



"STRENGTH THROUGH FORESTRY"

Timber Sale Appraisal Packy

Sale AT-341-2016-56-

District: Astoria

Date: November 03, 2015

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,952,899.98	\$129,646.44	\$3,082,546.42
		Project Work:	(\$112,130.00)
		Advertised Value:	\$2,970,416.42



"SUSTAINABLE FORESTRY"

Timber Sale Appraisal Packy

Sale AT-341-2016-56-

District: Astoria

Date: November 03, 2015

Timber Description

Location: Portions of Sections 1, 2, 3, 11, and 12, T6N, R7W, W.M., Clatsop County, Oregon.

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	97
Western Hemlock / Fir	18	0	97
Alder (Red)	13	0	95

Volume by Grade	2S	3S	4S	Camprun	Total
Douglas - Fir	4,473	921	128	0	5,522
Western Hemlock / Fir	2,063	1,234	227	0	3,524
Alder (Red)	0	0	0	396	396
Total	6,536	2,155	355	396	9,442

Comments: Pond Values Used: 3rd Quarter Calendar Year 2015.

Expected Log Markets: Mist, OR; Tillamook, OR; Forest Grove, OR.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
\$1,039.77/MBF = \$1,250/MBF - \$210.23/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added):
100% Branding and Painting: \$1/MBF x 9,442 MBF = \$9,442
Log Loader Slash & Landing Piling (includes Move-In and Pile Materials) = \$27,881 (see attached appraisal)
Machine Washing for Noxious Weed Compliance = \$2,000
TOTAL Other Costs (with Profit & Risk to be added) = \$39,323

Other Costs (No Profit & Risk added):
None.



"SUSTAINABLE FORESTRY"

Timber Sale Appraisal Packy

Sale AT-341-2016-56-

District: Astoria

Date: November 03, 2015

Logging Costs

Operating Seasons: 2.00	Profit Risk: 12%
Project Costs: \$112,130.00	Other Costs (P/R): \$39,323.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$2.68

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	3.0	4.0
Alder (Red)	\$0.00	2.0	3.3



Timber Sale Appraisal Packy

Sale AT-341-2016-56-

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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$115.88	\$2.76	\$0.93	\$59.51	\$4.16	\$21.99	\$0.00	\$5.00	\$0.00	\$210.23
Western Hemlock / Fir									
\$115.88	\$2.76	\$0.93	\$66.95	\$4.16	\$22.88	\$0.00	\$5.00	\$0.00	\$218.56
Alder (Red)									
\$115.88	\$2.81	\$0.93	\$124.09	\$4.16	\$29.74	\$0.00	\$5.00	\$0.00	\$282.61

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$591.82	\$381.59	\$0.00
Western Hemlock / Fir	\$0.00	\$458.56	\$240.00	\$0.00
Alder (Red)	\$0.00	\$610.00	\$327.39	\$0.00



Timber Sale Appraisal Packy

Sale AT-341-2016-56-

District: Astoria

Date: November 03, 2015

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,522	\$381.59	\$2,107,139.98
Western Hemlock / Fir	3,524	\$240.00	\$845,760.00
Alder (Red)	396	\$327.39	\$129,646.44

Gross Timber Sale Value

Recovery: \$3,082,546.42

Prepared By: Kevin Berry

Phone: 503-325-5451

Road Maintenance Cost Summary

Sale: Packy
Date: 08-Aug-15
By: K. Berry

MBF: 9,442
\$/MBF: \$2.68

Type	Equipment/Rationale	Move In	Times	Hours	Rate	Cost
Progressive Operations 1st Entry	Grader 14G	\$778	1	24	\$100	\$3,178
	Dump Truck 12CY x 1	\$163	1	16	\$79	\$1,427
	FE Loader C966	\$778	1	16	\$83	\$2,106
	Vibratory Roller	\$778	1	24	\$77	\$2,626
Final Haul Maintenance Haul Route	Grader 14G	\$778	1	32	\$100	\$3,978
	Dump Truck 12CY x 2	\$163	2	16	\$79	\$2,854
	Vibratory Roller	\$778	1	32	\$77	\$3,242
	Water Truck 2,500 gallon	\$190	1	16	\$89	\$1,614
	FE Loader C966	\$778	1	16	\$83	\$2,106
	Rubber Tire Backhoe	\$321	1	16	\$77	\$1,553
	Labor		1	16	\$40	\$640
Total						\$25,324

Production Rates	Miles/day	Distance(miles)	Days
Grader	1.5	4.3	2.9
Vibratory Roller	1.5	3.0	2.0

Production Rates	Miles/day	Distance(miles)	Days
Grader	1.5	5.2	3.5
Vibratory Roller	1.5	7.5	5.0

Site Prep Appraisal

Sale Number: 341-16-56
 Sale Name: Packy
 Date: 09/30/2015

Vegetation Type/Zone	Vegetation Type/Zone Code	Production Rate (hr/ac)	Estimated Piles/Acre
Doug-fir	A	1.0	3.0
Hemlock/Fir	B	1.5	4.0
Hemlock/Spruce	C	2.0	6.0
Hemlock	D	2.0	6.0
Conifer/Hardwood	E	1.5	3.0

Sale Area	Harvest Type	Veg Type/Zone	Ground Based Yarding Acres	Estimated Piling Hours/Area	Cost/Hour	Total Cost/Area
1	MC	B	27	40.5	\$110.00	\$4,455.00
2	MC	B	38	57	\$110.00	\$6,270.00
3	MC	B	58	87	\$110.00	\$9,570.00

Sub Total = \$20,295.00

Sale Area	Number of Landings to be Piled	Cost/Landing Pile*	Total Cost/Area	Number of In-Unit Piles	Material Cost/Pile	Total Cost/Area
1	6	\$263.00	\$1,578.00	108	\$5.00	\$540.00
2	3	\$263.00	\$789.00	152	\$5.00	\$760.00
3	8	\$263.00	\$2,104.00	174	\$5.00	\$870.00

*Cost includes separating firewood

Sub Total = \$6,641.00

Move-In Allowance	Number of Move-In's	Total Move-In Allowance
\$945.00	1	\$945.00

Sub Total = \$945.00

Grand Total = \$27,881.00

SUMMARY OF ALL PROJECT COSTS

SALE NAME: Packy

ROAD CONSTRUCTION:

	<u>Road segment</u>	<u>Length/Sta</u>	<u>Cost</u>
Project No. 1	1A to 1B	14+00	
	2A to 2B (dirt)	4+50	
	2C to 2D (dirt)	4+30	
	2E to 2F (dirt)	8+60	
	3A to 3B (dirt)	2+50	
	TOTALS	33+90	\$22,628

ROAD IMPROVEMENT:

	<u>Road segment</u>	<u>Length/Sta</u>	<u>Cost</u>
Project No. 2	I1 to I2	152+70	
	I3 to I4	208+00	
	I5 to I6	54+50	
	I7 to I8	20+60	
	I9 to I10	25+30	
	I11 to I12,13	20+80	
	I14 to I15	15+70	
	TOTALS	497+60	\$81,284

