"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Ridge Pole (MC)
Sale 314-10-26

District: Astoria

Date: June 04, 2009

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$866,223.00	$13,287.70	$879,510.70
		Project Work:	$(23,333.00)
		Advertised Value:	$856,177.70

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Ridge Pole (MC)
Sale 314-10-26

District: Astoria **Date:** June 04, 2009

timber description

Location: Portions of Sections 14 and 15, T6N, R6W, W.M., Clatsop County, Oregon.

Stand Stocking: 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	95
Western Hemlock / Fir	18	0	97
Alder (Red)	17	0	95
Maple	21	0	95
Poles / Pilings - DF	22	0	95

Volume by Grade	2S	3S	4S	Camprun	Poles / P	Total
Douglas - Fir	3,426	706	54	0	0	4,186
Western Hemlock / Fir	141	26	0	0	0	167
Alder (Red)	0	0	0	55	0	55
Maple	0	0	0	2	0	2
Poles / Pilings - DF	0	0	0	0	150	150
Total	3,567	732	54	57	150	4,560

"STEWARDSHIP IN FORESTRY"

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Ridge Pole (MC)
Sale 314-10-26

District: Astoria **Date: June 04, 2009**

comments: Pond Values Used: 1st Quarter Calender Year 2009 + Local Pond Values.

Anticipated Log Markets: Mist, Clatskanie, Forest Grove, Tillamook, Garabaldi, Sheridan and Eugene, OR and Shelton, WA.

Local Pond Value Definitions:
Poles/Piling DF = Douglas-fir Poles/Piling (Long Poles)

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
$593.67/MBF = $720/MBF - $126.33/MBF

SCALING COST ALLOWANCE = $5.00/MBF

FUEL COST ALLOWANCE = $3.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to $700 daily truck cost.

Other Costs (with Profit & Risk to be added):
100% Branding and Painting: $1/MBF x 4,560 MBF = $4,560
Spur Closure:
75 Sta. x $13.85/sta. waterbar & block = $1,039
TOTAL Other Costs (with Profit & Risk to be added) = $5,599

Other Costs (No Profit & Risk to be added):
Slash Piling and landing piling in Area 1: 48 hours x $120/hour = $5,760
Excavator move-in = $945
TOTAL Other Costs (No Profit & Risk added) = $6,705

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Ridge Pole (MC)
Sale 314-10-26

District: Astoria **Date:** June 04, 2009

logging conditions

combination#: 1

Douglas - Fir	95.00%
Western Hemlock / Fir	95.00%
Alder (Red)	95.00%
Maple	95.00%
Poles / Pilings - DF	95.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process**: Manual Falling/Delimbing
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 11.0 **bd. ft / load:** 4,800
cost / mbf: $47.44

machines: Shovel Logger

combination#: 2

Douglas - Fir	4.00%
Western Hemlock / Fir	4.00%
Alder (Red)	4.00%
Maple	4.00%
Poles / Pilings - DF	4.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Track Skidder **Process**: Manual Falling/Delimbing
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 10.0 **bd. ft / load:** 4,800
cost / mbf: $71.68

machines: Log Loader (B)
Track Skidder

combination#: 3

Douglas - Fir	1.00%
Western Hemlock / Fir	1.00%
Alder (Red)	1.00%
Maple	1.00%
Poles / Pilings - DF	1.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process**: Manual Falling/Delimbing
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 1.0 **bd. ft / load:** 6,000
cost / mbf: $417.44

machines: Shovel Logger

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Ridge Pole (MC)
Sale 314-10-26

District: Astoria **Date:** June 04, 2009

logging costs

Operating Seasons:	2.00	**Profit Risk:**	15.00%
Project Costs:	$23,333.00	**Other Costs (P/R):**	$5,599.00
Slash Disposal:	$0.00	**Other Costs:**	$6,705.00

Miles of Road

Road Maintenance: $1.55

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	3.0	4.5
Western Hemlock / Fir	$0.00	2.0	4.0
Alder (Red)	$0.00	2.0	3.5
Maple	$0.00	2.0	2.5
Poles / Pilings - DF	$0.00	1.0	6.0

Local Pond Values

Date	Specie	Grade	Value
6/4/09	Poles / Pilings - DF	Poles / Pilings	$650.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Ridge Pole (MC)
Sale 314-10-26

District: Astoria **Date:** June 04, 2009

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
$52.11	$1.63	$1.92	$47.34	$1.23	$15.63	$0.00	$5.00	$1.47	$126.33
Western Hemlock / Fir									
$52.11	$1.60	$1.92	$78.37	$1.23	$20.28	$0.00	$5.00	$1.47	$161.98
Alder (Red)									
$52.11	$1.63	$1.92	$91.31	$1.23	$22.23	$0.00	$5.00	$1.47	$176.90
Maple									
$52.11	$1.63	$1.92	$127.83	$1.23	$27.71	$0.00	$5.00	$1.47	$218.90
Poles / Pilings - DF									
$52.11	$1.63	$1.92	$106.52	$1.23	$24.51	$0.00	$5.00	$1.47	$194.39

