



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Western Flick
Sale 341-11-52

District: Tillamook

Date: November 23, 2010

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$456,897.65	\$13,986.00	\$470,883.65
		Project Work:	\$(68,850.00)
		Advertised Value:	\$402,033.65



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timber description

Location: Portions of Sections 2, 3, 10, and 11, T1N, R8W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	95
Alder (Red)	15	0	90

Volume by Grade	10" - 11"	12"+	2S	3S	4S	6" - 7"	8" - 9"	Total
Douglas - Fir	0	0	229	1,936	882	0	0	3,047
Alder (Red)	27	17	0	0	0	15	25	84
Total	27	17	229	1,936	882	15	25	3,131



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comments: Pond Values Used: 3rd Quarter Calendar Year 2010.

Western Redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost
 $\$620/\text{MBF} = \$850/\text{MBF} - \$230/\text{MBF}$

Pulp (conifer & hardwood) Price = $\$55/\text{MBF}$

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

FUEL COST ALLOWANCE = $\$3.00/\text{Gallon}$

HAULING COST ALLOWANCE

Hauling costs equivalent to $\$700$ daily truck cost.

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

Brand and Paint: $\$2.00/\text{MBF} \times 3,131 \text{ MBF} = \$6,262$

Truck Assist: Area 1 400' @ $\$25/\text{MBF} \times 530 \text{ MBF}$ (to be assisted) =
 $\$13,250$

Cover Material for Piles: $10 \times \$5/\text{pile} = \50

Snag creation by girdling at base:

Area 1: 2 trees/ acre x 66 acres x $\$10/\text{tree} = \$1,320$

Area 2: 2 trees/ acre x 40 acres x $\$10/\text{tree} = \800

TOTAL Other Costs (with Profit & Risk to be added) = $\$21,682$

Other Costs (No Profit & Risk added):

Non-project Roads: Area 2

Road 1: 300' x $\$100/\text{station} = \300

Road 2: 100' x $\$100/\text{station} = \100

Road 3: 50' x $\$100/\text{station} = \50

Tank Trap Construction at Points E, G, and I @ $\$75$ each = $\$225$

Slash Piling and sorting portions of Area 1 accessed by surfaced

roads: $\$2.50/\text{acre} \times 18 \text{ acres} = \45

OHV Filter Construction at junction of Cedar Butte Road and Old
Cedar Creek Trail (Point C) = $\$75$

Damage to OHV Old Cedar Creek Trail beyond the end of road
improvement (Point D) will be at Purchaser's expense to
re-establish hardened waterbars and OHV trail width.

TOTAL Other Costs (No Profit & Risk added) = $\$795$

ROAD MAINTENANCE

Road Maintenance: Cedar Butte Road and Kilchis Forest Road

Interim Grading: $\$250/\text{mile} \times 7.2 \text{ miles} \times 1 \text{ time} / 3,131 \text{ MBF} = \$$
 $0.57/\text{MBF}$

Spot rocking: $20\text{cy}/\text{mile} \times \$18.00/\text{cy} \times 3.1 \text{ MMBF} \times 7.2 \text{ miles} /$
 $3,131 \text{ MBF} = \$2.57/\text{MBF}$

Final Grading: $\$500/\text{mile} \times 7.2 \text{ miles} / 3,131 \text{ MBF} = \$1.15/\text{MBF}$

Compaction of Cedar Butte Road from bridge over Wilson River to
un-surfaced road about 1.4 miles west: ((74 of stations x
 $\$18/\text{station}$) + $\$111$ move-in) / $3,131\text{MBF} = \$0.46/\text{MBF}$

TOTAL ROAD MAINTENANCE COST: $\$4.75/\text{MBF}$



"STEWARDSHIP IN FORESTRY"

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Date: November 23, 2010

logging conditions

combination#: 1 Douglas - Fir 75.58%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Large Tower >=70 **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 10.6 **bd. ft / load:** 4,000
cost / mbf: \$90.42

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Large)

combination#: 2 Alder (Red) 100.00%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Large Tower >=70 **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 4.1 **bd. ft / load:** 3,600
cost / mbf: \$256.34

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Large)

combination#: 3 Douglas - Fir 21.98%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Large Tower >=70 **Process:** Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 4.0 **bd. ft / load:** 3,700
cost / mbf: \$258.49

