"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Cost Summary
Kerry East
Sale 341-04-63

District: Astoria **Date:** 1/9/04

	Conifer	Hardwood	Total
Gross Timber Sale Value	$5,165,733.66	$164,214.48	$5,329,948.14
		Project Work	($722,946.00)
		Advertised Value	$4,607,002.14

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Timber Description
Kerry East
Sale 341-04-63

District: Astoria

Location: Sections 12, 13, 23, 24, and 25, T7N, R6W, and Sections 2, 3, and 11, T4N, R9W, W.M., Clatsop County, Oregon

Date: 1/9/04 **Stand Stocking:** 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	15	0	99
Western Hemlock / Fir	14	0	97
Sitka Spruce	19	0	80
Red Cedar	19	0	100
Alder (Red)	13	0	90

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Sitka Spruce	Red Cedar	Alder (Red)	Total
2S	4,373	4,255	3	7	0	8,638
3S	6,071	6,602	3	3	355	13,034
4S	878	1,048	0	0	64	1,990
Total	11,322	11,905	6	10	419	23,662

Comments: Pond Values Used: 4th Quarter 2003.

Log Markets: Scoggins Valley (D-fir); Tillamook (hemlock/true fir); Longview (alder)
Other Costs + P&R: 100% branding & painting - $1/MBF x 23,662 MBF = $23,662
Thinning tree selection - $3/MBF x 17,520 MBF = $52,560
Skid trail/cable corridor layout - $4/MBF x 22,655 MBF = $90,620
Rig intermediate supports - 10 man-days x $150/day = $1,500
Directional felling along buffers and plantations - $2/MBF x 500 MBF = $1,000

Other Costs No P&R: "Logger's Choice" spur road in thinning areas - 12 sta x $125/sta = $1,500
Pile slash at cable landings - $130/landing x 4 landings = $520
Slash piling in Areas 4 & 5 - 144 hours x $95/hour = $13,680
Excavator move-in = $500
Porta-Potty Rental (12 months) = $800
Total Other Costs + P&R = $169,342
Total Other Costs No P&R = $15,500

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Logging Conditions
Kerry East
Sale 341-04-63

Combination#: 1

	Douglas - Fir	9.48%	
	Western Hemlock / Fir	16.79%	
	Alder (Red)	2.43%	
Yarding Distance:	Short (400 ft)	**Downhill Yarding:**	Yes
Logging System:	Track Skidder	**Process:**	Feller Buncher
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	14	**Bd. Ft./Load:**	4,000
Cost/MBF:	$62.84		

Machines:

Feller Buncher w/ Delimber
Log Loader (B)
Stroke Delimber (B)
Track Skidder

Combination#: 2

	Douglas - Fir	35.52%	
	Western Hemlock / Fir	30.96%	
	Alder (Red)	42.10%	
Yarding Distance:	Medium (800 ft)	**Downhill Yarding:**	Yes
Logging System:	Track Skidder	**Process:**	Feller Buncher
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	9	**Bd. Ft./Load:**	4,000
Cost/MBF:	$97.75		

Machines:

Feller Buncher w/ Delimber
Log Loader (B)
Stroke Delimber (B)
Track Skidder

Combination#: 3

	Douglas - Fir	49.74%	
	Western Hemlock / Fir	49.03%	
	Alder (Red)	53.08%	
Yarding Distance:	Medium (800 ft)	**Downhill Yarding:**	No
Logging System:	Cable: Medium Tower >40 - <70	**Process:**	Manual Delimbing
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	6	**Bd. Ft./Load:**	4,000
Cost/MBF:	$138.19		

Machines:

Log Loader (A)
Tower Yarder (Medium)

Combination#: 4	Douglas - Fir	5.26%	
	Western Hemlock / Fir	3.23%	
	Sitka Spruce	100.00%	
	Red Cedar	100.00%	
	Alder (Red)	2.39%	

Yarding Distance: Short (400 ft) **Downhill Yarding**: Yes
Logging System: Track Skidder **Process:** Feller Buncher
Tree Size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
Loads/Day: 15 **Bd. Ft./Load:** 4,000
Cost/MBF: $58.65
Machines:

Feller Buncher w/ Delimber
Log Loader (B)
Stroke Delimber (B)
Track Skidder

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Logging Costs
Kerry East
Sale 341-04-63

Date: 1/9/04

Operating Seasons: 2.0 **Profit & Risk:** 14%

Project Costs: $722,946 **Other Costs (P/R):** $169,342

Slash Disposal: $0 **Other Costs:** $15,500

Road Maintenance: $2.08

Miles of Road			
Dirt	**Rock (Contractor)**	**Rock (State)**	**Paved**
0.0	0.0	0.0	0.0

Hauling Costs

Species	$/MBF	Trips/Day	MBF/Load
Douglas - Fir	$0.00	2.0	4.0
Western Hemlock / Fir	$0.00	2.0	4.0
Sitka Spruce	$0.00	2.0	3.5
Red Cedar	$0.00	2.0	3.5
Alder (Red)	$0.00	3.0	3.0

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Logging Costs Breakdown
Kerry East
Sale 341-04-63

Costs	Douglas - Fir	Western Hemlock / Fir	Sitka Spruce	Red Cedar	Alder (Red)
Logging	112.50	110.46	58.65	58.65	117.43
Road Maintenance	2.10	2.14	2.60	2.08	2.31
Fire Protection	0.23	0.23	0.23	0.23	0.23
Hauling	58.08	59.28	82.12	65.70	56.78
Other (P/R appl.)	7.16	7.16	7.16	7.16	7.16
Profit & Risk	25.21	25.10	21.11	18.73	25.75
Slash Disposal	0.00	0.00	0.00	0.00	0.00
Scaling	2.00	2.00	2.00	2.00	2.00
Other	0.66	0.66	0.66	0.66	0.66
Total	207.94	207.03	174.53	155.21	212.32

Amortization	0.00	0.00	0.00	0.00	0.00
Pond Value	526.96	336.73	385.00	1,000.00	604.24
Stumpage	319.02	129.70	210.47	844.79	391.92
Amortized	0.00	0.00	0.00	0.00	0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary
Kerry East
Sale 341-04-63

Amortized

	Douglas - Fir	Western Hemlock / Fir	Sitka Spruce	Red Cedar	Alder (Red)
MBF	0.00	0.00	0.00	0.00	0.00
Value	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00

Unamortized

	Douglas - Fir	Western Hemlock / Fir	Sitka Spruce	Red Cedar	Alder (Red)
MBF	11,322.00	11,905.00	6.00	10.00	419.00
Value	319.02	129.70	210.47	844.79	391.92
Total	3,611,944.44	1,544,078.50	1,262.82	8,447.90	164,214.48

Gross Timber Sale Value

Recovery $5,329,948.14

Prepared by: Tom Scoggins Date: 1/9/04

District: Astoria Phone: (503) 325-5451

SUMMARY OF ALL PROJECT COSTS

SALE NAME: Kerry East

NEW CONSTRUCTION:

	Road segment	Length/Sta	Cost	
Project No. 1				
	North County Sale Access			
	1A-1B, 2A-2B, 2C-2D, 2E-2F, 2G-2H, 2I-2J, 2K-2L, 2M-2N,2O-2P, 4A-4B, 4C-4D	151.40		
	North County Road Improvement			
	I5-I6	183.30		
			$194,259	
Project No. 2				
	East Summit Roads			
	P1-P2, P3-P4, P5-P6, P7-P8, P9-P10	70.00		
	East Summit Road Improvement			
	I1-I2, I3-I4, I7-I8	70.95		
			$112,354	
	TOTALS	475.65		$306,613
		9.01 Miles		

ROAD IMPROVEMENT:

Road segment		
See Above		

SPECIAL PROJECTS:

	Description		Cost	
Project No. 3	Road Vacating			
	"V1"-"V12" 48 Stations		$12,000	
	"V13"-"V22" 34 Stations		$28,000	
Project No. 4	View Point Quarry Crushing	18,063 Cubic Yards	$91,872	
Project No. 5	Munce Quarry Crushing	31,551 Cubic Yards	$227,953	
Project No. 6	Brushing	25.3 Miles	$26,070	
Project No. 7	Hamlet Stockpile Gate		$3,000	
	Project Road Maintenance North County		$15,518	
	Project Road Maintenance East Summit		$3,610	
	TOTAL			$408,023

MOVE IN:

Equipment	Cost	
Excavator C325 X 2	$1,800	
Dozer D8 X 2	$1,960	
Skidder C518 X 2	$1,040	
Vibratory Roller X 2	$1,080	
Dump Truck 10cy X 6	$684	
Dump Truck 20cy X 3	$402	
Grader 14G X 2	$1,080	
Water Truck 2,500 gallon X 2	$264	
TOTAL		$8,310

GRAND TOTAL **$722,946**

Compiled By: J. Tillotson Date: 12/17/2003

X:\Sunset Unit\2004 FY Sales\Kerry East\Sale Prep\Projects\Project Summary All Projects

KERRY EAST
FY 2004
TIMBER CRUISE REPORT

1. **Sale Area Location:** All sale areas (except Area 7 R/W) are located in Township 7 North, Range 6 West, W.M., Clatsop County, Oregon. Area 1 – Located in portions of Sections 13, 23, and 24; Area 2 – Located in portions of Sections 13, 23, 24, and 25; Area 3 – Located in portions of Sections 12 and 13; Area 4 - Located in portion of Section 13 ; Area 5 - Located in portions of Section 12 and 13. Area 6 R/W – Located within Areas 1 and 2 in Sections 13, 23, 24, and 25. Area 7 R/W – Located in portions of Sections 2, 3, and 11, T4N, R9W, W.M., Clatsop County, Oregon.

   All timber sale areas are posted with ODF "Timber Sale Boundary" signs, pink ribbon, (and blue paint along property lines and Type F stream buffers). Areas 6 R/W and 7 R/W are posted with ODF "Right-of-Way Boundary" signs.

2. **Fund Distribution:**

Fund:	BOF (100%)
Tax Code:	1-02 (2.5%)
	8-01 (0.5%)
	30-05 (96.4%)
	10-02 (0.6%)

3. **Sale Acreage by Area:**

Area	Gross Acreage	New R/W Acreage	Existing R/W Acreage	Stream Buffer Acreage	Net Acreage
1	120	-1	4	4	111
2	690	-16	15	37	622
3	139	0	4.6	4.4	130
4	60	(included in unit)	0.4	0.6	59
5	58	0	3	2	53
6 R/W		17			17
7 R/W		10			10
TOTALS	**1,067**	**+10**	**-27**	**-48**	**1,002**

4. **Cruisers and Cruise Dates:** Areas 1, 2,and 3 were cruised by Tom Scoggins, Ed Holloran, Kevin Berry, Kraig Kirkpatrick, and John Tillotson - August-September, 2003. Areas 4 and 5 were cruised by Tom Scoggins - August, 2003. Cruise for Area 6 R/W was calculated using total cruise per acre volumes for Areas 1, 2 and 3, and applying road R/W acreage. Area 7 R/W was cruised by Tom Scoggins in October, 2003.

5. **Cruise Method and Computation:** All cruises used Corvallis MicroTechnology (CMT) data collectors, and were downloaded to the Atterbury Super A.C.E. program in District for computing. See the attached Cruise Design for more details on the cruise method. The cruise calculations were processed in the Astoria district office.

AREAS	PROJECT	CRUISE TYPE
1, 2, 3	KERRYE	AREAS 1-2-3 TAKE
4 & 5	KERRYE	AREAS 4-5 CC TAKE
6 R/W	KERRYE	ROAD
7 R/W	KERRYE	OUTSALE

6. **Timber Description:**
   Areas 1, 2, and 3 (Automark Thinning) -These are naturally regenerated overstocked stands of hemlock and Douglas-fir, 40-65 years old. Average diameter is about 16 inches DBH, averaging 205 trees per acre, with a basal area of 297 ft² per acre. Current volume averages about 49 MBF per acre. The stand

prescription would remove about 20 MBF per acre, leaving a residual stand of 64% Douglas-fir, 31% hemlock, and 5% silver fir, red cedar, and alder (by BA), which averages about 20" dbh, 66 trees per acre, 150 ft² per acre, and 28 MBF per acre.

Areas 4 & 5 (Clearcut) – These are naturally regenerated mixed conifer stands, 62-67 years old. There are several patches of dwarf mistletoe infection in about both of these stands. Average diameter is about 15 inches DBH, averaging 221 trees per acre with a basal area of 278 ft² per acre. Volumes to remove in these sale areas average almost 46 MBF per acre. Marked "wildlife trees" and trees within stream buffers total about 320 in Area 4 (about 45% hemlock, 40% silver fir, and 15% Douglas-fir); and about 375 trees in Area 5 (Douglas-fir and hemlock).

Area 6 R/W is comprised of stand types within Areas 2 and 3. Average tree size is 16" dbh, with about 205 trees per acre, with a basal area of about 297 ft², and an average volume of almost 49 MBF per acre.

Area 7 R/W runs through 25-40 year old conifer plantations of Douglas-fir and hemlock. Timber within these R/W areas averages 12" dbh, about 260 trees per acre, and 17.6 MBF per acre.

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

Area	Target CV	Target SE%	Actual CV	Actual SE%
1-2-3 Thinning	40	7	34	3.4
4 & 5 Clearcut	60	10	33.5	5.2
7 R/W	40	12	36.3	10.5

8. **Volumes by Species and Log Grades for All Sale Areas by MBF:** (See "Species, Sort, Grade, Length % Type Reports" attached, of the thinning and regeneration harvest areas combined.) Volumes do not include "ingrowth." The majority of defect and breakage was culled out during the cruise.

Species	DBH	Net Vol.	2 Saw	3Saw	4 Saw	D & B	% Sale
Douglas-fir	14.6"	11,322	4,373	6,071	878	3.6%	48%
Hemlock/True fir	13.9"	11,905	4,255	6,602	1,048	7.7%	50%
Cedar	19.0"	10	7	3	0	0%	0%
Spruce	18.8"	6	3	3	0	25.3%	0%
Alder	12.6"	419	0	355	64	15.3%	2%
TOTAL	**14.2"**	**23,662**				**5.9%**	**100%**

9. **Approvals:** Bill Fortune, ADF

Prepared by: Tom Scoggins **Date:** November 18, 2003

10. **Attachments:**
Species, Sort, Grade Reports (5 pages)
Statistics_Stand Summary Reports (5 pages)
Log Stock Table Reports (14 pages)
Leave Tree Stand Summary Reports (2 pages)
Leave Tree Stand Table Reports (3 pages)
Total Stand Summaries (3 pages)
Cruise Plans & Maps (9 pages)

Logging Plan

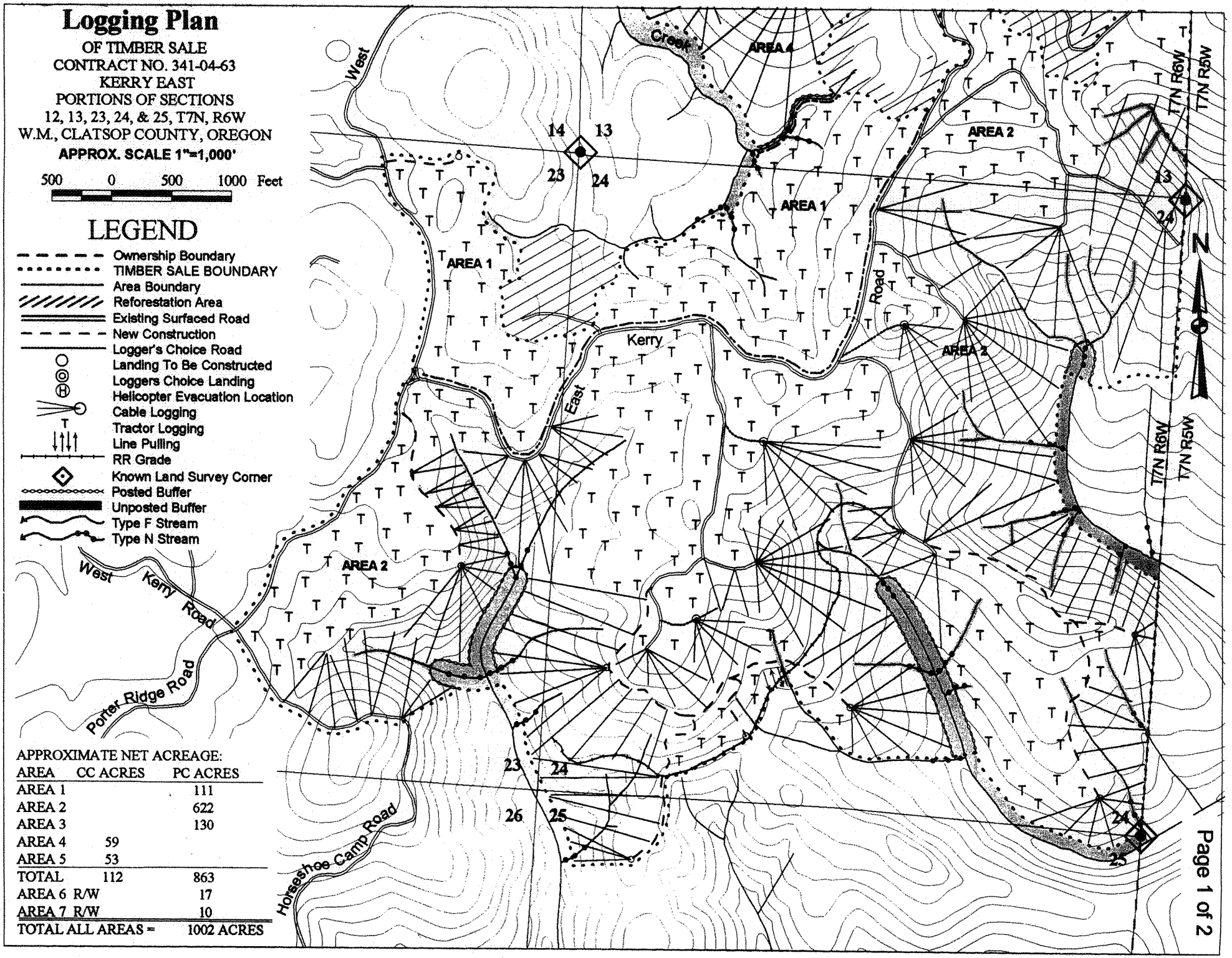
OF TIMBER SALE
CONTRACT NO. 341-04-63
KERRY EAST
PORTIONS OF SECTIONS
12, 13, 23, 24, & 25, T7N, R6W
W.M., CLATSOP COUNTY, OREGON

APPROX. SCALE 1"=1,000'