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$313.12	$186.79	$0.00
Western Hemlock / Fir	$0.00	$257.66	$95.68	$0.00
Alder (Red)	$0.00	$415.00	$238.10	$0.00
Maple	$0.00	$315.00	$96.10	$0.00
Poles / Pilings - DF	$0.00	$650.00	$455.61	$0.00

"STEWARDSHIP IN FORESTRY"

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Ridge Pole (MC)
Sale 314-10-26

District: Astoria **Date:** June 04, 2009

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00
Western Hemlock / Fir	0	$0.00	$0.00
Alder (Red)	0	$0.00	$0.00
Maple	0	$0.00	$0.00
Poles / Pilings - DF	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	4,186	$186.79	$781,902.94
Western Hemlock / Fir	167	$95.68	$15,978.56
Alder (Red)	55	$238.10	$13,095.50
Maple	2	$96.10	$192.20
Poles / Pilings - DF	150	$455.61	$68,341.50

Gross Timber Sale Value

Recovery: $879,510.70

Prepared by: Ty Williams **Phone:** 503-325-5451

SUMMARY OF ALL PROJECT COSTS

SALE NAME: Ridge Pole

NEW CONSTRUCTION:

	Road segment	Length/Sta		Cost	
Project No. 1					
Dirt Roads	1A-1B, 1C-1D, 1E-1F,	75.70		$20,218	
	1G-1H, 1I-1J, & 1K-1L.				
	TOTALS	75.70	1.4 mi.		$20,218

ROAD IMPROVEMENT:

Road segment	Length/Sta	Cost

MOVE IN:

Equipment	Cost	
Dozer (D8)	$1,220	
Grader (14G)	$675	
Excavator (C330)	$1,220	
TOTAL		$3,115

GRAND TOTAL **$23,333**

Compiled By: J. Long FL Date: 05/29/2009

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Ridge Pole (Field Design) (Dirt) **NEW CONSTRUCTION:** 75.70 **STATIONS** 1.43 **MILES**
ROAD: 1A-1B (20.9), 1C-1D (6.5), 1E-1F(3.7), **IMPROVEMENT:** **STATIONS** 0.00 **MILES**
1G-1H (19.8), 1I-1J(14.5), and 1K-1L(10.3).

CLEARING & GRUBBING

Method	Acres/amount	x	Rate	=	Cost
Scatter Outside of R/W	5.0	x	$1,161.00	=	$5,805.00

SUB TOTAL FOR CLEARING & GRUBBING $5,805

EXCAVATION

Material	Sta/amount	x	Rate	=	Cost
Balanced Construction	40.0	x	$106.00	=	$4,240.00
Common (Drift Earth up to 200') $$/sta.	35.7	x	$165.00	=	$5,890.50
Landing Construction $$/landing	6	x	$338.00	=	$2,028.00
1B, 1D, 1F, 1H, 1J, and 1K					

SUB TOTAL FOR EXCAVATION $12,159

OUTSLOPE & WATERBAR

	Description	Quantity	Rate	Cost
Other/miscellaneous:	Grade 14' outslope	75.70	$15.93	$1,205.90
	Waterbar and block	75.70	$13.85	$1,048.45

SUB TOTAL $2,254

Subtotal **$20,218**

TIMBER CRUISE REPORT
Ridge Pole
FY 2009

1. **Sale Area Location:** Areas are located in Portions of Sections 14 and 15 of T6N, R6W; W.M., Clatsop County, Oregon.

2. **Fund Distribution:** BOF 100%
   Tax Code 8-01 (100%)

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Existing R/W	New R/W	Stream Buffer	Net Acres	Survey Method
1	MC	105.0	0.0	5.0	5.0	95.0	GIS
2 R/W	In-Sale R/W	5.0	0.0	0.0	0.0	5.0	GIS
TOTALS		**110.0**	**0.0**	**5.0**	**5.0**	**100.0**	

4. Cruisers and Cruise Dates: Sale was cruised by Peter Stone, David Wolfgram, Jon Long, and Derek Bangs in February 2009.

5. Cruise Method and Computation:
Area 1 is 95 acres and was variable plot cruised using a 40 BAF. A total of 49 plots were sampled, with 21 measured and graded plots, and 28 count plots. These plots are located on a 3 by 7 chain grid, with every third plot measured and graded. Pole quality timber was tallied on each plot to establish an estimate of the percentage of poles within the stand. This percentage was applied against the Douglas-fir volume in Area 1 to estimate the amount of pole volume. All cedars are reserve species, and were recorded as "leave" trees. Wildlife trees and cedar were not included in the net volume.

Area 2 R/W The in-sale Right-of-Way area (5 acres) was extrapolated from the Area 1 cruise volume.

All cruisers 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.

AREA	CRUISE	TRACT	TYPE
1	06N06W SEC 15	Area 1	TAKE
2 R/W	05N06W SEC 15	ROW	RW

6. Timber Description:
Area 1 is approximately 70 years old, consisting of good quality Douglas-fir mixed with some true-fir, hemlock, alder and maple. Approximately four percent of the Douglas-fir trees are suitable for manufacturing of poles. The total stand volume averages approximately 43 MBF/acre net. It is estimated that approximately 1.5 MBF/acre will be removed as poles.