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Large)

combination#: 4 Douglas - Fir 2.44%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Track Skidder **Process:** Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 13.0 **bd. ft / load:** 3,700
cost / mbf: \$29.90

machines: Stroke Delimber (B)



"STEWARDSHIP IN FORESTRY"

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District: Tillamook

Date: November 23, 2010

logging costs

Operating Seasons:	1.00	Profit Risk:	15.00%
Project Costs:	\$68,850.00	Other Costs (P/R):	\$21,682.00
Slash Disposal:	\$0.00	Other Costs:	\$795.00

Miles of Road

Road Maintenance: \$4.75

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	3.8
Alder (Red)	\$0.00	3.0	3.2



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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									
\$125.88	\$4.99	\$1.40	\$56.06	\$6.92	\$29.29	\$0.00	\$5.00	\$0.25	\$229.79
Alder (Red)									
\$256.34	\$5.22	\$1.40	\$69.75	\$6.92	\$50.94	\$0.00	\$5.00	\$0.25	\$395.82

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$379.74	\$149.95	\$0.00
Alder (Red)	\$0.00	\$562.32	\$166.50	\$0.00



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District: Tillamook

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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,047	\$149.95	\$456,897.65
Alder (Red)	84	\$166.50	\$13,986.00

Gross Timber Sale Value

Recovery: \$470,883.65

Prepared by: David Wells

Phone: 503-842-2545

Pulp Appraisal

Sale Name	Western Flick
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Species	Douglas-fir	Alder		
Stems Per/ac.	185	7		
Acres***	106	106	0	
Total Stems	19610	742	0	
BF/Stem, Conversion	10	10	10	
Total MBF Per/Species	196	7	0	
Pond Value Per/MBF	\$270	\$340	\$0	
*Logging + Hauling Costs	\$181.88	\$326.09	\$0.00	
Stumpage	\$88.12	\$13.91	\$0.00	
Tons Per/MBF, Conversion	10	10	10	
Price Per/Ton	\$8.81	\$1.39	\$0.00	
Total Tons Per/Species	1961	74	0	
Total Value	\$17,280.33	\$103.21	\$0.00	
Less P/R 15%	\$14,688.28	\$82.57	\$0.00	

	Total Price	Price/Ton	Price/MBF	
Total Price	\$17,383.54	\$8.54	\$85.41	
Total Less P/R 35%	\$11,299.30	\$5.55	\$55.52	**

Contract Price	\$55.00
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*Conifer logging & hauling cost based on the Douglas-fir price.

** Pulp price rounded down to nearest whole dollar

*** Areas 1 and 2



"STEWARDSHIP IN FORESTRY"

Western Flick

Volume Summary

Area 1-Modified Clear-cut				
66 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden & Visible D&B	Net Vol MBF
Douglas-fir	21.4	1415	5.8%	1338
Alder	1.2	66	20.0%	55
TOTAL	22.6	1481		1393

Areas 2-Modified Clear-cut				
40 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden & Visible D&B	Net Vol MBF
Douglas-fir	25.6	1022	5.9%	965
Alder	0.8	32	10.3%	29
TOTAL	26.4	1054		994

Areas 3-Partial Cut				
91 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden & Visible D&B	Net Vol MBF
Douglas-fir	8.6	785	5.5%	744
TOTAL	8.6	785		744

TOTAL SALE VOLUME			197 acres	
SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)		
Douglas-fir	3222	3047		
Red Alder	98	84		
TOTAL	3320	3131		



PROJECT SUMMARY SHEET

Sale: Western Flick

CONSTRUCTION

Point	C to D	5+40	stations =	\$1,367.77
Point	E to F	3+85	stations =	\$2,183.57
Point	I to J	5+70	stations =	\$5,209.74
SUBTOTAL CONSTRUCTION				\$8,761.08

IMPROVEMENT

Point	A to B	87+50	stations =	\$4,651.00
Point	C to D	40+50	stations =	\$4,043.71
Point	K to L	3+00	stations =	\$1,257.81
SUBTOTAL IMPROVEMENT				\$9,952.52

