



APPLICATION AND PERMIT TO OCCUPY OR PERFORM OPERATIONS UPON A STATE HIGHWAY

See Oregon Administrative Rule, Chapter 734, Division 55

PERMIT NUMBER

CLASS:	KEY#
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GENERAL LOCATION				PURPOSE OF APPLICATION (TO CONSTRUCT/OPERATE/MAINTAIN)					
HIGHWAY NAME AND ROUTE NUMBER				<input type="checkbox"/> POLE LINE	TYPE	MIN. VERT. CLEARANCE			
HIGHWAY NUMBER	COUNTY			<input type="checkbox"/> BURIED CABLE	TYPE				
BETWEEN OR NEAR LANDMARKS				<input type="checkbox"/> PIPE LINE	TYPE				
HWY. REFERENCE MAP	DESIGNATED FREEWAY <input type="checkbox"/> YES <input type="checkbox"/> NO	IN U.S. FOREST <input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> NON-COMMERCIAL SIGN	FEE AMOUNT				
APPLICANT NAME AND ADDRESS				<input type="checkbox"/> MISCELLANEOUS OPERATIONS AND/OR FACILITIES AS DESCRIBED BELOW					
				FOR ODOT USE ONLY					
				BOND REQUIRED <input type="checkbox"/> YES <input type="checkbox"/> NO		REFERENCE: OAR 734-55 035(2)	AMOUNT OF BOND		
				INSURANCE REQUIRED <input type="checkbox"/> YES <input type="checkbox"/> NO		REFERENCE: OAR 734-55 035(1)	SPECIFIED COMP. DATE		

DETAIL LOCATION OF FACILITY (For more space attach additional sheets)

MILE POINT	TO	MILE POINT	ENGINEERS STATION	ENGINEERS TO STATION	SIDE OF HWY OR ANGLE OF CROSSING	DISTANCE FROM		BURIED CABLE OR PIPE		SPAN LENGTH
						CENTER OF PVMT	R/W LINE	DEPTH/VERT.	SIZE AND KIND	

DESCRIPTION AND LOCATION OF NON-COMMERCIAL SIGNS OR MISCELLANEOUS OPERATIONS FACILITIES

SPECIAL PROVISIONS (FOR MORE SPACE ATTACH ADDITIONAL SHEETS)

TRAFFIC CONTROL REQUIRED

- OPEN CUTTING OF PAVED OR SURFACED AREAS ALLOWED?

- ◆ YES [OAR 734-55-025(6)] NO ◆ YES [OAR 734-55-100(2)] NO [OAR 734-55-100(1)]

◆ **AT LEAST 48 HOURS BEFORE BEGINNING WORK, THE APPLICANT OR HIS CONTRACTOR SHALL NOTIFY THE DISTRICT REPRESENTATIVE AT TELEPHONE NUMBER:**

OR FAX A COPY OF THIS PAGE TO THE DISTRICT OFFICE AT: _____ SPECIFY TIME AND DATE IN THE SPACE BELOW.

◆ A COPY OF THIS PERMIT AND ALL ATTACHMENTS SHALL BE AVAILABLE AT THE WORK AREA DURING CONSTRUCTION.

◆ **ATTENTION:** Oregon Law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center at (503) 232-1987.

CALL BEFORE YOU DIG 1-800-332-2344

COMMENTS - ODOT USE ONLY

IF THE PROPOSED APPLICATION WILL AFFECT THE LOCAL GOVERNMENT, THE APPLICANT SHALL ACQUIRE THE LOCAL GOVERNMENT OFFICIAL'S SIGNATURE BEFORE ACQUIRING THE DISTRICT MANAGER'S SIGNATURE.

LOCAL GOVERNMENT OFFICIAL SIGNATURE		TITLE	DATE
X			
APPLICANT SIGNATURE	APPLICATION DATE	TITLE	TELEPHONE NO.
X			
When this application is approved by the Department, the applicant is subject to, accepts and approves the terms and provisions contained and attached: and the terms of Oregon Administrative Rules, Chapter 734, Division 55, which is by this reference made a part of this permit.			DISTRICT MANAGER OR REPRESENTATIVE
			X
			APPROVAL DATE

INSURANCE CERTIFICATION

APPROACH ROAD, UTILITY OR MISCELLANEOUS PERMITS

FILE WITH: ACCESS AND UTILITY PERMITS
 800 AIRPORT RD
 SALEM OREGON 97301-4798
 TELE: (503) 986-3031, FAX (503) 986-3032

THE _____
 OF _____

hereby certifies that such insurance policies as are indicated here under have been issued and are in full force and effect on the effective date of this certificate and the additional insured and notice of cancellation provisions listed below have been endorsed into the policies.