Area 2 R/W is approximately 70 years old, consisting of good quality Douglas-fir mixed with some true-fir, hemlock, and vinemaple pockets. The average volume (net) is approximately 43 MBF/acre.

7. Statistical Analysis and Stand Summary: (See "Statistics" - Type Reports, attached)

Statistics for Net B.F. Volumes

Area	Estimated CV	Target SE%	Actual CV	Actual SE%
1	50%	10%	40.1%	5.7%

TIMBER CRUISE REPORT
Ridge Pole

8. Volumes by Species and Log Grade: (See "Species, Sort, Grade - Type and Project Reports, Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

Total Stand Volume

Species	DBH	Net Vol.	2 Saw	3Saw	4 Saw	Camp Run	Poles	% D & B	% Sale
Douglas-fir	22"	4,186	3,426	706	54	0	0	2.7%	94%
Long Poles	22"	150	0	0	0	0	150	<1%	1%
Alder	17"	55	0	0	0	55	0	13.2%	1%
Hemlock/true-Fir	24"	167	141	26	0	0	0	1.7%	4%
Bigleaf Maple	21"	2	0	0	0	2	0	3%	<1%
TOTALS		**4,560**	**3,567**	**732**	**54**	**57**	**150**		

9. Approvals:

Prepared by: Jasen McCoy **Date:** May 21, 2009

Unit Forester Approval: [signature] **Date:** 6/1/09

10. Attachments:

Cruise Design - 2 pages
Cruise Map - 1 page
Volume Reports - 3 pages
Statistics Reports - 6 pages
Log Stock Tables - 2 pages

X:\Jewell_Unit\Timber Sales\2009\RidgePole\Sale Prep\Cruise\Cruise Report

Revised August, 2002

CRUISE DESIGN
ASTORIA DISTRICT

Sale Name: Ridge Pole **Area** 1

Harvest Type: (CC) Clearcut

Approx. Cruise Acres: 100 **Estimated CV%** 55 Net BF/Acre **SE% Objective** 11

Planned Sale Volume : 4,600 MBF **Estimated Sale Area Value/Acre:** $8,600/Ac
(43 MBF/Ac.)

A. Cruise Goals: (a) Grade minimum 75 conifer:
(b) Sample 37 cruise plots (1 grade/ 2 count); (c) Other goals (X Determine volume and quality; X Determine pole density for sale value

B. Cruise Design:

1. Plot Cruises: BAF 40 (Full point; Half point) (circle one)
Cruise Line Direction(s) AZ= 270° (East/West)
Cruise Line Spacing 7 (chains)
Cruise Plot Spacing 3 (chains)
Grade/Count Ratio 1/2

If a cruise line ends up paralleling in a buffer offset by 1 or 2 chains and continue. Take plots as marked on map. All cedar are leave trees. Tally pole grade Douglas-fir trees on each plot. Minimum DBH for poles is 18" with a minimum height of 60'. Maximum DBH for poles is 30".

C. Tree Measurements:

1. Diameter: Minimum DBH to cruise is 8" for conifers and 10" for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24".

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" for conifers and 7" for hardwoods 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
Hardwoods: R = CampRun

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. Be sure to look at **both sides of the tree**, especially if a pole/piling quality tree. Only one set of limb whorls per foot allowed for poles and piling.

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 inter-visible 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.

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, Yellow Paint.

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.

Cruise Design by: Lanny Freeman Approved by: _____ Date: 2/2/09

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

TT6N RR6W S15 TyTAK	95.00
TT6N RR6W S15 TyRW	5.00

Project: RPOLE
Acres 100.00

Page 1
Date 6/1/2009
Time 10:59:04AM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
D		DOCU														6		0.00	2.5
D		DO2S	82	2.2	36,556	35,762	3,576		3	33	65	0	1	19	80	37	440	2.27	81.2
D		DO3S	16	2.4	7,231	7,057	706		86	11	3	2	9	29	60	35	95	0.76	74.5
D		DO4S	2	29.3	760	538	54		97	3		35	53	12		22	26	0.51	20.5
D	**Totals**		95	2.7	44,547	43,357	4,336		17	29	54	1	3	21	76	34	243	1.49	178.7
A		DOCR	100	13.2	637	553	55	10	47	43		8	92			24	66	0.79	8.4
A	**Totals**		1	13.2	637	553	55	10	47	43		8	92			24	66	0.79	8.4
SF		DOCU														6		0.00	.3
SF		DO2S	94	1.8	683	671	67			14	86				100	39	670	2.95	1.0
SF		DO3S	6		40	40	4		100				100			25	79	0.95	.5
SF	**Totals**		2	1.7	723	710	71		6	14	81		6		94	30	402	2.40	1.8
H		DO2S	76		739	739	74			100					100	40	200	1.28	3.7
H		DO3S	24		222	222	22		100						100	40	60	0.49	3.7
H	**Totals**		2		961	961	96		23	77					100	40	130	0.88	7.4
M		DOCU														8		0.00	.0
M		DOCR	100		21	21	2		14	38	49	44	56			23	119	1.23	.2
M	**Totals**		0		21	21	2		14	38	49	44	56			21	105	1.18	.2
Totals				2.7	46,888	45,602	4,560	0	18	30	52	1	4	20	75	34	232	1.45	196.4