SPECIAL PROJECTS:

<u>Description</u>	<u>Cost</u>
Project Road Maintenance	\$0
TOTAL	\$0

MOVE IN:

<u>Equipment</u>	<u>Cost</u>
Dozer (D8)	\$1,406.00
Excavator (C315)	\$805.00
Excavator (C330)	\$1,406.00
Dump Trucks (12cy x 6)	\$978.00
Front End Loader (C966)	\$778.00
Grader (14G)	\$778.00
Vibratory Roller	\$778.00
Water Truck (2,500 gallon)	\$190.00
Backhoe (C 580)	\$321.00
Move to Thin Wild Goose Stockpiles	
Front End Loader (C966) X 1	\$778.00
TOTAL	\$8,218.00

GRAND TOTAL **\$112,130**

Compiled By: K. Berry

Date: 09/28/2015

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Packy
 ROAD: Road Improvement
 POINTS: 11 to 12, 13 to 14, 15 to 16, 17 to 18, 19 to 110, 111 to 112

NEW CONSTRUCTION: _____ STATIONS _____ MILES
 IMPROVEMENT: 497.60 STATIONS 9.42 MILES

CLEARING & GRUBBING					
Method	Acres/amount	x	Rate	=	Cost
Designed _____		x		=	
Designed _____		x		=	
Field Design _____		x		=	
SUB TOTAL FOR CLEARING & GRUBBING					

EXCAVATION					
Material	Cy/amount	x	Rate	=	Cost
Designed _____		x		=	
Designed _____		x		=	
Field Design _____		x		=	
SUB TOTAL FOR EXCAVATION					

CULVERT MATERIALS AND INSTALLATION										
Location	Dia/type	Lineal ft.	Rate	Cost	Location	Dia/type	Lineal ft.	Rate	Cost	
						Description		Quantity	Rate	Cost
						Culvert stakes & markers:	Install 6" fiberglass culvert markers	5	\$20.00	\$100.00
SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION										\$100

Subtotal of Clearing, Exc., Culv. **\$100**

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Packy
 ROAD: Road Construction
 POINTS: 1A to 1B, 2A to 2B, 2C to 2D, 2E to 2F and 3A to 3B

NEW CONSTRUCTION: 33.90 STATIONS 0.64 MILES
 IMPROVEMENT: STATIONS MILES

CLEARING & GRUBBING

Method	Acres/amount	x	Rate	=	Cost
Designed <u>1A to 1B (14+00)(surfaced)</u> Scatter Outside of RW	1.7	x	\$ 1,337.00	=	\$2,272.90
Designed <u>2E to 2F (8+60)(dirt)</u> Scatter Outside of RW	0.90	x	\$ 1,337.00	=	\$1,203.30
Field Design <u>2A to 2B(4+50), 2C to 2D(4+30), and 3A to 3B (2+50)(dirt)</u> Scatter Outside of RW	0.50	x	\$1,337.00	=	\$668.50
SUB TOTAL FOR CLEARING & GRUBBING					\$4,145

EXCAVATION

Material	Cy/amount	x	Rate	=	Cost
Designed <u>1A to 1B (surfaced)</u> Common Drift excavation \$/cy	1,245.00	x	\$1.80	=	\$2,241.00
Landing Construction 1B	1.00	x	\$389.00	=	\$389.00
Designed <u>2E to 2F (dirt)</u> Common Drift excavation \$/cy	905.00	x	\$1.80	=	\$1,629.00
Landing Construction (2F)	1.00	x	\$389.00	=	\$389.00
Field Design <u>2A to 2B, 2C to 2D, 3A to 3B (dirt)</u> Balanced construction (\$/sta.)	11.30	x	\$122.00	=	\$1,378.60
Landing Construction 1B, 2A to 2B, 2B, 2D, 2F and 3B	6.00	x	\$389.00	=	\$2,334.00
Extera excavator time to daylight RR thru cut at 1D	4.00	x	\$155.00	=	\$620.00
SUB TOTAL FOR EXCAVATION					\$8,981

CULVERT MATERIALS AND INSTALLATION

Location	Dia/type	Lineal ft.	Rate	Cost	Location	Dia/type	Lineal ft.	Rate	Cost
Description					Quantity	Rate	Cost		
Culvert stakes & markers:									
SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION									

Subtotal of Clearing, Exc., Culv. **\$13,125**

Road Maintenance Cost Summary

Sale: Packy
Date: 09-Sep-15
By: K. Berry

MBF: 9,442
\$/MBF: \$3.15

Type	Equipment/Rationale	Move In	Times	Hours	Rate	Cost
Progressive Operations 1st Entry	Grader 14G	\$778	1	20	\$100	\$2,778
	Dump Truck 12CY x 1	\$163	1	10	\$79	\$953
	FE Loader C966	\$778	1	10	\$83	\$1,608
	Vibratory Roller	\$778	1	20	\$77	\$2,318
Final Haul Maintenance Haul Route	Grader 14G	\$778	1	60	\$100	\$6,778
	Dump Truck 12CY x 2	\$163	2	30	\$79	\$5,066
	Vibratory Roller	\$778	1	30	\$77	\$3,088
	Water Truck 2,500 gallon	\$190	1	30	\$89	\$2,860
	FE Loader C966	\$778	1	16	\$83	\$2,106
	Rubber Tire Backhoe	\$321	1	16	\$77	\$1,553
	Labor		1	16	\$40	\$640
Total						\$29,748

Production Rates	Miles/day	Distance(miles)	Days
Grader	2.5	4.2	1.7

Production Rates	Miles/day	Distance(miles)	Days
Grader	1.5	9.3	6.2
Vibratory Roller	1.5	9.3	6.2

Projects Road Maintenance Cost Summary

Sale: Packy
Date: 09-Sep-15
By: K. Berry

Type	Equipment/Rationale	Hours	Rate	Cost
Projects	Grader 14G	0	\$100	\$0
Road	Dump Truck 12CY	0	\$79	\$0
Maintenance	FE Loader C966	0	\$83	\$0
	Vibratory Roller	0	\$77	\$0
	Water Truck 2,500 gallon	0	\$89	\$0
Total				\$0

Production Rates	Miles/day	Distance(miles)	Days
Grader	1.5	0.0	0.0
Vibratory Roller	1.5	0.0	0.0

**Packy
TIMBER CRUISE REPORT
FY 2015**

1. Sale Area Location: Areas 1 through 4 are located in portions of Sections 1, 2, 3, 11, and 12, T6N, R7W, W.M., Clatsop County, OR.
2. **Fund Distribution:** BOF 100%
Tax Code 8-01 (100%)

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Stream Buffer	Existing Surface Roads	Net Acres	Survey Method
1	Modified Clearcut	91	11	2	78	GIS
2	Modified Clearcut	58	9	1	48	GIS
3	Modified Clearcut	112	13	3	96	GIS
4 R/W	*Right-of-way				3	Road Eng.
TOTALS		261	33	6	225	

*Area 4 R/W consist of three acres of in-sale right of way.