Name of Insured _____

Address of Insured _____

TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MMDDYY)	POLICY EXPIRATION DATE (MMDDYY)	LIMITS*	
GENERAL LIABILITY <input type="checkbox"/> COMPREHENSIVE FORM <input type="checkbox"/> PREMISES/OPERATIONS <input type="checkbox"/> UNDERGROUND EXPLOSION <input type="checkbox"/> AND COLLAPSE HAZARD <input type="checkbox"/> PRODUCTS/COMPLETED OPER. <input type="checkbox"/> CONTRACTUAL <input type="checkbox"/> INDEPENDENT CONTRACTORS <input type="checkbox"/> BROAD FORM PROPERTY DAMAGE <input type="checkbox"/> PERSONAL INJURY				BODILY INJURY OCC.	
				BODILY INJURY AGG.	
				PROPERTY DAMAGE OCC.	
				PROPERTY DAMAGE AGG.	
				BI & PD COMBINED OCC.	
				BI & PD COMBINED AGG.	
				PERSONAL INJURY AGG.	
AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS (PRIV. PASS.) <input type="checkbox"/> ALL OWNED AUTOS (OTHER THAN PRIV. PASS.) <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY				BODILY INJURY (PER PERSON)	
				BODILY INJURY (PER ACCIDENT)	
				PROPERTY DAMAGE	
				BODILY INJURY AND PROPERTY DAMAGE COMBINED	
EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURENCE	
				AGGREGATE	

*** MINIMUM LIMITS: BODILY INJURY \$200,000 PER PERSON, \$500,000 EACH OCCURRENCE
 PROPERTY DAMAGE \$50,000 EACH OCCURRENCE, OR \$500,000 COMBINED SINGLE LIMIT**

The State of Oregon, its Department of Transportation, its Divisions, Officers and Employees are hereby included as an additional insured in the herein numbered policy or policies as to the operations of the named insured under any pipe, pole, conduit, approach road or miscellaneous permit issued by the Department of Transportation, but only with respect to the insured(s) activities to be performed under permit.

There shall be no cancellation, material change or intent not to renew the insurance coverage listed above without 30 days written notice from the insurer(s) to the Access and Utility Permit Unit, 800 Airport Rd., Salem, OR. 97301. Any failure to comply with the reporting provision of this insurance shall not affect coverage(s) provided to the State of Oregon, the Oregon Department of Transportation, Its Division, Officers and Employees.

INSURANCE COMPANY OR AGENCY	ADDRESS	
SIGNATURE OF INSURANCE COMPANY REPRESENTATIVE	DATE	TELEPHONE



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
By The Way
Sale 341-14-50

District: Forest Grove

Date: June 26, 2013

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$410,000.08	\$14,740.60	\$424,740.68
		Project Work:	\$0.00
		Advertised Value:	\$424,740.68



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
By The Way
Sale 341-14-50

District: Forest Grove

Date: June 26, 2013

timber description

Location: Portions of Sections 19, 20, and 30, T2N, R5W, and portions of Section 25, T2N, R6W, W.M., Washington County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	19	0	95
Western Hemlock / Fir	20	0	95
Alder (Red)	14	0	95
Maple	11	0	95

Volume by Grade	2S	3S	4S	Camprun	Total
Douglas - Fir	921	362	69	0	1,352
Western Hemlock / Fir	35	3	3	0	41
Alder (Red)	0	0	0	52	52
Maple	0	0	0	8	8
Total	956	365	72	60	1,453



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
By The Way
Sale 341-14-50

District: Forest Grove

Date: June 26, 2013

comments: Pond Values Used: 2nd Quarter Calendar Year 2013.

Western redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost:

$\$810.85/\text{MBF} = \$950/\text{MBF} - \$139.15/\text{MBF}$

SCALING COST ALLOWANCE = $\$5.00/\text{MBF}$

FUEL COST ALLOWANCE = $\$4.00/\text{Gallon}$

HAULING COST ALLOWANCE

Hauling costs equivalent to $\$780$ daily truck cost.