500 0 500 1000 Feet

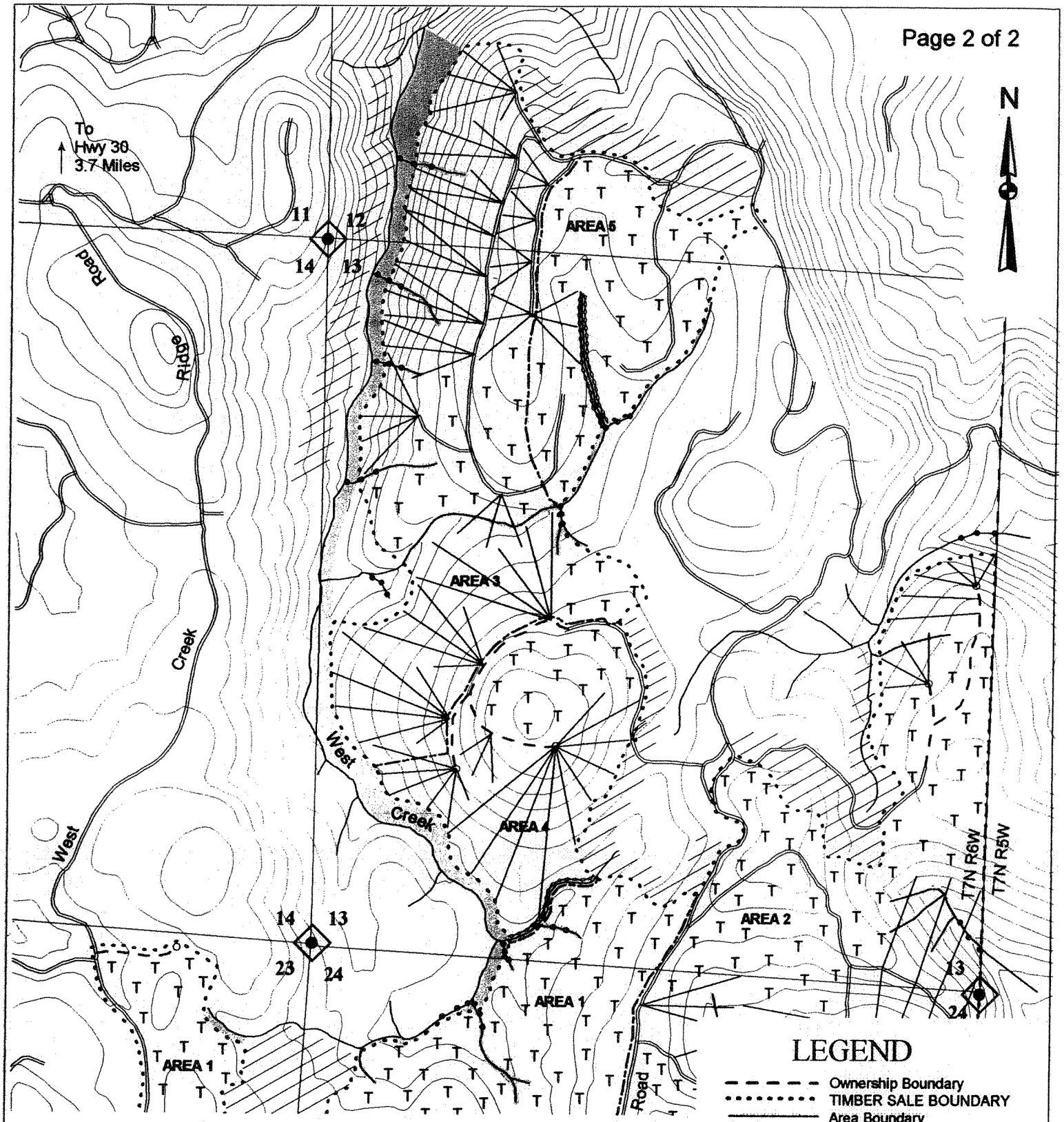
LEGEND

- Ownership Boundary
- TIMBER SALE BOUNDARY
- Area Boundary
- Reforestation Area
- Existing Surfaced Road
- New Construction
- Logger's Choice Road
- Landing To Be Constructed
- Loggers Choice Landing
- Helicopter Evacuation Location
- Cable Logging
- Tractor Logging
- Line Pulling
- RR Grade
- Known Land Survey Corner
- Posted Buffer
- Unposted Buffer
- Type F Stream
- Type N Stream



APPROXIMATE NET ACREAGE:

AREA	CC ACRES	PC ACRES
AREA 1		111
AREA 2		622
AREA 3		130
AREA 4	59	
AREA 5	53	
TOTAL	112	863
AREA 6 R/W		17
AREA 7 R/W		10
TOTAL ALL AREAS =		1002 ACRES



Logging Plan

OF TIMBER SALE
CONTRACT NO. 341-04-63
KERRY EAST
PORTIONS OF SECTIONS
12, 13, 23, 24 & 25, T7N, R6W
W.M., CLATSOP COUNTY, OREGON

APPROX. SCALE 1"=1,000'

500 0 500 1000 Feet

LEGEND

- Ownership Boundary
- TIMBER SALE BOUNDARY
- Area Boundary
- Reforestation Area
- Existing Surfaced Road
- New Construction
- Landing To Be Constructed
- Loggers Choice Landing
- Helicopter Evacuation Location
- Cable Logging
- T Tractor Logging
- Known Land Survey Corner
- Posted Buffer
- Unposted Buffer
- Type F Stream
- Type N Stream

APPROXIMATE NET ACREAGE:

AREA	CC ACRES	PC ACRES
AREA 1		111
AREA 2		622
AREA 3		130
AREA 4	59	
AREA 5	53	
TOTAL	112	863
AREA 6 R/W		17
AREA 7 R/W		10
TOTAL ALL AREAS =		1002 ACRES

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T07N R06W S13 TyTAKE
THRU
T4N R9W S2 Ty0007

Project: KERRYE
Acres 1,002.00

Page 1
Date 11/18/2003
Time 11:00:37AM

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
H	?	?			100.0	772											16		0.00	8.5
H	?	2S		17	1.7	4,194	4,124	4,133		0	76	24	5	6	44	44	34	232	1.59	17.7
H	?	3S		27	1.7	6,505	6,397	6,410	0	96	2	2	1	2	47	50	35	86	0.66	74.2
H	?	4S		4	3.8	1,084	1,043	1,045		100			41	39	19		22	28	0.40	37.6
H Totals				49	7.9	12,554	11,564	11,585	0	62	28	9	6	7	43	43	30	84	0.72	138.0
D	?	?			100.0	298											6		0.00	6.8
D	?	2S		18	1.0	4,407	4,364	4,373		0	87	12	4	3	33	60	34	230	1.57	18.9
D	?	3S		26	.9	6,116	6,059	6,071	0	98	0	1	0	6	48	45	35	79	0.61	76.9
D	?	4S		4	2.8	902	877	878	3	97			44	48	8		20	25	0.37	34.5
D Totals				48	3.6	11,723	11,300	11,322	0	60	34	6	5	8	39	47	30	82	0.71	137.2
C		DO	2S	0		7	7	7				100			32	68	36	1460	8.31	.0
C	?	3S		0		3	3	3		77	23			23	47	29	35	110	1.65	.0
C Totals				0		9	9	10		23	7	69		7	36	57	35	308	2.66	.0
A	?	?			100.0	57											15		0.00	2.2
A	?	3S		1	5.0	372	354	355		83	17		27	13	49	12	25	56	0.69	6.3
A	?	4S		0	1.9	65	64	64		100			36	62	3		21	30	0.50	2.1
A Totals				2	15.6	495	418	419		86	14		28	20	42	10	22	39	0.56	10.6
SF		DO	CU		100.0	0											8		0.00	.0
SF		DO	2S	1	3.7	127	122	122			100					100	40	247	1.57	.5
SF	?	3S		1		191	191	192		100				10	47	43	35	72	0.55	2.7
SF		DO	4S	0		3	3	3		100			100				15	20	0.47	.2
SF Totals				1	1.6	322	317	317		61	39		1	6	28	65	35	95	0.72	3.3
S	?	?			100.0	2											6		0.00	.1
S	?	2S		0		3	3	3			100			100			24	150	1.71	.0
S	?	3S		0		3	3	3		100					100		32	73	0.98	.0
S Totals				0	25.3	7	6	6		54	46			46	54		18	48	0.97	.1
Totals					6.0	25,110	23,613	23,662	0	62	31	7	6	8	41	45	30	82	0.71	289.3

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: KERRYE

Date 11/14/2003

Time 3:22:58PM

T07N R06W S24 TTAKE

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
07N	06W	24	AREAS 1-2-3	TAKE	863.00	102	151	1	W

T07N R06W S24 TTAKE

Spp	S T	So rt	Gr ad	% 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
D		DO	CU		100.0	323											7		0.00	6.4
D		DO	2S	34	1.1	3,548	3,509	3,028			100		6	4	32	58	34	209	1.45	16.8
D		DO	3S	58	1.0	6,039	5,980	5,161		98		2	0	6	48	45	35	80	0.61	74.9
D		DO	4S	8	3.1	898	870	751		100			43	47	9		20	26	0.37	34.0
D	**Totals**			51	4.2	10,808	10,359	8,940		65	34	1	6	9	39	46	30	78	0.68	132.2
H		DO	CU		100.0	694											20		0.00	6.9
H		DO	2S	29	.9	2,688	2,662	2,298			86	14	8	9	38	45	33	206	1.46	12.9
H		DO	3S	61	1.9	5,780	5,672	4,895		95	3	2	1	2	46	51	35	89	0.68	63.9
H		DO	4S	11	4.3	1,043	998	862		100			39	38	23		22	28	0.40	35.3
H	**Totals**			46	8.6	10,205	9,333	8,054		68	26	6	7	8	41	44	30	78	0.69	119.1
A		DO	CU		100.0	65											15		0.00	2.5
A		DO	3S	84	5.2	405	383	331		87	13		27	10	51	12	25	54	0.68	7.0
A		DO	4S	16		70	70	61		100			37	63			21	30	0.50	2.3
A	**Totals**			2	15.9	540	454	392		89	11		28	19	43	10	22	38	0.55	11.9
SF		DO	3S	100		156	156	135		100					48	52	35	65	0.49	2.4
SF	**Totals**			1		156	156	135		100					48	52	35	65	0.49	2.4
Type Totals					6.5	21,709	20,302	17,520		67	29	3	7	9	40	44	30	76	0.68	265.6

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: KERRYE

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Date 11/14/2003
Time 3:29:24PM

T07N R06W S13 TTAKE

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
07N	06W	13	AREAS 4-5 CC	TAKE	112.00	42	151	1	W

T07N R06W S13 TTAKE

Spp	ST	So rt	Gr ad	% 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
H		DO	CU		100.0	1,411											8		0.00	20.6
H		DO	2S	52	2.7	15,045	14,632	1,639			63	37	2	2	52	45	35	282	1.81	51.9
H		DO	3S	43	.9	12,261	12,149	1,361	1	99			1	3	51	46	35	78	0.62	155.4
H		DO	4S	5	1.1	1,426	1,410	158		100			51	49			20	25	0.36	55.7
H	**Totals**			61	6.5	30,143	28,191	3,157	1	47	33	19	4	5	49	43	30	99	0.83	283.6
D		DO	CU		100.0	101											1		0.00	7.7
D		DO	2S	57	.7	9,078	9,017	1,010			55	45	1		37	62	36	313	1.98	28.8
D		DO	3S	39	.5	6,279	6,246	700		99	1			3	54	43	35	74	0.59	84.9
D		DO	4S	4	1.3	703	694	78	17	83			41	59			21	25	0.35	28.0
D	**Totals**			35	1.3	16,160	15,957	1,787	1	42	32	25	2	4	42	52	31	107	0.87	149.4
SF		DO	2S	70	3.7	1,124	1,082	121			100					100	40	247	1.57	4.4
SF		DO	3S	28		441	441	49		100				39	39	22	34	101	0.78	4.4
SF		DO	4S	2		29	29	3		100			100				15	20	0.47	1.5
SF	**Totals**			3	2.6	1,594	1,552	174		30	70		2	11	11	76	34	152	1.16	10.2
A		DO	3S	89		135	135	15			100		32	68			22	125	1.32	1.1
A		DO	4S	11	40.0	27	16	2		100					100		32	30	0.53	.5
A	**Totals**			0	6.7	162	151	17		11	89		29	61	11		25	93	0.99	1.6
Type Totals					4.6	48,059	45,852	5,135	1	45	34	20	3	5	45	47	30	103	0.85	444.8

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: KERRYE

Page 1
Date 11/12/2003
Time 4:19:22PM

T07N R06W S24 TROAD

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
07N	06W	24	AREAS 1-2-3	ROAD	17.00	102	307	1	W

T07N R06W S24 TROAD

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
D	?	?			100.0	431											6		0.00	8.6
D	?	2S		64	.6	18,990	18,876	321	4	67	29		1	2	27	70	36	278	1.76	68.0
D	?	3S		31	.7	9,116	9,049	154	97	2	1		0	8	44	47	35	82	0.65	110.7
D	?	4S		5	1.8	1,427	1,400	24	100				45	45	10		20	27	0.40	52.3
D	**Totals**			60	2.1	29,963	29,325	499	37	44	19		3	6	31	60	31	122	0.97	239.6
H	?	?			100.0	862											18		0.00	8.1
H	?	2S		50	.8	9,004	8,929	152	2	71	27		4	7	36	54	34	251	1.69	35.6
H	?	3S		43	1.4	7,714	7,609	129	92	6	2		0	4	49	46	35	92	0.71	83.1
H	?	4S		7	3.2	1,343	1,299	22	100				46	37	17		21	28	0.43	46.5
H	**Totals**			37	5.7	18,923	17,838	303	48	38	14		5	8	40	47	30	103	0.87	173.3
A	?	?			100.0	80											14		0.00	2.6
A	?	3S		86	3.7	521	502	9	83	17			19	7	52	22	27	63	0.75	7.9
A	?	4S		14		80	80	1	100				30	70			21	30	0.50	2.6
A	**Totals**			1	14.5	681	582	10	85	15			20	16	45	19	23	44	0.62	13.1
SF	DO	CU			100.0	29											8		0.00	.2
SF	DO	2S		12		61	61	1		100						100	40	290	1.78	.2
SF	DO	3S		88		452	452	8	100						61	39	34	79	0.60	5.7
SF	**Totals**			1	5.4	542	513	9	88	12					54	46	34	84	0.64	6.1
C	DO	2S		76		388	388	7			100				32	68	36	1460	8.31	.3
C	?	3S		24		121	121	2	67	33				33	67		32	170	2.36	.7
C	**Totals**			1		509	509	9	16	8	76			8	40	52	33	521	4.14	1.0
Type Totals					3.7	50,618	48,766	829	42	41	17		4	7	35	54	31	113	0.93	433.1

TC TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: KERRYE

Page 1
Date 11/11/2003
Time 3:20:49PM

T4N R9W S2 T0007

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt
4N	9W	2	AREA 7-RW	0007	10.00	12	40	1	W

T4N R9W S2 T0007

Spp	S T	So rt	Gr ad	% 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
D		DO	CU		100.0	167											5		0.00	29.7
D		DO	2S	15		1,410	1,410	14			100				74	26	34	180	1.60	7.8
D		DO	3S	59	1.8	5,818	5,711	57	6	94					40	60	37	56	0.55	102.2
D		DO	4S	27		2,572	2,572	26	60	40			61	39			20	22	0.36	116.2
D	**Totals**			55	2.8	9,968	9,693	97	19	66	15		16	10	34	39	25	38	0.51	256.0
H		DO	CU		100.0	157											8		0.00	6.3
H		DO	2S	61		4,441	4,441	44			100			10	90		31	200	1.64	22.3
H		DO	3S	35		2,507	2,507	25		100				23	34	43	33	68	0.69	36.9
H		DO	4S	4		305	305	3		100			100				16	20	0.36	15.3
H	**Totals**			41	2.1	7,410	7,253	73		39	61		4	14	67	15	27	90	0.93	80.7
S		DO	CU		100.0	188											6		0.00	5.8
S		DO	2S	46		257	257	3			100			100			24	150	1.71	1.7
S		DO	3S	54		299	299	3		100					100		32	73	0.98	4.1
S	**Totals**			3	25.3	744	556	6		54	46			46	54		18	48	0.97	11.6
C		DO	3S	100		85	85	1		100						100	37	60	1.14	1.4
C	**Totals**			0		85	85	1		100						100	37	60	1.14	1.4
Type Totals					3.4	18,207	17,587	176	11	55	35		11	13	48	28	26	50	0.63	349.7

TC TSTATS

STATISTICS

PAGE 1

PROJECT KERRYE

DATE 11/14/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	06W	24	AREAS 1-2-3	TAKE	863.00	102	441	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	102	441	4.3		
CRUISE	34	151	4.4	121,633	.1
DBH COUNT					
REFOREST					
COUNT	62	290	4.7		
BLANKS	6				
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	60	62.3	14.4	66		70.2	10,808	10,359	2,759	2,676
WHEMLOCK	75	68.2	13.4	55		66.9	10,205	9,333	2,624	2,474
R ALDER	14	8.0	12.3	34		6.6	540	454	163	143
PS FIR	2	2.4	11.2	39	0	1.6	156	156	41	41
TOTAL	*151*	*140.9*	*13.7*	*58*		*145.3*	*21,709*	*20,302*	*5,587*	*5,335*

SD: 1	COEFF VAR.	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	105.0	10.4	56	62	69			
WHEMLOCK	104.9	10.4	61	68	75			
R ALDER	426.9	42.3	5	8	11			
PS FIR	600.6	59.5	1	2	4			
TOTAL	*56.8*	*5.6*	*133*	*141*	*149*	*129*	*32*	*14*

SD: 1	COEFF VAR.	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	103.3	10.2	63	70	77			
WHEMLOCK	103.6	10.3	60	67	74			
R ALDER	412.5	40.8	4	7	9			
PS FIR	600.6	59.5	1	2	3			
TOTAL	*54.7*	*5.4*	*137*	*145*	*153*	*120*	*30*	*13*

SD: 1	COEFF VAR.	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	106.1	10.5	9,271	10,359	11,447			
WHEMLOCK	110.7	11.0	8,310	9,333	10,355			
R ALDER	416.2	41.2	267	454	641			
PS FIR	600.6	59.5	63	156	249			
TOTAL	*60.8*	*6.0*	*19,079*	*20,302*	*21,524*	*148*	*37*	*16*

TC TSTATS

STATISTICS

PROJECT KERRYE

DATE 11/14/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	06W	13	AREAS 4-5 CC	TAKE	112.00	42	292	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	42	292	7.0		
CRUISE	22	151	6.9	24,791	.6
DBH COUNT					
REFOREST					
COUNT	20	133	6.7		
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
WHEMLOCK	86	140.9	14.9	62		171.4	30,143	28,191	7,294	7,007
DOUG FIR	61	75.5	15.4	63		97.1	16,160	15,957	4,017	3,998
PS FIR	3	4.4	18.9	82	1	8.6	1,594	1,552	402	402
R ALDER	1	.5	18.0	79		1.0	162	151	40	40
TOTAL	*151*	*221.3*	*15.2*	*63*		*278.1*	*48,059*	*45,852*	*11,754*	*11,447*

SD: 1	COEFF VAR.	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHEMLOCK	79.6	12.3	124	141	158			
DOUG FIR	117.6	18.2	62	76	89			
PS FIR	242.6	37.4	3	4	6			
R ALDER	648.1	100.0	0	1	1			
TOTAL	*46.1*	*7.1*	*206*	*221*	*237*	*85*	*21*	*9*

SD: 1	COEFF VAR.	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHEMLOCK	69.4	10.7	153	171	190			
DOUG FIR	102.5	15.8	82	97	113			
PS FIR	242.5	37.4	5	9	12			
R ALDER	648.1	100.0		1	2			
TOTAL	*31.9*	*4.9*	*264*	*278*	*292*	*41*	*10*	*5*