RECONSTRUCTION

Point	G to H	19+60	stations =	\$2,356.82
SUBTOTAL RECONSTRUCTION				\$2,356.82

SPECIAL PROJECTS

Stockpile				\$44,440.00
SUBTOTAL SPECIAL PROJECTS				\$44,440.00

MOVE IN **\$3,339.58**

GRAND TOTAL **\$68,850.00**

SUMMARY OF CONSTRUCTION COST

Sale:

Western Flick

Road:

A to B

Construction -	0+00	stations	Improvement -	87+50	stations	Reconstruction -	0+00	stations
	0.00	miles		1.66	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -
Scattering

	0.400	acres @	\$980.00	per acre =	\$392.00	
			TOTAL CLEARING AND GRUBBING		\$392.00	

ROCK
Spot Rock

	100	cy. of	Crushed	@	\$12.24	per c.y.=	\$1,224.00
							TOTAL ROCK
							\$1,224.00

SPECIAL PROJECTS

Re-attach culvert half-round @ 73+00 -	1.50	hours @	\$28.00	per hour	\$42.00	
Grade and shape road -	87.50	stations @	\$20.00	per station	\$1,750.00	
Roll subgrade w/ vibratory roller -	87.50	stations @	\$13.20	per station	\$1,155.00	
Grass seed and fertilize -	0.40	acres @	\$220.00	per acre	\$88.00	
			TOTAL SPECIAL PROJECTS		\$3,035.00	

GRAND TOTAL	\$4,651.00
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SUMMARY OF CONSTRUCTION COST

Sale: **Western Flick**

Road: **C to D**

Construction -	5+40	stations	Improvement -	40+50	stations	Reconstruction -	0+00	stations
	0.10	miles		0.77	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Outslope/Ditch	Cost per Station	=			
40+50		45+90	Outslope	\$185			\$999.00	
							TOTAL	\$999.00

IMPROVEMENT: CLEARING AND GRUBBING -
Scattering

	0.280	acres @	\$980.00	per acre =		\$274.40	
						TOTAL CLEARING AND GRUBBING	\$274.40

IMPROVEMENT: EXCAVATION -
Road Earthwork
Widening

	40.50	sta. @	\$15.00	per sta. =		\$607.50	
	150	cy. @	\$1.40	per c.y. =		\$210.00	
						TOTAL EXCAVATION	\$817.50

IMPROVEMENT: ENDHAUL -

Widening	22+60	to	23+35	55	cy. @	\$0.99	per c.y. =	\$54.45	
Widening	33+00	to	33+75	73	cy. @	\$0.99	per c.y. =	\$72.27	
Widening	33+75	to	34+25	22	cy. @	\$0.99	per c.y. =	\$21.78	
Spread & compact				150	cy. @	\$0.25	per c.y. =	\$37.50	
								TOTAL ENDHAUL	\$186.00

ROCK

0+00 to	1+00		50	cy. of	Crushed	@	\$10.81	per c.y. =	\$540.50
Junction Rock	0+00		20	cy. of	Crushed	@	\$10.80	per c.y. =	\$216.00
								TOTAL ROCK	\$756.50

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	\$130.00	per hour		\$130.00	
Improve ditchouts -	25.00	@	\$20.00	each		\$500.00	
Grade and shape road -	45.90	stations @	\$14.00	per station		\$642.60	
Construct landing at point D -	1.00	@	\$250.00	each		\$250.00	
Construct turnaround -	1.00	@	\$75.00	each		\$75.00	
Roll subgrade w/ vibratory roller prior to rocking -	45.90	stations @	\$13.20	per station		\$605.88	
Grass seed and fertilize -	0.63	acres @	\$220.00	per acre		\$138.60	
Mulching -	0.060	acres @	\$600.00	per acre		\$36.00	
						TOTAL SPECIAL PROJECTS	\$2,378.08

GRAND TOTAL **\$5,411.48**

SUMMARY OF CONSTRUCTION COST

Sale:

Western Flick

Road:

E to F

Construction -	3+85	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.07	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	
0+00		1+50	45%		Outslope	\$269	=	\$403.50
1+50		2+30	20%		Outslope	\$139	=	\$111.20
2+30		3+15	30%		Outslope	\$191	=	\$162.35
3+15		3+85	10%		Outslope	\$90	=	\$63.00
TOTAL								\$740.05

