PRE-CRUISE NARRATIVE

Sale Name:	West Haystack	**Region:**	Northwest
App. #:	30-074732	**District:**	Cascade
Contact forester:	C. Ohlson-Kiehn	**Phone/ location:**	360-856-3500 Sedro-Woolley
Alternate contact:	J. Guthrie	**Phone/ location:**	360-856-3500 Sedro-Woolley

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit #	Legal Descr. Sec/Twp/Rng	Grant	Gross acres	Net acres	Method of acreage determination (compass chain traverse, photo, declination used, etc)	Error of closure
1	32 / 35N / R6E	01	27.4	22.1	GPS	N/A
2	32 / 35N / R6E 4 &5 / 34N / R6E	01	57.7	54.8	GPS and hand traverse	N/A
3	4 / 34N / R6E	01	60.8	57.1	GPS	N/A
ROW	4 / 34N / R6E	01	0.3	0.3	Hand traverse * ROW width	N/A
Total			146.1	134.2		

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest prescription: (mark leave, take, etc)	Special management areas:	Other conditions (# leave trees, etc.)
1	Regeneration harvest with blue ringed leave trees, 6 tagged out leave tree clumps	N/A	253 leave trees (219 clumped, 34 scattered)
2	Regeneration harvest with blue ringed leave trees, 10 tagged out leave tree clumps	N/A	583 leave trees (481 clumped, 102 scattered)
3	Regeneration harvest with blue ringed leave trees, 12 tagged out leave tree clumps	N/A	576 leave trees (497 clumped, 79 scattered)

OTHER PRE-CRUISE INFORMATION:

Unit #	Estimated Volume	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	1,470 mbf	Access through MR Mainline (MR-ML). See Remarks for directions to unit.	Attached traverse map
2	2,864 mbf	Access through Day Lake Mainline (DL-ML). See Remarks for directions to unit.	Attached traverse map
3	2,878 mbf	Access through Day Lake Mainline (DL-ML). See Remarks for directions to unit.	Attached traverse map
ROW	15 mbf	Between units 2 and 3	Attached traverse map
TOTAL	7,227 mbf		

REMARKS:

Driving Directions:

Heading south on Highway 9 from Sedro-Woolley, take a right onto the South Skagit Highway (0.25 miles after crossing the Skagit River). The road will loop around beneath Highway 9, heading east along the Skagit River.

To get to unit 1, go 7.5 miles east. Where Walberg road hits the highway from the north, take a right onto the gated gravel road heading south. This is the MR-ML. If you follow this road, you will eventually reach the south (uphill) side of the unit (3.7 miles). If you take a left at 1.5 miles (MR-15), you will reach the northern (downhill) portion of the unit. If you take a left at 1.9 miles (MR-19), you will reach the central portion of the unit.

To get to units 2 and 3, continue east on the South Skagit Highway past Walberg Road. The highway makes a sharp left followed by a 90 degree right turn. At 2.0 miles past the Walberg Road, take a right onto Potts Road and head south. The road will make a 90 degree left at exactly 1 mile. Follow the road for 0.1 mile, and then make a sharp right onto a gravel road. This is the Day Lake Mainline (DL-ML), which you will follow 1.4 miles to a gate (Longview Fibre). To access the northern portion of unit 3, veer right 100 feet past the gate onto a smaller road (DL-14) that heads uphill. To access unit 2 and most of unit 3, continue straight on the DL-ML another 2.9 miles and take a sharp right onto a smaller road (DL-43). Follow this road approximately 1.5 miles to the end of the existing construction. From there, follow road stakes into the unit (see attached traverse map).

General Comments:

Unit boundaries are marked with white timber sale boundary tags. GPS traverse points along these boundaries are marked with both pink and red flagging, and are numbered as shown on attached traverse maps. A summary of leave trees is available at the NW Region Office. Poles may be present in both units.

Estimated volumes above are for unit areas that <u>include</u> blue ringed leave trees, scattered throughout the units. Tagged leave tree clumps have been deducted from net acreage calculations. The majority of leave trees are in these tagged clumps. Of 253 leave trees in Unit 1, 219 are in tagged clumps, while 34 are marked individually. In Unit 2, 481 of 583 total leave trees are within tagged clumps, with 102 scattered throughout the unit. Unit 3 has 497 trees in tagged clumps and 79 trees marked individually, of 576 total leave trees.

Explanation of Gross versus Net acreage determination: (Please see attached Excel spreadsheet: "West Haystack Pre-Cruise Acreage Calculations" for additional information)

<u>Gross Acres</u>

Gross acres are a summation of all area encompassed by timber sale boundary tags regardless of existing road surface or other voids contained within the bound area.

<u>Net acres = Gross acres – existing road R/W - wetlands - windthrow - Leave tree clumps</u>

Unit 1: Gross acreage was determined by GPS. Net acreage was determined by deducting: 1) two 80-foot-wide R/Ws on the MR-15 & MR-19 roads (0.82 and 0.87 acres) and half of a third R/W on the MR-ML (0.68 acres) ; 2) one windthrow area in the western edge of the unit, just north of the MR-19 (1.29 acres); and 3) six tagged leave tree clumps (0.53, 0.18, 0.21, 0.29, 0.25, and 0.16 acres).