Other Costs (with Profit & Risk to be added):

Brand and Paint: $1,453 \text{ MBF} @ \$1/\text{MBF} = \$1,453$

Flaggers: $30 \text{ days} @ \$500/\text{day} = \$15,000$

TOTAL Other Costs (with Profit & Risk to be added) = $\$16,453$

Other Costs (No Profit & Risk added):

Blocking/Waterbarring Skid Roads: $10 \text{ hrs} @ \$150/\text{hr} = \$1,500$

Equipment Cleaning: $2 \text{ machines} @ \$1,000 \text{ per machine} = \$2,000$

Road Cleaning: $20 \text{ hours} @ \$90/\text{hour} = \$1,800$

Slash Disposal: $20 \text{ hours} @ \$90/\text{hour} = \$1,800$

TOTAL Other Costs (No Profit & Risk added) = $\$7,100$



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
By The Way
Sale 341-14-50

District: Forest Grove

Date: June 26, 2013

logging conditions

combination#: 1 Douglas - Fir 100.00%
 Western Hemlock / Fir 100.00%
 Alder (Red) 100.00%
 Maple 100.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Manual Falling/Delimiting

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 4.0 **bd. ft / load:** 4,300

cost / mbf: \$145.62

machines: Shovel Logger



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
By The Way
Sale 341-14-50

District: Forest Grove

Date: June 26, 2013

logging costs

Operating Seasons:	0.00	Profit Risk:	20.00%
Project Costs:	\$0.00	Other Costs (P/R):	\$16,453.00
Slash Disposal:	\$0.00	Other Costs:	\$7,100.00

Miles of Road

Road Maintenance: \$0.00

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	4.5
Western Hemlock / Fir	\$0.00	2.0	4.2
Alder (Red)	\$0.00	2.0	3.8
Maple	\$0.00	2.0	3.8



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
By The Way
Sale 341-14-50

District: Forest Grove

Date: June 26, 2013

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$145.62	\$0.00	\$0.00	\$75.83	\$11.32	\$46.55	\$0.00	\$5.00	\$4.89	\$289.21
Western Hemlock / Fir									
\$145.62	\$0.00	\$0.00	\$81.25	\$11.32	\$47.64	\$0.00	\$5.00	\$4.89	\$295.72
Alder (Red)									
\$145.62	\$0.00	\$0.00	\$89.81	\$11.32	\$49.35	\$0.00	\$5.00	\$4.89	\$305.99
Maple									
\$145.62	\$0.00	\$0.00	\$89.81	\$11.32	\$49.35	\$0.00	\$5.00	\$4.89	\$305.99

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$585.97	\$296.76	\$0.00
Western Hemlock / Fir	\$0.00	\$509.88	\$214.16	\$0.00
Alder (Red)	\$0.00	\$575.00	\$269.01	\$0.00
Maple	\$0.00	\$400.00	\$94.01	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
By The Way
Sale 341-14-50

District: Forest Grove

Date: June 26, 2013

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,352	\$296.76	\$401,219.52
Western Hemlock / Fir	41	\$214.16	\$8,780.56
Alder (Red)	52	\$269.01	\$13,988.52
Maple	8	\$94.01	\$752.08

Gross Timber Sale Value

Recovery: \$424,740.68

Prepared by: Peter Stone

Phone: 503-359-7477

TIMBER SALE SUMMARY
By The Way
Contract No. 341-14-50

1. **Location:** Portions of Sections 19, 20, 30, T2N, R5W, W.M. and Portions of Section 25, T2N, R6W, W.M., Washington County, Oregon.
2. **Type of Sale:** This timber sale is 35 acres of Modified Clearcut in 18 Areas. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF, Washington County
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise :** The Timber Sale was cruised by ODF Cruisers in April of 2013. For more information see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of medium to well stocked 60 year old Douglas-fir stands (with minor amounts of western hemlock, true firs, and hardwoods). The average "take" Douglas-fir DBH is 19 inches. The estimated average net per acre Douglas-fir take volume is 40.7 Mbf.
7. **Topography and Logging Method:** Slopes within the sale areas range from 5% to 70% and are generally of a north to northwest aspect. Areas 1-18 are 100% ground-based yarding. Some Areas will require line pulling to remove all required material.
8. **Access:** PURCHASER must enter into an Access Permit/Agreement with ODOT.
9. **Other Costs:**