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: RPOLE

Page 1
Date 6/1/2009
Time 11:00:09AM

TT6N RR6W S15 TTAKE

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
T6N	R6W	15	AREA1	TAKE	95.00	49	86	S	W

TT6N RR6W S15 TTAKE

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		DO	CU														6		0.00	2.5
D		DO	2S	82	2.2	36,556	35,762	3,397		3	33	65	0	1	19	80	37	440	2.27	81.2
D		DO	3S	16	2.4	7,231	7,057	670		86	11	3	2	9	29	60	35	95	0.76	74.5
D		DO	4S	2	29.3	760	538	51		97	3		35	53	12		22	26	0.51	20.5
D	**Totals**			95	2.7	44,547	43,357	4,119		17	29	54	1	3	21	76	34	243	1.49	178.7
A		DO	CR	100	13.2	637	553	53	10	47	43		8	92			24	66	0.79	8.4
A	**Totals**			1	13.2	637	553	53	10	47	43		8	92			24	66	0.79	8.4
H		DO	2S	76		739	739	70			100					100	40	200	1.28	3.7
H		DO	3S	24		222	222	21		100						100	40	60	0.49	3.7
H	**Totals**			2		961	961	91		23	77					100	40	130	0.88	7.4
SF		DO	CU														6		0.00	.3
SF		DO	2S	94	1.8	683	671	64			14	86				100	39	670	2.95	1.0
SF		DO	3S	6		40	40	4		100				100			25	79	0.95	.5
SF	**Totals**			2	1.7	723	710	67		6	14	81		6		94	30	402	2.40	1.8
Type Totals					2.7	46,867	45,581	4,330	0	18	30	52	1	4	20	76	34	232	1.45	196.2

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: RPOLE

Page 1
Date 6/1/2009
Time 11:00:09AM

TT6N RR6W S15 TRW

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
T6N	R6W	15	ROW	RW	5.00	49	88	S	W

TT6N RR6W S15 TRW

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		DO	CU														6		0.00	2.5
D		DO	2S	82	2.2	36,556	35,762	179		3	33	65	0	1	19	80	37	440	2.27	81.2
D		DO	3S	16	2.4	7,231	7,057	35		86	11	3	2	9	29	60	35	95	0.76	74.5
D		DO	4S	2	29.3	760	538	3		97	3		35	53	12		22	26	0.51	20.5
D	**Totals**			94	2.7	44,547	43,357	217		17	29	54	1	3	21	76	34	243	1.49	178.7
A		DO	CR	100	13.2	637	553	3	10	47	43		8	92			24	66	0.79	8.4
A	**Totals**			1	13.2	637	553	3	10	47	43		8	92			24	66	0.79	8.4
H		DO	2S	76		739	739	4			100					100	40	200	1.28	3.7
H		DO	3S	24		222	222	1		100						100	40	60	0.49	3.7
H	**Totals**			2		961	961	5		23	77					100	40	130	0.88	7.4
M		DO	CU														8		0.00	.4
M		DO	CR	100		413	413	2		14	38	49	44	56			23	119	1.23	3.5
M	**Totals**			1		413	413	2		14	38	49	44	56			21	105	1.18	3.9
SF		DO	CU														6		0.00	.3
SF		DO	2S	94	1.8	683	671	3			14	86				100	39	670	2.95	1.0
SF		DO	3S	6		40	40	0		100				100			25	79	0.95	.5
SF	**Totals**			2	1.7	723	710	4		6	14	81		6		94	30	402	2.40	1.8
Type Totals					2.7	47,280	45,994	230	0	18	30	52	1	4	20	75	34	230	1.45	200.1

TC TSTATS

STATISTICS

PROJECT RPOLE

DATE 6/1/2009

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T6N	R6W	15	AREA1	TAKE	95.00	49	259	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	49	259	5.3		
CRUISE	21	86	4.1	7,684	1.1
DBH COUNT					
REFOREST					
COUNT	28	161	5.8		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
D	80	72.5	22.3	88		195.9	44,547	43,357	9,081	9,081
A	2	4.2	16.9	50		6.5	637	553	157	157
H	2	3.7	18.0	82		6.5	961	961	261	261
PS FIR	2	.5	30.0	110	0	2.4	723	710	129	129
TOTAL	*86*	*80.9*	*21.9*	*86*		*211.4*	*46,867*	*45,581*	*9,628*	*9,628*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL: 68.1 %	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	67.4	7.5	831	899	966			
A	26.2	24.5	102	135	168			
H								
PS FIR	23.2	21.7	1,124	1,435	1,746			
TOTAL	*68.2*	*7.4*	*823*	*889*	*955*	*186*	*46*	*21*

CL: 68.1 %	COEFF		SAMPLE TREES - CF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	59.7	6.7	169	181	193			
A	22.4	21.0	30	38	46			
H								
PS FIR	13.9	13.0	225	259	292			
TOTAL	*60.0*	*6.5*	*167*	*179*	*191*	*144*	*36*	*16*

