199	4.80	6.60	28.7	131.7	5.40	190	869	209	73	34
DF		21	1	87	113	.997	2.40	2.99	31.5	150.0	2.69	94	449	104	36	17
DF		22	1	87	120	.909	2.40	2.73	37.0	176.7	2.87	101	482	111	39	19
DF		23	3	86	118	2.494	7.20	7.48	37.9	173.3	8.08	284	1,297	312	109	50
DF		24	4	87	125	3.054	9.59	11.45	34.6	142.7	11.31	396	1,634	437	153	63
DF		25	1	87	123	.704	2.40	2.81	36.3	180.0	2.91	102	507	112	39	20
DF		26	1	87	130	.651	2.40	2.60	41.0	212.5	3.04	107	553	117	41	21
DF		28	2	86	129	1.122	4.80	4.49	46.5	246.2	5.95	209	1,105	230	81	43
DF		29	2	86	126	1.046	4.80	4.18	49.3	255.0	5.88	206	1,067	227	80	41
DF		Totals	27	87	87	42.748	64.76	108.93	21.8	94.8	67.76	2,377	10,328	2,616	918	399
RC		8	2	79	30	20.735	7.24	20.73	4.6	20.0	2.25	96	415	87	37	16
RC		9	1	79	54	8.191	3.62	16.38	4.5	15.0	1.73	73	246	67	28	9
RC		10	2	80	53	13.270	7.24	26.54	5.4	7.5	3.35	143	199	129	55	8
RC		11	3	80	56	16.451	10.86	32.90	6.9	16.7	5.30	227	548	204	88	21
RC		12	2	79	54	9.215	7.24	18.43	8.4	25.0	3.64	155	461	140	60	18
RC		13	1	80	55	3.926	3.62	7.85	10.3	35.0	1.90	81	275	74	31	11
RC		14	2	80	61	6.770	7.24	13.54	12.9	40.0	4.11	175	542	159	68	21
RC		16	3	79	60	7.775	10.86	15.55	16.5	50.0	6.01	256	778	232	99	30
RC		19	1	80	87	1.838	3.62	5.51	21.2	70.0	2.73	117	386	105	45	15
RC		Totals	17	79	50	88.172	61.52	157.45	8.4	24.4	31.01	1,323	3,849	1,197	510	149
WH		11	1	88	85	2.453	1.62	7.36	7.6	33.3	1.78	56	245	69	21	9
WH		18	1	87	96	.916	1.62	2.75	22.0	90.0	1.94	60	247	75	23	10
WH		Totals	2	88	88	3.369	3.24	10.11	11.5	48.7	3.72	116	493	143	45	19
BM		12	1	85	74	6.184	4.86	12.37	11.5	20.0	3.77	142	247	146	55	10
BM		Totals	1	85	74	6.184	4.86	12.37	11.5	20.0	3.77	142	247	146	55	10
Totals			83	84	72	269.594	265.51	600.38	13.7	52.0	223.50	8225	31,197	8,627	3,175	1,204

TC TSTNDSUM

Stand Table Summary

Project WNDRHDW

T33N R05E S03 TUB

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33N	05E	03	WANDERING HA	UB	1.40	3	15

T33N R05E S03 TUB
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Date: 10/6/2003
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Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		14	1	89	103	14.640	15.65	43.92	12.9	60.0	16.31	565	2,635	23	8	4
DF		20	2	89	114	14.347	31.30	43.04	30.5	145.0	37.46	1,313	6,241	52	18	9
DF		23	1	89	126	5.424	15.65	21.70	31.6	155.0	19.55	686	3,363	27	10	5
DF		31	1	89	109	2.986	15.65	8.96	71.0	306.7	18.09	636	2,747	25	9	4
DF		Totals	5	89	111	37.397	78.25	117.61	27.2	127.4	91.41	3,201	14,986	128	45	21
RA		11	1	85	75	23.714	15.65	47.43	9.5	30.0	12.31	451	1,423	17	6	2
RA		12	1	84	70	19.926	15.65	39.85	11.6	40.0	12.47	461	1,594	17	6	2
RA		14	1	84	78	14.640	15.65	29.28	16.0	40.0	12.99	468	1,171	18	7	2
RA		15	1	85	85	12.753	15.65	38.26	13.0	40.0	13.77	497	1,530	19	7	2
RA		17	1	84	76	9.929	15.65	19.86	24.0	60.0	12.92	477	1,191	18	7	2
RA		Totals	5	84	76	80.961	78.25	174.68	13.5	39.6	64.46	2,354	6,910	90	33	10
RC		9	1	71	43	35.424	15.65	70.85	3.3	10.0	5.53	236	708	8	3	1
RC		13	2	71	53	33.957	31.30	67.91	10.1	22.5	16.37	688	1,528	23	10	2
RC		22	1	71	59	5.928	15.65	11.86	33.6	80.0	9.37	399	949	13	6	1
RC		Totals	4	71	49	75.310	62.60	150.62	8.8	21.1	31.27	1,322	3,185	44	19	4
WH		11	1	90	62	23.714	15.65	47.43	7.7	35.0	11.70	366	1,660	16	5	2
WH		Totals	1	90	62	23.714	15.65	47.43	7.7	35.0	11.70	366	1,660	16	5	2
Totals			15	81	71	217.381	234.75	490.34	14.8	54.5	198.86	7243	26,741	278	101	37

TC TSTNDSUM

Stand Table Summary

Project WNDRHDW

T33N R05E S03 TUC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33N	05E	03	WANDERING HA	UC	1.80	2	9