Other Costs With Profit and Risk

Brand and Paint: 1,453 MBF @ \$1.00/MBF	\$1,453
Flaggers: 30 days @ \$15,000	\$15,000

Total Other Costs with Profit and Risk	\$16,453
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Other Costs Without Profit and Risk)

Block / water-bar skid roads: 10 hours @ \$150.00/hour	\$1,500
Equipment Cleaning: 2 machines @ 1,000/machine	\$2,000
Road Cleaning: 20 hours @ \$90.00/hour	\$1,800
Slash Disposal: 20 hours @ \$90.00/hour	\$1,800
Total Other Costs without Profit and Risk	\$7,100

Total Other Costs	\$23,553
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CRUISE REPORT
By the Way
341-14-50

1. CRUISE DESIGN:

The cruise design assumed a Coefficient of Variation (CV%) of 75%, an average stand diameter of 15 inches, a desired sampling error (SE%) of 15% and a minimum sample size of 100 grade trees.

2. SAMPLING METHOD:

The Sale Areas were cruised on 4/11/2013 with 24 variable radius (grade) plots using a 20 BAF prism. Plots were randomly placed in the areas on GIS. Plots falling near existing roads or no-harvest areas were offset.

3. CRUISE RESULTS

264 trees were measured and graded producing a cumulative Basal Area sampling error of 8.5% and 8.3% on the Board Foot Volume.

4. TREE MEASUREMENT AND GRADING:

All (grade plot) sample trees were measured and graded following Columbia River Log Scale grade rules and favoring 40 foot segments.

All (grade plot 'Take' trees) (trees assigned a 'Take' status) were measured and graded following Columbia River Log Scale grade rules and favoring 40 foot segments.

a) **Height Standards:**

(Option 1) Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.

(Option 2) Bole heights were measured to the nearest foot of a six inch top.

b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.

c) **Form Factors** were measured for each grade tree using a form point of 16 feet.

5. DATA PROCESSING

- a) **Volumes and Statistics**, Cruise volume estimates, and sampling statistics, were derived from Super Ace 2008 cruise software.

- b) **Deductions**: 5 percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

6. Cruisers: The sale was cruised by ODF cruisers (Savage, Koch, Stone).

Prepared by:

ODF Forester

Date

Reviewed by:

Eric Foucht

Date

Log Stock Table - MBF

T02N R05W S19 Ty00MC 35.00

Project: BYTHEWAY
Acres 35.00

Page 1
Date 5/9/2013
Time 8:16:16AM

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	40+				
DF		2M	16	17		17	1.2						2	8	5	2							
DF		2M	20	12	3.2	12	.8					2	4			6							
DF		2M	22	5		5	.4					2			3								
DF		2M	24	7		7	.5					1	3	3									
DF		2M	32	5		5	.3									5							
DF		2M	34	3		3	.2					3											
DF		2M	40	925		922	64.7					204	179	322	152	64							
DF		3M	24	0		0	.0				0												
DF		3M	32	64		64	4.5			30	23	11	1										
DF		3M	40	317		316	22.2			51	86	175	4										
DF		4M	12	1		1	.1					1											
DF		4M	14	2		2	.1					2											
DF		4M	16	12		12	.8			11	1												
DF		4M	20	11		11	.7			11													
DF		4M	24	21		21	1.5			21													
DF		4M	30	9		9	.7			9													
DF		4M	32	2	11.5	2	.1			2	0												
DF		4M	40	15		15	1.0			12		3											
DF		Totals		1,429		1,423	92.9			147	110	190	219	188	333	160	77						
WH		2M	40	38		38	85.8					10	4	13	5	6							
WH		3M	32	2		2	4.2			2													
WH		3M	40	1		1	3.0			1													
WH		4M	16	0		0	.9			0													
WH		4M	24	1		1	2.3			1													
WH		4M	40	2		2	3.7			2													
WH		Totals		44		44	2.9			4	2	10	4	13	5	6							
RA		R	20	16	2.0	15	28.0			5	8	3											
RA		R	24	2		2	3.9			2													
RA		R	30	22		22	40.8				6	7	8										
RA		R	32	4		4	7.0					4											
RA		R	35	1		1	2.7			1													
RA		R	40	10		10	17.6			1	8												
RA		Totals		55		55	3.6		1	8	23	14	8										
BM		R	20	3		3	29.6			1	1												
BM		R	30	5	6.3	5	52.3			2		3											