4. **Cruisers and Cruise Dates:**

All areas were cruised by Nick Haile, Kevin Berry, and Dave Rygell during July of 2015.

5. **Cruise Method and Computation:**

Areas 1, 2, and 3 are modified clearcut units and were variable plot cruised using a 40 BAF. These plots are located on a 4 chain by 9 chain grid, with every third plot measured and graded. A total of 62 plots were sampled, with 22 measured and graded plots, 39 count plots, and one blank plot.

Data was collected on Allegro 2 data collectors, and downloaded to the Atterbury Super A.C.E. program 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	ACRES
1, 2, and 3	Packy	A123	00CC	225
1, 2, and 3	Packy	A123	LEAV	222
1, 2, and 3	Packy	A123	TAKE	222
1, 2, and 3	Packy	A123	R/W	3

6. **Timber Description:**

Areas 1, 2, and 3 are modified clearcut units, approximately 60 to 70 years-old, consisting of Douglas-fir and western hemlock, with minor amounts of red alder, and pacific silver fir. The average Douglas-fir tree size is 22.4 inches DBH, with an average height of 90 feet to a merchantable top (7 inch d.o.b.) The average western hemlock is 17.6 inches DBH and 66 feet to a merchantable top (7 inch d.o.b). The average red alder tree size 13.1 inches DBH and 47 feet to a merchantable top (7 inch d.o.b). The average pacific silver fir tree size 23.8 inches DBH and 80 feet to a merchantable top (7 inch d.o.b). The net volume per acre to be harvested is 42.0 MBF/acre.

Area 4 R/W is similar to the timber description mentioned above in Areas 1, 2, and 3. The average volume per acre to be harvested 42.3 MBF/acre.

7. **Statistical Analysis and Stand Summary**

Statistics for Stand B.F. volumes


Area	Estimated CV	Target SE%	Actual CV	Actual SE%
1, 2, and 3	50.0%	8.0%	37.6%	4.8%

8. Volumes by Species and Log Grade:

Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

Species	DBH	Net Vol.	2 Saw	3 Saw	4 Saw	Camp Run	% D & B	% Sale
Douglas-fir	22"	5,522	4,473	921	128	0	6.7	58
Hemlock / True Fir	18"	3,524	2,063	1,234	227	0	8.6	37
Red Alder/other Hardwoods	13"	396	0	0	0	396	4.0	5
TOTALS		9,442	6,536	2,155	355	396		

9. Approvals:

Prepared by: Kevin Berry Date: 7-24-2015
Unit Forester Approval:  Date: 9/10/15

- 10. Attachments:** Cruise Designs and Maps – 4 pages
Volume Reports - 3 pages
Statistics Reports - 3 pages
Stand Table Summary – 2 page
Log Stock Tables – 3 pages

X:\STATE_FORESTS\UNIT_JEWELL\Timber Sales\2016\Packy\Sale Prep\Packy_CruiseReport.docx

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); DL(Douglas-fir over 30"dbh); HL(Western hemlock over 30" dbh); SL(Sitka spruce over 30" dbh); CL (Western red cedar over 30" dbh); NFL (Noble fir over 30" dbh); SFL (Silver fir over 30" dbh)
 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, 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: Kevin Berry

Approved by: _____

Date: 07-15-2015

PACKY Cruise Map

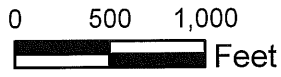
Portions of Sections 1,2,3,11 and 12, T6N, R7W, W.M.

40BAF

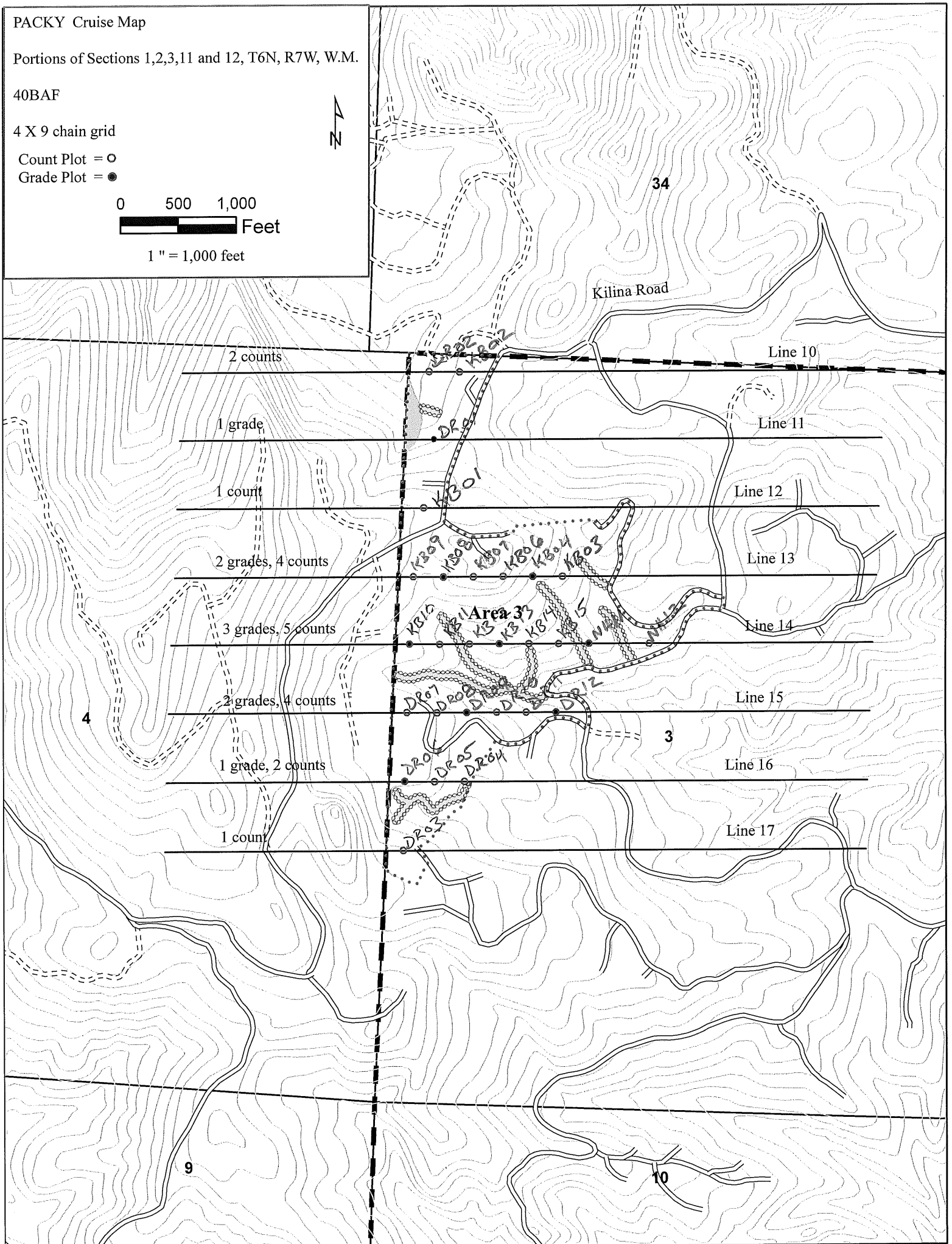
4 X 9 chain grid

Count Plot = ○

Grade Plot = ●



1" = 1,000 feet



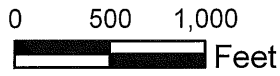
PACKY Cruise Map

Portions of Sections 1,2,3,11 and 12, T6N, R7W, W.M.