T33N R05E S03 TUC
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Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		11	1	88	63	41.253	27.23	82.51	7.6	35.0	17.90	628	2,888	32	11	5
DF		17	1	89	120	17.272	27.23	51.82	21.0	93.3	30.97	1,087	4,836	56	20	9
DF		24	2	89	140	17.332	54.45	69.33	38.2	205.0	75.41	2,646	14,212	136	48	26
DF		28	1	88	152	6.367	27.23	25.47	56.4	320.0	40.92	1,436	8,150	74	26	15
DF		Totals	5	88	98	82.224	136.13	229.12	25.3	131.3	165.21	5,797	30,086	297	104	54
WH		15	2	87	102	44.370	54.45	133.11	16.0	70.0	68.02	2,126	9,318	122	38	17
WH		Totals	2	87	102	44.370	54.45	133.11	16.0	70.0	68.02	2,126	9,318	122	38	17
RA		21	1	86	98	11.319	27.23	33.96	30.3	100.0	28.42	1,029	3,396	51	19	6
RA		Totals	1	86	98	11.319	27.23	33.96	30.3	100.0	28.42	1,029	3,396	51	19	6
RC		11	1	75	37	41.253	27.23	41.25	10.0	30.0	10.04	413	1,238	18	7	2
RC		Totals	1	75	37	41.253	27.23	41.25	10.0	30.0	10.04	413	1,238	18	7	2
Totals			9	85	85	179.166	245.03	437.44	21.4	100.7	271.68	9364	44,037	489	169	79

TC TSTNDSUM

Stand Table Summary

Project WNDRHDW

T33N R05E S03 TUD

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33N	05E	03	WANDERING HA	UD	31.80	23	51

T33N R05E S03 TUD
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Date: 10/6/2003
Time: 7:48:36AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
RA		10	1	86	80	6.399	3.49	12.80	8.5	40.0	3.00	109	512	95	35	16
RA		11	3	85	63	15.865	10.47	31.73	8.2	28.3	7.16	261	899	228	83	29
RA		12	2	86	73	8.887	6.98	17.77	11.6	42.5	5.68	206	755	181	65	24
RA		13	1	85	94	3.786	3.49	11.36	10.9	43.3	3.35	124	492	107	40	16
RA		14	5	85	73	16.323	17.45	35.91	14.2	35.5	14.04	510	1,273	446	162	40
RA		15	5	85	82	14.219	17.45	34.13	16.8	64.2	15.78	574	2,190	502	183	70
RA		16	4	86	86	9.998	13.96	25.00	18.8	71.0	12.95	471	1,775	412	150	56
RA		17	4	86	91	8.856	13.96	26.57	18.8	62.5	13.71	500	1,661	436	159	53
RA		19	4	85	81	7.090	13.96	17.73	25.6	66.0	12.51	454	1,170	398	144	37
RA		20	1	86	85	1.600	3.49	4.80	24.3	93.3	3.23	117	448	103	37	14
RA		21	1	85	93	1.451	3.49	4.35	29.2	116.7	3.50	127	508	111	40	16
RA		Totals	31	85	78	94.475	108.19	222.14	15.5	52.6	94.90	3,453	11,682	3,018	1,098	371
DF		8	1	86	47	14.354	5.01	28.71	2.6	15.0	2.15	75	431	68	24	14
DF		9	1	87	59	11.341	5.01	22.68	3.9	15.0	2.51	88	340	80	28	11
DF		10	1	86	34	9.187	5.01	9.19	7.0	20.0	1.89	64	184	60	20	6
DF		12	1	86	48	6.380	5.01	12.76	6.9	25.0	2.49	87	319	79	28	10
DF		14	1	86	59	4.687	5.01	9.37	11.7	35.0	3.14	109	328	100	35	10
DF		18	1	87	90	2.835	5.01	8.51	18.2	73.3	4.41	155	624	140	49	20
DF		22	1	86	106	1.898	5.01	5.69	32.2	140.0	5.23	183	797	166	58	25
DF		24	1	86	113	1.595	5.01	4.78	40.5	183.3	5.51	194	877	175	62	28
DF		26	1	87	116	1.359	5.01	4.08	50.5	230.0	5.87	206	938	187	65	30
DF		32	1	86	120	.897	5.01	2.69	77.4	406.7	5.94	208	1,094	189	66	35
DF		33	1	87	132	.844	5.01	3.37	66.4	350.0	6.38	224	1,181	203	71	38
DF		Totals	11	86	59	55.376	55.12	111.84	14.3	63.6	45.52	1,595	7,113	1,447	507	226
RC		16	2	80	56	5.848	8.17	11.70	15.4	40.0	4.23	180	468	135	57	15
RC		18	2	75	80	4.621	8.17	11.55	21.2	46.0	5.79	245	531	184	78	17
RC		20	1	85	61	1.871	4.08	3.74	27.4	80.0	2.43	103	299	77	33	10
RC		Totals	5	79	66	12.340	20.41	26.99	19.6	48.1	12.45	528	1,299	396	168	41
WH		8	1	81	57	8.772	3.06	17.54	3.5	10.0	1.98	61	175	63	20	6
WH		12	1	81	53	3.899	3.06	7.80	7.9	25.0	1.96	61	195	62	19	6
WH		Totals	2	81	56	12.670	6.12	25.34	4.8	14.6	3.94	123	370	125	39	12
BM		13	1	83	58	3.322	3.06	6.64	10.5	20.0	1.85	70	133	59	22	4
BM		24	1	86	64	.975	3.06	1.95	41.5	70.0	2.15	81	136	68	26	4
BM		Totals	2	84	59	4.297	6.12	8.59	17.5	31.3	4.01	151	269	127	48	9
Totals			51	85	69	179.158	195.97	394.90	14.8	52.5	160.81	5849	20,734	5,114	1,860	659