Unit 2: Gross acreage was determined by GPS. Net acreage was determined by deducting 10 tagged leave tree areas (0.82, 1.03, 0.1, 0.04, 0.1, 0.13, 0.24, 0.18, 0.14, and 0.18 acres)

Unit 3: Gross acreage was determined by GPS. Net acreage was determined by deducting 12 tagged leave tree areas (0.15, 0.19, 0.18, 0.25, 0.26, 1.22, 0.4, 0.23, 0.35, 0.14, 0.26, and 0.06 acres).

Right-of-Way: (Between units 2 and 3) Right-of-way area was determined by measuring the horizontal distance of road DL-43, from centerline points 34-37, and multiplying it by the minimum ROW width (60 feet). The right-of-way on Longview Fibre property will all be harvested by the time the sale is sold, and does not need to be considered in acreage or volume calculations.

Prepared by: C. Ohlson-Kiehn

Title: Starbird Pre-Sale Forester

CC:

West Haystack Pre-Cruise Acreage Calculations

	ROW	Unit 1	Unit 2	Unit 3		TOTAL
GROSS ACRES:	0.29	27.36	57.73	60.75	=	146.13
Existing Road Rights-of-Way						
MR-ML (upper road through unit 1)		0.68				
MR-15 (lower road through unit 1)		0.82				
MR-19 (middle road through unit 1)		0.87				
TOTAL ROW ACRES:		2.37	0.00	0.00		
Wetland Acres:		0.00	0.00	0.00		
Windthrow Acres:		1.29	0.00	0.00		
SUBTOTAL (for determining leave trees):		23.70	57.73	60.75		142.18
Leave Tree Areas						
clump # 1		0.53	0.82	0.15		
clump # 2		0.18	1.03	0.19		
clump # 3		0.21	0.10	0.18		
clump # 4		0.29	0.04	0.25		
clump # 5		0.25	0.10	0.26		
clump # 6		0.16	0.13	1.22		
clump # 7			0.24	0.40		
clump # 8			0.18	0.23		
clump # 9			0.14	0.35		
clump # 10			0.18	0.14		
clump # 11				0.26		
clump # 12				0.06		
TOTAL LTA ACRES:		1.62	2.95	3.68		
NET ACRES:	0.29	22.08	54.78	57.07	=	134.21

Cruise Narrative

Sale Name:	WEST HAYSTACK	**Region:**	NORTHWEST
App. #:	74732	**District:**	CASCADE
Lead cruiser:	JIM PAST	**Completion date:**	11/05/03
Other cruisers on sale:	NONE		

Unit acreage specifications:

Unit #	Cruised acres	Cruised acres agree with sale acres? Yes/No	If acres do not agree explain why.
1	22.1	YES	
2	55.1	NO	.3 ACRE R/W WAS ADDED TO UNIT 2
3	57.1	YES	
Total	134.3	NO	(.1 ACRE DIFFRENCE?)

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	62.50	4.5	400X200	1:1	14
2	VP	54.45	4.5	400X200	1:2	34
3	VP	54.45	4.5	400X200	1:2	31

Sale/Cruise Description:

Minor species cruise intensity:	VP CRUISED MINOR SPECIES WITH THE SAME INTENSITY AS MAJOR SPECIES.				
Minimum cruise spec:	MINIMUM TOP DIAMETER = 5 INCHES OR 40% OF 16 FEET MINIMUM DBH = 8 INCHES				
Avg ring count by sp:	**DF =**	6	**WH =**	8	**SS =**
Leave/take tree description:	LEAVE TREES CLUMPS HAVE BEEN DEDUCTED FROM GROSS ACRES. SCATTERED LEAVE TREES ARE MARKED WITH BLUE PAINT AND WERE NOT INCLUDED IN CRUISE.				
Other conditions					

Field observations:

Grants: 01= 100%____ _____ _____ _____ _____

Prepared by: JIM PAST

Title: NORTHWEST REGION FOREST CRUISER

CC: WALTER PARKER

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T34N R06E S04 TyU3	57.10
T35N R06E S32 TyU1	22.10
T35N R06E S32 TyU2	55.10

Project: WSTHYSTK

Acres 134.30

Page 1
Date 11/5/2003
Time 7:40:20AM

Spp	S T	So rt	Gr 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
RC		DM	3S	75	1.1	4,245	4,200	564	9	57	26	9	1	5	94		31	90	0.78	46.5
RC		DM	4S	25	1.6	1,383	1,361	183	59	41			11	24	64		14	17	0.31	81.9
RC	**Totals**			10	1.2	5,628	5,561	747	21	53	19	7	3	10	87		20	43	0.57	128.4
WH		DM	2S	50	1.4	7,745	7,640	1,026		3	70	26			100		32	200	1.23	38.2
WH		DM	3S	40	6.1	6,512	6,113	821	2	89	9			2	98		32	82	0.63	74.6
WH		DM	4S	10	5.6	1,514	1,429	192	88	12			26	30	44		15	14	0.24	101.3
WH	**Totals**			28	3.7	15,771	15,183	2,039	9	39	39	13	2	3	94		24	71	0.66	214.1
DF		DM	3P		9.3	172	156	21				100			100		32	680	3.91	.2
DF		DM	SM	7		2,276	2,276	306				100			100		32	533	2.88	4.3
DF		DM	2S	61	1.0	18,820	18,628	2,502		5	41	55			100		32	314	1.84	59.3
DF		DM	3S	27	1.3	8,356	8,244	1,107	3	79	18		0	2	98		32	90	0.65	91.5
DF		DM	4S	5	6.1	1,517	1,424	191	50	50			36	34	29		14	17	0.31	83.3
DF	**Totals**			57	1.3	31,140	30,728	4,127	3	26	29	41	2	2	96		26	129	1.01	238.5
BM		DM	2S	72		75	75	10			100				100		32	160	1.18	.5
BM		DM	4S	28	14.3	33	28	4		100					100		20	30	0.47	.9
BM	**Totals**			0	4.3	107	103	14		27	73				100		24	73	0.79	1.4
RA		DM	2S	17	4.5	403	385	52			100				100		32	210	1.50	1.8
RA		DM	3S	51		1,147	1,147	154		100					100		32	131	0.89	8.8
RA		DM	4S	32	4.9	744	707	95	17	83			2		98		18	26	0.41	26.8
RA	**Totals**			4	2.4	2,295	2,240	301	5	77	17		1		99		22	60	0.65	37.4
Totals					2.0	54,940	53,814	7,227	7	35	31	28	2	3	95		24	87	0.79	619.8