ROCK								
0+00 to		1+00	50	cy. of	Crushed	@	\$10.92 per c.y.=	\$546.00
Junction Rock		0+00	20	cy. of	Crushed	@	\$10.91 per c.y.=	\$218.20
TOTAL ROCK								\$764.20

SPECIAL PROJECTS								
Construct turnaround -	1.00							
		@				\$75.00	each	\$75.00
Construct fill near point E -	2.00					\$130.00	per hour	\$260.00
Grade and shape road -	3.85					\$14.00	per station	\$53.90
Construct landing at point F -	1.00					\$200.00	each	\$200.00
Roll subgrade w/ vibratory roller prior to rocking -	3.85					\$13.20	per station	\$50.82
Grass seed and fertilize -	0.18					\$220.00	per acre	\$39.60
TOTAL SPECIAL PROJECTS								\$679.32

GRAND TOTAL **\$2,183.57**

SUMMARY OF CONSTRUCTION COST

Sale: **Western Flick**

Road: **G to H**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	19+60	stations
	0.00	miles		0.00	miles		0.37	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	0.900	acres @	\$980.00 per acre =	\$882.00	
TOTAL CLEARING AND GRUBBING				\$882.00	

ROCK

0+00 to	1+00	50 cy. of	Crushed	@	\$11.65 per c.y. =	\$582.50
Junction Rock	0+00	20 cy. of	Crushed	@	\$11.64 per c.y. =	\$232.80
TOTAL ROCK						\$815.30

SPECIAL PROJECTS

Grade and shape road -	19.60	stations @	\$15.50	per station	\$303.80
Roll subgrade w/ vibratory roller prior to rocking -	19.60	stations @	\$13.20	per station	\$258.72
Grass seed and fertilize -	0.25	acres @	\$220.00	per acre	\$55.00
Mulching -	0.070	acres @	\$600.00	per acre	\$42.00
TOTAL SPECIAL PROJECTS					\$659.52

GRAND TOTAL **\$2,356.82**

SUMMARY OF CONSTRUCTION COST

Sale:

Western Flick

Road:

I to J

Construction -	5+70	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.11	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	<u>Avg. Dist.</u> To W.A. (mi.)	Outslope/Ditch	Cost per Station	=		
0+00		5+70			Outslope	\$720	=	\$4,104.00	
								TOTAL	\$4,104.00

ROCK

0+00	to	1+00	50	cy. of	Crushed	@	\$11.85 per c.y.=	\$592.50	
Junction Rock		0+00	20	cy. of	Crushed	@	\$11.85 per c.y.=	\$237.00	
								TOTAL ROCK	\$829.50

SPECIAL PROJECTS

Grade and shape road -	5.70	stations @	\$14.00	per station	\$79.80	
Construct turnaround -	1.00	@	\$75.00	each	\$75.00	
Roll subgrade w/ vibratory roller prior to rocking -	5.70	stations @	\$13.20	per station	\$75.24	
Grass seed and fertilize -	0.21	acres @	\$220.00	per acre	\$46.20	
					TOTAL SPECIAL PROJECTS	\$276.24

GRAND TOTAL **\$5,209.74**

SUMMARY OF CONSTRUCTION COST

Sale: **Western Flick**

Road: **K to L**

Construction -	0+00	stations	Improvement -	3+00	stations	Reconstruction -	0+00	stations
	0.00	miles		0.06	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast pull back	0.041	acres @	\$660.00 per acre =	\$27.06	
			TOTAL CLEARING AND GRUBBING		\$27.06

IMPROVEMENT: EXCAVATION -

Pullback	260	cy. @	\$1.40 per c.y.=	\$364.00	
			TOTAL EXCAVATION		\$364.00

IMPROVEMENT: ENDHAUL -

Pullback	0+45	to	1+45	260	cy. @	\$2.45 per c.y.=	\$637.00
Spread & compact				260	cy. @	\$0.25 per c.y.=	\$65.00
						TOTAL ENDHAUL	\$702.00

ROCK

Fill Armor	0+00		10	cy. of	Riprap	@	\$6.16 per c.y.=	\$61.60
Energy Dissipator	3+00		5	cy. of	Riprap	@	\$6.15 per c.y.=	\$30.75
							TOTAL ROCK	\$92.35