CL: 68.1 %	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	57.8	8.2	67	72	78			
A	339.2	48.4	2	4	6			
H	260.7	37.2	2	4	5			
PS FIR	396.3	56.6	0	1	1			
TOTAL	*53.2*	*7.6*	*75*	*81*	*87*	*113*	*28*	*13*

CL: 68.1 %	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	44.7	6.4	183	196	208			
A	338.9	48.4	3	7	10			
H	260.7	37.2	4	7	9			
PS FIR	395.6	56.5	1	2	4			
TOTAL	*40.9*	*5.8*	*199*	*211*	*224*	*67*	*17*	*7*

CL: 68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	43.8	6.2	40,649	43,357	46,065			
A	339.0	48.4	285	553	820			
H	260.7	37.2	603	961	1,318			
PS FIR	397.0	56.7	308	710	1,113			
TOTAL	*40.1*	*5.7*	*42,972*	*45,581*	*48,190*	*64*	*16*	*7*

STATISTICS

PROJECT RPOLE

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T6N	R6W	15	AREA1	TAKE	95.00	49	259	S	W

CL: 68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15

CL: 68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	44.2	6.3	8,508	9,081	9,654			
A	338.9	48.4	81	157	233			
H	260.7	37.2	164	261	358			
PS FIR	395.8	56.5	56	129	201			
TOTAL	*40.4*	*5.8*	*9,073*	*9,628*	*10,183*	*65*	*16*	*7*

TC TSTATS

STATISTICS

PROJECT RPOLE

DATE 6/1/2009

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T6N	R6W	15	ROW	RW	5.00	49	264	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	49	264	5.4		
CRUISE	21	88	4.2	413	21.3
DBH COUNT					
REFOREST					
COUNT	28	164	5.9		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
D	80	72.5	22.3	88		195.9	44,547	43,357	9,081	9,081
A	2	4.2	16.9	50		6.5	637	553	157	157
H	2	3.7	18.0	82		6.5	961	961	261	261
M	2	1.7	20.7	49		4.1	413	413	96	96
PS FIR	2	.5	30.0	110	0	2.4	723	710	129	129
TOTAL	*88*	*82.6*	*21.9*	*85*		*215.5*	*47,280*	*45,994*	*9,724*	*9,724*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL: 68.1 %	COEFF		**SAMPLE TREES - BF**			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	67.4	7.5	831	899	966			
A	26.2	24.5	102	135	168			
H								
M	81.4	76.2	78	330	582			
PS FIR	23.2	21.7	1,124	1,435	1,746			
TOTAL	*69.1*	*7.4*	*811*	*876*	*941*	*191*	*48*	*21*

CL: 68.1 %	COEFF		**SAMPLE TREES - CF**			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	59.7	6.7	169	181	193			
A	22.4	21.0	30	38	46			
H								
M	77.1	72.2	21	76	130			
PS FIR	13.9	13.0	225	259	292			
TOTAL	*60.8*	*6.5*	*165*	*177*	*188*	*148*	*37*	*16*

CL: 68.1 %	COEFF		**TREES/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	57.8	8.2	67	72	78			
A	339.2	48.4	2	4	6			
H	260.7	37.2	2	4	5			
M	373.4	53.3	1	2	3			
PS FIR	396.3	56.6	0	1	1			
TOTAL	*51.6*	*7.4*	*77*	*83*	*89*	*106*	*27*	*12*

CL: 68.1 %	COEFF		**BASAL AREA/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	44.7	6.4	183	196	208			
A	338.9	48.4	3	7	10			
H	260.7	37.2	4	7	9			
M	360.3	51.4	2	4	6			
PS FIR	395.6	56.5	1	2	4			
TOTAL	*39.5*	*5.6*	*203*	*216*	*228*	*62*	*16*	*7*

CL: 68.1 %	COEFF		**NET BF/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	43.8	6.2	40,649	43,357	46,065			
A	339.0	48.4	285	553	820			

TC TSTATS

STATISTICS

PROJECT RPOLE

DATE 6/1/2009

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T6N	R6W	15	ROW	RW	5.00	49	264	S	W

CL: 68.1%	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
H	260.7	37.2	603	961	1,318			
M	361.2	51.6	200	413	625			
PS FIR	397.0	56.7	308	710	1,113			
TOTAL	*39.4*	*5.6*	*43,405*	*45,994*	*48,582*	*62*	*16*	*7*

CL: 68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	44.2	6.3	8,508	9,081	9,654			
A	338.9	48.4	81	157	233			
H	260.7	37.2	164	261	358			
M	360.7	51.5	47	96	146			
PS FIR	395.8	56.5	56	129	201			
TOTAL	*39.6*	*5.6*	*9,175*	*9,724*	*10,273*	*62*	*16*	*7*

TC PSTATS

PROJECT STATISTICS

PROJECT RPOLE

DATE 6/1/2009

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T6N	R6	15	AREA1	TAKE	100.00	98	523	S	W
T6N	R6W	15	ROW	RW					