Log Stock Table - MBF

T02N R05W S19 Ty00MC	35.00
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Project: BYTHEWAY
Acres 35.00

Page 2
Date 5/9/2013
Time 8:16:16AM

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
BM		R	32	2		2	18.1			2							
BM		Totals		9	3.4	9	.6			5	1	3					
Total		All Species		1,537		1,531	100.0		1	164	137	206	229	200	345	166	83

Species, Sort Grade - Board Foot Volumes (Project)

T02N R05W S19 Ty00MC 35.00	Project: BYTHEWAY Acres 35.00	Page 1 Date 5/9/2013 Time 8:16:14AM
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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								Average Log				Logs Per /Acre		
									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							
DF		CU															4	15		0.00	10.8		
DF		2M		68	.4	27,827	27,716	970			53	47		3	1	1	95	39	15	367	1.88	75.6	
DF		3M		26	.3	10,904	10,877	381		99	1				0	17	83	38	8	104	0.66	104.9	
DF		4M		6	.4	2,084	2,076	73		98	2			35	42	3	20	23	6	32	0.38	65.5	
DF	Totals			93	.4	40,816	40,669	1,423		31	36	32		4	3	5	88	33	10	158	1.03	256.8	
WH		2M		85		1,089	1,089	38			37	63				100	40	15	380	1.79	2.9		
WH		3M		8		92	92	3		100						58	42	36	8	79	0.69	1.2	
WH		4M		7		88	88	3		100			14	33		53	28	6	41	0.51	2.1		
WH	Totals			3		1,269	1,269	44		14	32	54		1	2	4	93	35	11	205	1.23	6.2	
RA		CU															5	11		0.00	1.1		
RA		R		100	.6	1,569	1,560	55		3	82	15		28	45	10	18	26	8	69	0.62	22.7	
RA	Totals			4	.6	1,569	1,560	55		3	82	15		28	45	10	18	25	9	66	0.61	23.8	
BM		R		100	3.4	268	259	9		100				30	52	18		25	7	49	0.49	5.3	
BM	Totals			1	3.4	268	259	9		100				30	52	18		25	7	49	0.49	5.3	
Totals					0.4	43,922	43,757	1,531		0	33	35	32		5	5	5	85	32	10	150	1.00	292.0

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT		BYTHEWAY			DATE		5/9/2013		
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
02N	05	19	TAKE	00MC	35.00	24	264	S	W		
		PLOTS		TREES	ESTIMATED TOTAL	PERCENT SAMPLE					
				PER PLOT	TREES	TREES					
TOTAL		24		264	11.0						
CRUISE		24		264	11.0	4,213	6.3				
DBH COUNT		REFOREST		COUNT		BLANKS		100 %			
STAND SUMMARY											
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC	
DOUG FIR-T	239	102.3	18.9	118	45.8	199.2	40,816	40,669	8,686	8,686	
R ALDER-T	15	11.8	13.9	89	3.3	12.5	1,569	1,560	366	366	
WHEMLOCK-T	7	2.7	19.8	103	1.3	5.8	1,269	1,269	265	265	
BL MAPLE-T	3	3.6	11.3	75	0.7	2.5	268	259	65	65	
TOTAL	264	120.4	18.3	114	51.4	220.0	43,922	43,757	9,381	9,381	
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-T		72.6	4.7	606	635	665					
R ALDER-T		78.9	21.1	117	148	179					
WHEMLOCK-T		78.7	32.0	483	710	937					
BL MAPLE-T		71.3	49.4	47	93	139					
TOTAL		77.1	4.7	575	603	632	237	59	26		
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-T		79.6	16.6	85	102	119					
R ALDER-T		272.3	56.7	5	12	18					
WHEMLOCK-T		278.0	57.9	1	3	4					
BL MAPLE-T		339.4	70.7	1	4	6					
TOTAL		70.8	14.8	103	120	138	209	52	23		
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-T		47.4	9.9	179	199	219					
R ALDER-T		261.9	54.6	6	13	19					
WHEMLOCK-T		236.7	49.3	3	6	9					
BL MAPLE-T		358.7	74.7	1	3	4					
TOTAL		40.7	8.5	201	220	239	69	17	8		
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-T		44.7	9.3	36,882	40,669	44,456					
R ALDER-T		342.5	71.4	447	1,560	2,673					
WHEMLOCK-T		242.1	50.4	629	1,269	1,909					
BL MAPLE-T		421.5	87.8	32	259	487					
TOTAL		39.7	8.3	40,141	43,757	47,372	66	16	7		