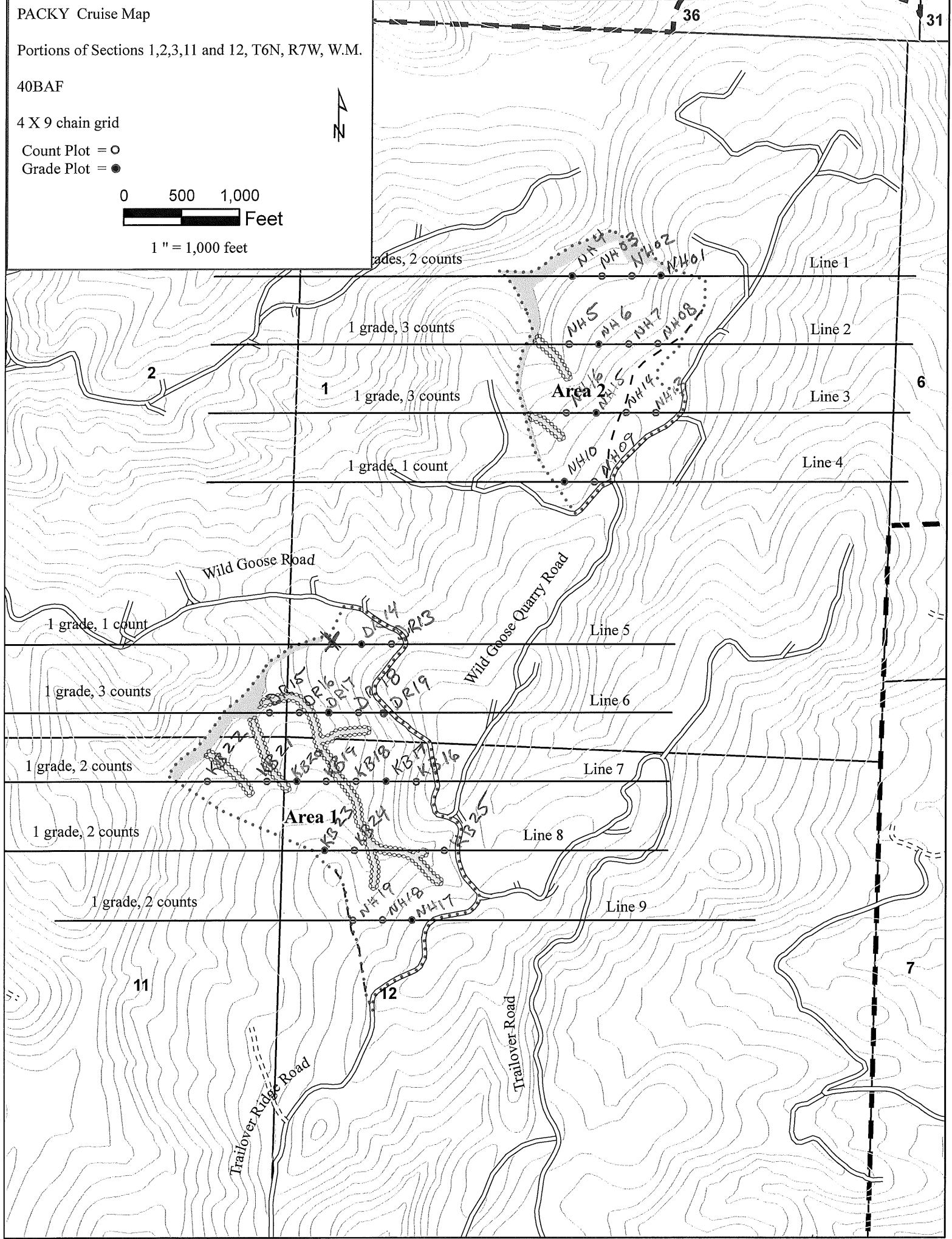
40BAF

4 X 9 chain grid

Count Plot = ○
Grade Plot = ●



1" = 1,000 feet



Species, Sort Grade - Board Foot Volumes (Project)

T06N R07W S12 TyR/W	3.00
T06N R07W S12 TyTAKE	222.00

Project: DEMO
Acres 225.00

Page 1
Date 7/24/2015
Time 8:47:47AM

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre		Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre	
					Def%	Gross		Net	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft		CF/ Lf
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
H		DOCU			100.0	1,182											18	13		0.00	10.4
H		DO2S		57	1.7	8,553	8,408	1,892			4	60	35				31	69			29.6
H		DO3S		36	1.7	5,360	5,269	1,186		1	99				3	4	55	38			60.5
H		DO4S		7		994	994	224		14	86				14	55	21	10			30.1
H Totals				35	8.8	16,089	14,671	3,301	1	44	35	20	2	5	39	54	30	9	112	1.00	130.7
D		DOCU			100.0	961											10	19		0.00	7.3
D		DO2S		81	3.6	20,623	19,882	4,473			7	46	47		1		9	89			58.5
D		DO3S		16	1.1	4,140	4,093	921		1	87	6	6		2	12	30	56			46.7
D		DO4S		3	3.6	590	569	128			100				43	34	6	17			18.1
D Totals				58	6.7	26,314	24,543	5,522	0	23	38	39	2	3	13	82	32	12	188	1.43	130.7
SF		DO2S		76	6.1	808	759	171				65	35				100				2.1
SF		DO3S		22		214	214	48			100					16	84				2.1
SF		DO4S		2		20	20	4			100				100						1.4
SF Totals				2	4.7	1,041	992	223	24	49	27	2	3	18	76	29	11	178	1.69	5.6	
A		DOCU			100.0	73											6	15		0.00	1.5
A		DOCR		100		1,758	1,758	396		2	82	15				17	69	14			24.6
A Totals				4	4.0	1,831	1,758	396	2	82	15	17	69	14	30	8	67	0.65	26.1		
Totals					7.3	45,276	41,965	9,442	1	33	36	31	2	4	24	69	31	10	143	1.18	293.0

T06N R07W S12 TTAKE										T06N R07W S12 TTAKE				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt	W				
06N	07W	12	A123	TAKE	222.00			1						