TC PSTATS

PROJECT STATISTICS

PROJECT WSTHYSTK

DATE 11/5/2003

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
34N	06E	04	WEST HAYSTAC	U3	134.30	79	433	S	W
35N	06E	32	WEST HAYSTAC	U1					
35N	06E	32	WSTHAYSTACK	U2					

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	79	433	5.5		
CRUISE	31	176	5.7	30,450	.6
DBH COUNT					
REFOREST COUNT	48	257	5.4		
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	91	75.3	18.9	89	35	147.1	31,140	30,728	6,171	6,172
WHEMLOCK	41	78.6	14.5	75	18	90.0	15,771	15,183	3,382	3,382
WR CEDAR	36	59.7	12.6	55		51.8	5,628	5,561	1,481	1,481
R ALDER	7	12.8	14.9	75		15.4	2,295	2,240	541	543
BL MAPLE	1	.5	17.0	75		.7	107	103	26	26
TOTAL	*176*	*226.7*	*15.7*	*74*		*305.0*	*54,940*	*53,814*	*11,602*	*11,604*

	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	135.2	10.2	318	354	390			
WHEMLOCK	246.2	18.6	59	73	86			
WR CEDAR	309.3	23.3	31	41	50			
R ALDER	521.7	39.3	4	7	10			
BL MAPLE	1326.6	100.0		1	3			
TOTAL	*90.2*	*6.8*	*443*	*476*	*508*	*325*	*166*	*81*

	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	92.2	10.4	67	75	83			
WHEMLOCK	108.6	12.2	69	79	88			
WR CEDAR	142.5	16.0	50	60	69			
R ALDER	282.6	31.8	9	13	17			
BL MAPLE	888.8	100.0		0	1			
TOTAL	*44.1*	*5.0*	*215*	*227*	*238*	*78*	*40*	*19*

	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	77.1	8.7	134	147	160			
WHEMLOCK	104.3	11.7	79	90	101			
WR CEDAR	140.8	15.8	44	52	60			
R ALDER	271.7	30.6	11	15	20			
BL MAPLE	888.8	100.0		1	1			
TOTAL	*30.5*	*3.4*	*295*	*305*	*316*	*37*	*19*	*9*

	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	80.1	9.0	27,958	30,728	33,498			
WHEMLOCK	106.1	11.9	13,370	15,183	16,996			
WR CEDAR	151.7	17.1	4,612	5,561	6,510			
R ALDER	277.2	31.2	1,541	2,240	2,938			
BL MAPLE	888.8	100.0		103	205			
TOTAL	*37.1*	*4.2*	*51,569*	*53,814*	*56,060*	*55*	*28*	*14*

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: WSTHYSTK

Date 11/5/2003
Time 7:21:16AM

T35N R06E S32 TU1

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
35N	06E	32	WEST HAYSTAC	U1	22.10	14	46	S	W

T35N R06E S32 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
DF		DM	3P	2	9.3	1,042	945	21				100			100		32	680	3.91	1.4
DF		DM	SM	29	.0	9,769	9,769	216				100			100		32	550	2.92	17.7
DF		DM	2S	42		14,120	14,120	312			40	60			100		32	361	1.97	39.1
DF		DM	3S	23		7,566	7,566	167	3	59	38		1		99		32	101	0.73	74.5
DF		DM	4S	4	.0	1,321	1,321	29	35	65			24	55	21		14	21	0.40	63.1
DF	**Totals**			51	.3	33,818	33,720	745	2	16	25	57	1	2	97		26	172	1.25	195.8
WH		DM	2S	47		8,899	8,899	197			53	47			100		32	313	1.90	28.4
WH		DM	3S	49	8.6	10,121	9,253	204		91	9			2	98		32	86	0.68	107.7
WH		DM	4S	4	11.2	829	736	16	84	16			70	30			13	12	0.24	60.3
WH	**Totals**			28	4.8	19,848	18,887	417	3	45	29	22	3	2	95		26	96	0.83	196.5
RC		DM	3S	89	.7	10,331	10,259	227	5	40	44	11	1	3	95		30	119	1.02	86.3
RC		DM	4S	11	9.6	1,386	1,253	28	81	19			12	67	21		14	14	0.30	87.6
RC	**Totals**			17	1.7	11,716	11,512	254	14	38	39	10	3	10	87		22	66	0.79	174.0
RA		DM	2S	87		1,559	1,559	34			100				100		32	280	1.82	5.6
RA		DM	4S	13	33.3	334	223	5		100					100		32	40	0.75	5.6
RA	**Totals**			3	5.9	1,893	1,782	39		13	87				100		32	160	1.28	11.1
BM		DM	2S	72		453	453	10			100				100		32	160	1.18	2.8
BM		DM	4S	28	14.3	198	170	4		100					100		20	30	0.47	5.7
BM	**Totals**			1	4.3	651	623	14		27	73				100		24	73	0.79	8.5
Type Totals					2.1	67,926	66,524	1,470	4	28	31	37	2	3	95		25	114	0.98	585.9