SPECIAL PROJECTS

Re-compact with loaded rock truck -	3.00	stations @	\$13.20 per station	\$39.60	
Grass seed and fertilize -	0.04	acres @	\$220.00 per acre	\$8.80	
Mulching -	0.040	acres @	\$600.00 per acre	\$24.00	
			TOTAL SPECIAL PROJECTS		\$72.40

GRAND TOTAL	\$1,257.81
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SUMMARY OF CONSTRUCTION COST

Sale:

Western Flick

Road:

Stockpile

ROCK								
Stockpile	4,000	cy. of	Crushed	@	\$10.99	per c.y. =	\$43,960.00	
							TOTAL ROCK	\$43,960.00
SPECIAL PROJECTS								
Exploratory drilling at crushing pit -	4.00	hours @			\$120.00	per hour	\$480.00	
							TOTAL SPECIAL PROJECTS	\$480.00
							GRAND TOTAL	\$44,440.00

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed	Location:	SE 1/4 SE 1/4, Sec. 10, T1N, R8W, W.M.
Safe:	Western Flick		4395 c.y.
Swell:	1.40		c.y.
Shrinkage:	1.16	Total Truck Loads:	4395 c.y.
Drill Pct.:	80%	In Place Total:	3139 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.					\$354.08
Drill & Shoot:	\$2.50 /cu.yd.	x	2511 cu.yds.	=	\$6,277.50
Rip Rock:	\$1.90 /cu.yd.	x	628 cu.yds.	=	\$1,193.20
Push Rock:	\$0.60 /cu.yd.	x	4395 cu.yds.	=	\$2,637.00
Load Crusher:	\$0.60 /cu.yd.	x	4395 cu.yds.	=	\$2,637.00
Crush Rock:	\$2.77 /cu.yd.	x	4395 cu.yds.	=	\$12,174.15
Load Dump Truck:	\$0.70 /cu.yd.	x	4395 cu.yds.	=	\$3,076.50

Subtotal **\$28,349.43**

Move In/Set-up Crusher	1	@	\$2,520.00	=	\$2,520.00
Move In and set up Drill and Compressor	1	@	\$573.08	=	\$573.08
Move in Roller and Compactor	1	@	\$573.08	=	\$573.08
Move in Grader	1	@	\$172.77	=	\$172.77
Move in D-8	1	@	\$820.33	=	\$820.33
Move in Loader	1	@	\$682.11	=	\$682.11
Move in Excavator	1	@	\$900.94	=	\$900.94
Move in Trucks	3	@	\$188.64	=	\$565.92
Move in Water Truck	1	@	\$221.74	=	\$221.74

Subtotal **\$7,029.97**

Base Cost= **\$8.05** Per Cu. Yd.

TOTAL PRODUCTION COSTS \$35,379.40

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Spot Rock (Crushed)	1.74	2.25	8.05	12.24	100	\$1,224.00
C to D 0 100 (Crushed)	1.66	1.10	8.05	10.81	50	\$540.50
C to D Junction Rock (Crushed)	1.65	1.10	8.05	10.80	20	\$216.00
E to F 0 100 (Crushed)	1.77	1.10	8.05	10.92	50	\$546.00
E to F Junction Rock (Crushed)	1.76	1.10	8.05	10.91	20	\$218.20
G to H 0 100 (Crushed)	2.50	1.10	8.05	11.65	50	\$582.50
G to H Junction Rock (Crushed)	2.49	1.10	8.05	11.64	20	\$232.80
I to J 0 100 (Crushed)	2.70	1.10	8.05	11.85	50	\$592.50
I to J Junction Rock (Crushed)	2.70	1.10	8.05	11.85	20	\$237.00
K to L Fill Armor (Riprap)	4.16	1.40	0.50	6.16	10	\$61.60
K to L Energy Dissipator (Riprap)	4.15	1.40	0.50	6.15	5	\$30.75
Stockpile Stockpile (Crushed)	1.94	1.00	8.05	10.99	4000	\$43,960.00
				Total C.Y.	4395	Sub Total \$48,441.85