Spp	So	Gr	Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre				
				Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft		CF/Lf			
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99								
D	DO	CU		100.0	961															7.3			
D	DO	2S	81	3.6	20,617	19,876	4,413		7	46	47			1		9	89		38	15	340	2.07	58.5
D	DO	3S	16	1.1	4,140	4,093	909	1	87	6	6			2	12	30	56		34	8	88	0.77	46.7
D	DO	4S	3	3.6	590	569	126		100					43	34	6	17		19	7	31	0.58	18.1
D	Totals		58	6.7	26,309	24,538	5,448	0	23	38	39			2	3	13	82		32	12	188	1.42	130.7
H	DO	CU		100.0	1,182														18	13		0.00	10.4
H	DO	2S	57	1.7	8,553	8,408	1,867		4	60	35					31	69		37	14	284	1.87	29.6
H	DO	3S	36	1.7	5,360	5,269	1,170	1	99					3	4	55	38		32	8	87	0.80	60.5
H	DO	4S	7		994	994	221	14	86					14	55	21	10		25	6	33	0.50	30.1
H	Totals		35	8.8	16,089	14,671	3,257	1	44	35	20			2	5	39	54		30	9	112	1.00	130.7
A	DO	CU		100.0	73														6	15		0.00	1.5
A	DO	CR	100		1,758	1,758	390	2	82	15					17	69	14		31	7	71	0.66	24.6
A	Totals		4	4.0	1,831	1,758	390	2	82	15					17	69	14		30	8	67	0.65	26.1
SF	DO	2S	76	6.1	808	759	168			65	35						100		40	16	364	2.40	2.1
SF	DO	3S	22		214	214	47	100							16	84			31	10	103	1.02	2.1
SF	DO	4S	2		20	20	4	100					100						10	7	14	0.54	1.4
SF	Totals		2	4.7	1,041	992	220		24	49	27			2	3	18	76		29	11	178	1.69	5.6
Type Totals				7.3	45,272	41,960	9,315	1	33	36	31			2	4	24	69		31	10	143	1.18	293.0

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page 1									
		Project: DEMO										Date 7/24/2015									
												Time 8:48:26AM									
T06N R07W S12 TR/W										T06N R07W S12 TR/W											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
06N	07W	12	A123	R/W	3.00			1	W												
Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln	Dia	Bd		CF/ Lf
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	
D		DO	CU		100.0	953											10	19		0.00	7.3
D		DO	2S	81	3.5	21,003	20,269	61		7	44	49	1		9	90	38	15	346	2.10	58.5
D		DO	3S	16	1.1	4,102	4,056	12	1	87	6	6	2	12	30	56	34	8	88	0.77	46.3
D		DO	4S	3	3.6	585	564	2		100			43	34	6	17	19	7	31	0.58	17.9
D	Totals			59	6.6	26,643	24,888	75	0	22	37	41	2	3	12	83	32	12	191	1.44	130.0
H		DO	CU		100.0	1,182											18	13		0.00	10.4
H		DO	2S	57	1.7	8,553	8,408	25		4	60	35			31	69	37	14	284	1.87	29.6
H		DO	3S	36	1.7	5,360	5,269	16	1	99			3	4	55	38	32	8	87	0.80	60.5
H		DO	4S	7		994	994	3	14	86			14	55	21	10	25	6	33	0.50	30.1
H	Totals			35	8.8	16,089	14,671	44	1	44	35	20	2	5	39	54	30	9	112	1.00	130.7
A		DO	CU		100.0	73											6	15		0.00	1.5
A		DO	CR	100		1,758	1,758	5	2	82	15			17	69	14	31	7	71	0.66	24.6
A	Totals			4	4.0	1,831	1,758	5	2	82	15			17	69	14	30	8	67	0.65	26.1
SF		DO	2S	76	6.1	808	759	2		65	35				100		40	16	364	2.40	2.1
SF		DO	3S	22		214	214	1		100				16	84		31	10	103	1.02	2.1
SF		DO	4S	2		20	20	0		100			100				10	7	14	0.54	1.4
SF	Totals			2	4.7	1,041	992	3		24	49	27	2	3	18	76	29	11	178	1.69	5.6
Type Totals					7.2	45,605	42,310	127	1	32	36	32	2	4	24	70	31	10	145	1.19	292.3

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	DEMO		DATE	7/24/2015		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
06N	07W	12	A123	TAKE	222.00	62	406	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL	62	406	6.5							
CRUISE	22	128	5.8		29,075		.4			
DBH COUNT										
REFOREST										
COUNT	39	266	6.8							
BLANKS	1									
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	71	48.6	22.4	90	28.2	133.5	26,309	24,539	6,166	5,996
WHEMLOCK	47	63.0	17.6	66	25.3	105.8	16,089	14,671	4,187	3,949
R ALDER	7	17.3	13.1	47	4.5	16.1	1,831	1,758	518	503
PS FIR	3	2.1	23.8	80	1.3	6.5	1,041	992	272	272
TOTAL	<i>128</i>	<i>131.0</i>	<i>19.1</i>	<i>73</i>	<i>59.9</i>	<i>261.9</i>	<i>45,272</i>	<i>41,960</i>	<i>11,143</i>	<i>10,720</i>
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		
DOUG FIR	62.2	7.4	628	678	728					
WHEMLOCK	69.6	10.1	288	320	352					
R ALDER	65.7	26.7	95	130	165					
PS FIR	27.9	19.3	390	483	577					
TOTAL	<i>76.5</i>	<i>6.8</i>	<i>477</i>	<i>512</i>	<i>546</i>	<i>234</i>	<i>58</i>	<i>26</i>		
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	71.4	9.1	44	49	53					
WHEMLOCK	74.4	9.4	57	63	69					
R ALDER	242.7	30.8	12	17	23					
PS FIR	375.8	47.7	1	2	3					
TOTAL	<i>41.4</i>	<i>5.3</i>	<i>124</i>	<i>131</i>	<i>138</i>	<i>68</i>	<i>17</i>	<i>8</i>		
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	66.2	8.4	122	134	145					
WHEMLOCK	71.2	9.0	96	106	115					
R ALDER	226.6	28.8	11	16	21					
PS FIR	375.6	47.7	3	6	10					
TOTAL	<i>33.3</i>	<i>4.2</i>	<i>251</i>	<i>262</i>	<i>273</i>	<i>44</i>	<i>11</i>	<i>5</i>		
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	67.6	8.6	22,433	24,539	26,644					
WHEMLOCK	73.7	9.3	13,300	14,671	16,043					
R ALDER	228.4	29.0	1,249	1,758	2,268					
PS FIR	381.5	48.4	512	992	1,473					
TOTAL	<i>37.6</i>	<i>4.8</i>	<i>39,959</i>	<i>41,960</i>	<i>43,962</i>	<i>56</i>	<i>14</i>	<i>6</i>		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	DEMO		DATE	7/24/2015		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
06N	07W	12	A123	R/W	3.00	62	414	1	W	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		62	414	6.7						
CRUISE		22	132	6.0	395	33.4				
DBH COUNT										
REFOREST										
COUNT		39	270	6.9						
BLANKS		1								
100 %										
STAND SUMMARY										
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	72	48.3	22.6	90	28.2	134.2	26,643	24,888	6,218	6,048
WHEMLOCK	47	63.0	17.6	66	25.3	105.8	16,089	14,671	4,187	3,949
R ALDER	7	17.3	13.1	47	4.5	16.1	1,831	1,758	518	503
PS FIR	3	2.1	23.8	80	1.3	6.5	1,041	992	272	272
SNAG	3	1.1	28.1	38	0.9	4.5				
TOTAL	<i>132</i>	<i>131.8</i>	<i>19.3</i>	<i>73</i>	<i>60.8</i>	<i>267.1</i>	<i>45,605</i>	<i>42,310</i>	<i>11,194</i>	<i>10,772</i>
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		
DOUG FIR	72.4	8.5	653	713	774					
WHEMLOCK	69.6	10.1	288	320	352					
R ALDER	65.7	26.7	95	130	165					
PS FIR	27.9	19.3	390	483	577					
SNAG										
TOTAL	<i>88.4</i>	<i>7.7</i>	<i>481</i>	<i>521</i>	<i>561</i>	<i>312</i>	<i>78</i>	<i>35</i>		
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	71.3	9.0	44	48	53					
WHEMLOCK	74.4	9.4	57	63	69					
R ALDER	242.7	30.8	12	17	23					
PS FIR	375.8	47.7	1	2	3					
SNAG	354.1	44.9	1	1	2					
TOTAL	<i>41.5</i>	<i>5.3</i>	<i>125</i>	<i>132</i>	<i>139</i>	<i>69</i>	<i>17</i>	<i>8</i>		
CL: 68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	66.1	8.4	123	134	145					
WHEMLOCK	71.2	9.0	96	106	115					
R ALDER	226.6	28.8	11	16	21					
PS FIR	375.6	47.7	3	6	10					
SNAG	324.9	41.2	3	5	6					
TOTAL	<i>35.0</i>	<i>4.4</i>	<i>255</i>	<i>267</i>	<i>279</i>	<i>49</i>	<i>12</i>	<i>5</i>		
CL: 68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	68.2	8.6	22,736	24,888	27,041					
WHEMLOCK	73.7	9.3	13,300	14,671	16,043					
R ALDER	228.4	29.0	1,249	1,758	2,268					
PS FIR	381.5	48.4	512	992	1,473					
SNAG										
TOTAL	<i>38.1</i>	<i>4.8</i>	<i>40,265</i>	<i>42,310</i>	<i>44,356</i>	<i>58</i>	<i>14</i>	<i>6</i>		