TC		PSTNDSUM											Stand Table Summary			Page	1
													Date:	5/9/2013			
		T02N R05W S19 Ty00MC		35.00		Project			BYTHEWAY			Time:		8:16:16AM			
						Acres			35.00			Grown Year:					
S Spc	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	
DF		8	1	82	82	2.387	.83	2.39	4.4	20.0	.30	10	48	10	4	2	
DF		9	2	88	90	3.773	1.67	3.77	9.8	55.0	1.06	37	207	37	13	7	
DF		10	3	85	91	4.584	2.50	4.58	12.6	56.7	1.65	58	260	58	20	9	
DF		11	2	88	90	2.525	1.67	3.79	10.8	46.7	1.17	41	177	41	14	6	
DF		12	8	87	102	8.488	6.67	14.85	14.1	59.3	5.96	209	881	209	73	31	
DF		13	9	88	106	8.137	7.50	16.27	14.8	66.7	6.88	241	1,085	241	85	38	
DF		14	5	85	106	3.898	4.17	7.02	19.9	84.4	3.98	140	592	139	49	21	
DF		15	8	90	126	5.432	6.67	13.58	20.8	97.5	8.05	282	1,324	282	99	46	
DF		16	6	86	103	3.581	5.00	7.16	24.5	100.8	5.00	176	722	175	61	25	
DF		17	13	88	119	6.873	10.83	17.45	25.0	109.1	12.42	436	1,903	435	152	67	
DF		18	16	88	123	7.545	13.33	19.81	28.1	120.5	15.87	557	2,386	555	195	84	
DF		19	22	88	126	9.311	18.33	26.66	29.8	131.6	22.65	795	3,509	793	278	123	
DF		20	14	88	128	5.348	11.67	15.66	32.7	148.8	14.58	511	2,330	510	179	82	
DF		21	14	90	134	4.850	11.67	14.20	39.1	186.3	15.82	555	2,647	554	194	93	
DF		22	10	89	133	3.157	8.33	9.47	41.9	197.7	11.31	397	1,872	396	139	66	
DF		23	13	89	136	3.755	10.83	11.26	45.4	210.5	14.56	511	2,371	510	179	83	
DF		24	19	89	133	5.040	15.83	15.12	49.2	227.0	21.22	745	3,432	743	261	120	
DF		25	11	88	135	2.689	9.17	8.07	53.0	246.7	12.19	428	1,990	427	150	70	
DF		26	11	87	137	2.486	9.17	7.68	56.9	267.4	12.47	437	2,055	436	153	72	
DF		27	7	90	142	1.467	5.83	4.82	60.1	302.2	8.26	290	1,457	289	101	51	
DF		28	8	89	133	1.559	6.67	5.07	62.1	312.3	8.97	315	1,582	314	110	55	
DF		29	2	90	148	.363	1.67	1.27	68.8	354.3	2.49	87	451	87	31	16	
DF		30	9	89	133	1.528	7.50	4.58	79.8	398.9	10.42	366	1,828	365	128	64	
DF		31	6	89	137	.954	5.00	2.86	84.7	417.8	6.91	242	1,196	242	85	42	
DF		32	4	89	149	.597	3.33	2.09	80.8	433.6	4.81	169	906	168	59	32	
DF		33	3	90	136	.421	2.50	1.40	88.2	454.0	3.53	124	637	123	43	22	
DF		34	4	90	142	.529	3.33	1.72	97.2	522.3	4.76	167	897	167	58	31	
DF		36	5	89	141	.589	4.17	1.89	109.8	581.3	5.90	207	1,096	207	73	38	
DF		37	1	85	138	.112	.83	.45	83.0	447.5	1.06	37	200	37	13	7	
DF		38	2	88	140	.212	1.67	.74	106.7	585.7	2.25	79	434	79	28	15	
DF		40	1	89	124	.095	.83	.29	131.1	676.7	1.07	38	194	37	13	7	
DF		Totals	239	88	118	102.285	199.17	245.98	35.3	165.3	247.55	8,686	40,669	8,664	3,040	1,423	
RA		12	4	88	96	4.244	3.33	9.55	10.7	46.7	2.81	102	446	98	36	16	
RA		13	3	80	95	2.712	2.50	5.42	12.1	50.0	1.81	66	271	63	23	9	
RA		14	3	92	85	2.339	2.50	3.90	19.3	90.0	2.07	75	351	72	26	12	
RA		16	1	89	61	.597	.83	.60	31.5	90.0	.52	19	54	18	7	2	
RA		17	1	82	46	.529	.83	.53	30.3	70.0	.44	16	37	15	6	1	
RA		18	2	90	84	.943	1.67	1.89	30.5	127.5	1.58	58	241	55	20	8	
RA		19	1	93	95	.423	.83	.85	35.8	190.0	.83	30	161	29	11	6	
RA		Totals	15	87	89	11.787	12.50	22.73	16.1	68.6	10.06	366	1,560	352	128	55	
WH		14	1	88	58	.780	.83	.78	22.4	60.0	.56	17	47	20	6	2	
WH		16	1	95	120	.597	.83	1.79	21.7	103.3	1.24	39	185	43	14	6	
WH		19	1	93	105	.423	.83	.85	41.7	180.0	1.13	35	152	40	12	5	
WH		23	2	93	130	.578	1.67	1.73	49.3	245.0	2.74	85	425	96	30	15	
WH		28	1	93	122	.195	.83	.58	69.2	343.3	1.29	40	201	45	14	7	
WH		32	1	94	139	.149	.83	.45	105.3	580.0	1.51	47	260	53	16	9	
WH		Totals	7	92	103	2.721	5.83	6.18	42.8	205.3	8.47	265	1,269	296	93	44	
BM		9	1	82	49	1.886	.83	1.89	6.4	20.0	.32	12	38	11	4	1	
BM		13	1	89	102	.904	.83	1.81	17.1	75.0	.82	31	136	29	11	5	
BM		14	1	73	108	.780	.83	1.56	14.0	55.0	.58	22	86	20	8	3	