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	98	523	5.3		
CRUISE	42	174	4.1	8,097	2.1
DBH COUNT					
REFOREST					
COUNT	56	325	5.8		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
D	160	72.5	22.3	88		195.9	44,547	43,357	9,081	9,081
A	4	4.2	16.9	50		6.5	637	553	157	157
H	4	3.7	18.0	82		6.5	961	961	261	261
PS FIR	4	.5	30.0	110	0	2.4	723	710	129	129
M	2	.1	20.7	49		.2	21	21	5	5
TOTAL	*174*	*81.0*	*21.9*	*86*		*211.6*	*46,888*	*45,602*	*9,633*	*9,633*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
D	67.2	5.3	851	899	946			
A	21.4	12.2	119	135	151			
H			520	520	520			
PS FIR	18.9	10.8	1,280	1,435	1,590			
M	81.4	76.2	78	330	582			
TOTAL	*68.5*	*5.2*	*836*	*882*	*928*	*187*	*47*	*21*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
D	59.5	4.7	172	181	189			
A	18.3	10.5	34	38	42			
H			141	141	141			
PS FIR	11.4	6.5	242	259	276			
M	77.1	72.2	21	76	130			
TOTAL	*60.2*	*4.6*	*170*	*178*	*186*	*145*	*36*	*16*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
D	119.0	12.0	64	72	81			
A	462.9	46.7	2	4	6			
H	360.4	36.4	2	4	5			
PS FIR	538.0	54.3	0	1	1			
M	534.8	54.0	0	0	0			
TOTAL	*114.9*	*11.6*	*72*	*81*	*90*	*527*	*132*	*59*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
D	108.5	10.9	174	196	217			
A	462.5	46.7	3	7	10			
H	360.4	36.4	4	7	9			
PS FIR	537.2	54.2	1	2	4			
M	516.8	52.2	0	0	0			
TOTAL	*105.5*	*10.7*	*189*	*212*	*234*	*445*	*111*	*49*

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T6N	R6	15	AREA1	TAKE	100.00	98	523	S	W
T6N	R6W	15	ROW	RW					

CL 68.1	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	107.8	10.9	38,641	43,357	48,073			
A	462.6	46.7	295	553	811			
H	360.4	36.4	611	961	1,310			
PS FIR	539.0	54.4	324	710	1,097			
M	518.0	52.3	10	21	31			
TOTAL	*105.1*	*10.6*	*40,764*	*45,602*	*50,439*	*441*	*110*	*49*

CL 68.1	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
D	108.1	10.9	8,090	9,081	10,072			
A	462.6	46.7	84	157	230			
H	360.4	36.4	166	261	356			
PS FIR	537.4	54.2	59	129	198			
M	517.3	52.2	2	5	7			
TOTAL	*105.3*	*10.6*	*8,609*	*9,633*	*10,656*	*443*	*111*	*49*

TC PLOGSTVB

Log Stock Table - MBF

TT6N RR6W S15 TyTAK	95.00
TT6N RR6W S15 TyRW	5.00

Project: RPOLE
Acres 100.00

Date 6/1/2009
Time 10:59:04AM

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	2S	20	9		9	.2								9				
D		DO	2S	21	9		9	.2							9					
D		DO	2S	22	7		7	.2					7							
D		DO	2S	30	5		5	.1						5						
D		DO	2S	32	694		692	16.0					16	107	128	276	131	33		
D		DO	2S	40	2,931	2.6	2,854	65.8					67	141	342	885	1070	307	41	
D		DO	3S	19	9		9	.2				5	3							
D		DO	3S	20	3		3	.1			3									
D		DO	3S	22	6		6	.1				3	3							
D		DO	3S	24	3		3	.1				3								
D		DO	3S	25	10		10	.2			7	4								
D		DO	3S	26	4		4	.1					4							
D		DO	3S	27	12		12	.3				12								
D		DO	3S	29	24		24	.6				12	13							
D		DO	3S	30	4		4	.1				4								
D		DO	3S	32	152		151	3.5			10	73	44	15		9				
D		DO	3S	33	20		20	.5			10	5	5							
D		DO	3S	34	10		10	.2				4	6							
D		DO	3S	35	23		23	.5				23								
D		DO	3S	36	28	13.3	24	.6			19	6								
D		DO	3S	37	24		24	.6			12		7	5						
D		DO	3S	38	12		12	.3			5		7							
D		DO	3S	39	22		22	.5			7	7	7							
D		DO	3S	40	356	3.5	344	7.9			94	13	166	25	22			23		
D		DO	4S	12	2	16.7	2	.0						2						
D		DO	4S	16	8		8	.2			8									
D		DO	4S	17	2		2	.0				2								
D		DO	4S	18	3		3	.1			3									
D		DO	4S	20	5		5	.1			5									
D		DO	4S	21	3		3	.1			3									
D		DO	4S	22	3		3	.1				3								
D		DO	4S	23	3		3	.1				3								
D		DO	4S	24	31	69.7	10	.2				6	4							
D		DO	4S	25	7		7	.2			7									
D		DO	4S	27	4		4	.1			4									
D		DO	4S	31	6		6	.1			6									
D		Totals			4,455	2.7	4,336	95.1			201	187	361	300	501	1179	1201	364	41	