TOTAL ROCKING COSTS \$48,441.85

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Western Flick**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
35.0	Pavement	30
12.0	Main Lines	7
3.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Drill & Compressor	\$636.77		\$46.00	0.00	0.00	0	\$0.00	\$636.77
1	Excavators (Large)	\$927.78	1	\$44.80	0.00	5.50	5.49	\$245.95	\$1,173.73
1	Tractor (D8)	\$874.00	2	\$15.10	0.00	0.00	0	\$0.00	\$874.00
2	Dump Truck (10 cy +)	\$466.44		\$2.85	0.00	0.00	0	\$0.00	\$466.44
1	Water Truck (1500 Gal)	\$188.64		\$2.85	0.00	0.00	0	\$0.00	\$188.64
TOTAL MOVE-IN COSTS:									\$3,339.58

TC TLOGSTVB

Log Stock Table - MBF
Project: **WSTNFLK**

T01N R08W S02 TSALE

T01N R08W S02 TSAL

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 01N 08W 02 100 SALE 66.00 14 83 Date 10/18/2010
 Time 3:22:09PM

SPP	S T	So Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
DF	CO	2	32		44	5.0	42	3.1					28	14					
DF	CO	2	36		13	5.0	12	.9					12						
DF	CO	2	40		48	5.0	45	3.4					45						
DF	CO	3	23		13	5.0	12	.9				12							
DF	CO	3	24		13	5.0	13	1.0				13							
DF	CO	3	26		9	5.0	8	.6				8							
DF	CO	3	30		5	5.0	4	.3			4								
DF	CO	3	32		401	5.0	381	28.5		167	149	44	21						
DF	CO	3	36		235	5.8	222	16.6		30	103	88							
DF	CO	3	40		178	7.6	164	12.3		4	69	91							
DF	CO	4	13		1	5.0	1	.1		1									
DF	CO	4	15		2	5.0	2	.1		2									
DF	CO	4	17		4	5.0	4	.3		4									
DF	CO	4	18		9	5.0	8	.6		8									
DF	CO	4	19		5	5.0	5	.3		5									
DF	CO	4	21		2	5.0	2	.1		2									
DF	CO	4	22		6	5.0	6	.4		6									
DF	CO	4	23		15	5.0	14	1.1		9	5								
DF	CO	4	24		25	5.0	24	1.8		16	8								
DF	CO	4	25		12	5.0	12	.9		10	2								
DF	CO	4	28		16	5.0	15	1.1		15									
DF	CO	4	29		24	5.0	23	1.7		23									
DF	CO	4	30		29	5.0	28	2.1		14	14								
DF	CO	4	31		19	5.0	18	1.3		18									
DF	CO	4	32		31	5.0	29	2.2		29									
DF	CO	4	33		9	5.0	9	.6		9									
DF	CO	4	34		45	5.0	43	3.2		43									
DF	CO	4	35		26	5.0	25	1.9		25									
DF	CO	4	36		10	5.0	9	.7		9									
DF	CO	4	37		30	5.0	29	2.2		29									
DF	CO	4	38		13	5.0	13	1.0		9	4								
DF	CO	4	40		105	5.0	100	7.5		88	12								
DF	CO	4	41		16	5.0	16	1.2		16									
DF	Totals				1,415	5.5	1,338	93.6		387	243	330	244	119	14				
RA	H	3	20		7	19.0	6	8.3					6						
RA	H	3	21		2	10.0	2	2.8		2									
RA	H	3	32		14	19.5	11	15.7					11						
RA	H	3	40		33	10.0	29	41.3			14	15							
RA	H	4	20		3	10.0	2	3.3		2									
RA	H	4	28		3	10.0	2	3.4		2									
RA	H	4	32		4	10.0	3	4.6		3									
RA	H	UT	15		11	10.0	10	13.8											
RA	H	UT	17		5	10.0	5	6.8				5							
RA	Totals				81	12.4	71	5.0		10	14	20	17		10				
DL	CO	2	32		14		14	66.7						14					
DL	CO	3	32		6		6	28.6				6							
DL	CO	4	15		1		1	4.8		1									
DL	Totals				21		21	1.5		1		6		14					

TC TLOGSTVB

Log Stock Table - MBF

Project: **WSTNFLK**

T01N R08W S02 TSALE

T01N R08W S02 TSAL

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2
01N	08W	02	100	SALE	66.00	14	83	Date	10/18/2010
								Time	3:22:09PM

S Spp	So T	Gr rt	Log de	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
Total All Species					1,517	5.8	1,430	100.0		387	254	344	270	136	29	10		