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: WSTHYSTK

Date 11/5/2003
Time 7:30:06AM

T35N R06E S32 TU2

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
35N	06E	32	WSTHAYSTACK	U2	55.10	34	64	S	W

T35N R06E S32 TU2

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	SM	1		539	539	30				100			100		32	430	2.45	1.3
DF		DM	2S	59	1.5	18,245	17,971	990		5	56	39			100		32	277	1.68	64.8
DF		DM	3S	33		9,724	9,724	536	2	87	12			1	99		32	91	0.63	107.3
DF		DM	4S	7		2,124	2,124	117	54	46			36	21	43		15	19	0.27	113.1
DF	**Totals**			58	.9	30,632	30,358	1,673	4	34	37	25	3	2	96		25	106	0.85	286.5
WH		DM	2S	55	2.5	10,146	9,890	545		6	69	24			100		32	177	1.09	55.8
WH		DM	3S	36		6,464	6,464	356	6	94				3	97		32	80	0.59	80.8
WH		DM	4S	9	9.5	1,778	1,610	89	90	10			24	22	54		14	13	0.24	126.8
WH	**Totals**			34	2.3	18,387	17,963	990	10	38	38	13	2	3	95		23	68	0.63	263.5
RC		DM	3S	72	3.3	1,073	1,037	57	26	74					100		32	56	0.54	18.6
RC		DM	4S	28		395	395	22	100					24	76		12	11	0.28	35.0
RC	**Totals**			3	2.4	1,468	1,432	79	47	53				7	93		19	27	0.43	53.6
RA		DM	2S	12	12.5	358	313	17			100				100		32	140	1.19	2.2
RA		DM	3S	46		1,136	1,136	63		100					100		32	120	0.83	9.5
RA		DM	4S	42	4.1	1,086	1,041	57	28	72			3		97		19	26	0.37	39.4
RA	**Totals**			5	3.5	2,579	2,490	137	12	76	13		1		99		22	49	0.55	51.1
Type Totals					1.6	53,066	52,243	2,879	8	38	35	19	2	2	96		24	80	0.72	654.6

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: WSTHYSTK

Date 11/5/2003
Time 7:20:40AM

T34N R06E S04 TU3

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
34N	06E	04	WEST HAYSTAC	U3	57.10	31	66	S	W

T34N R06E S04 TU3

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	SM	3		1,053	1,053	60				100			100		32	538	2.98	2.0
DF		DM	2S	70	.9	21,193	21,007	1,199		6	28	66			100		32	339	1.96	61.9
DF		DM	3S	24	3.6	7,341	7,079	404	6	76	18		0	4	95		31	86	0.66	82.7
DF		DM	4S	3	21.7	1,006	788	45	50	50			46	54			11	13	0.37	62.3
DF	**Totals**			59	2.2	30,593	29,927	1,709	3	23	24	50	1	2	96		26	143	1.13	208.8
WH		DM	2S	45		4,982	4,982	284			85	15			100		32	200	1.25	24.9
WH		DM	3S	41	11.6	5,161	4,560	260		80	20				100		32	82	0.65	55.8
WH		DM	4S	14		1,524	1,524	87	87	13			20	37	43		16	16	0.25	92.6
WH	**Totals**			22	5.2	11,667	11,066	632	12	35	47	7	3	5	92		24	64	0.62	173.3
RC		DM	3S	67	.9	4,950	4,906	280	8	66	16	9		8	92		31	85	0.72	58.1
RC		DM	4S	33	.0	2,336	2,336	133	48	52			13	16	71		15	19	0.32	124.8
RC	**Totals**			14	.6	7,285	7,242	414	21	62	11	6	4	11	85		20	40	0.51	182.9
RA		DM	3S	73		1,603	1,603	92		100					100		32	140	0.94	11.5
RA		DM	4S	27		573	573	33		100					100		16	25	0.44	22.9
RA	**Totals**			4		2,176	2,176	124		100					100		21	63	0.69	34.4
Type Totals					2.5	51,721	50,411	2,878	7	35	26	32	2	4	94		23	84	0.79	599.3

TC TSTATS

STATISTICS

PROJECT WSTHYSTK

DATE 11/5/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
35N	06E	32	WEST HAYSTAC	U1	22.10	14	79	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	14	79	5.6		
CRUISE	7	46	6.6	4,548	1.0
DBH COUNT					
REFOREST COUNT	7	33	4.7		
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	19	58.8	20.8	93	32	138.4	33,818	33,720	6,384	6,385
WHEMLOCK	9	63.2	17.3	86	19	102.7	19,848	18,887	4,264	4,262
WR CEDAR	16	75.4	15.1	60		93.8	11,716	11,512	3,027	3,023
R ALDER	1	5.6	21.0	66		13.4	1,893	1,782	457	457
BL MAPLE	1	2.8	17.0	75		4.5	651	623	159	160
TOTAL	*46*	*205.8*	*17.7*	*78*		*352.7*	*67,926*	*66,524*	*14,291*	*14,288*