SD: 1	COEFF VAR.	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHEMLOCK	69.4	10.7	25,173	28,191	31,209			
DOUG FIR	100.6	15.5	13,481	15,957	18,434			
PS FIR	239.7	37.0	978	1,552	2,126			
R ALDER	648.1	100.0	0	151	302			
TOTAL	*33.5*	*5.2*	*43,483*	*45,852*	*48,221*	*45*	*11*	*5*

TC TSTATS

STATISTICS

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PROJECT KERRYE

DATE 11/12/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	06W	24	AREAS 1-2-3	ROAD	17.00	102	901	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	102	901	8.8		
CRUISE	36	307	8.5	3,493	8.8
DBH COUNT					
REFOREST					
COUNT	66	590	8.9		
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
DOUG FIR	150	103.6	17.3	75		168.7	29,963	29,325	7,379	7,277
WHEMLOCK	130	88.4	15.3	62		112.4	18,923	17,838	4,749	4,568
R ALDER	19	8.8	13.1	36		8.2	681	582	211	189
PS FIR	6	3.9	13.6	56	1	4.0	542	513	138	132
WR CEDAR	2	.7	30.6	47		3.6	509	509	132	132
TOTAL	*307*	*205.5*	*16.3*	*67*		*296.9*	*50,618*	*48,766*	*12,608*	*12,298*

TREES/ACRE

SD: 1	COEFF VAR	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	69.6	6.9	96	104	111			
WHEMLOCK	88.6	8.8	81	88	96			
R ALDER	414.1	41.0	5	9	12			
PS FIR	490.4	48.6	2	4	6			
WR CEDAR	510.4	50.5	0	1	1			
TOTAL	*34.0*	*3.4*	*199*	*205*	*212*	*46*	*12*	*5*

BASAL AREA/ACRE

SD: 1	COEFF VAR	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	66.4	6.6	158	169	180			
WHEMLOCK	85.7	8.5	103	112	122			
R ALDER	427.5	42.3	5	8	12			
PS FIR	467.8	46.3	2	4	6			
WR CEDAR	503.8	49.9	2	4	5			
TOTAL	*29.6*	*2.9*	*288*	*297*	*306*	*35*	*9*	*4*

NET BF/ACRE

SD: 1	COEFF VAR	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	67.6	6.7	27,362	29,325	31,289			
WHEMLOCK	88.1	8.7	16,281	17,838	19,394			
R ALDER	450.8	44.6	322	582	842			
PS FIR	466.9	46.2	276	513	750			
WR CEDAR	511.6	50.7	251	509	766			
TOTAL	*34.3*	*3.4*	*47,111*	*48,766*	*50,422*	*47*	*12*	*5*

TC TSTATS

STATISTICS

PAGE 1

PROJECT KERRYE

DATE 11/11/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
4N	9W	2	AREA 7-RW	0007	10.00	12	76	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	12	76	6.3		
CRUISE	7	40	5.7	2,609	1.5
DBH COUNT					
REFOREST					
COUNT	5	30	6.0		
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
DOUG FIR	23	205.5	11.0	33		134.4	9,968	9,693	3,367	3,334
WHEMLOCK	13	48.2	15.7	47		64.4	7,410	7,253	2,099	2,062
S SPRUCE	3	5.8	18.8	39		11.2	744	556	247	198
WR CEDAR	1	1.4	19.0	38		2.8	85	85	60	60
TOTAL	*40*	*260.9*	*12.2*	*36*		*212.9*	*18,207*	*17,587*	*5,774*	*5,653*

TREES/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	76.8	22.2	160	206	251			
WHEMLOCK	138.5	40.0	29	48	67			
S SPRUCE	266.3	76.9	1	6	10			
WR CEDAR	346.4	100.0	0	1	3			
TOTAL	*38.3*	*11.1*	*232*	*261*	*290*	*59*	*15*	*7*

BASAL AREA/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	64.8	18.7	109	134	160			
WHEMLOCK	143.2	41.4	38	64	91			
S SPRUCE	266.3	76.9	3	11	20			
WR CEDAR	346.4	100.0	0	3	6			
TOTAL	*10.3*	*3.0*	*207*	*213*	*219*	*4*	*1*	*0*

NET BF/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	63.0	18.2	7,930	9,693	11,456			
WHEMLOCK	151.4	43.7	4,083	7,253	10,423			
S SPRUCE	266.3	76.9	129	556	983			
WR CEDAR	346.4	100.0	0	85	171			
TOTAL	*36.3*	*10.5*	*15,742*	*17,587*	*19,431*	*53*	*13*	*6*

TC PLOGSTVB

Log Stock Table - MBF

T07N R06W S13 TyTAKE
THRU
T4N R9W S2 Ty0007

Project: KERRYE
Acres 1,002.00

Date 11/18/2003
Time 11:11:49AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches									
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
H		DO	CU	2	8	100.0														
H		?	?	3	2	100.0														
H		?	?	4	4	100.0														
H		?	?	5	17	100.0														
H		?	?	6	28	100.0														
H		DO	CU	7	9	100.0														
H		?	?	8	70	100.0														
H		?	?	10	195	100.0														
H		DO	CU	11	14	100.0														
H		?	?	12	13	100.0														
H		DO	CU	14	2	100.0														
H		DO	CU	15	12	100.0														
H		?	?	16	1	100.0														
H		?	?	20	57	100.0														
H		DO	CU	21	4	100.0														
H		?	?	28	67	100.0														
H		DO	CU	31	6	100.0														
H		?	?	40	169	100.0														
H		?	?	50	95	100.0														
H		DO	2S	12	8		8	.1								8				
H		?	2S	16	66		65	.6									65			
H		?	2S	20	149		149	1.3					1	73			74			
H		?	2S	24	6		6	.0					1	4						
H		?	2S	26	169	7.9	156	1.3						58		97				
H		DO	2S	27	14		14	.1							14					
H		?	2S	28	89	4.1	86	.7						63			23			
H		?	2S	30	3		3	.0						1		2				
H		?	2S	32	1,839	1.7	1,808	15.6						923	268	477	140			
H		?	2S	36	283		282	2.4							219	64				
H		?	2S	40	1,577	1.3	1,557	13.4						959	385	208	4			
H		?	3S	20	78		78	.7				0	78							
H		?	3S	21	12		12	.1			12									
H		?	3S	22	20		20	.2				20								
H		DO	3S	23	14	3.3	13	.1					13							
H		?	3S	24	72		72	.6					72							
H		?	3S	26	0		0	.0				0								
H		?	3S	27	4		4	.0				4								

TC PLOGSTVB

Log Stock Table - MBF

T07N R06W S13 TyTAKE
THRU
T4N R9W S2 Ty0007

Project: KERRYE
Acres 1,002.00

Date 11/18/2003
Time 11:11:49AM

Spp	S T	Sort	Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
H		?	3S	28	11	4.7	11	.1			2	1	8							
H		DO	3S	29	7		7	.1				7								
H		?	3S	30	14	4.6	14	.1			3	7	3	1						
H		DO	3S	31	8		8	.1			4	5								
H		?	3S	32	2,679	3.1	2,595	22.4		19	517	738	1276	42	3					
H		?	3S	33	108		107	.9			91	16								
H		?	3S	34	227		226	1.9			222	4								
H		?	3S	35	61		61	.5			43	17								
H		?	3S	36	151		149	1.3			131	19								
H		?	3S	37	90	1.2	89	.8			84	5								
H		?	3S	38	62		62	.5			62									
H		?	3S	39	18		18	.2			18									
H		?	3S	40	2,883		2,865	24.7			999	273	1383	89				121		
H		?	4S	12	30		30	.3			2	29								
H		?	4S	13	31	3.3	30	.3			30									
H		?	4S	14	1		1	.0			1									
H		?	4S	15	47		47	.4			47									
H		?	4S	16	61		61	.5			59	2								
H		?	4S	17	14		14	.1			14	0								
H		?	4S	18	101		101	.9			75	26								
H		?	4S	19	57		57	.5			57									
H		?	4S	20	93		92	.8			81	11								
H		?	4S	21	18		18	.2			15	3								
H		?	4S	22	9		9	.1			9	0								
H		?	4S	23	3		3	.0			0	3								
H		?	4S	24	163		163	1.4			163	0								
H		?	4S	25	0		0	.0				0								
H		?	4S	26	78		78	.7			78									
H		?	4S	27	30		30	.3			30									
H		?	4S	29	22		22	.2			22									
H		?	4S	30	88		88	.8			88									
H		?	4S	32	203	15.8	171	1.5			171									
H		?	4S	34	37	20.0	29	.3			29									
H		Totals			12,579	7.9	11,587	49.0		19	3157	1190	2836	2214	888	857	427			
D		?	?	2	6	100.0														
D		?	?	3	0	100.0														
D		?	?	4	25	100.0														

TC PLOGSTVB

Log Stock Table - MBF

T07N R06W S13 TyTAKE
THRU
T4N R9W S2 Ty0007

Project: KERRYE
Acres 1,002.00

Date 11/18/2003
Time 11:11:49AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
D		DO	CU	5	3	100.0														
D		?	?	6	35	100.0														
D		?	?	9	2	100.0														
D		?	?	16	1	100.0														
D		?	?	20	57	100.0														
D		?	?	28	105	100.0														
D		?	?	45	65	100.0														
D		?	2S	16	132		132	1.2						66	66					
D		?	2S	20	60	10.9	53	.5					1	13	39					
D		?	2S	26	43	7.5	40	.4						40						
D		?	2S	27	94		94	.8						94						
D		?	2S	30	3		3	.0						1			2			
D		?	2S	32	1,434	1.3	1,415	12.5					6	820	272	280	15	22		
D		DO	2S	34	4		4	.0					1			2				
D		DO	2S	35	27		27	.2									27			
D		?	2S	36	31		31	.3						1	3	5	23			
D		?	2S	38	270		270	2.4						268	2					
D		?	2S	40	2,318		2,304	20.3					4	973	665	460	157	17	28	
D		?	3S	20	26		26	.2					26							
D		?	3S	21	53		53	.5			10	2	41							
D		DO	3S	22	2		2	.0				2								
D		?	3S	24	105	21.9	82	.7								82				
D		?	3S	25	9	3.9	9	.1				6	3							
D		DO	3S	26	2		2	.0				2								
D		?	3S	27	1		1	.0			0	0								
D		?	3S	28	54		54	.5				3	48	4						
D		?	3S	29	3		3	.0			3	0								
D		?	3S	30	162		162	1.4			0	160	1							
D		DO	3S	31	4	9.1	3	.0					3							
D		?	3S	32	2,655		2,629	23.2		3	595	1356	675							
D		?	3S	33	51		51	.4			44	6								
D		?	3S	34	172		172	1.5			76	96								
D		?	3S	35	80		80	.7			80	0								
D		?	3S	36	199		199	1.8			12	52	135							
D		?	3S	37	113		113	1.0			112	1								
D		?	3S	38	184		183	1.6			183									
D		?	3S	39	88		88	.8			88									

TC PLOGSTVB

Log Stock Table - MBF

T07N R06W S13 TyTAKE
THRU
T4N R9W S2 Ty0007

Project: KERRYE
Acres 1,002.00

Date 11/18/2003
Time 11:11:49AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
D		?	3S	40	2,167		2,160	19.1			936	907	310			6		2		
D		?	4S	12	13		13	.1			13									
D		?	4S	13	62		62	.6			62									
D		?	4S	14	66		66	.6			66									
D		?	4S	15	61		61	.5			56	5								
D		?	4S	16	80		80	.7		6	74	0								
D		?	4S	17	4		4	.0			4									
D		?	4S	18	27		27	.2			27									
D		?	4S	19	34		34	.3			34	0								
D		?	4S	20	37		37	.3		7	30	0								
D		?	4S	21	18		18	.2			18									
D		?	4S	22	104		104	.9		3	101	0								
D		?	4S	23	35	23.8	27	.2			27	0								
D		?	4S	24	13		13	.1			13	0								
D		?	4S	25	1		1	.0			1									
D		?	4S	26	70		70	.6			70									
D		?	4S	27	29		29	.3			29									
D		?	4S	28	46		46	.4			46									
D		?	4S	29	32		32	.3		14	19									
D		?	4S	30	83		83	.7			83									
D		?	4S	31	45		45	.4			45									
D		?	4S	32	43	39.0	26	.2			26									
D		Totals			11,746	3.6	11,323	47.9		32	2983	2600	1254	2279	1053	830	224	40	28	
C		DO	2S	32	2		2	21.9										2		
C		DO	2S	40	5		5	47.6											5	
C		DO	3S	30	1		1	7.1								1				
C		?	3S	32	1		1	14.4					1							
C		?	3S	37	1		1	9.0			1									
C		Totals			10		10	.0			1		1			1		2	5	
A		?	?	2	4	100.0														
A		?	?	8	19	100.0														
A		?	?	12	12	100.0														
A		?	?	35	22	100.0														
A		?	3S	12	20	16.7	17	4.0						17						
A		?	3S	16	70	10.9	62	14.8			15	15		32						
A		?	3S	20	15		15	3.6			15									

TC PLOGSTVB

Log Stock Table - MBF

T07N R06W S13 TyTAKE
THRU
T4N R9W S2 Ty0007

Project: KERRYE
Acres 1,002.00

Date 11/18/2003
Time 11:11:49AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
A		?	3S	24	35		35	8.3					35							
A		DO	3S	28	10		10	2.5						10						
A		?	3S	32	182	4.2	174	41.7			57		117	1						
A		?	3S	37	0		0	.1			0									
A		?	3S	39	13		13	3.0			13									
A		?	3S	40	28		28	6.7			27	1								
A		?	4S	16	6		6	1.4			6									
A		?	4S	18	10		10	2.4			10									
A		?	4S	20	7		7	1.6			7									
A		?	4S	21	10		10	2.4			10									
A		?	4S	22	0		0	.0			0									
A		?	4S	24	14		14	3.3			14									
A		?	4S	25	15		15	3.7			15									
A		DO	4S	32	3	40.0	2	.4			2									
A		Totals			496	15.6	418	1.8			191	16	152	60						
SF		DO	CU	8	0	100.0														
SF		DO	2S	40	127	3.7	122	38.5						36	86					
SF		DO	3S	30	19		19	6.0					19							
SF		?	3S	32	89		89	28.2			67	1	21							
SF		DO	3S	38	1		1	.2			1									
SF		?	3S	40	83		83	26.1			11	71	1							
SF		DO	4S	15	3		3	1.0			3									
SF		Totals			322	1.6	317	1.3			82	72	41	36	86					
S		?	?	9	0	100.0														
S		?	?	10	2	100.0														
S		?	2S	24	3		3	46.2						3						
S		?	3S	32	3		3	53.8			1	2								
S		Totals			7	25.3	6	.0			1	2		3						
Total		All Species			25,160	6.0	23,661	100.0		51	6414	3880	4284	4591	2027	1687	651	42	32	

TC TLOGSTVB

Log Stock Table - MBF

Project: KERRYE

T07N R06W S24 TTAKE

T07N R06W S24 TTAKI

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	24	AREAS 1-2-3	TAKE	863.00	102	151

Page 1
Date 11/14/2003
Time 3:22:57PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
D		DO	CU																	
D		DO	CU	4	22	100.0														
D		DO	CU	6	34	100.0														
D		DO	CU	20	56	100.0														
D		DO	CU	28	103	100.0														
D		DO	CU	45	64	100.0														
D		DO	2S	16	131		131	1.5						66	65					
D		DO	2S	20	45	14.3	39	.4							39					
D		DO	2S	26	42	7.7	39	.4						39						
D		DO	2S	27	94		94	1.1						94						
D		DO	2S	32	988	1.4	974	10.9						641	214	119				
D		DO	2S	38	263		263	2.9						263						
D		DO	2S	40	1,500	.7	1,490	16.7						708	531	251				
D		DO	3S	20	26		26	.3					26							
D		DO	3S	21	50		50	.6			10		40							
D		DO	3S	24	103	21.9	80	.9								80				
D		DO	3S	28	46		46	.5					46							
D		DO	3S	30	157		157	1.8				157								
D		DO	3S	32	2,299	1.0	2,276	25.5			514	1159	602							
D		DO	3S	33	19		19	.2			19									
D		DO	3S	34	113		113	1.3			23	90								
D		DO	3S	35	58		58	.6			58									
D		DO	3S	36	183		183	2.1				51	132							
D		DO	3S	37	106		106	1.2			106									
D		DO	3S	38	154		154	1.7			154									
D		DO	3S	39	77		77	.9			77									
D		DO	3S	40	1,822	.3	1,816	20.3			791	786	239							
D		DO	4S	12	13		13	.1			13									
D		DO	4S	13	61		61	.7			61									
D		DO	4S	14	57		57	.6			57									
D		DO	4S	15	45		45	.5			45									
D		DO	4S	16	70		70	.8			70									
D		DO	4S	18	22		22	.2			22									
D		DO	4S	19	33		33	.4			33									
D		DO	4S	20	26		26	.3			26									
D		DO	4S	21	17		17	.2			17									
D		DO	4S	22	99		99	1.1			99									
D		DO	4S	23	22	33.3	14	.2			14									
D		DO	4S	26	59		59	.7			59									
D		DO	4S	27	28		28	.3			28									
D		DO	4S	28	39		39	.4			39									
D		DO	4S	29	19		19	.2			19									
D		DO	4S	30	82		82	.9			82									
D		DO	4S	31	44		44	.5			44									
D		DO	4S	32	41	40.0	25	.3			25									
D		Totals			9,327	4.2	8,940	51.0			2504	2243	1085	1810	849	450				
H		DO	CU	5	13	100.0														
H		DO	CU	6	22	100.0														
H		DO	CU	8	62	100.0														
H		DO	CU	10	168	100.0														
H		DO	CU	20	56	100.0														

TC TLOGSTVB

Log Stock Table - MBF

Project: KERRYE

T07N R06W S24 TTAKE

T07N R06W S24 TTAKE

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	24	AREAS 1-2-3	TAKE	863.00	102	151

Date 11/14/2003

Time 3:22:57PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
H		DO	CU	28	66	100.0														
H		DO	CU	40	117	100.0														
H		DO	CU	50	93	100.0														
H		DO	2S	16	63		63	.8									63			
H		DO	2S	20	128		128	1.6						55			73			
H		DO	2S	26	165	7.9	152	1.9						57		96				
H		DO	2S	28	61		61	.8						61						
H		DO	2S	32	869	.2	867	10.8						647	120	100				
H		DO	2S	36	215		215	2.7							215					
H		DO	2S	40	818	.8	811	10.1						709	102					
H		DO	3S	20	67		67	.8					67							
H		DO	3S	21	12		12	.1			12									
H		DO	3S	22	20		20	.2				20								
H		DO	3S	24	72		72	.9					72							
H		DO	3S	32	2,008	3.9	1,930	24.0			303	603	984	40						
H		DO	3S	33	75		75	.9			59	16								
H		DO	3S	34	182		182	2.3			182									
H		DO	3S	35	48		48	.6			31	17								
H		DO	3S	36	44		44	.5			26	18								
H		DO	3S	37	71		71	.9			71									
H		DO	3S	40	2,390	.7	2,374	29.5			881	127	1160	87			119			
H		DO	4S	12	28		28	.4				28								
H		DO	4S	15	44		44	.5			44									
H		DO	4S	16	54		54	.7			54									
H		DO	4S	17	9		9	.1			9									
H		DO	4S	18	79		79	1.0			54	25								
H		DO	4S	19	38		38	.5			38									
H		DO	4S	20	88		88	1.1			79	8								
H		DO	4S	21	15		15	.2			15									
H		DO	4S	24	143		143	1.8			143									
H		DO	4S	26	52		52	.6			52									
H		DO	4S	27	29		29	.4			29									
H		DO	4S	29	22		22	.3			22									
H		DO	4S	30	64		64	.8			64									
H		DO	4S	32	199	15.8	168	2.1			168									
H		DO	4S	34	36	20.0	29	.4			29									
H		Totals			8,807	8.6	8,054	46.0			2366	862	2283	1656	436	196	255			
A		DO	CU	2	4	100.0														
A		DO	CU	8	19	100.0														
A		DO	CU	12	12	100.0														
A		DO	CU	35	22	100.0														
A		DO	3S	12	20	16.7	17	4.2						17						
A		DO	3S	16	64	11.7	56	14.4			15	15		26						
A		DO	3S	20	15		15	3.8			15									
A		DO	3S	24	34		34	8.7					34							
A		DO	3S	32	177	4.2	170	43.4			56		114							
A		DO	3S	39	12		12	3.2			12									
A		DO	3S	40	27		27	6.8			27									
A		DO	4S	16	6		6	1.5			6									
A		DO	4S	18	10		10	2.5			10									