TC PLOGSTVB

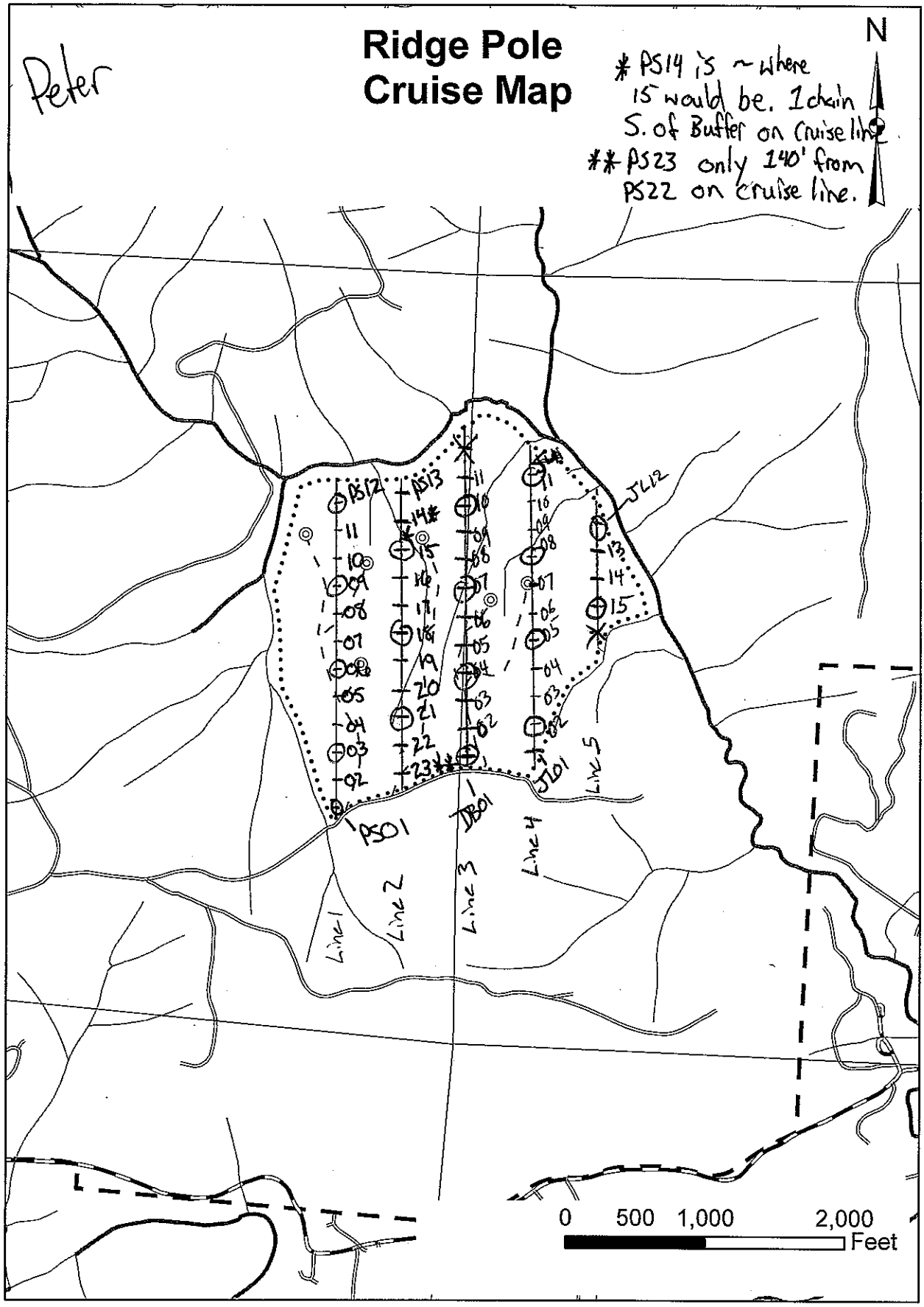
Log Stock Table - MBF

TT6N RR6W S15 TyTAK	95.00
TT6N RR6W S15 TyRW	5.00

Project: RPOLE
Acres 100.00

Date 6/1/2009
Time 10:59:04AM

Spp	S T	So	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		DO	CR	15	5		5	8.5			5									
A		DO	CR	24	28	13.3	24	43.4						24						
A		DO	CR	27	6		6	10.0		6										
A		DO	CR	30	26	18.2	21	38.1					21							
A		Totals			64	13.2	55	1.2		6	5		21	24						
SF		DO	2S	38	21	2.5	21	28.9									21			
SF		DO	2S	40	47	1.5	47	65.5							10	11		26		
SF		DO	3S	22	2		2	3.0					2							
SF		DO	3S	28	2		2	2.6				2								
SF		Totals			72	1.7	71	1.6				2	2		10	11	21	26		
H		DO	2S	40	74		74	76.9						74						
H		DO	3S	40	22		22	23.1			22									
H		Totals			96		96	2.1			22			74						
M		DO	CR	20	1		1	43.9			0			1						
M		DO	CR	30	1		1	56.1				0				1				
M		Totals			2		2	.0			0	0		1		1				
Total		All Species			4,689	2.7	4,560	100.0		6	228	189	384	399	510	1191	1222	390	41	