TC TLOGSIVB

Log Stock Table - MBF
Project: **WSTNFLK**

T01N R08W S02 TSALE

T01N R08W S02 TSAL

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 01N 08W 02 200 SALE 40.00 7 47 1
 Date 10/18/2010
 Time 3:24:42PM

SPP	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches												
										MBF	Def	MBF	SpC	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
DF		CO	2	30	11	5.0	10	1.1						10								
DF		CO	2	32	107	5.0	102	10.5						64								
DF		CO	2	40	19	5.0	18	1.9														
DF		CO	3	32	305	6.4	286	29.6			65	79	108	34								
DF		CO	3	36	53	5.0	51	5.2				16	35									
DF		CO	3	40	312	5.4	295	30.6			9	67	111	87	20							
DF		CO	4	10																		
DF		CO	4	14	9	5.0	9	.9						9								
DF		CO	4	20	6	5.0	5	.5					5									
DF		CO	4	21	3	5.0	3	.3			3											
DF		CO	4	22	2	5.0	2	.2			2											
DF		CO	4	23	9	5.0	9	.9			9											
DF		CO	4	24	10	5.0	9	1.0			9											
DF		CO	4	25	10	5.0	9	1.0			3	7										
DF		CO	4	26	5	5.0	5	.5			5											
DF		CO	4	27	11	5.0	10	1.0			10											
DF		CO	4	28	4	5.0	4	.4			4											
DF		CO	4	29	8	5.0	7	.8			4	3										
DF		CO	4	31	14	5.0	13	1.3			10	3										
DF		CO	4	32	13	5.0	12	1.3			6	7										
DF		CO	4	33	17	5.0	16	1.6			8	8										
DF		CO	4	34	6	5.0	5	.5			5											
DF		CO	4	36	16	5.0	15	1.6			9	6										
DF		CO	4	37	18	5.0	18	1.8			18											
DF		CO	4	38	11	5.0	11	1.1			11											
DF		CO	4	40	45	7.1	42	4.3			19	22										
DF		Totals			1,022	5.6	965	92.4			133	129	168	263	196	75						
DL		CO	2	32	20		20	38.8													20	
DL		CO	2	36	15		15	29.1								15						
DL		CO	3	32	10		10	19.4						10								
DL		CO	3	38	4		4	7.8			4											
DL		CO	4	29	2		2	4.9			2											
DL		Totals			50		50	4.8			6			10		15	20					
RA		H	3	32	26	10.0	23	78.9			11	12										
RA		H	4	13	4	10.0	3	11.1			3											
RA		H	4	21	3	10.0	3	10.0			3											
RA		Totals			32	10.0	29	2.8			6	11	12									
Total All Species					1,105	5.5	1,044	100.0			133	142	179	275	206	90	20					