	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	145.6	21.5	294	375	455			
WHEMLOCK	269.7	39.8	51	84	118			
WR CEDAR	206.2	30.4	71	103	134			
R ALDER	678.2	100.0		7	14			
BL MAPLE	678.2	100.0		5	10			
TOTAL	*82.4*	*12.1*	*504*	*573*	*643*	*271*	*138*	*68*

	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	126.4	33.8	39	59	79			
WHEMLOCK	94.3	25.2	47	63	79			
WR CEDAR	112.7	30.1	53	75	98			
R ALDER	270.2	72.2	2	6	10			
BL MAPLE	374.2	100.0		3	6			
TOTAL	*66.6*	*17.8*	*169*	*206*	*242*	*177*	*91*	*44*

	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	113.7	30.4	96	138	180			
WHEMLOCK	84.8	22.7	79	103	126			
WR CEDAR	103.8	27.7	68	94	120			
R ALDER	270.2	72.2	4	13	23			
BL MAPLE	374.2	100.0		4	9			
TOTAL	*37.8*	*10.1*	*317*	*353*	*388*	*57*	*29*	*14*

	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	118.8	31.8	23,012	33,720	44,429			
WHEMLOCK	80.4	21.5	14,827	18,887	22,948			
WR CEDAR	113.4	30.3	8,022	11,512	15,002			
R ALDER	270.2	72.2	495	1,782	3,068			
BL MAPLE	374.2	100.0		623	1,246			
TOTAL	*47.9*	*12.8*	*58,014*	*66,524*	*75,034*	*92*	*47*	*23*

TC TSTATS

STATISTICS

PROJECT WSTHYSTK

DATE 11/5/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
35N	06E	32	WSTHAYSTACK	U2	55.10	34	186	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	34	186	5.5		
CRUISE	13	64	4.9	13,132	.5
DBH COUNT					
REFOREST COUNT	21	122	5.8		
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	36	95.2	17.2	86	38	153.7	30,632	30,358	6,212	6,212
WHEMLOCK	19	101.1	13.9	72	22	107.3	18,387	17,963	3,910	3,909
WR CEDAR	4	25.0	11.4	51		17.6	1,468	1,432	441	441
R ALDER	5	17.0	13.8	75		17.6	2,579	2,490	614	615
TOTAL	*64*	*238.3*	*15.1*	*76*		*296.3*	*53,066*	*52,243*	*11,176*	*11,178*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	124.0	15.5	243	288	333			
WHEMLOCK	215.6	26.9	65	89	112			
WR CEDAR	466.8	58.3	2	5	7			
R ALDER	352.7	44.1	7	12	17			
TOTAL	*81.1*	*10.1*	*353*	*393*	*433*	*263*	*134*	*66*

SD: 1	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	88.8	15.2	81	95	110			
WHEMLOCK	108.4	18.6	82	101	120			
WR CEDAR	169.0	29.0	18	25	32			
R ALDER	244.0	41.8	10	17	24			
TOTAL	*42.8*	*7.3*	*221*	*238*	*256*	*73*	*37*	*18*

SD: 1	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	77.2	13.2	133	154	174			
WHEMLOCK	110.7	19.0	87	107	128			
WR CEDAR	165.3	28.4	13	18	23			
R ALDER	237.2	40.7	10	18	25			
TOTAL	*32.7*	*5.6*	*280*	*296*	*313*	*43*	*22*	*11*

SD: 1	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	77.0	13.2	26,349	30,358	34,368			
WHEMLOCK	115.2	19.8	14,413	17,963	21,513			
WR CEDAR	171.9	29.5	1,010	1,432	1,854			
R ALDER	240.9	41.3	1,461	2,490	3,518			
TOTAL	*35.3*	*6.1*	*49,079*	*52,243*	*55,407*	*50*	*25*	*12*

TC TSTATS

STATISTICS

PROJECT WSTHYSTK

DATE 11/5/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
34N	06E	04	WEST HAYSTAC	U3	57.10	31	168	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	31	168	5.4		
CRUISE	11	66	6.0	12,770	.5
DBH COUNT					
REFOREST COUNT	20	102	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
DOUG FIR	36	62.4	20.6	91	33	144.0	30,593	29,927	6,050	6,050
WHEMLOCK	13	62.8	14.1	76	14	68.5	11,667	11,066	2,531	2,533
WR CEDAR	16	87.0	12.0	54		68.5	7,285	7,242	1,887	1,887
R ALDER	1	11.5	15.0	75		14.1	2,176	2,176	503	506
TOTAL	*66*	*223.6*	*15.6*	*72*		*295.1*	*51,721*	*50,411*	*10,971*	*10,976*

SD: 1	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	131.2	16.2	338	403	469			
WHEMLOCK	241.3	29.7	34	49	63			
WR CEDAR	260.5	32.1	22	33	43			
R ALDER	812.4	100.0		3	6			
TOTAL	*98.1*	*12.1*	*429*	*488*	*547*	*385*	*196*	*96*