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT DEMO							DATE	7/24/2015	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
06N	07	12	A123	R/W		225.00	124	820	1	W	
06N	07W	12	A123	TAKE							
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			124	820	6.6						
CRUISE			44	260	5.9	29,470	.9				
DBH COUNT											
REFOREST											
COUNT			78	536	6.9						
BLANKS			2								
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		143	48.6	22.5	90	28.2	133.6	26,314	24,543	6,167	5,996
WHEMLOCK		94	63.0	17.6	66	25.3	105.8	16,089	14,671	4,187	3,949
R ALDER		14	17.3	13.1	47	4.5	16.1	1,831	1,758	518	503
PS FIR		6	2.1	23.8	80	1.3	6.5	1,041	992	272	272
SNAG		3	.0	28.1	38	0.0	.1				
TOTAL		260	131.0	19.2	73	59.9	262.0	45,276	41,965	11,144	10,720
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		
DOUG FIR		67.6	5.6	656	696	735					
WHEMLOCK		69.2	7.1	297	320	343					
R ALDER		63.1	17.5	107	130	153					
PS FIR		25.0	11.1	430	483	537					
SNAG											
TOTAL		82.7	5.1	490	517	543	273	68	30		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		139.3	12.5	43	49	55					
WHEMLOCK		142.3	12.8	55	63	71					
R ALDER		351.2	31.5	12	17	23					
PS FIR		531.4	47.7	1	2	3					
SNAG		508.8	45.6	0	0	0					
TOTAL		113.4	10.2	118	131	144	514	128	57		
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		134.2	12.0	117	134	150					
WHEMLOCK		139.0	12.5	93	106	119					
R ALDER		329.7	29.6	11	16	21					
PS FIR		531.1	47.7	3	6	10					
SNAG		468.5	42.0	0	0	0					
TOTAL		108.1	9.7	237	262	287	466	117	52		
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		135.5	12.2	21,558	24,543	27,528					
WHEMLOCK		141.6	12.7	12,808	14,671	16,535					
R ALDER		332.1	29.8	1,234	1,758	2,282					
PS FIR		539.1	48.4	512	992	1,472					
SNAG											
TOTAL		110.8	9.9	37,793	41,965	46,137	490	123	54		

TC PSTNDSUM		Stand Table Summary										Page	1		
												Date:	7/24/2015		
T06N R07W S12 TyR/W 3.00 T06N R07W S12 TyTAKE 222.00				Project		DEMO		Time:		8:57:33AM					
				Acres		225.00		Grown Year:							
S Spe T	DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
								Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
D	11	2	86	84	2.850	1.88	2.85	17.0	60.0		48	171		109	38
D	12	2	87	122	2.395	1.88	4.79	16.0	60.0		77	287		172	65
D	13	2	89	117	2.040	1.88	6.12	14.3	56.7		88	347		197	78
D	16	4	87	102	2.694	3.76	4.04	31.7	116.7		128	471		288	106
D	17	2	88	107	1.193	1.88	2.39	32.5	120.0		78	286		175	64
D	18	4	84	113	2.129	3.76	5.32	30.2	100.0		161	532		362	120
D	19	6	87	90	2.866	5.64	5.73	33.3	110.0		191	630		430	142
D	20	8	87	116	3.448	7.52	9.48	35.7	134.5		339	1,276		762	287
D	21	4	87	119	1.564	3.76	4.69	37.2	150.0		174	704		392	158
D	22	8	87	118	2.850	7.52	7.84	43.4	165.5		340	1,297		765	292
D	23	8	86	114	2.607	7.52	7.17	44.7	177.3		321	1,271		722	286
D	24	28	86	123	8.381	26.33	22.75	50.4	199.5		1,146	4,538		2,579	1,021
D	25	8	85	115	2.207	7.52	6.07	51.5	198.2		312	1,203		703	271
D	26	12	87	132	3.061	11.28	9.18	60.6	257.2		557	2,362		1,252	531
D	27	2	89	137	.473	1.88	1.42	69.7	310.0		99	440		222	99
D	28	10	87	133	2.199	9.40	6.60	72.2	312.7		476	2,063		1,072	464
D	29	10	85	132	2.050	9.40	6.15	75.2	315.3		463	1,939		1,041	436
D	30	8	86	135	1.533	7.52	4.60	78.1	346.7		359	1,594		808	359
D	32	2	85	120	.337	1.88	1.01	72.0	316.7		73	320		164	72
D	33	4	87	140	.633	3.76	1.90	102.3	496.7		194	944		437	212
D	34	4	88	148	.597	3.76	1.79	105.0	525.0		188	940		423	211
D	37	2	83	140	.252	1.88	.76	104.0	520.0		79	393		177	88
D	39	2	87	155	.227	1.88	.68	155.0	776.7		105	528		237	119
D	44	1	89	153	.002	.02	.01	202.7	1083.3		1	8		3	2
D	Totals	143	86	117	48.586	133.56	123.33	48.6	199.0		5,996	24,543		13,491	5,522
H	10	2	89	38	4.128	2.25	4.13	9.0	30.0		37	124		84	28
H	11	2	89	64	3.411	2.25	3.41	15.0	60.0		51	205		115	46
H	13	4	88	99	4.885	4.50	9.77	19.0	65.0		186	635		418	143
H	14	4	89	90	4.212	4.50	4.21	22.0	90.0		93	379		208	85
H	15	8	87	79	7.338	9.00	14.68	21.8	76.2		319	1,119		718	252
H	16	18	88	83	14.511	20.26	29.02	25.3	90.0		734	2,612		1,651	588
H	17	4	88	110	2.856	4.50	7.14	30.8	114.0		220	814		495	183
H	18	4	86	105	2.548	4.50	6.37	33.0	116.0		210	739		473	166
H	19	6	87	75	3.430	6.75	5.72	34.0	106.0		194	606		437	136
H	20	2	82	79	1.032	2.25	2.06	38.5	105.0		79	217		179	49
H	21	6	87	91	2.808	6.75	4.68	44.8	172.0		210	805		472	181
H	22	8	88	97	3.411	9.00	7.68	51.6	202.2		396	1,552		890	349
H	23	8	88	116	3.121	9.00	7.80	53.9	219.0		421	1,709		946	384
H	24	4	87	88	1.433	4.50	3.58	42.8	158.0		153	566		345	127
H	25	2	87	116	.660	2.25	1.98	58.0	246.7		115	489		259	110
H	26	2	86	122	.611	2.25	1.83	61.0	253.3		112	464		251	104
H	27	6	85	99	1.699	6.75	3.96	66.3	247.1		263	980		591	220
H	30	2	83	94	.459	2.25	.92	57.5	240.0		53	220		119	50
H	31	2	85	110	.430	2.25	1.29	80.7	340.0		104	438		234	99
H	Totals	94	88	86	62.980	105.81	120.23	32.8	122.0		3,949	14,671		8,884	3,301
A	9	2	87	70	5.216	2.30	5.22	13.0	50.0		68	261		153	59
A	12	2	87	41	2.934	2.30	2.93	15.0	40.0		44	117		99	26
A	13	2	86	89	2.500	2.30	5.00	17.5	60.0		87	300		197	67
A	14	2	86	76	2.155	2.30	4.31	19.0	75.0		82	323		184	73
A	15	2	87	59	1.878	2.30	1.88	34.0	90.0		64	169		144	38
A	17	2	86	78	1.462	2.30	2.92	22.5	85.0		66	249		148	56
A	19	2	86	87	1.170	2.30	2.34	39.5	145.0		92	339		208	76