Peter
Ridge Pole
Cruise Map
* PS14 is ~ where 15 would be. 1 chain S. of Buffer on cruise line.
** PS23 only 140' from PS22 on cruise line.
N
PS12
PS13
JL12
JL01
JB01
PS01
Line 1
Line 2
Line 3
Line 4
Line 5
0 500 1,000 2,000
Feet

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-10-26
RIDGE POLE
PORTIONS OF SECTIONS 14 AND 15, T6N, R6W,
W.M., CLATSOP COUNTY, OR

Approximate Net Acreage:
Area 1 (PC) - 95 Acres
Area 2 (R/W)- 5 Acres
Total Acreage = 100 Acres

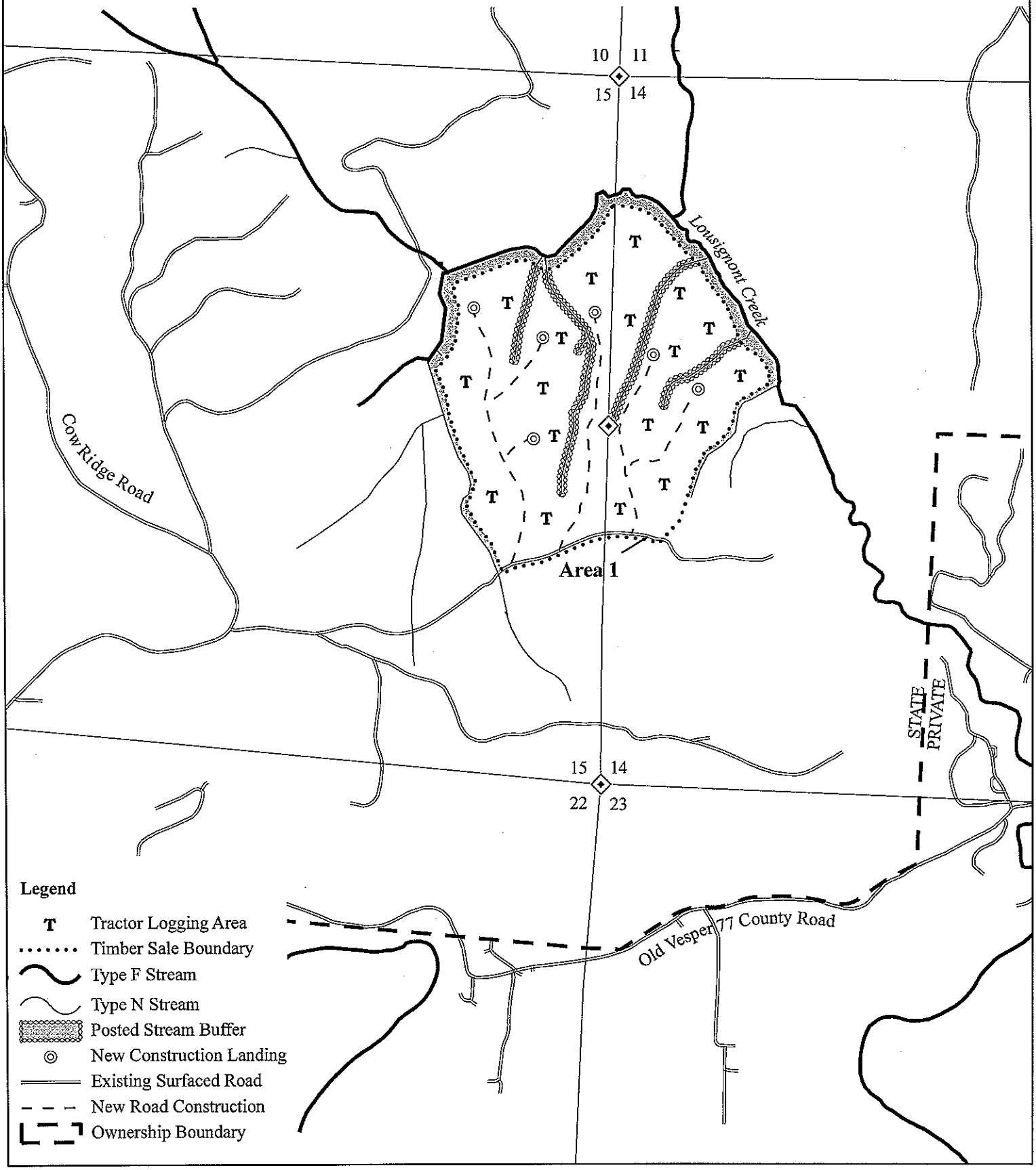
0 500 1,000 2,000 Feet

Approximate Scale=1":1,000'

N

Loggin Breakdown

	Cable	Tractor
Area 1	0%	100%



LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-10-26
RIDGE POLE
PORTIONS OF SECTIONS 14 AND 15, T6N, R6W,
W.M., CLATSOP COUNTY, OR

Approximate Net Acreage:
Area 1 (PC) - 95 Acres
Area 2 (R/W)- 5 Acres
Total Acreage = 100 Acres

0 500 1,000 2,000 Feet

Approximate Scale=1":1,000'

N

Loggin Breakdown

	Cable	Tractor
Area 1	0%	100%