SD: 1	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	78.1	14.0	54	62	71			
WHEMLOCK	103.2	18.5	51	63	74			
WR CEDAR	114.1	20.5	69	87	105			
R ALDER	315.9	56.7	5	11	18			
TOTAL	*36.1*	*6.5*	*209*	*224*	*238*	*52*	*27*	*13*

SD: 1	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	63.7	11.4	128	144	160			
WHEMLOCK	100.5	18.0	56	69	81			
WR CEDAR	112.4	20.2	55	69	82			
R ALDER	315.9	56.7	6	14	22			
TOTAL	*23.2*	*4.2*	*283*	*295*	*307*	*22*	*11*	*5*

SD: 1	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	63.4	11.4	26,519	29,927	33,335			
WHEMLOCK	99.8	17.9	9,082	11,066	13,051			
WR CEDAR	112.3	20.2	5,782	7,242	8,702			
R ALDER	315.9	56.7	941	2,176	3,410			
TOTAL	*30.0*	*5.4*	*47,697*	*50,411*	*53,124*	*36*	*18*	*9*

TC TSTNDSUM

Stand Table Summary

Project WSTHYSTK

T35N R06E S32 TU1

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
35N	06E	32	WEST HAYSTAC	U1	22.10	14	46

T35N R06E S32 TU1
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Date: 11/5/2003
Time: 7:21:17AM

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		12	2	87	83	18.548	14.57	46.37	9.1	38.0	12.00	421	1,762	265	93	39
DF		13	1	88	89	7.902	7.28	23.71	9.6	40.0	6.51	228	948	144	50	21
DF		19	1	88	124	3.699	7.28	11.10	28.9	140.0	9.15	321	1,554	202	71	34
DF		22	2	87	132	5.518	14.57	22.07	29.5	143.8	18.55	651	3,173	410	144	70
DF		23	1	88	145	2.525	7.28	10.10	35.3	185.0	10.17	357	1,868	225	79	41
DF		25	3	88	149	6.410	21.85	25.64	42.5	228.3	31.07	1,090	5,855	687	241	129
DF		27	1	88	146	1.832	7.28	7.33	50.2	280.0	10.49	368	2,052	232	81	45
DF		28	4	88	154	6.814	29.14	27.25	56.2	316.2	43.64	1,531	8,619	965	338	190
DF		30	1	88	128	1.484	7.28	5.94	54.3	290.0	9.18	322	1,721	203	71	38
DF		31	2	87	146	2.779	14.57	11.12	65.3	361.3	20.67	726	4,016	457	160	89
DF		32	1	87	146	1.304	7.28	5.22	70.9	412.5	10.53	370	2,152	233	82	48
DF		Totals	19	88	116	58.816	138.39	195.84	32.6	172.2	181.95	6,385	33,720	4,021	1,411	745
WH		13	1	87	99	12.377	11.41	37.13	11.2	50.0	13.28	415	1,857	293	92	41
WH		15	3	88	100	27.890	34.23	83.67	16.1	63.3	43.31	1,349	5,299	957	298	117
WH		17	1	88	117	7.238	11.41	21.71	22.0	83.3	15.17	477	1,809	335	105	40
WH		19	1	88	101	5.794	11.41	17.38	25.9	113.3	14.38	449	1,970	318	99	44
WH		22	1	88	124	4.322	11.41	17.29	30.2	142.5	16.69	522	2,463	369	115	54
WH		27	1	88	119	2.869	11.41	8.61	58.6	296.7	16.15	505	2,554	357	112	56
WH		28	1	87	130	2.668	11.41	10.67	51.1	275.0	17.46	546	2,935	386	121	65
WH		Totals	9	88	106	63.159	102.68	196.47	21.7	96.1	136.45	4,262	18,887	3,016	942	417
RC		8	1	80	45	16.786	5.86	33.57	2.9	15.0	2.30	98	504	51	22	11
RC		9	1	80	60	13.263	5.86	26.53	4.5	10.0	2.88	119	265	64	26	6
RC		12	1	80	74	7.460	5.86	14.92	10.2	40.0	3.59	153	597	79	34	13
RC		15	2	80	83	9.549	11.72	23.87	15.3	48.0	8.58	365	1,146	190	81	25
RC		17	3	80	68	11.152	17.58	22.30	21.2	73.3	11.10	472	1,636	245	104	36
RC		18	1	80	113	3.316	5.86	9.95	23.5	90.0	5.48	233	895	121	52	20
RC		20	2	79	99	5.371	11.72	16.11	26.1	96.7	9.87	420	1,558	218	93	34
RC		24	3	80	111	5.595	17.58	16.79	40.4	166.7	15.94	678	2,798	352	150	62
RC		25	1	80	100	1.719	5.86	5.16	40.1	160.0	4.86	207	825	107	46	18
RC		30	1	80	140	1.194	5.86	4.77	58.2	270.0	6.53	278	1,289	144	61	28
RC		Totals	16	80	73	75.405	93.75	173.97	17.4	66.2	71.12	3,023	11,512	1,572	668	254
RA		21	1	88	80	5.568	13.39	11.14	41.1	160.0	12.56	457	1,782	278	101	39
RA		Totals	1	88	80	5.568	13.39	11.14	41.1	160.0	12.56	457	1,782	278	101	39
BM		17	1	85	94	2.832	4.46	8.50	18.9	73.3	4.22	160	623	93	35	14
BM		Totals	1	85	94	2.832	4.46	8.50	18.9	73.3	4.22	160	623	93	35	14
Totals			46	85	96	205.780	352.68	585.91	24.4	113.5	406.30	14288	66,524	8,979	3,158	1,470