Stand Table Summary

T06N R07W S12 TyR/W 3.00
T06N R07W S12 TyTAKE 222.00

Project **DEMO**
Acres **225.00**

Time: **8:57:33AM**
Grown Year:

S Spe T	Sample DBH	FF Trees	Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
			16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
A	Totals	14	87	69	17.314	16.13	24.60	20.5	71.5		503	1,758		1,132	396
SF	22	2	86	103	.815	2.15	2.44	40.0	160.0		98	391		220	88
SF	24	2	86	84	.685	2.15	1.37	58.5	175.0		80	240		180	54
SF	26	2	83	103	.583	2.15	1.75	54.0	206.7		94	362		213	81
SF	Totals	6	85	97	2.082	6.45	5.56	49.0	178.4		272	992		613	223
SN	20	1	89	30	.009	.02									
SN	32	1	86	62	.004	.02									
SN	55	1	88	25	.001	.02									
SN	Totals	3	88	38	.014	.06									
Totals		260	87	96	130.977	262.00	273.72	39.2	153.3		10,720	41,965		24,121	9,442















Log Stock Table - MBF

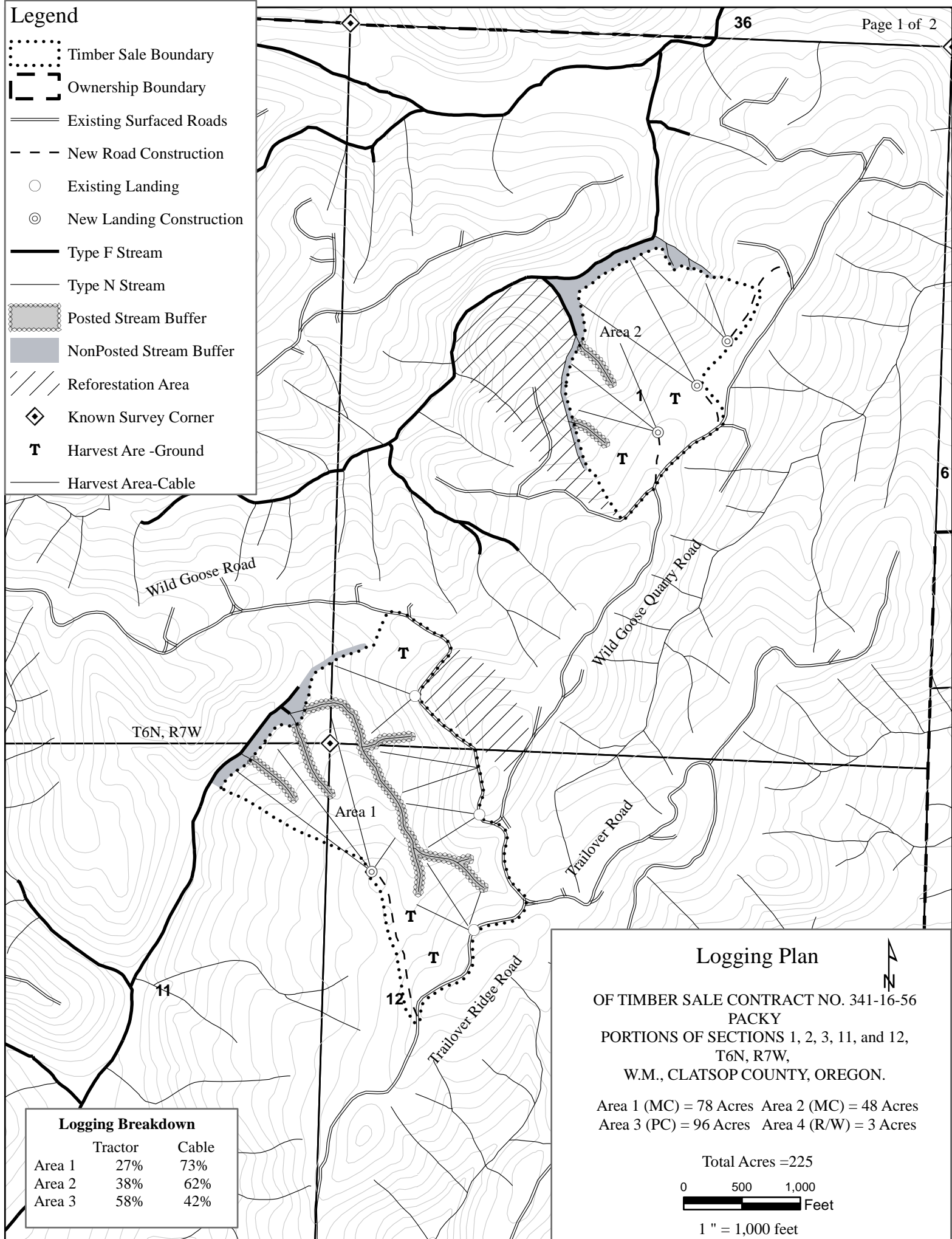
T06N R07W S12 TyR/W 3.00
T06N R07W S12 TyTAKE 222.00