TC TLOGSTVB

Log Stock Table - MBF

Project: KERRYE

T07N R06W S24 TTAKE

T07N R06W S24 TTAKI

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	24	AREAS 1-2-3	TAKE	863.00	102	151

Page 3
Date 11/14/2003
Time 3:22:57PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
A		DO	4S	20	7		7	1.7			7									
A		DO	4S	21	10		10	2.5			10									
A		DO	4S	24	13		13	3.4			13									
A		DO	4S	25	15		15	3.9			15									
A		Totals			466	15.9	392	2.2			185	15	149	43						
SF		DO	3S	32	65		65	48.4			65									
SF		DO	3S	40	69		69	51.6				69								
SF		Totals			135		135	.8			65	69								
Total All Species					18,735	6.5	17,520	100.0			5120	3189	3517	3509	1285	645	255			

TC TLOGSTVB

Log Stock Table - MBF

Project: KERRYE

T07N R06W S13 TTAKE

T07N R06W S13 TTAKI

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	13	AREAS 4-5 CC	TAKE	112.00	42	151

Page 1
Date 11/14/2003
Time 3:29:24PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
H		DO	CU																	
H		DO	CU	2	8	100.0														
H		DO	CU	3	1	100.0														
H		DO	CU	4	4	100.0														
H		DO	CU	5	3	100.0														
H		DO	CU	6	5	100.0														
H		DO	CU	7	9	100.0														
H		DO	CU	8	6	100.0														
H		DO	CU	10	22	100.0														
H		DO	CU	11	14	100.0														
H		DO	CU	12	12	100.0														
H		DO	CU	14	2	100.0														
H		DO	CU	15	12	100.0														
H		DO	CU	21	4	100.0														
H		DO	CU	31	6	100.0														
H		DO	CU	40	50	100.0														
H		DO	2S	12	8		8	.3								8				
H		DO	2S	20	17		17	.5						17						
H		DO	2S	27	14		14	.4							14					
H		DO	2S	28	26	13.8	23	.7									23			
H		DO	2S	32	875	3.3	846	26.8						244	101	360	140			
H		DO	2S	36	65	1.3	64	2.0								64				
H		DO	2S	40	680	1.8	667	21.1						222	263	183				
H		DO	3S	20	11		11	.4					11							
H		DO	3S	23	14	3.3	13	.4					13							
H		DO	3S	27	4		4	.1				4								
H		DO	3S	28	5	10.0	5	.1					5							
H		DO	3S	29	7		7	.2				7								
H		DO	3S	30	10	6.6	9	.3			3	7								
H		DO	3S	31	8		8	.3			4	5								
H		DO	3S	32	607	.7	602	19.1		19	201	121	262							
H		DO	3S	33	28	3.4	27	.8			27									
H		DO	3S	34	40	1.8	40	1.3			35	4								
H		DO	3S	35	11		11	.4			11									
H		DO	3S	36	98	1.4	97	3.1			97									
H		DO	3S	37	18	6.3	17	.5			12	5								
H		DO	3S	38	61		61	1.9			61									
H		DO	3S	39	17		17	.5			17									
H		DO	3S	40	434	.5	432	13.7			100	135	198							
H		DO	4S	12	1		1	.0			1									
H		DO	4S	13	30	3.5	29	.9			29									
H		DO	4S	15	2		2	.1			2									
H		DO	4S	16	5		5	.1			3	2								
H		DO	4S	17	3		3	.1			3									
H		DO	4S	18	20		20	.6			20									
H		DO	4S	19	18		18	.6			18									
H		DO	4S	20	3	25.0	2	.1				2								
H		DO	4S	21	3		3	.1				3								
H		DO	4S	22	9		9	.3			9									
H		DO	4S	23	3		3	.1				3								
H		DO	4S	24	17		17	.5			17									
H		DO	4S	26	24		24	.8			24									

TC TLOGSTVB

Log Stock Table - MBF

Project: KERRYE

T07N R06W S13 TTAKE

T07N R06W S13 TTAKI

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	13	AREAS 4-5 CC	TAKE	112.00	42	151

Page 2
Date 11/14/2003
Time 3:29:24PM

Spp	T	S	So	Gr	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
H			DO	4S	30	23		23	.7			23									
H			Totals			3,376	6.5	3,157	61.5		19	714	297	489	483	378	615	163			
D			DO	CU																	
D			DO	CU	2	6	100.0														
D			DO	CU	4	3	100.0														
D			DO	CU	5	3	100.0														
D			DO	2S	20	13		13	.7						13						
D			DO	2S	32	352	1.2	348	19.5						133	32	148	12	22		
D			DO	2S	35	27		27	1.5									27			
D			DO	2S	36	23		23	1.3									23			
D			DO	2S	40	603	.4	600	33.6						206	86	126	137	17	28	
D			DO	3S	21	2		2	.1				2								
D			DO	3S	22	2		2	.1				2								
D			DO	3S	25	9	4.2	8	.5				5	3							
D			DO	3S	26	2		2	.1				2								
D			DO	3S	28	5		5	.3				3		3						
D			DO	3S	29	3		3	.2			3									
D			DO	3S	31	4	9.1	3	.2					3							
D			DO	3S	32	278	.8	276	15.4			64	158	53							
D			DO	3S	33	28		28	1.6			24	4								
D			DO	3S	34	52		52	2.9			48	4								
D			DO	3S	35	19		19	1.1			19									
D			DO	3S	36	12		12	.6			12									
D			DO	3S	37	4		4	.2			4									
D			DO	3S	38	21	3.2	20	1.1			20									
D			DO	3S	40	263		263	14.7			97	99	60		6					
D			DO	4S	14	7		7	.4			7									
D			DO	4S	15	15		15	.8			10	5								
D			DO	4S	17	4		4	.2			4									
D			DO	4S	18	4		4	.2			4									
D			DO	4S	20	2		2	.1			2									
D			DO	4S	23	12	8.7	11	.6			11									
D			DO	4S	24	12		12	.7			12									
D			DO	4S	26	10		10	.5			10									
D			DO	4S	29	14		14	.8		14										
D			Totals			1,810	1.3	1,787	34.8		14	351	284	119	355	124	274	199	40	28	
SF			DO	2S	40	126	3.7	121	69.7						36	85					
SF			DO	3S	30	19		19	11.0					19							
SF			DO	3S	32	20		20	11.2					20							
SF			DO	3S	40	11		11	6.2			11									
SF			DO	4S	15	3		3	1.9			3									
SF			Totals			179	2.6	174	3.4			14		39	36	85					
A			DO	3S	16	5		5	28.6						5						
A			DO	3S	28	10		10	60.7						10						
A			DO	4S	32	3	40.0	2	10.7			2									
A			Totals			18	6.7	17	.3			2			15						
Total All Species						5,383	4.6	5,135	100.0		33	1081	581	647	889	587	889	362	40	28	

TC TLOGSTVB

Log Stock Table - MBF

Project: KERRYE

T07N R06W S24 TROAD

T07N R06W S24 TROAD

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	24	AREAS 1-2-3	ROAD	17.00	102	307

Page 1
Date 11/12/2003
Time 4:19:21PM

Spp	S T	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
D		?	?																	
D		?	?	2	0	100.0														
D		?	?	3	0	100.0														
D		?	?	4	1	100.0														
D		?	?	6	1	100.0														
D		?	?	16	1	100.0														
D		?	?	20	1	100.0														
D		?	?	28	2	100.0														
D		?	?	45	1	100.0														
D		?	2S	16	1		1	.2							1					
D		?	2S	20	2	5.8	2	.4					1		1					
D		DO	2S	26	2	3.7	2	.3						2						
D		?	2S	30	3		3	.7						1			2			
D		?	2S	32	83	.5	83	16.7					6	36	26	13	2			
D		DO	2S	34	4		4	.7					1			2				
D		?	2S	36	8		8	1.7						1	3	5				
D		DO	2S	38	7		7	1.5						5	2					
D		?	2S	40	212	.6	210	42.2					4	55	48	83	20			
D		?	3S	20	0		0	.1					0							
D		?	3S	21	1		1	.2			0		1							
D		?	3S	24	2	21.9	2	.3								2				
D		?	3S	25	1		1	.2				1								
D		?	3S	27	1		1	.1			0	0								
D		?	3S	28	3		3	.6				0	2	1						
D		?	3S	29	1		1	.1			0	0								
D		?	3S	30	5		5	1.1			0	4	1							
D		?	3S	32	60	.7	60	12.0			11	29	20							
D		?	3S	33	3		3	.6			1	2								
D		?	3S	34	3		3	.7			1	2								
D		?	3S	35	2		2	.4			1	0								
D		?	3S	36	4		4	.8			0	1	3							
D		?	3S	37	3	2.5	3	.6			2	1								
D		?	3S	38	8		8	1.7			8									
D		?	3S	39	2		2	.4			2									
D		?	3S	40	56	.3	56	11.3			22	22	11			2				
D		DO	4S	12	0		0	.0			0									
D		?	4S	13	2		2	.3			2									
D		DO	4S	14	1		1	.2			1									
D		?	4S	15	1		1	.2			1	0								
D		DO	4S	16	3		3	.5			2	0								
D		?	4S	17	0		0	.0			0									
D		?	4S	18	1		1	.1			1									
D		?	4S	19	1		1	.3			1	0								
D		?	4S	20	2		2	.5			2	0								
D		?	4S	21	1		1	.2			1									
D		?	4S	22	2		2	.5			2	0								
D		?	4S	23	1	15.6	1	.1			1	0								
D		?	4S	24	1		1	.1			1	0								
D		?	4S	25	1		1	.2			1									
D		?	4S	26	1		1	.2			1									
D		?	4S	27	1		1	.2			1									
D		?	4S	28	1		1	.2			1									

TC TLOGSTVB

Log Stock Table - MBF

Project: KERRYE

T07N R06W S24 TROAD

T07N R06W S24 TROAD

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	24	AREAS 1-2-3	ROAD	17.00	102	307

Date 11/12/2003

Time 4:19:21PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches: 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
D		?	4S	29	0		0	.1			0									
D		?	4S	30	2		2	.3			2									
D		?	4S	31	1		1	.2			1									
D		?	4S	32	2	17.2	2	.3			2									
D			Totals		509	2.1	499	60.1			72	64	50	101	81	106	25			
H		?	?	4	0	100.0														
H		DO	CU	5	1	100.0														
H		DO	CU	6	0	100.0														
H		?	?	8	1	100.0														
H		?	?	10	5	100.0														
H		?	?	16	1	100.0														
H		DO	CU	20	1	100.0														
H		?	?	28	1	100.0														
H		DO	CU	40	2	100.0														
H		DO	CU	50	2	100.0														
H		?	2S	16	2	6.9	2	.7									2			
H		DO	2S	20	4		4	1.2					1	1			1			
H		DO	2S	24	1		1	.5					1							
H		?	2S	26	4	6.6	4	1.2						2		2				
H		?	2S	28	2		2	.6						2						
H		?	2S	30	3		3	1.1						1		2				
H		?	2S	32	54	.1	54	17.9						22	16	16				
H		?	2S	36	4		4	1.4							4					
H		?	2S	40	78	1.1	78	25.6						28	20	26	4			
H		?	3S	20	0		0	.0				0								
H		?	3S	21	0		0	.1			0									
H		?	3S	22	0		0	.1				0								
H		?	3S	26	0		0	.1				0								
H		?	3S	27	0		0	.1				0								
H		?	3S	28	4		4	1.2				1	3							
H		DO	3S	30	1		1	.3						1						
H		?	3S	32	58	2.6	57	18.7			8	14	30	2	3					
H		?	3S	33	2		2	.6			2	0								
H		?	3S	34	4		4	1.3			4									
H		DO	3S	35	1		1	.4			1	0								
H		?	3S	36	3		3	.9			2	1								
H		?	3S	37	1		1	.4			1									
H		?	3S	38	1		1	.3			1									
H		?	3S	39	1		1	.3			1									
H		?	3S	40	54	.5	54	17.7			18	6	26	2			2			
H		?	4S	12	1		1	.2			0	1								
H		DO	4S	13	0		0	.1			0									
H		?	4S	14	1		1	.2			1									
H		DO	4S	15	1		1	.3			1									
H		?	4S	16	3		3	.9			2	0								
H		?	4S	17	1		1	.2			0	0								
H		?	4S	18	2		2	.5			1	0								
H		?	4S	19	1		1	.2			1									
H		?	4S	20	2		2	.7			2	0								
H		?	4S	21	0		0	.2			0									
H		?	4S	22	0		0	.1				0								

TC TLOGSTVB

Log Stock Table - MBF

Project: KERRYE

T07N R06W S24 TROAD

T07N R06W S24 TROAD

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	24	AREAS 1-2-3	ROAD	17.00	102	307

Page 3
Date 11/12/2003
Time 4:19:21PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
H		?	4S	23	0		0	.1			0									
H		?	4S	24	3		3	1.0			3	0								
H		?	4S	25	0		0	.1				0								
H		?	4S	26	1		1	.4			1									
H		?	4S	27	1		1	.2			1									
H		?	4S	29	0		0	.1			0									
H		?	4S	30	1		1	.5			1									
H		?	4S	32	4	15.8	3	1.1			3									
H		?	4S	34	1	20.0	1	.2			1									
H		Totals			322	5.7	303	36.6			57	26	61	61	42	46	10			
A		?	?	2	0	100.0														
A		?	?	8	1	100.0														
A		?	?	12	0	100.0														
A		?	?	35	0	100.0														
A		?	3S	12	0	16.7	0	3.0						0						
A		?	3S	16	1	11.7	1	10.3			0	0		0						
A		DO	3S	20	0		0	2.7			0									
A		?	3S	24	1		1	6.3					1							
A		?	3S	32	5	3.0	4	44.5			1		3	1						
A		?	3S	37	0		0	4.2			0									
A		?	3S	39	0		0	2.3			0									
A		?	3S	40	1		1	12.8			1	1								
A		?	4S	16	0		0	1.1			0									
A		?	4S	18	0		0	1.8			0									
A		?	4S	20	0		0	1.2			0									
A		?	4S	21	0		0	1.8			0									
A		?	4S	22	0		0	1.4			0									
A		?	4S	24	0		0	3.7			0									
A		?	4S	25	0		0	2.8			0									
A		Totals			12	14.5	10	1.2			4	1	3	1						
SF		DO	CU	8	0	100.0														
SF		DO	2S	40	1		1	11.9							1					
SF		DO	3S	32	5		5	53.6			2	1	1							
SF		DO	3S	38	1		1	6.3			1									
SF		DO	3S	40	2		2	28.2				1	1							
SF		Totals			9	5.4	9	1.1			3	2	3		1					
C		DO	2S	32	2		2	24.0										2		
C		DO	2S	40	5		5	52.3											5	
C		DO	3S	30	1		1	7.8								1				
C		?	3S	32	1		1	15.9					1							
C		Totals			9		9	1.0					1			1		2	5	
Total All Species					861	3.7	829	100.0			137	93	118	163	124	153	34	2	5	

TC TLOGSTVB

Log Stock Table - MBF

Project: KERRYE

T4N R9W S2 T0007

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
4N	9W	2	AREA 7-RW	0007	10.00	12	40

Date 11/11/2003
Time 3:20:48PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches: 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
D		DO	CU																	
D		DO	CU	9	2	100.0														
D		DO	2S	32	10		10	10.7						10						
D		DO	2S	40	4		4	3.8						4						
D		DO	3S	32	18		18	18.2		3	5	9								
D		DO	3S	34	4		4	3.8			4									
D		DO	3S	35	1		1	1.4			1									
D		DO	3S	39	9		9	9.4			9									
D		DO	3S	40	26	4.1	25	26.1			25									
D		DO	4S	14	1		1	1.5			1									
D		DO	4S	15	0		0	.4			0									
D		DO	4S	16	7		7	7.3		6	1									
D		DO	4S	20	7		7	6.9		7										
D		DO	4S	22	3		3	2.7		3										
D		DO	4S	23	1		1	1.0			1									
D		DO	4S	28	6		6	6.6			6									
D		Totals			100	2.8	97	55.1		19	55	9		14						
H		DO	CU	3	1	100.0														
H		DO	CU	12	1	100.0														
H		DO	2S	24	4		4	5.9						4						
H		DO	2S	32	40		40	55.4						9	31					
H		DO	3S	28	2		2	3.1			2									
H		DO	3S	30	3		3	4.8					3							
H		DO	3S	32	5		5	7.6			5									
H		DO	3S	33	3		3	4.3			3									
H		DO	3S	36	6		6	8.1			6									
H		DO	3S	40	5		5	6.7				5								
H		DO	4S	13	1		1	1.1			1									
H		DO	4S	17	2		2	3.1			2									
H		Totals			74	2.1	73	41.2			20	5	3	13	31					
S		DO	CU																	
S		DO	CU	9	0	100.0														
S		DO	CU	10	2	100.0														
S		DO	2S	24	3		3	46.2						3						
S		DO	3S	32	3		3	53.8			1	2								
S		Totals			7	25.3	6	3.2			1	2		3						
C		DO	3S	37	1		1	100.0			1									
C		Totals			1		1	.5			1									
Total All Species					182	3.4	176	100.0		19	77	16	3	30	31					

TC TSTATS

STATISTICS

PROJECT KERRYE

DATE 11/14/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	06W	24	AREAS 1-2-3	LEAV	863.00	102	496	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	102	496	4.9		
CRUISE	35	168	4.8	66,745	.3
DBH COUNT					
REFOREST					
COUNT	67	328	4.9		
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
DOUGLEAV	87	41.3	20.7	88	22	96.2	18,749	18,547	4,513	4,491
HEMLEAV	56	21.9	19.9	82	8.2	47.1	8,923	8,692	2,183	2,149
SNAG	14	10.6	13.9	54	0	11.2	1,015		285	
CEDLEAV	2	.7	30.6	47	0.5	3.6	509	509	132	132
SFIRLEAV	4	1.7	15.6	72	0.4	2.3	349	327	89	84
ALDRLEAV	5	1.1	16.7	47	0.4	1.6	140	125	46	43
TOTAL	*168*	*77.3*	*19.6*	*80*	31.5	*162.1*	*29,684*	*28,199*	*7,248*	*6,900*