TC TSTNDSUM

Stand Table Summary

Project WSTHYSTK

T35N R06E S32 TU2

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
35N	06E	32	WSTHAYSTACK	U2	55.10	34	64

T35N R06E S32 TU2
Page: 1
Date: 11/5/2003
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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		9	2	87	71	19.333	8.54	38.67	4.5	22.5	5.00	176	870	276	97	48
DF		11	1	86	73	6.471	4.27	12.94	8.2	40.0	3.03	106	518	167	59	29
DF		12	1	86	99	5.437	4.27	16.31	8.0	33.3	3.71	130	544	204	72	30
DF		14	3	87	104	11.985	12.81	35.95	12.7	62.2	13.04	457	2,237	718	252	123
DF		15	1	86	106	3.480	4.27	10.44	14.0	66.7	4.17	146	696	230	81	38
DF		16	2	87	120	6.117	8.54	18.35	18.7	86.7	9.80	344	1,590	540	189	88
DF		17	2	87	114	5.419	8.54	16.26	20.5	88.3	9.47	333	1,436	522	183	79
DF		18	1	87	120	2.417	4.27	7.25	24.4	113.3	5.05	177	822	278	98	45
DF		19	4	86	133	8.676	17.08	32.53	23.2	111.3	21.48	754	3,622	1,184	415	200
DF		20	1	87	106	1.957	4.27	5.87	27.0	123.3	4.53	159	724	249	87	40
DF		21	4	87	131	7.102	17.08	28.41	26.3	126.9	21.26	746	3,604	1,172	411	199
DF		22	1	86	125	1.618	4.27	6.47	28.1	135.0	5.19	182	874	286	100	48
DF		23	1	87	146	1.480	4.27	5.92	35.5	187.5	5.99	210	1,110	330	116	61
DF		24	2	86	128	2.719	8.54	9.52	38.0	182.9	10.31	362	1,740	568	199	96
DF		25	4	87	136	5.011	17.08	18.79	41.6	217.3	22.27	781	4,084	1,227	430	225
DF		26	2	87	132	2.317	8.54	9.27	41.0	212.5	10.82	380	1,969	596	209	108
DF		28	1	87	132	.999	4.27	3.99	46.8	195.0	5.32	187	779	293	103	43
DF		29	1	87	123	.931	4.27	2.79	65.4	333.3	5.21	183	931	287	101	51
DF		30	1	86	133	.870	4.27	3.48	54.7	295.0	5.43	190	1,027	299	105	57
DF		31	1	86	141	.815	4.27	3.26	64.2	362.5	5.96	209	1,181	329	115	65
DF		Totals	36	87	107	95.153	153.74	286.48	21.7	106.0	177.04	6,212	30,358	9,755	3,423	1,673
WH		8	1	89	70	16.178	5.65	32.36	3.2	15.0	3.34	104	485	184	58	27
WH		9	2	90	66	25.566	11.29	51.13	4.6	20.0	7.63	236	1,023	420	130	56
WH		13	2	90	86	12.253	11.29	36.76	9.6	40.0	11.33	354	1,470	624	195	81
WH		15	2	90	95	9.204	11.29	27.61	14.5	68.3	12.80	400	1,887	705	220	104
WH		16	3	89	109	12.134	16.94	36.40	19.1	86.7	22.25	697	3,155	1,226	384	174
WH		17	4	90	107	14.331	22.59	42.99	21.3	98.3	29.35	917	4,228	1,617	505	233
WH		18	2	90	105	6.391	11.29	19.17	23.0	93.3	14.10	441	1,790	777	243	99
WH		23	1	90	119	1.957	5.65	5.87	43.6	223.3	8.19	256	1,311	451	141	72
WH		24	1	90	121	1.798	5.65	7.19	35.3	180.0	8.12	254	1,294	448	140	71
WH		28	1	89	119	1.321	5.65	3.96	63.2	333.3	8.01	250	1,321	441	138	73
WH		Totals	19	90	88	101.133	107.30	263.45	14.8	68.2	125.12	3,909	17,963	6,894	2,154	990
RA		11	1	86	96	5.339	3.52	16.02	8.0	33.3	3.51	128	534	193	70	29
RA		14	2	86	92	6.592	7.05	19.77	12.7	55.0	6.90	251	1,088	380	138	60
RA		15	1	85	92	2.871	3.52	8.61	13.4	56.7	3.18	115	488	175	64	27
RA		17	1	85	85	2.235	3.52	6.71	18.0	56.7	3.29	121	380	181	67	21
RA		Totals	5	86	92	17.036	17.62	51.11	12.0	48.7	16.87	615	2,490	930	339	137
RC		9	1	81	55	9.969	4.40	19.94	4.6	15.0	2.17	92	299	119	51	16
RC		11	1	82	49	6.673	4.40	13.35	6.4	15.0	2.00	85	200	110	47	11
RC		13	1	82	75	4.778	4.40	9.56	12.8	45.0	2.88	123	430	159	68	24
RC		15	1	82	90	3.589	4.40	10.77	13.1	46.7	3.31	141	502	182	78	28
RC		Totals	4	82	62	25.009	17.62	53.61	8.2	26.7	10.36	441	1,432	571	243	79
Totals			64	87	93	238.331	296.27	654.65	17.1	79.8	329.39	11178	52,243	18,149	6,159	2,879