TC	PSTNDSUM	Stand Table Summary										Page	2			
												Date:	5/9/2013			
T02N R05W S19 Ty00MC				35.00		Project				BYTHEWAY		Time:		8:16:16AM		
						Acres				35.00		Grown Year:				
S Spc	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
BM	Totals	3	82	75	3.570	2.50	5.25	12.3	49.3	1.72	65	259	60	23	9	
Totals		264	88	114	120.363	220.00	280.15	33.5	156.2	267.80	9,381	43,757	9,373	3,283	1,531	

VOLUME SUMMARY

(shown in MBF)

By The Way

341-14-50

May 2013

AREAS 1-18: 35 ACRES

SPECIES		2 SAW	3 SAW	4 SAW	Camp run	TOTAL
Douglas-fir	Cruise Volume	970	381	73	0	1,424
	Hidden D&B (5%)	(49)	(19)	(4)	()	(72)
	NET TOTAL	921	362	69	0	1,352
	% of Total	68	27	5		

SPECIES		2 SAW	3 SAW	4 SAW	Camp run	TOTAL
Western hemlock	Cruise Volume	38	3	3	0	44
	Hidden D&B (5%)	(3)	0	0	()	(3)
	NET TOTAL	35	3	3	0	41
	% of Total	85	7	7		

SPECIES		2 SAW	3 SAW	4 SAW	Camp run	TOTAL
Red alder	Cruise Volume	0	0	0	55	55
	Hidden D&B (5%)	()	()	()	(3)	(3)
	NET TOTAL	0	0	0	52	52
	% of Total	0	0	0		

SPECIES		2 SAW	3 SAW	4 SAW	Camp run	TOTAL
Bigleaf maple	Cruise Volume	0	0	0	9	9
	Hidden D&B (5%)	()	()	()	(1)	(1)
	NET TOTAL	0	0	0	8	8
	% of Total	0	0	0		

TOTAL
1,453