SD: 1	COEFF VAR	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUGLEAV	58.1	5.8	39	41	44			
HEMLEAV	98.9	9.8	20	22	24			
SNAG	236.2	23.4	8	11	13			
CEDLEAV	510.4	50.5	0	1	1			
SFIRLEAV	471.3	46.7	1	2	3			
ALDRLEAV	715.7	70.9	0	1	2			
TOTAL	*40.5*	*4.0*	*74*	*77*	*80*	*66*	*16*	*7*

SD: 1	COEFF VAR	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUGLEAV	53.2	5.3	91	96	101			
HEMLEAV	94.8	9.4	43	47	52			
SNAG	232.5	23.0	9	11	14			
CEDLEAV	503.8	49.9	2	4	5			
SFIRLEAV	470.3	46.6	1	2	3			
ALDRLEAV	724.9	71.8	0	2	3			
TOTAL	*20.9*	*2.1*	*159*	*162*	*165*	*18*	*4*	*2*

SD: 1	COEFF VAR	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUGLEAV	54.7	5.4	17,543	18,547	19,551			
HEMLEAV	94.8	9.4	7,876	8,692	9,508			
SNAG								
CEDLEAV	511.6	50.7	251	509	766			
SFIRLEAV	474.2	47.0	174	327	481			
ALDRLEAV	810.1	80.2	25	125	225			
TOTAL	*18.5*	*1.8*	*27,683*	*28,199*	*28,716*	*14*	*3*	*2*

TC TSTATS

STATISTICS

PAGE 1

PROJECT KERRYE

DATE 11/14/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	06W	13	AREAS 4-5 CC	LEAV	112.00	25	49	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	25	49	2.0		
CRUISE	13	24	1.8	5,827	.4
DBH COUNT					
REFOREST					
COUNT	12	25	2.1		
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
SNAG	15	43.9	16.1	40		62.4	5,546		1,335	
SFIRLEAV	6	4.2	20.4	78	1	9.6	1,682	1,650	420	420
CEDLEAV	2	3.3	13.3	43		3.2	275	275	94	94
HEMLEAV	1	.6	32.0	60		3.2	773	653	136	136
TOTAL	*24*	*52.0*	*16.6*	*44*		*78.4*	*8,276*	*2,578*	*1,986*	*650*

TREES/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
SNAG	104.0	20.8	35	44	53			
SFIRLEAV	350.7	70.1	1	4	7			
CEDLEAV	383.3	76.7	1	3	6			
HEMLEAV	346.1	69.2	0	1	1			
TOTAL	*98.3*	*19.7*	*42*	*52*	*62*	*387*	*97*	*43*

BASAL AREA/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
SNAG	71.9	14.4	53	62	71			
SFIRLEAV	346.1	69.2	3	10	16			
CEDLEAV	346.1	69.2	1	3	5			
HEMLEAV	346.1	69.2	1	3	5			
TOTAL	*66.7*	*13.3*	*68*	*78*	*89*	*178*	*44*	*20*

NET BF/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
SNAG								
SFIRLEAV	365.0	73.0	445	1,650	2,854			
CEDLEAV	348.8	69.8	83	275	467			
HEMLEAV	346.1	69.2	201	653	1,105			
TOTAL	*297.3*	*59.5*	*1,045*	*2,578*	*4,111*	*3,535*	*884*	*393*

TC TSTNDSUM

Stand Table Summary

Project KERRYE

T07N R06W S24 TLEAV

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	24	AREAS 1-2-3	LEAV	866.00	102	168

Date: 10/9/200
Time: 11:14:57AM

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
DL		8	1	87	48	3.168	1.11	3.17	6.0	20.0		19	63		165	55
DL		13	2	87	109	2.400	2.21	4.80	18.0	72.5		86	348		748	301
DL		14	1	86	121	1.035	1.11	2.07	22.5	90.0		47	186		403	161
DL		15	1	86	69	.901	1.11	1.80	16.5	55.0		30	99		258	86
DL		16	2	86	98	1.584	2.21	3.96	21.4	82.0		85	325		734	281
DL		17	1	86	82	.702	1.11	1.40	26.0	85.0		36	119		316	103
DL		18	6	87	122	3.755	6.64	10.01	30.6	115.0		307	1,152		2,656	997
DL		19	6	87	108	3.370	6.64	6.74	40.0	143.3		270	966		2,335	837
DL		20	11	87	124	5.576	12.17	16.22	35.4	142.8		575	2,317		4,978	2,006
DL		21	5	86	130	2.299	5.53	6.90	39.7	164.7		274	1,136		2,369	984
DL		22	10	87	124	4.189	11.06	12.57	41.7	175.7		524	2,208		4,539	1,912
DL		23	5	88	123	1.917	5.53	5.75	46.5	200.7		268	1,154		2,317	999
DL		24	10	87	136	3.520	11.06	9.86	56.2	233.6		554	2,302		4,798	1,994
DL		25	2	86	106	.649	2.21	1.30	67.5	252.5		88	328		759	284
DL		26	8	84	140	2.400	8.85	7.50	60.2	252.4		451	1,893		3,909	1,639
DL		27	2	88	148	.556	2.21	1.67	72.5	336.7		121	562		1,048	487
DL		28	6	84	141	1.552	6.64	4.66	71.6	306.7		333	1,428		2,885	1,236
DL		29	1	92	144	.241	1.11	.72	87.0	450.0		63	325		545	282
DL		30	5	86	130	1.127	5.53	3.38	79.5	354.0		269	1,196		2,328	1,036
DL		32	1	85	84	.198	1.11	.20	156.0	700.0		31	139		268	120
DL		33	1	83	163	.186	1.11	.56	110.7	540.0		62	302		535	261
DL		Totals	87	87	116	41.325	96.22	105.23	42.7	176.2		4,491	18,547		38,892	16,061
HL		12	1	86	75	1.071	.84	2.14	13.0	45.0		28	96		241	84
HL		14	1	89	79	.787	.84	1.57	18.5	70.0		29	110		252	95
HL		15	4	87	95	2.743	3.37	5.49	25.4	95.0		139	521		1,205	451
HL		16	1	88	95	.603	.84	1.21	30.0	110.0		36	133		313	115
HL		17	5	88	90	2.669	4.21	5.87	28.7	104.5		169	614		1,461	532
HL		18	1	89	92	.476	.84	.95	36.5	125.0		35	119		301	103
HL		19	6	89	104	2.564	5.05	6.84	33.8	130.6		231	893		2,002	773
HL		20	11	88	111	4.243	9.26	12.73	35.9	147.6		457	1,878		3,955	1,627
HL		21	2	87	104	.700	1.68	1.75	44.4	174.0		78	304		673	264
HL		22	1	82	107	.319	.84	.64	37.5	150.0		24	96		207	83
HL		23	4	87	125	1.167	3.37	3.50	50.4	219.2		176	767		1,528	664
HL		24	9	86	110	2.411	7.57	6.70	50.0	207.6		335	1,390		2,897	1,204
HL		25	1	85	122	.247	.84	.74	59.3	253.3		44	188		380	162
HL		26	7	86	122	1.597	5.89	4.79	60.6	264.8		290	1,269		2,514	1,099
HL		30	1	81	126	.171	.84	.51	83.3	346.7		43	178		371	154
HL		32	1	83	103	.151	.84	.30	119.0	450.0		36	136		311	117
HL		Totals	56	87	103	21.917	47.12	55.73	38.6	156.0		2,149	8,692		18,611	7,527
CL		24	1	68	67	.577	1.81	.58	74.0	140.0		43	81		370	70
CL		50	1	82	144	.133	1.81	.40	225.0	1073.3		90	428		777	371
CL		Totals	2	71	81	.710	3.62	.98	135.7	521.5		132	509		1,147	441
SFL		13	1	83	103	.626	.58	1.25	17.0	60.0		21	75		184	65
SFL		15	2	89	98	.940	1.15	1.88	24.7	100.0		47	188		403	163
SFL		24	1	81	99	.184	.58	.37	45.0	175.0		17	64		143	56
SFL		Totals	4	86	100	1.749	2.31	3.50	24.1	93.6		84	327		730	283
AL		14	1	87	50	.308	.33	.31	22.0	60.0		7	18		59	16
AL		17	2	87	66	.418	.66	.63	31.0	96.7		19	61		168	53
AL		18	1	87	71	.186	.33	.37	29.0	95.0		11	35		94	31

TC TSTNDSUM

Stand Table Summary

Project KERRYE

T07N R06W S24 TLEAV

Date: 10/9/200
Time: 11:14:57AM

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	24	AREAS 1-2-3	LEAV	866.00	102	168

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
AL		19	1	86	58	.167	.33	.17	36.0	60.0		6	10		52	9
AL		Totals	5	87	61	1.080	1.65	1.48	29.2	84.4		43	125		373	108
SN		9	2	86	59	3.623	1.60									
SN		10	1	82	83	1.467	.80									
SN		11	1	88	64	1.213	.80									
SN		13	3	86	76	2.605	2.40									
SN		15	1	83	37	.652	.80									
SN		17	1	88	112	.508	.80									
SN		20	1	89	54	.367	.80									
SN		60	1	89	43	.041	.80									
SN		65	1	89	63	.035	.80									
SN		70	1	88	88	.030	.80									
SN		85	1	88	96	.020	.80									
SN		Totals	14	86	68	10.559	11.20									
Totals			168	87	104	77.340	162.12	166.91	41.3	169.0		6900	28,199		59,752	24,421

TC TSTNDSUM

Stand Table Summary

Project KERRYE

T07N R06W S13 TLEAV

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
07N	06W	13	AREAS 4-5 CC	LEAV	112.00	25	24

Date: 11/14/20(
Time: 3:26:02PM

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
SFL		12	1	84	106	2.037	1.60	4.07	15.0	50.0		61	204		68	23
SFL		19	1	88	110	.813	1.60	2.44	30.0	116.7		73	284		82	32
SFL		23	1	80	97	.555	1.60	1.11	56.0	170.0		62	189		70	21
SFL		28	1	87	122	.374	1.60	1.12	68.0	293.3		76	329		85	37
SFL		32	1	82	122	.286	1.60	.86	84.0	383.3		72	329		81	37
SFL		42	1	75	135	.166	1.60	.50	151.0	630.0		75	314		84	35
SFL		Totals	6	84	109	4.231	9.60	10.10	41.6	163.3		420	1,650		471	185
HL		32	1	84	120	.573	3.20	1.15	119.0	570.0		136	653		153	73
HL		Totals	1	84	120	.573	3.20	1.15	119.0	570.0		136	653		153	73
CL		11	1	86	72	2.424	1.60	2.42	17.0	50.0		41	121		46	14
CL		18	1	82	87	.905	1.60	1.81	29.0	85.0		53	154		59	17
CL		Totals	2	85	76	3.330	3.20	4.24	22.1	65.0		94	275		105	31
SN		9	1	83	56	10.557	4.16									
SN		10	1	86	60	7.627	4.16									
SN		11	2	88	69	12.607	8.32									
SN		14	1	87	75	3.891	4.16									
SN		16	1	75	46	2.979	4.16									
SN		22	1	87	17	1.576	4.16									
SN		24	1	83	60	1.324	4.16									
SN		28	1	86	92	.973	4.16									
SN		36	1	83	69	.589	4.16									
SN		38	1	74	24	.528	4.16									
SN		44	1	79	17	.394	4.16									
SN		48	2	80	48	.662	8.32									
SN		64	1	88	17	.186	4.16									
SN		Totals	15	85	60	43.894	62.40									
Totals			24	85	66	52.028	78.40	15.48	42.0	166.5		650	2,578		728	289

TOTAL STAND

TC TSTATS

STATISTICS

PROJECT KERRYE

DATE 10/9/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	06W	24	AREAS 1-2-3	0001	866.00	102	938	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	102	938	9.2		
CRUISE	36	321	8.9	189,037	.2
DBH COUNT					
REFOREST					
COUNT	66	613	9.3		
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
DOUGLEAV	87	41.3	20.7	88	22	96.2	18,749	18,547	4,513	4,491
DOUG FIR	62	62.3	14.4	66	19	70.8	10,880	10,441	2,782	2,701
WHEMLOCK	75	68.2	13.4	55	14	66.9	10,205	9,333	2,624	2,474
HEMLEAV	56	21.9	19.9	82	8	47.1	8,923	8,692	2,183	2,149
SNAG	14	10.6	13.9	54		11.2	1,015		285	
R ALDER	14	8.0	12.3	34	2	6.6	540	454	163	143
CEDLEAV	2	.7	30.6	47	0.5	3.6	509	509	132	132
SFIRLEAV	4	1.7	15.6	72	0.4	2.3	349	327	89	84
PS FIR	2	2.4	11.2	39	0 4	1.6	156	156	41	41
ALDRLEAV	5	1.1	16.7	47	0.6	1.6	140	125	46	43
TOTAL	*321*	*218.3*	*16.1*	*66*	67%	*308.1*	*51,466*	*48,583*	*12,859*	*12,260*

TREES/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUGLEAV	58.1	5.8	39	41	44			
DOUG FIR	104.2	10.3	56	62	69			
WHEMLOCK	104.9	10.4	61	68	75			
HEMLEAV	98.9	9.8	20	22	24			
SNAG	236.2	23.4	8	11	13			
R ALDER	426.9	42.3	5	8	11			
CEDLEAV	510.4	50.5	0	1	1			
SFIRLEAV	471.3	46.7	1	2	3			
PS FIR	600.6	59.5	1	2	4			
ALDRLEAV	715.7	70.9	0	1	2			
TOTAL	*38.2*	*3.8*	*210*	*218*	*227*	*58*	*15*	*6*

BASAL AREA/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUGLEAV	53.2	5.3	91	96	101			
DOUG FIR	102.5	10.2	64	71	78			
WHEMLOCK	103.6	10.3	60	67	74			
HEMLEAV	94.8	9.4	43	47	52			
SNAG	232.5	23.0	9	11	14			
R ALDER	412.5	40.8	4	7	9			
CEDLEAV	503.8	49.9	2	4	5			
SFIRLEAV	470.3	46.6	1	2	3			
PS FIR	600.6	59.5	1	2	3			
ALDRLEAV	724.9	71.8	0	2	3			
TOTAL	*29.1*	*2.9*	*299*	*308*	*317*	*34*	*8*	*4*

NET BF/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUGLEAV	54.7	5.4	17,543	18,547	19,551			
DOUG FIR	105.2	10.4	9,354	10,441	11,529			
WHEMLOCK	110.7	11.0	8,310	9,333	10,355			

STATISTICS

PROJECT KERRYE

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	06W	24	AREAS 1-2-3	0001	866.00	102	938	1	W

SD: 1	COEFF VAR.	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
SNAG								
R ALDER	416.2	41.2	267	454	641			
CEDLEAV	511.6	50.7	251	509	766			
SFIRLEAV	474.2	47.0	174	327	481			
PS FIR	600.6	59.5	63	156	249			
ALDRLEAV	810.1	80.2	25	125	225			
TOTAL	*32.1*	*3.2*	*47,038*	*48,583*	*50,129*	*41*	*10*	*5*

TC TSTATS

STATISTICS

PROJECT KERRYE

DATE 11/14/2003

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	06W	13	AREAS 4-5 CC	0002	112.00	42	341	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	42	341	8.1		
CRUISE	22	175	8.0	28,259	.6
DBH COUNT					
REFOREST					
COUNT	20	158	7.9		
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
WHEMLOCK	86	140.9	14.9	62		171.4	30,143	28,191	7,294	7,007
DOUG FIR	61	75.5	15.4	63		97.1	16,160	15,957	4,017	3,998
SNAG	15	26.1	16.1	40		37.1	3,301		795	
PS FIR	3	4.4	18.9	82	1	8.6	1,594	1,552	402	402
SFIRLEAV	6	2.5	20.4	78	1	5.7	1,001	982	250	250
CEDLEAV	2	2.0	13.3	43		1.9	164	164	56	56
HEMLEAV	1	.3	32.0	60		1.9	460	389	81	81
R ALDER	1	.5	18.0	79		1.0	162	151	40	40
TOTAL	*175*	*252.3*	*15.4*	*60*		*324.8*	*52,986*	*47,386*	*12,936*	*11,834*

TREES/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHEMLOCK	79.6	12.3	124	141	158			
DOUG FIR	117.6	18.2	62	76	89			
SNAG	157.6	24.3	20	26	32			
PS FIR	242.6	37.4	3	4	6			
SFIRLEAV	458.4	70.7	1	3	4			
CEDLEAV	499.6	77.1	0	2	4			
HEMLEAV	452.6	69.8	0	0	1			
R ALDER	648.1	100.0	0	1	1			
TOTAL	*36.3*	*5.6*	*238*	*252*	*266*	*53*	*13*	*6*

BASAL AREA/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHEMLOCK	69.4	10.7	153	171	190			
DOUG FIR	102.5	15.8	82	97	113			
SNAG	124.5	19.2	30	37	44			
PS FIR	242.5	37.4	5	9	12			
SFIRLEAV	452.6	69.8	2	6	10			
CEDLEAV	452.6	69.8	1	2	3			
HEMLEAV	452.6	69.8	1	2	3			
R ALDER	648.1	100.0		1	2			
TOTAL	*25.0*	*3.9*	*312*	*325*	*337*	*25*	*6*	*3*

NET BF/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHEMLOCK	69.4	10.7	25,173	28,191	31,209			
DOUG FIR	100.6	15.5	13,481	15,957	18,434			
SNAG								
PS FIR	239.7	37.0	978	1,552	2,126			
SFIRLEAV	476.5	73.5	260	982	1,704			
CEDLEAV	456.0	70.4	49	164	279			
HEMLEAV	452.6	69.8	117	389	660			
R ALDER	648.1	100.0	0	151	302			
TOTAL	*33.7*	*5.2*	*44,922*	*47,386*	*49,851*	*45*	*11*	*5*

Revised August, 2002

CRUISE DESIGN
ASTORIA DISTRICT

Sale Name: Kerry East **Area(s)** 1, 2, 3

Harvest Type: CC PC CT ("Automark Thinning") (circle one)

Approx. Cruise Acres: 880 **Estimated CV%** 40% (Net BF or BA/Acre) **SE% Objective** 7% (Net BF or BA/Acre) (Total Stand)

Planned Sale Volume: 16.8 MMBF **Estimated Sale Area Value/Acre:** $5,265

A. **Cruise Goals:** (a) Grade minimum 120 conifer "take" trees and _____ hardwood trees: (b) Sample 100 cruise plots; (c) Other goals (✓ Determine "automark" thinning standards; ✓ Determine log grades for sale value; ____ Determine snag and leave tree species and sizes; ____ Determine LWD (down wood) cubic feet and decay classes; ____ Determine "diameter limit" harvest parameters;
Target BA is 140-160 (4 to 5 leave trees/plot)
Leave "biggest & best" trees regardless of species (incl. hdwds.)

B. **Cruise Design:**

1. **Plot Cruises:** BAF 33.6 (Full point) Half point) (circle one)
   Fixed Plot Size ____ Plot Radius _____ feet
   Cruise Line Direction(s) E-W
   Cruise Line Spacing 14.0 (chains) (feet)
   Cruise Plot Spacing 6.0 (chains) (feet)
   Grade/Count Ratio 1 to 3
2. **ITS (Sample Tree) Cruises:** Measure-grade ratios: D-fir _____ Hemlock _____ Spruce _____ True Fir _____ Cedar _____ Hardwood _____

C. **Tree Measurements:**

1. **Diameter:** Minimum DBH to cruise is 8 " for conifers and 8 " for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.