Project: DEMO
Acres 225.00

Spp	S T	So Gr rt 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
D		DO 4S	25	12		12	.2			12								
D		DO 4S	27	16		16	.3			12	5							
D		DO 4S	33	12	40.0	7	.1			7								
D		DO 4S	40	22		22	.4					22						
D		Totals		5,921	6.7	5,522	58.5	2	9	269	320	657	458	1034	1791	719	262	1
SF		DO 2S	40	182	6.1	171	76.5						110	60				
SF		DO 3S	28	8		8	3.4				8							
SF		DO 3S	32	40		40	18.1				40							
SF		DO 4S	10	4		4	2.0			2	3							
SF		Totals		234	4.7	223	2.4			2	10	40		110	60			
A		DO CU	6	16	100.0													
A		DO CR	21	15		15	3.7			15								
A		DO CR	25	10		10	2.5		10									
A		DO CR	26	17		17	4.3			17								
A		DO CR	30	26		26	6.7			26								
A		DO CR	32	215		215	54.5				51	104		61				
A		DO CR	34	59		59	14.8			59								
A		DO CR	38	16		16	4.0			16								
A		DO CR	40	38		38	9.6				38							
A		Totals		412	4.0	396	4.2		10	132	89	104		61				
Total		All Species		10,187	7.3	9,442	100.0	2	62	813	680	1579	1051	1557	2643	793	262	1

Legend

-  Timber Sale Boundary
-  Ownership Boundary
-  Existing Surfaced Roads
-  New Road Construction
-  Existing Landing
-  New Landing Construction
-  Type F Stream
-  Type N Stream
-  Posted Stream Buffer
-  NonPosted Stream Buffer
-  Reforestation Area
-  Known Survey Corner
-  Harvest Area -Ground
-  Harvest Area-Cable



Wild Goose Road

Wild Goose Quarry Road

Trailover Road

Trailover Ridge Road

T6N, R7W

Area 1

Area 2

11

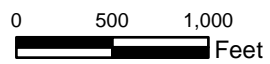
12

Logging Plan

OF TIMBER SALE CONTRACT NO. 341-16-56
 PACKY
 PORTIONS OF SECTIONS 1, 2, 3, 11, and 12,
 T6N, R7W,
 W.M., CLATSOP COUNTY, OREGON.

Area 1 (MC) = 78 Acres Area 2 (MC) = 48 Acres
 Area 3 (PC) = 96 Acres Area 4 (R/W) = 3 Acres

Total Acres =225

















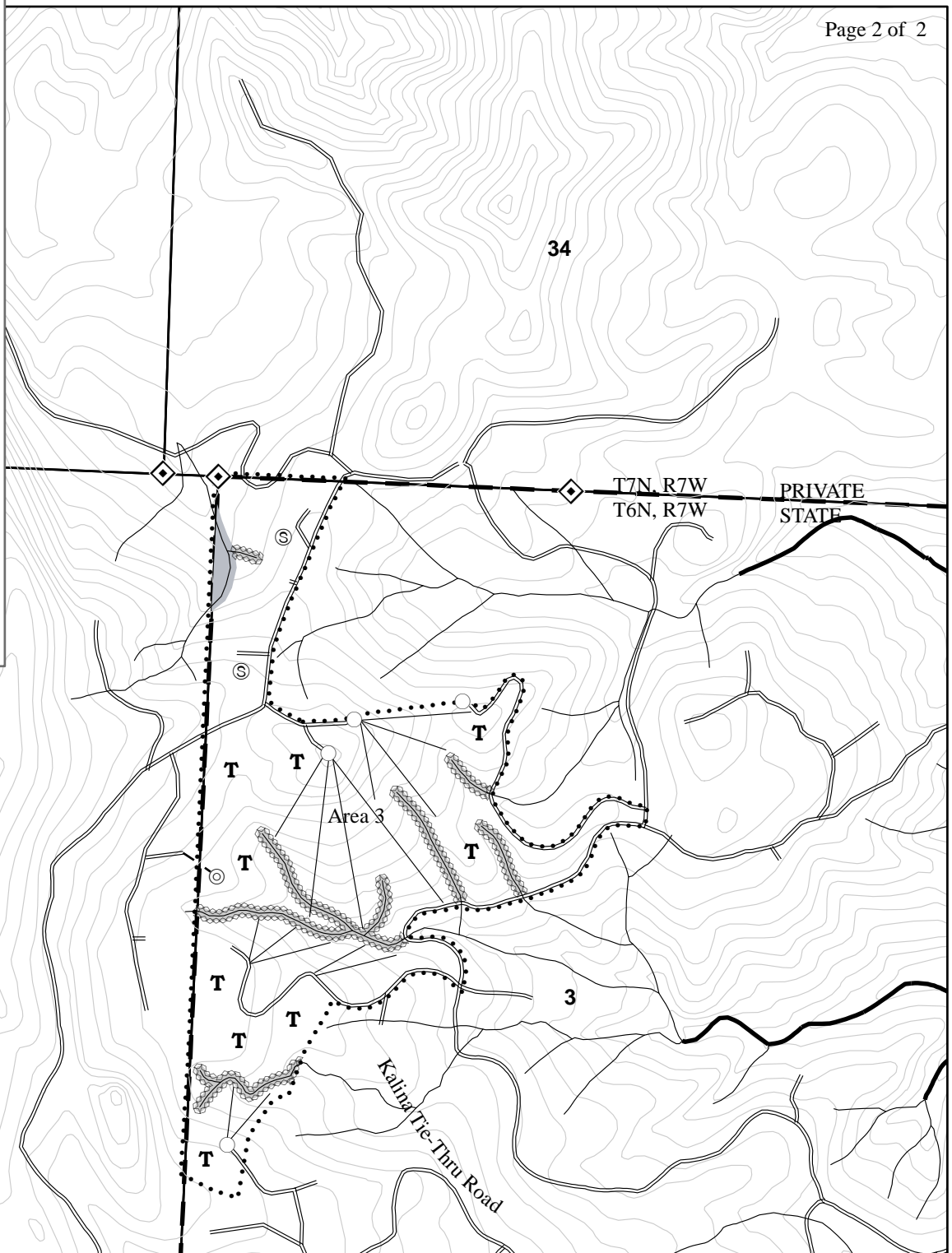
1" = 1,000 feet

Logging Breakdown

	Tractor	Cable
Area 1	27%	73%
Area 2	38%	62%
Area 3	58%	42%

Legend

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