TC TSTNDSUM

Stand Table Summary

Project WSTHYSTK

T34N R06E S04 TU3

T34N R06E S04 TU3

Date: 11/5/2003

Time: 7:20:41AM

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
34N	06E	04	WEST HAYSTAC	U3	57.10	31	66

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	87	89	6.062	4.00	18.19	6.2	30.0	3.19	112	546	182	64	31
DF		13	1	87	87	4.340	4.00	13.02	9.6	40.0	3.57	125	521	204	72	30
DF		15	3	86	92	9.780	12.00	29.34	12.8	56.7	10.73	377	1,663	613	215	95
DF		16	3	86	116	8.596	12.00	28.65	15.8	71.0	12.91	453	2,034	737	259	116
DF		17	1	86	120	2.538	4.00	7.61	21.0	93.3	4.55	160	711	260	91	41
DF		18	1	86	119	2.264	4.00	6.79	24.3	113.3	4.71	165	770	269	94	44
DF		19	1	86	99	2.032	4.00	6.10	23.0	100.0	4.00	140	610	228	80	35
DF		20	2	86	115	3.668	8.00	11.00	28.6	115.0	8.93	314	1,265	510	180	72
DF		21	1	86	132	1.663	4.00	6.65	25.9	125.0	4.91	172	832	280	98	47
DF		24	3	87	129	3.820	12.00	14.01	36.8	179.1	14.71	516	2,509	840	295	143
DF		25	2	87	120	2.347	8.00	8.22	40.5	192.9	9.50	333	1,584	543	190	90
DF		26	4	86	133	4.340	16.00	16.28	44.0	202.7	20.44	717	3,299	1,167	409	188
DF		27	2	86	142	2.012	8.00	8.05	47.6	260.0	10.92	383	2,093	623	219	120
DF		28	3	87	131	2.807	12.00	10.29	51.9	271.8	15.20	534	2,798	868	305	160
DF		29	2	87	146	1.744	8.00	6.98	55.7	306.2	11.07	388	2,137	632	222	122
DF		30	2	86	140	1.630	8.00	6.52	58.4	321.3	10.86	381	2,095	620	218	120
DF		31	2	87	135	1.527	8.00	6.11	60.6	333.7	10.55	370	2,038	603	211	116
DF		33	1	86	146	.674	4.00	2.69	72.2	412.5	5.55	195	1,111	317	111	63
DF		36	1	86	158	.566	4.00	2.26	94.9	580.0	6.12	215	1,313	350	123	75
DF		Totals	36	86	114	62.413	144.03	208.77	29.0	143.4	172.42	6,050	29,927	9,845	3,455	1,709
WH		8	1	89	72	15.096	5.27	30.19	3.2	15.0	3.12	97	453	178	56	26
WH		11	1	90	88	7.984	5.27	23.95	7.2	33.3	5.52	172	798	315	98	46
WH		12	1	90	86	6.709	5.27	20.13	8.0	33.3	5.13	160	671	293	92	38
WH		15	1	90	98	4.294	5.27	12.88	15.2	23.3	6.20	195	301	354	111	17
WH		16	3	89	106	11.322	15.81	33.97	19.0	86.7	20.68	646	2,944	1,181	369	168
WH		17	3	89	100	10.029	15.81	30.09	20.4	92.2	19.67	615	2,775	1,123	351	158
WH		19	2	89	108	5.352	10.54	16.06	26.3	125.0	13.50	422	2,007	771	241	115
WH		22	1	90	108	1.996	5.27	5.99	37.5	186.7	7.19	225	1,118	410	128	64
WH		Totals	13	89	92	62.782	68.50	173.25	14.6	63.9	81.01	2,533	11,066	4,625	1,446	632
RC		8	1	82	55	12.265	4.28	24.53	3.4	15.0	1.96	83	368	112	48	21
RC		9	1	82	54	9.691	4.28	19.38	4.6	15.0	2.11	90	291	120	51	17
RC		10	3	82	60	23.549	12.84	47.10	5.9	25.0	6.57	279	1,177	375	160	67
RC		11	2	82	62	12.975	8.56	25.95	7.7	27.5	4.70	200	714	268	114	41
RC		12	1	82	63	5.451	4.28	10.90	9.6	35.0	2.47	105	382	141	60	22
RC		14	2	81	79	8.010	8.56	16.02	15.9	60.0	5.99	255	961	342	146	55
RC		16	3	81	88	9.199	12.84	21.46	19.0	72.9	9.60	408	1,564	548	233	89
RC		18	1	82	92	2.423	4.28	7.27	20.3	73.3	3.47	148	533	198	84	30
RC		19	1	81	100	2.174	4.28	6.52	24.4	90.0	3.74	159	587	213	91	34
RC		25	1	82	104	1.256	4.28	3.77	42.5	176.7	3.76	160	666	215	92	38
RC		Totals	16	82	66	86.993	68.50	182.91	10.3	39.6	44.35	1,887	7,242	2,533	1,077	414
RA		15	1	87	92	11.450	14.05	34.35	14.7	63.3	13.82	506	2,176	789	289	124
RA		Totals	1	87	92	11.450	14.05	34.35	14.7	63.3	13.82	506	2,176	789	289	124
Totals			66	85	88	223.638	295.08	599.27	18.3	84.1	311.60	10976	50,411	17,793	6,267	2,878