2. **Bole Length:** Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.

3. **Top Cruise Diameter (TCD):** Minimum top outside bark is 7 " or 40 % of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.

4. **Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

5. **Tree Segments:** Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch. segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.

6. **Species, Sort, and Grade Codes:** A. Species: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DL, HL, CL, etc.)
B. Sort: Use code "1" (Domestic).
C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; R = Camp Run; 0 = Cull

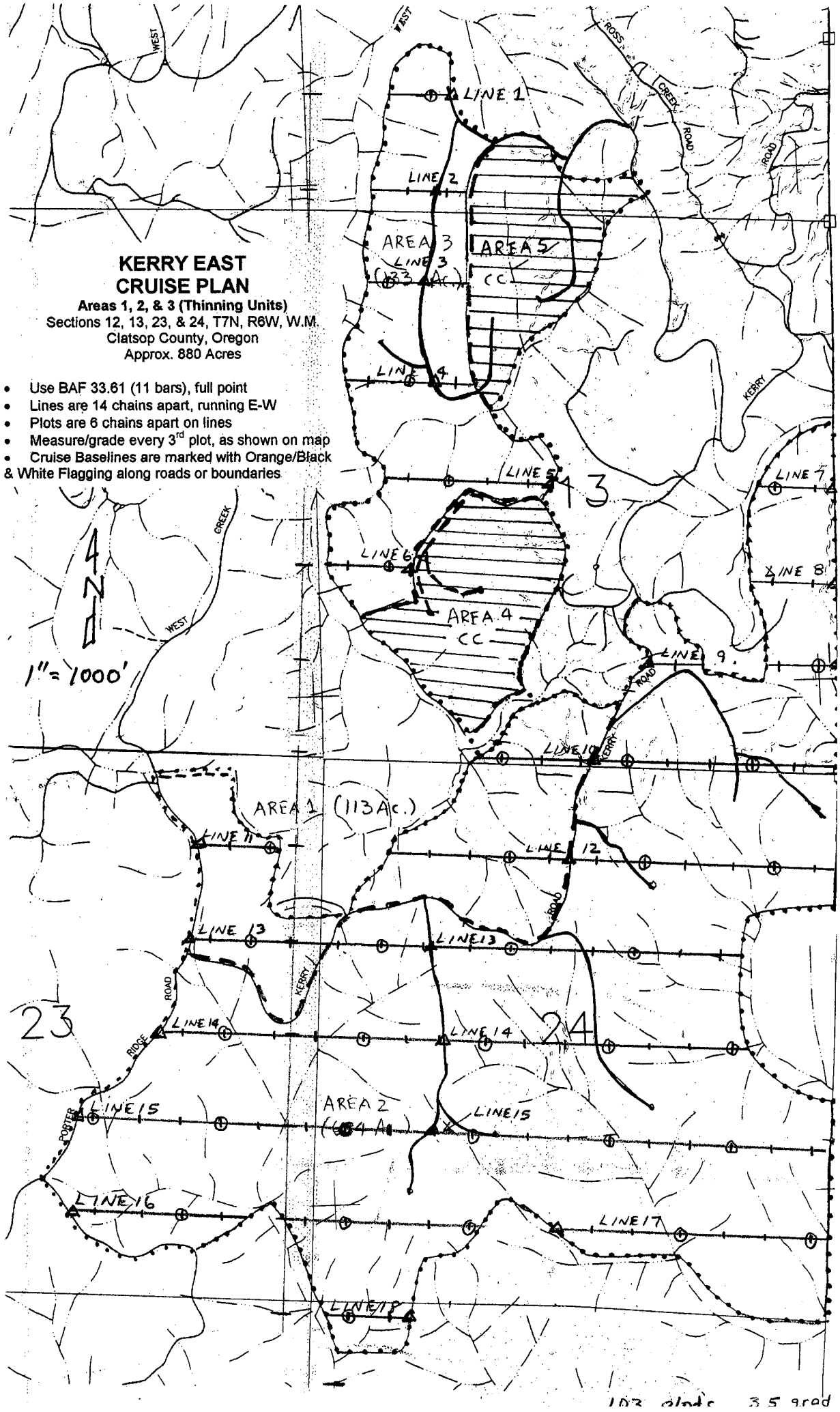
7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.

8. **Standard Field Procedures:** Plot Type Cruises: Mark cruise line beginning and end points with ~~blue/yellow~~ orange/blk & white flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at intervisible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.
ITS and 100% Cruises: Mark cruise "strips" with various colored flagging (not pink). Mark trees measured and graded with yellow paint.

9. **Cruising Equipment:** Relaskop Rangefinder Logger's Tape (with dbh on back) Biltmore Stick Compass Cruise Cards in Tatum OR Data Recorder Cruise Design Cruise Map Yellow Flagging Blue Flagging

10. **Attachments:** A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.
B. Data Recorder Instructions
C. Other

Cruise Design by: Tom Scoggins
Approved by: _____
Date: _____


KERRY EAST
CRUISE PLAN
Areas 1, 2, & 3 (Thinning Units)
Sections 12, 13, 23, & 24, T7N, R6W, W.M.
Clatsop County, Oregon
Approx. 880 Acres
• Use BAF 33.61 (11 bars), full point
• Lines are 14 chains apart, running E-W
• Plots are 6 chains apart on lines
• Measure/grade every 3rd plot, as shown on map
• Cruise Baselines are marked with Orange/Black & White Flagging along roads or boundaries
N
1" = 1000'
WEST
EAST
ROSS CREEK ROAD
KERRY ROAD
RIDGE ROAD
PORTER
AREA 1 (113Ac.)
AREA 2 (64 Ac.)
AREA 3 (33 Ac.)
AREA 4 CC
AREA 5 CC
LINE 1
LINE 2
LINE 3
LINE 4
LINE 5
LINE 6
LINE 7
LINE 8
LINE 9
LINE 10
LINE 11
LINE 12
LINE 13
LINE 14
LINE 15
LINE 16
LINE 17
LINE 18
13
23
24

8/14/03

Kerry East - Cruise Plan
Areas 1, 2, & 3 (Thinnings)

Estimated Acres: 880

Estimated CV: 40 %

Desired SE: 7 %
(total stand)

$$n = \frac{CV^2}{SE^2}$$

$$n = \frac{1600}{49}$$

$n = 32.65 \rightarrow 33$ plots

Est. Sale Value: $5,076,000

Est. CT Vol: 12.0 MMBF

Est. CT Value: $3,400,000

Est. CT Value/Acre: $3,864

Est. Leave Tree BA Range:
140 - 160 ft²
± 10/150 : 6.7 %

Est. 280 ft²/acre
Leave 150 ft²/acre
Take 130 ft²/acre
Use 33.6 BAF ≈ 4 take trees/plot

Objectives:
1) SE ≤ 7 %
2) ≥ 120 graded "take" trees
3) Adequate coverage of entire CT area

Plan for ≥33 "grade" plots; ≈100 total plots
Grade 1 in 3 plots.

Use 6 ch. x 14 ch. grid.

Revised August, 2002

CRUISE DESIGN
ASTORIA DISTRICT

Sale Name: Kerry East **Area(s)** 4 & 5 (CC)

Harvest Type: (CC) PC CT "Automark Thinning" (circle one)

Approx. Cruise Acres: 115 **Estimated CV%** 60% (Net BF or) BA/Acre **SE% Objective** 10% (Net BF or) BA/Acre

Planned Sale Volume: 16.8 MMBF **Estimated Sale Area Value/Acre:** $5,265

A. Cruise Goals: (a) Grade minimum 120 conifer and — hardwood trees: (b) Sample 40 cruise plots; (c) Other goals (____ Determine "automark" thinning standards; ✓ Determine log grades for sale value; ✓ Determine snag and leave tree species and sizes; ✓ Determine LWD (down wood) cubic feet and decay classes; ____ Determine "diameter limit" harvest parameters;
_____)

B. Cruise Design:

1. **Plot Cruises:** BAF 40 (Full point; Half point) (circle one)
   Fixed Plot Size ____ Plot Radius ____ feet
   Cruise Line Direction(s) See Map
   Cruise Line Spacing 7.0 (chains) (feet)
   Cruise Plot Spacing 4.0 (chains) (feet)
   Grade/Count Ratio 1:2
2. **ITS (Sample Tree) Cruises:** Measure-grade ratios: D-fir _____ Hemlock _____
   Spruce _____ True Fir _____ Cedar _____ Hardwood _____

C. Tree Measurements:

1. **Diameter:** Minimum DBH to cruise is 8 " for conifers and 8 " for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.

2. **Bole Length:** Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.

3. **Top Cruise Diameter (TCD):** Minimum top outside bark is 7 " or 40 % of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.

4. **Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

5. **Tree Segments:** Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch. segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.

6. **Species, Sort, and Grade Codes:** A. Species: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DL, HL, CL, etc.)
B. Sort: Use code "1" (Domestic).
C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; R = Camp Run; 0 = Cull

7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.

8. **Standard Field Procedures:** Plot Type Cruises: Mark cruise line beginning and end points with ~~blue/yellow~~ orange/black & white flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at intervisible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.
ITS and 100% Cruises: Mark cruise "strips" with various colored flagging (not pink). Mark trees measured and graded with yellow paint.

9. **Cruising Equipment:** Relaskop Rangefinder Logger's Tape (with dbh on back) Biltmore Stick Compass Cruise Cards in Tatum OR Data Recorder Cruise Design Cruise Map Yellow Flagging Blue Flagging

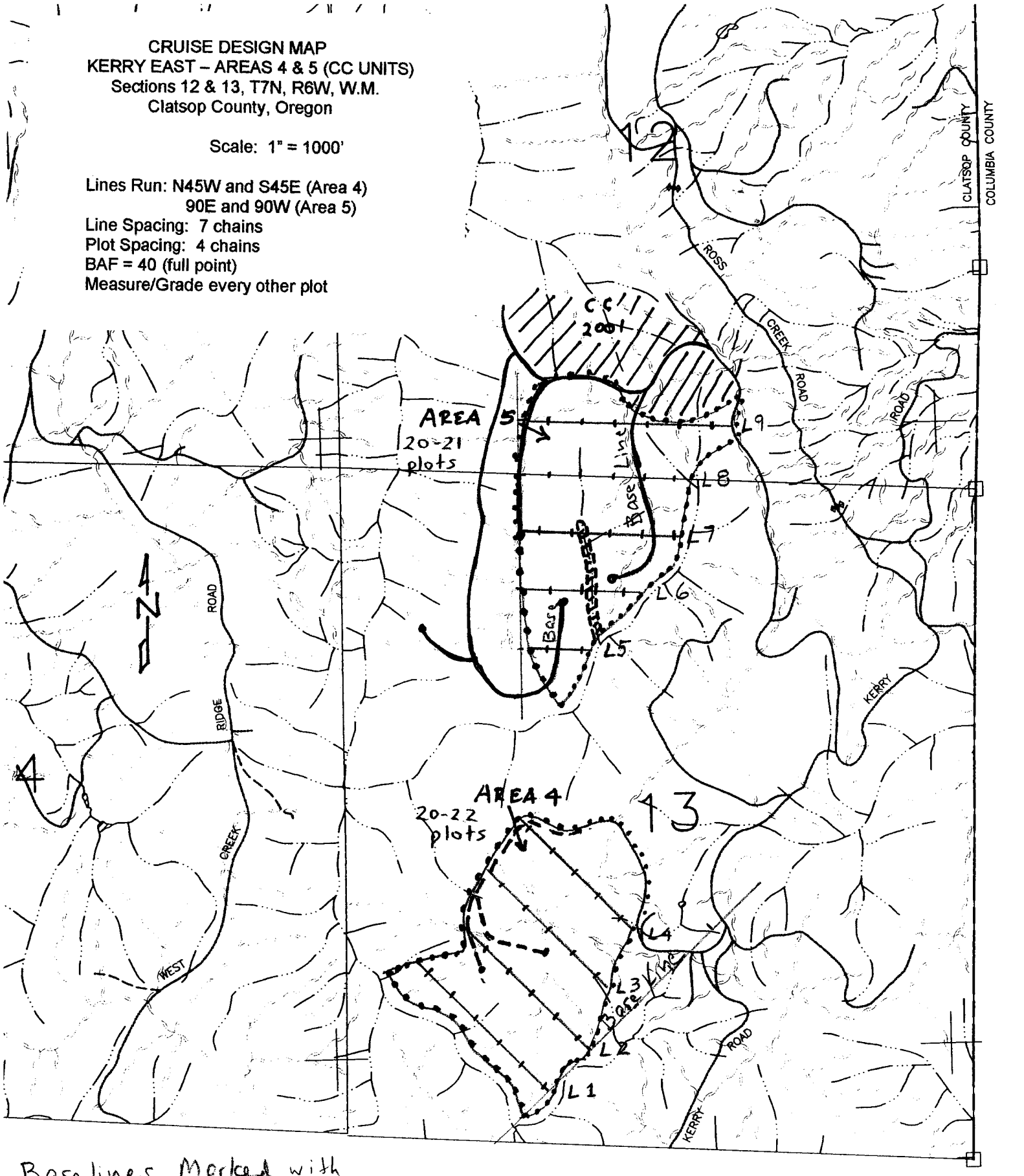
10. **Attachments:** A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.
B. Data Recorder Instructions
C. Other

Cruise Design by: Tom Scoggins
Approved by: _____
Date: _____

CRUISE DESIGN MAP
KERRY EAST – AREAS 4 & 5 (CC UNITS)
Sections 12 & 13, T7N, R6W, W.M.
Clatsop County, Oregon

Scale: 1" = 1000'

Lines Run: N45W and S45E (Area 4)
90E and 90W (Area 5)
Line Spacing: 7 chains
Plot Spacing: 4 chains
BAF = 40 (full point)
Measure/Grade every other plot



Baselines Marked with
Orange/Black & White Flagging

E 7470000 – 123°23'00"

471000 m

–123°22'00" E 74750(

T.S. 7/03

Revised August, 2002

CRUISE DESIGN
ASTORIA DISTRICT

Sale Name: Kerry East **Area(s)** 7 (R/W)

Harvest Type: (CC) PC CT "Automark Thinning" (circle one)

Approx. Cruise Acres: 5 **Estimated CV%** 40% (Net BF or BA/Acre) **SE% Objective** 12% (Net BF or BA/Acre)

Planned Sale Volume: 16.8 MMBF **Estimated Sale Area Value/Acre:** $5,265

A. **Cruise Goals:** (a) Grade minimum 36 conifer and 0 hardwood trees: (b) Sample 12 cruise plots; (c) Other goals (____ Determine "automark" thinning standards; X Determine log grades for sale value; ____ Determine snag and leave tree species and sizes; ____ Determine LWD (down wood) cubic feet and decay classes; ____ Determine "diameter limit" harvest parameters;
Outside sale road const. R/W in East Summit Rd. area

B. **Cruise Design:**

1. **Plot Cruises:** BAF 33.6 (Full point; Half point) (circle one)
   Fixed Plot Size ____ Plot Radius ____ feet
   Cruise Line Direction(s) Along road 9
   Cruise Line Spacing ____ (chains) (feet)
   Cruise Plot Spacing 300 (chains) (feet)
   Grade/Count Ratio 1:2
2. **ITS (Sample Tree) Cruises:** Measure-grade ratios: D-fir ____ Hemlock ____ Spruce ____ True Fir ____ Cedar ____ Hardwood ____

C. **Tree Measurements:**

1. **Diameter:** Minimum DBH to cruise is 8" for conifers and 8" for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.

2. **Bole Length:** Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.

3. **Top Cruise Diameter (TCD):** Minimum top outside bark is 7" or 40% of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.

4. **Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

5. **Tree Segments:** Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch. segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.

6. **Species, Sort, and Grade Codes:** A. Species: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DL, HL, CL, etc.)
B. Sort: Use code "1" (Domestic).
C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; R = Camp Run; 0 = Cull

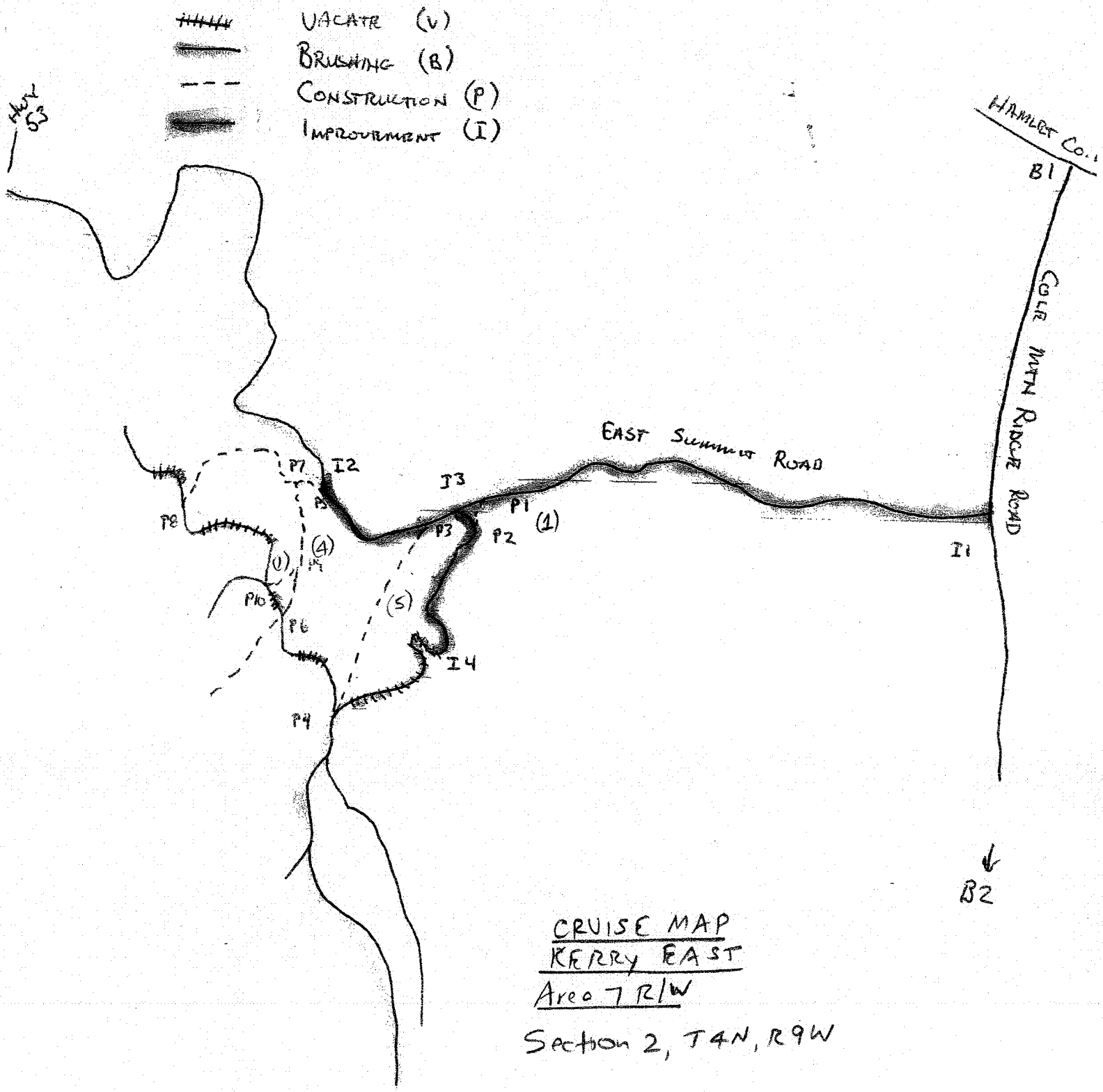
7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.

8. **Standard Field Procedures:** Plot Type Cruises: Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at intervisible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.
ITS and 100% Cruises: Mark cruise "strips" with various colored flagging (not pink). Mark trees measured and graded with yellow paint.

9. **Cruising Equipment:** Relaskop Rangefinder Logger's Tape (with dbh on back) Biltmore Stick Compass Cruise Cards in Tatum OR Data Recorder Cruise Design Cruise Map Yellow Flagging Blue Flagging

10. **Attachments:** A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.
B. Data Recorder Instructions
C. Other

Cruise Design by: Tom Scoggins
Approved by: _____
Date: 10/27/03



CRUISE MAP
KERRY EAST
Area 7 R/W
Section 2, T4N, R9W

3400' R/W

3400 x 45 = 153,000 ft²

3.5 Acres

Use 11 plots @ 300' spacing

FPA "Written Plan" for Harvest of State Timber
Sale No. 341-04-63
Kerry East

Portions of Sections 12, 13, 23, 24, and 25, T7N, R6W, W.M., Clatsop County, Oregon

Landowner: Oregon Department of Forestry
92219 Highway 202
Astoria, Oregon 97103
Phone: (503) 325-5451

Protected Resources:
West Creek (Type "F" And Type "D" stream) and several unnamed tributaries (all perennial Type "N" streams).
Type "F" tributaries to Fishhawk Creek, and several unnamed tributaries (all perennial Type "N" streams).

Specific Site Characteristics:
Most of the involved sale areas are partial cut units. Type F stream buffers are posted 100 to 200 feet from the streams. Harvest prescriptions within the partial cuts call for 150 square feet of average basal area retention of the largest trees. About 1700 feet of the boundary of a planned clearcut unit follows a buffer along the upper reaches of West Creek. The buffer is posted 100 to 200 feet from the stream. Vegetation within the buffers consists of a combination of conifers, hardwoods, and shrubs.

Tree and Vegetation Retention:
In all of the specified harvest areas, all trees and shrubs within the posted buffers will be retained and left undamaged. Additionally, within the thinning harvest units, upslope from the buffers, between 140 and 160 square feet of average basal area retention of the largest trees will provide sufficient shade and large down wood potential. All existing down wood will be left on site.

Practices:
Along all of the above mentioned streams, as well as any live streams, the following practices are required, under the timber sale contract, to protect the streams and streamside areas:

- No trees will be felled within posted stream buffers (RMA's).
- Trees adjacent to the posted stream buffers (RMA's) will be felled away from or parallel to the streams to prevent trees from entering the aquatic areas.
- No ground based logging equipment will be permitted within the posted RMA's nor within 50 feet of any live stream.
- When cable logging is conducted nearby the RMA's, logging lines may cross, but will not be lowered into the RMA's during yarding, except during rigging.

During rigging the lines must be pulled out of the RMA's when changing corridors.

- Cable corridors must be at least 100 feet apart where they cross the RMA's.
- Trees that fall or slide into Type F RMA's shall not be removed without prior approval from STATE.

I, the undersigned, submit this written plan in compliance with the requirements of the Forest Practices Act, regarding the planned operations to be conducted within 100 feet of Type F streams. I agree to the protection measures listed in this plan.

Submitted by: _____ Date: _____
Operator/ Purchaser

Reviewed by: Tom Scoggins Date: 11/26/03
State Lands Forester

Attachments: Exhibit A map

X:\Sunset Unit\2004 FY Sales\Kerry East\Sale Prep\Written Plan.doc

Logging Plan

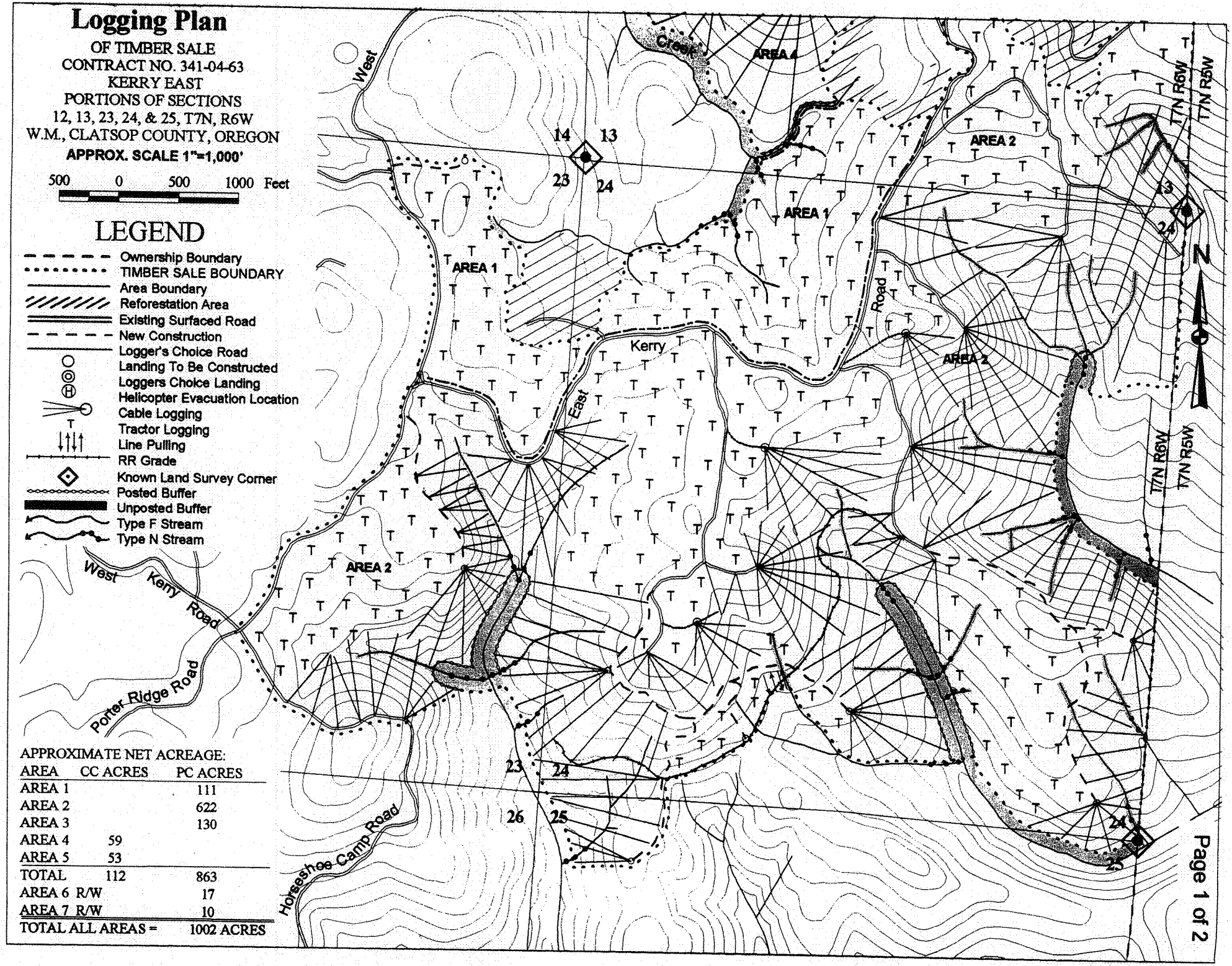
OF TIMBER SALE
CONTRACT NO. 341-04-63
KERRY EAST
PORTIONS OF SECTIONS
12, 13, 23, 24, & 25, T7N, R6W
W.M., CLATSOP COUNTY, OREGON

APPROX. SCALE 1"=1,000'

500 0 500 1000 Feet

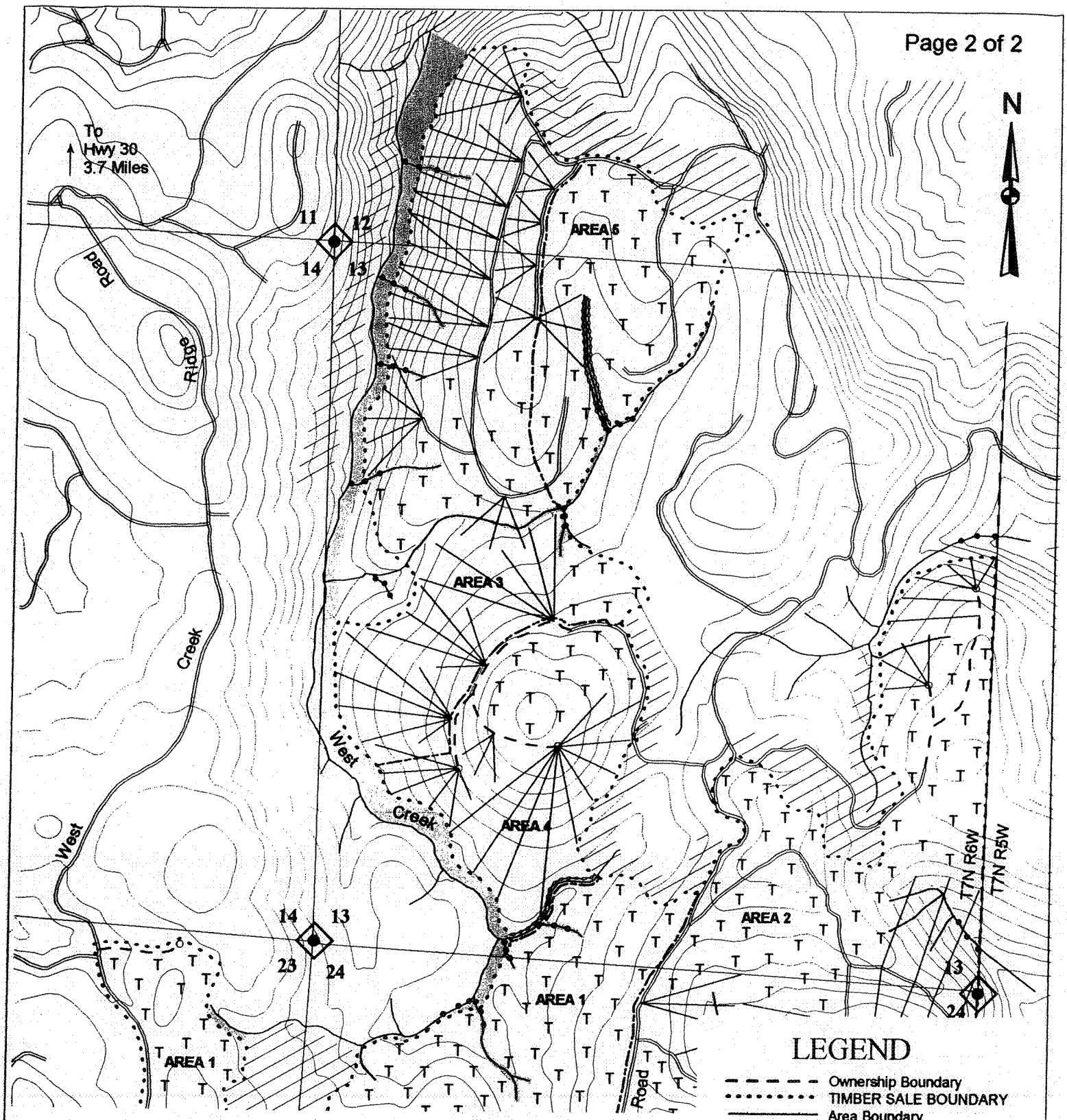
LEGEND

- Ownership Boundary
- TIMBER SALE BOUNDARY
- Area Boundary
- Reforestation Area
- Existing Surfaced Road
- New Construction
- Logger's Choice Road
- Landing To Be Constructed
- Loggers Choice Landing
- Helicopter Evacuation Location
- Cable Logging
- Tractor Logging
- Line Pulling
- RR Grade
- Known Land Survey Corner
- Posted Buffer
- Unposted Buffer
- Type F Stream
- Type N Stream



APPROXIMATE NET ACREAGE:

AREA	CC ACRES	PC ACRES
AREA 1		111
AREA 2		622
AREA 3		130
AREA 4	59	
AREA 5	53	
TOTAL	112	863
AREA 6 R/W		17
AREA 7 R/W		10
TOTAL ALL AREAS =		1002 ACRES



Logging Plan

OF TIMBER SALE
CONTRACT NO. 341-04-63
KERRY EAST
PORTIONS OF SECTIONS
12, 13, 23, 24 & 25, T7N, R6W
W.M., CLATSOP COUNTY, OREGON

APPROX. SCALE 1"=1,000'

500 0 500 1000 Feet

APPROXIMATE NET ACREAGE:

AREA	CC ACRES	PC ACRES
AREA 1		111
AREA 2		622
AREA 3		130
AREA 4	59	
AREA 5	53	
TOTAL	112	863
AREA 6 R/W		17
AREA 7 R/W		10
TOTAL ALL AREAS =		1002 ACRES

LEGEND

- Ownership Boundary
- TIMBER SALE BOUNDARY
- Area Boundary
- Reforestation Area
- Existing Surfaced Road
- New Construction
- Landing To Be Constructed
- Loggers Choice Landing
- Helicopter Evacuation Location
- Cable Logging
- T Tractor Logging
- Known Land Survey Corner
- Posted Buffer
- Unposted Buffer
- Type F Stream
- Type N Stream

FOREST PRACTICES ACT "WRITTEN PLAN"
For Project No. 1, Road Construction(High Fill)
Kerry East 341-04-63

Landowner: Oregon Department of Forestry
92219 Hwy 202
Astoria, OR 97103
(503) 325-5451

Protected Resources:
An unnamed small type N stream crossed with a fill which is over 15 feet high. A "written plan" is required for construction/reconstruction of any fill over 15 feet high.

Specific Site Characteristics:
A new road is planned to access a portion of Area 2 of the Kerry East Combination timber sale. On this new road (2G-2H) at 3+10 a fill which crosses a small stream is planned to exceed 15' in height.

Drainage Area and Culvert Design:
Current FPA guidelines were used to design the structure. A 24-inch diameter pipe will be installed in the small type N stream for added capacity. The fill will be "free draining." The fill slopes will be armored with pit-run rock to minimize surface erosion. The culvert design includes a 1:1 inlet beveled opening to improve culvert efficiency. The culvert will be constructed of corrugated, double-walled polyethylene. The design life for this culvert is a minimum of 50 years.

Resource Protection Measures:

1) Work will be performed only during dry weather periods, low water stream flows.
2) Pit-run rock will be used to armor both the inlet and outlet fill slopes to minimize erosion.
3) Machine activity in stream channels will be minimized. All excavation and pit-run rock placement will be performed using a minimum 1½ cubic yard track mounted excavator.
4) Selected native earth materials free from woody debris will be used for backfilling. Fill material will be thoroughly compacted with specialized compaction equipment.
5) Excavated waste materials will be hauled to approved waste areas and left in a stable condition.

I, the undersigned, submit this written plan in compliance with the requirements in the Forest Practices Act regarding the operations conducted during the construction of a 15 foot high fill. I agree to the protection measures listed on this plan:

Submitted: _____ Date: _____
Purchaser/Operator Contract Representative

Accepted: _____ Date: _____
State Lands Forester

Attachments: Exhibits A
Cross section diagram with peak flow calculations

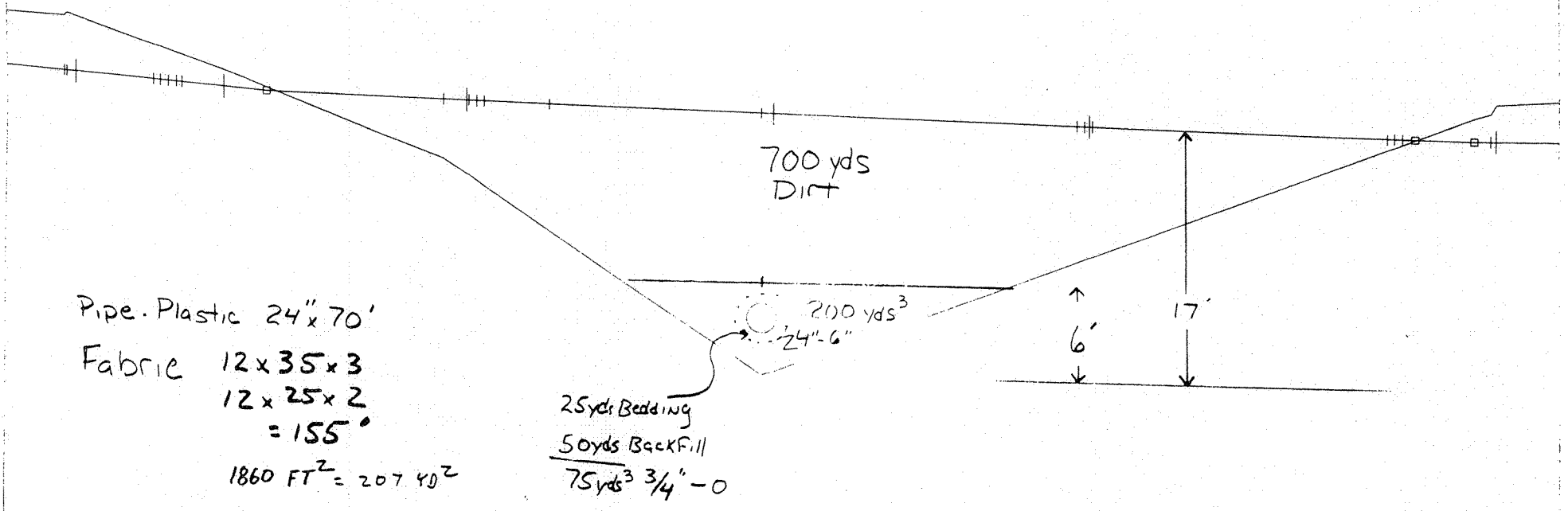
ROADENG Profile

C:\projects\KerryE\2G-2H_B_clv

Scale 1:120

03/11/05

3+00 To 3+30



Pipe. Plastic 24" x 70'

Fabric 12 x 35 x 3
12 x 25 x 2
= 155'

1860 FT² = 207 YD²

ROADENG Section
C:\projects\KerryE\2G-2H_B

Scale 1:120

P. 1
03/11/05

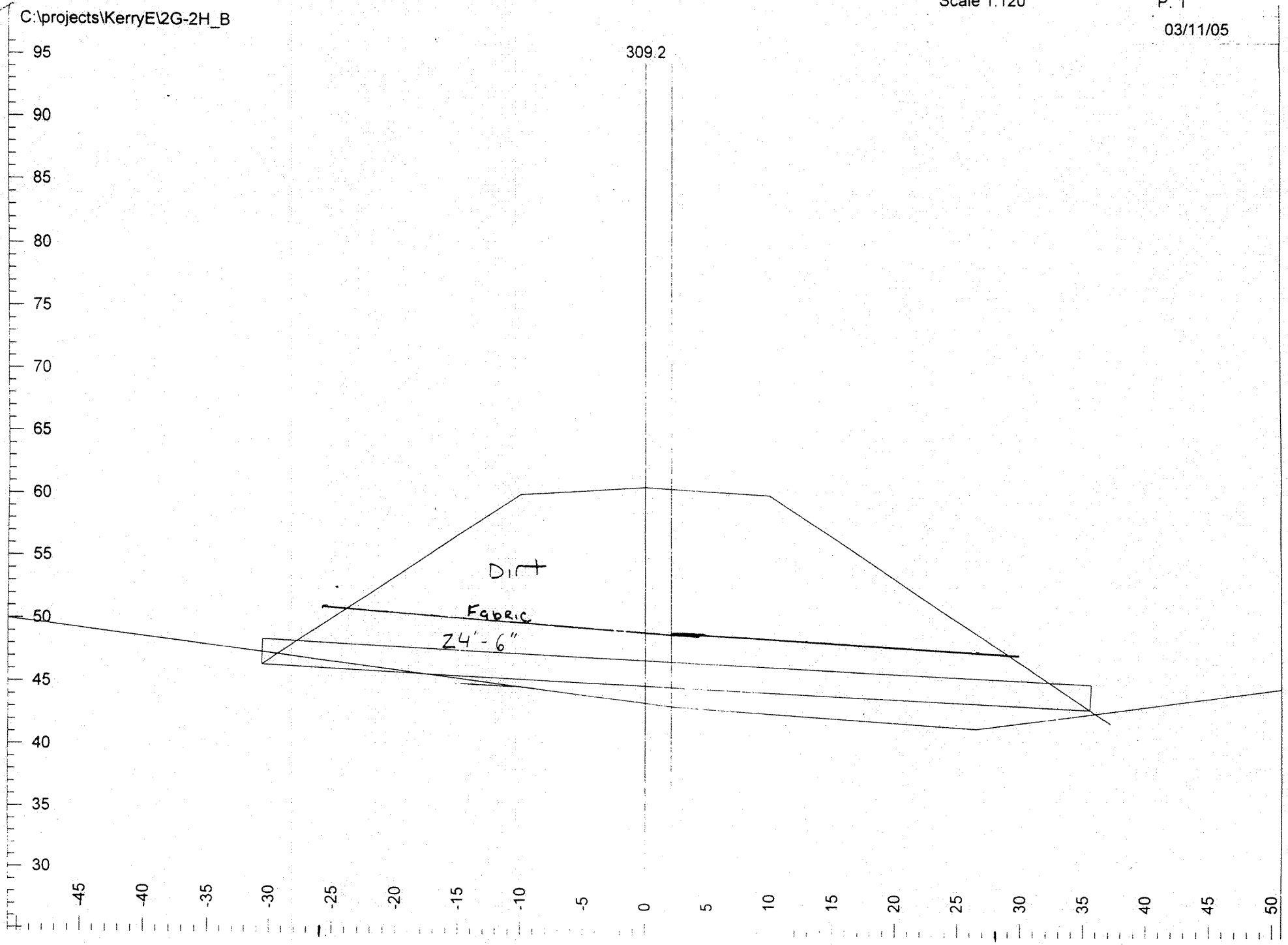


Exhibit "A"

OF TIMBER SALE
CONTRACT NO. 341-04-63
KERRY EAST
PORTIONS OF SECTIONS
12, 13, 23, 24, & 25, T7N, R6W
W.M., CLATSOP COUNTY, OREGON

APPROX. SCALE 1"=1,000'

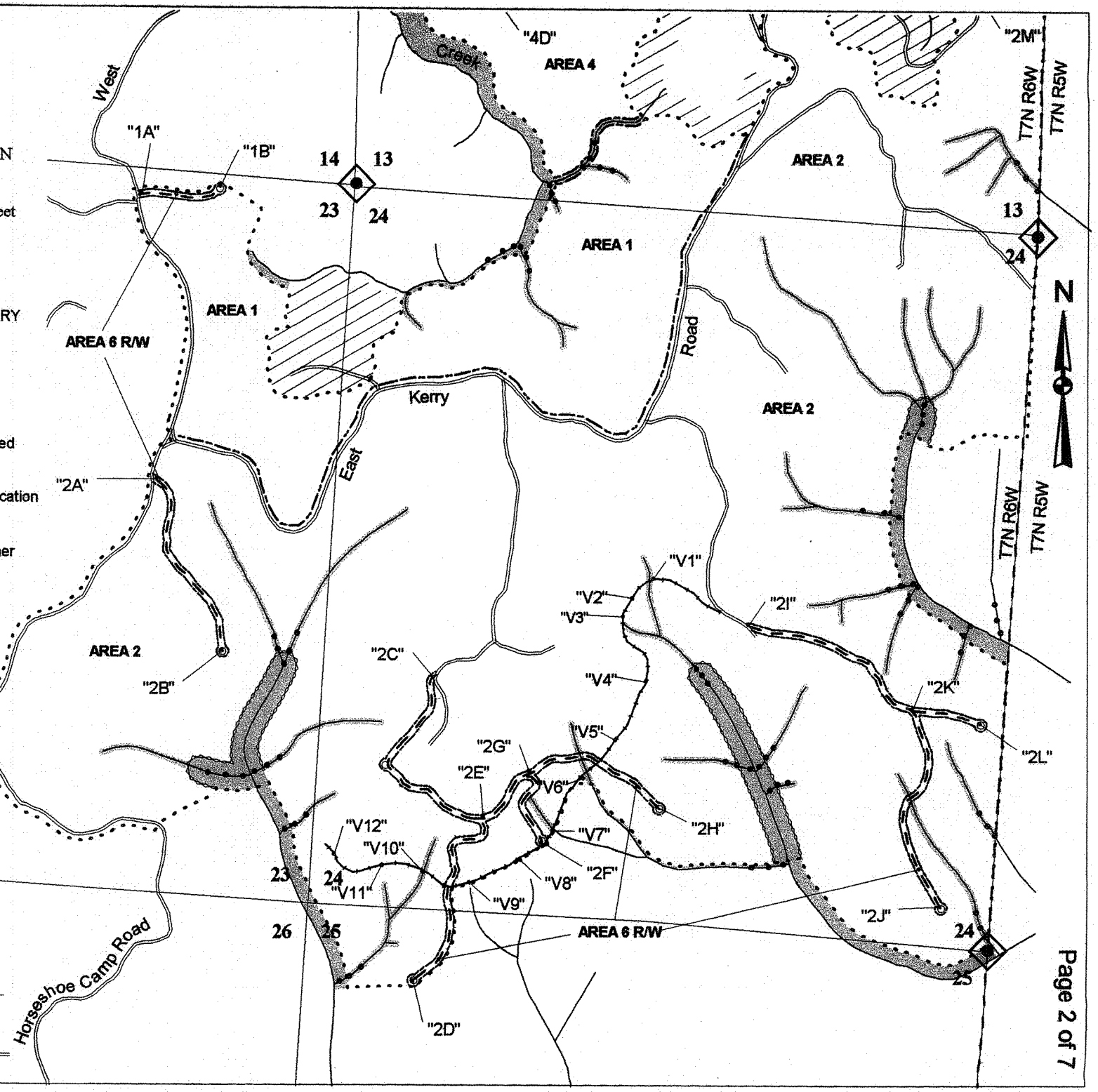
500 0 500 1000 Feet

LEGEND

- Ownership Boundary
- TIMBER SALE BOUNDARY
- Area Boundary
- Right Of Way Boundary
- Reforestation Area
- POINT "A" Point For Project Work
- Existing Surfaced Road
- New Construction
- Landing To Be Constructed
- Rock Quarry
- Stockpile Site
- Helicopter Evacuation Location
- Waste Area
- RR Grade
- Known Land Survey Corner
- Posted Buffer
- Unposted Buffer
- Type F Stream
- Type N Stream

APPROXIMATE NET ACREAGE:

AREA	CC ACRES	PC ACRES
AREA 1		111
AREA 2		622
AREA 3		130
AREA 4	59	
AREA 5	53	
TOTAL	112	863
AREA 6 R/W		17
AREA 7 R/W		10
TOTAL ALL AREAS =		1002 ACRES



Kerry East 341-04-63

Drainage Acre Caclulation for Fill at 3+10 2G to 2H

Drainage Area	= 5 Acres
5/640 = 0.0078125	= 0.0078125 square miles
50 year peak flow/square mile	= 150cfs
0.0078125X150	= 1.17cfs

FPA "Written Plan" for State Timber Sale Road Improvement
KERRY EAST TIMBER SALE

Landowner: Oregon Department of Forestry
92219 Highway 202
Astoria, OR 97103

(503) 325-5451

Soapstone Creek Road (Point I7 to Point I8, station 0+50) Portions of SE ¼ Section 10, T4N, R9W, W.M., Clatsop County, Oregon.

Protected Resources: West Fork Soapstone Creek, a large, Type F fisheries resources. A written plan is required for any activities within 100 feet of a Type F stream.

Situation: A 36 inch diameter culvert on Soapstone Creek Road is undersized and is failing. As part of the road improvement for the timber sale, this culvert will be replaced with a 48" drainage structure. Further detailed work specifications for this project are included as Project No. 2 of the Kerry East Combination Timber Sale Contract shown/described in Exhibits A, B, C, H and L.

Drainage Area and Culvert Design:

- The stream crossing drainage area is 73 acres.
- The stored stream sediment will be removed to restore the stream channel for a distance of 25 feet above the culvert inlet.
- The 50 year peak flow for this drainage is 450 cfs per square mile. Therefore, the 50 year flow for this stream crossing is 52 cfs. Current FPA guidelines require that a culvert with a minimum diameter of 48 inches is necessary to pass the 50 year peak flow.
- A 48 inch diameter, 12 gauge aluminized steel culvert will be installed.
- The fill slopes will be armored with riprap rock to minimize surface erosion. The culvert design includes a 1:1 beveled inlet opening to improve efficiency.

Resource Protection Measures:

1) Work will be performed only during dry weather periods, low water stream flows and between July 1 and September 15, annually.

2) Riprap rock will be used to armor the fill slopes to minimize erosion and to construct an energy dissipater.

3) Machine activity in stream channels will be minimized. All excavation and riprap rock placement will be performed using a minimum 1½ cubic-yard track-mounted excavator.

4) De-watering of the installation area during development of the culvert bed and stream channel will be accomplished by use of coffer dams, temporary diversion ditches, or drainage structures and/or damming and pumping.

5) Selected native earth materials free from woody debris will be used for backfilling. Fill material will be thoroughly compacted with specialized compaction equipment.

6) Excavated waste materials will be hauled to approved waste areas and left in a stable condition.

7) All bare soils shall be mulched with straw and grass seeded approved by STATE.

FPA "Written Plan" for State Timber Sale Road Improvement

KERRY EAST TIMBER SALE

I, the undersigned, submit this written plan in compliance with the requirements in the Forest Practices Act regarding the operations conducted when, fills work exceeds 15 feet in height. I agree to the protection measures listed on this plan:

Submitted by: _____ **Date:** _____
Operator/Purchaser

Accepted by: _____ **Date:** _____
State Lands Forester

Attachments: Projects Map
Contract Exhibits B,C,H, and L

CC: Operator, Purchaser, District file, Salem, Eng. Unit

X:\Sunset Unit\2004 FY Sales\Kerry East\Sale Prep\Projects\Written Plan soapstone.doc

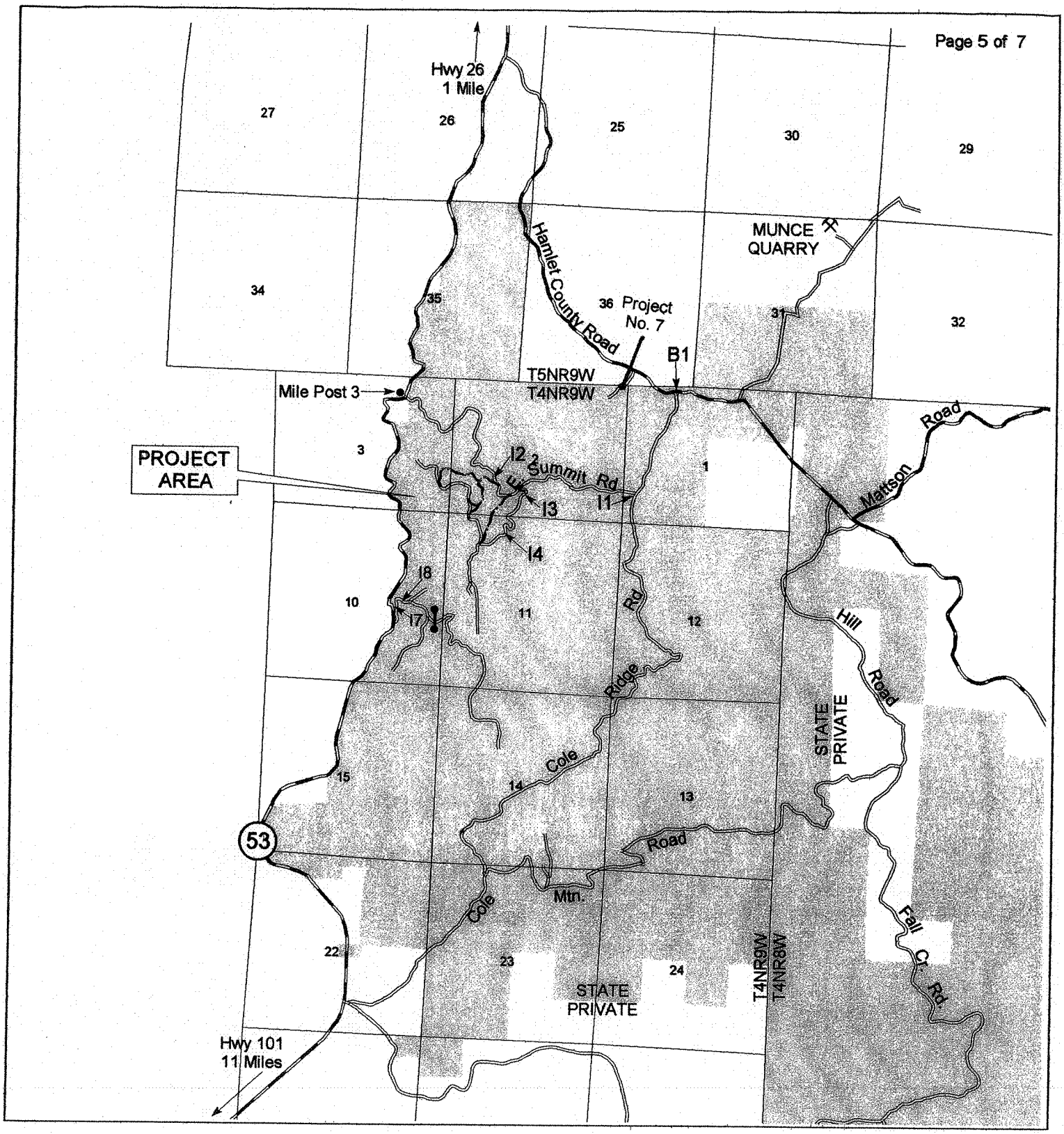


EXHIBIT "A"
Project Vicinity Map

OF TIMBER SALE CONTRACT NO. 341-04-63
KERRY EAST
PORTION OF T4N, R9W, W.M.,
CLATSOP COUNTY, OREGON

EXHIBIT "B"

ROAD IMPROVEMENT INSTRUCTIONS

SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS

Segment	Station	Work Description
I5 to I6 (Cont.)	38+15	Replace existing culvert, utilize 24 cubic yards of ¾"-0" crushed rock for culvert bedding/backfill. Utilize 12 cubic yards of riprap to construct an energy dissapator.
	44+35	Replace existing culvert, utilize 24 cubic yards of ¾"-0" crushed rock for culvert bedding/backfill. Utilize 12 cubic yards of riprap to construct an energy dissapator.
	49+35	Replace existing culvert, utilize 24 cubic yards of ¾"-0" crushed rock for culvert bedding/backfill. Utilize 12 cubic yards of riprap to construct an energy dissapator.
	53+90	Utilize 12 cubic yards of riprap to construct an energy dissapator.
	60+12	Utilize 12 cubic yards of riprap to construct an energy dissapator.
	65+65	Utilize 12 cubic yards of riprap to construct an energy dissapator.
	83+10	Utilize 12 cubic yards of riprap to construct an energy dissapator.
	88+35	Utilize 12 cubic yards of riprap to construct an energy dissapator.
	105+30	Replace existing culvert, utilize 24 cubic yards of ¾"-0" crushed rock for culvert bedding/backfill. Utilize 12 cubic yards of riprap to construct an energy dissapator.
	108+35	Replace existing culvert, utilize 24 cubic yards of ¾"-0" crushed rock for culvert bedding/backfill. Utilize 12 cubic yards of riprap to construct an energy dissapator.
	145+00	Install new culvert utilize 24 cubic yards of ¾"-0" crushed rock for culvert bedding/backfill. Utilize 12 cubic yards of riprap to construct an energy dissapator.
	180+60	Utilize 12 cubic yards of riprap to construct an energy dissapator.
	183+30	Point I6. Replace existing culvert, utilize 24 cubic yards of ¾"-0" crushed rock for culvert bedding/backfill.
I7 to I8	0+00	Point I7.
	0+50	Replace existing culvert, utilize 60 cubic yards of ¾"-0" crushed rock for culvert bedding/backfill. Armor fill slopes utilizing 40 cubic yards of 24"-6" riprap rock.
	1+70	Utilize 30 cubic yards of riprap to construct an energy dissipator.
	1+90	Point I8.

EXHIBIT "C"

CULVERT LIST

CULVERT NO.	DIAMETER (Inches)	LENGTH (Feet)	ROAD SEGMENT POINT TO POINT	STATION
44	18	40	I1 to I2	18+90
45	18	40	I1 to I2	25+20
46	18	50	I1 to I2	29+70
47	18	30	I1 to I2	35+10
48	18	45	I1 to I2	38+40
49	18	35	I1 to I2	42+45
50	18	35	I1 to I2	45+70
51	18	55	I1 to I2	49+65
52	18	35	I3 to I4	5+70
53	18	35	I3 to I4	9+20
54	18	33	I5 to I6	38+15
55	18	35	I5 to I6	44+35
56	18	35	I5 to I6	49+35
57	18	35	I5 to I6	105+30
58	18	35	I5 to I6	108+35
59	18	65	I5 to I6	183+30
60*	48 *(12 gauge Aluminized Steel)*	50	I7 to I8	0+50

*Indicates culverts that do not require markers.

State Timber Sale Contract
No. 341-04-63
Kerry East

EXHIBIT "L"

GRASS SEEDING AND MULCHING

This work shall consist of furnishing and placing required grass seed and straw mulch.

Seeding Seasons. Seeding shall be performed only from March 1 through June 15 and August 15 through October 31. Seeding materials shall not be applied during windy weather or when the ground is excessively wet or frozen. Work shall be performed during each specified seeding season on all completed and previously untreated sections. PURCHASER shall notify STATE 24 hours prior to seeding.

Application Methods for Grass Seed

Dry Method. Hand-operated seeding devices may be used when seed is applied in dry form.

Application Rates for Seed

Seed listed below shall be applied at the following rate per acre: 100 lbs.

SPECIES	MIXTURE	PURE LIVE SEED	POISON AND/OR REPELLENT	GERMINATION
Annual Rye	33%	95%	0	>90%
Orchard Grass	33%	95%	0	>90%
Perennial Rye	34%	95%	0	>90%

Seeding and Mulching. Apply grass seed and straw mulch to all waste areas, and bare soils resulting from Project No. 3. Applied straw mulch shall be a minimum of 2 inches deep and provide a uniform cover.