Stand Table Summary																
TC TSTNDSUM		Project WSTNFLK														
T01N R08W S02 TSALE										T01N R08W S02 TSALE						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
01N	08W	02	300	SALE	91.00	19	108	Date:	10/18/2010							
								Time:	3:19:18PM							
Spc	S T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DL		10	1	83	80	3.243	1.77	3.24	13.6	40.0	1.22	44	130	111	40	12
DL		12	4	80	104	9.209	7.08	18.42	12.1	48.9	6.11	222	900	556	202	82
DL		13	2	78	91	3.838	3.54	5.76	18.3	56.7	2.89	105	326	263	96	30
DL		14	1	87	108	1.655	1.77	3.31	19.0	80.0	1.73	63	265	157	57	24
DL		15	4	82	101	5.766	7.08	11.53	20.5	77.5	6.53	236	894	594	215	81
DL		16	6	82	101	7.601	10.61	15.20	23.8	86.7	9.95	362	1,318	906	329	120
DL		17	9	82	109	10.100	15.92	23.57	24.3	91.4	15.74	572	2,155	1,432	520	196
DL		18	10	83	104	10.010	17.69	23.02	27.9	102.6	17.64	642	2,362	1,606	584	215
DL		19	8	81	104	7.187	14.15	16.17	31.1	106.1	13.86	504	1,716	1,261	458	156
DL		20	9	80	110	7.297	15.92	18.65	31.8	117.4	16.32	592	2,189	1,486	539	199
DL		21	4	81	107	2.942	7.08	6.62	39.3	133.3	7.15	260	883	651	237	80
DL		22	3	75	108	2.010	5.31	5.36	33.7	101.3	4.97	181	543	452	165	49
DL		23	1	80	115	.613	1.77	1.23	52.9	160.0	1.78	65	196	162	59	18
DL		24	1	82	109	.563	1.77	1.13	58.6	215.0	1.82	66	242	165	60	22
DL		25	1	75	129	.519	1.77	1.56	30.8	130.0	1.32	48	202	120	44	18
DL		Totals	64	81	103	72.555	113.21	154.76	25.6	92.5	109.03	3,962	14,321	9,922	3,606	1,303
DF		8	1	89	86	5.068	1.77	5.07	8.1	38.0	1.17	41	193	106	37	18
DF		9	2	78	108	8.008	3.54	12.01	8.7	38.0	2.98	104	456	271	95	42
DF		10	6	79	89	19.460	10.61	29.19	9.5	36.9	7.91	277	1,078	720	252	98
DF		11	7	83	98	18.763	12.38	34.85	10.8	43.1	10.74	377	1,502	977	343	137
DF		12	5	82	104	11.261	8.84	22.52	12.5	47.5	8.00	281	1,070	728	256	97
DF		13	3	82	98	5.757	5.31	11.51	14.5	50.7	4.75	167	583	432	152	53
DF		14	2	85	96	3.309	3.54	8.27	14.5	58.9	3.42	120	487	311	109	44
DF		15	3	82	102	4.324	5.31	10.09	18.2	65.1	5.24	184	657	477	167	60
DF		16	6	83	95	7.601	10.61	13.94	21.7	78.6	8.63	303	1,095	785	275	100
DF		17	4	83	95	4.489	7.08	10.10	22.3	78.1	6.41	225	789	583	205	72
DF		18	1	89	101	1.001	1.77	2.00	32.8	114.0	1.87	66	228	170	60	21
DF		19	1	72	88	.898	1.77	1.80	26.6	71.2	1.36	48	128	124	43	12
DF		Totals	41	82	96	89.941	72.53	161.35	13.6	51.2	62.47	2,192	8,268	5,685	1,995	752
WH		27	1	85	112	.445	1.77	.89	79.5	308.7	2.26	71	275	206	64	25
WH		Totals	1	85	112	.445	1.77	.89	79.5	308.7	2.26	71	275	206	64	25
RA		11	2	74	85	5.361	3.54	5.36	17.7	49.5	2.58	95	265	235	86	24
RA		Totals	2	74	85	5.361	3.54	5.36	17.7	49.5	2.58	95	265	235	86	24
Totals		108	81	99		168.302	191.05	322.37	19.6	71.7	176.35	6320	23,129	16,048	5,751	2,105

TC TSTNDSUM

Stand Table Summary

Project **WSTNFLK**

T01N R08W S02 TSALE

T01N R08W S02 TSALE

Twp Rge Sec Tract
01N 08W 02 300

Type Acres Plots Sample Trees
SALE 91.00 19 108

Page: **1**
 Date: **10/18/2010**
 Time: **3:19:18PM**

Spc	S T	Sample			Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DL		10	1	83	80	3.243	1.77	3.24	13.6	40.0	1.22	44	130	111	40	12
DL		12	4	80	104	9.209	7.08	18.42	12.1	48.9	6.11	222	900	556	202	82
DL		13	2	78	91	3.838	3.54	5.76	18.3	56.7	2.89	105	326	263	96	30
DL		14	1	87	108	1.655	1.77	3.31	19.0	80.0	1.73	63	265	157	57	24
DL		15	4	82	101	5.766	7.08	11.53	20.5	77.5	6.53	236	894	594	215	81
DL		16	6	82	101	7.601	10.61	15.20	23.8	86.7	9.95	362	1,318	906	329	120
DL		17	9	82	109	10.100	15.92	23.57	24.3	91.4	15.74	572	2,155	1,432	520	196
DL		18	10	83	104	10.010	17.69	23.02	27.9	102.6	17.64	642	2,362	1,606	584	215
DL		19	8	81	104	7.187	14.15	16.17	31.1	106.1	13.86	504	1,716	1,261	458	156
DL		20	9	80	110	7.297	15.92	18.65	31.8	117.4	16.32	592	2,189	1,486	539	199
DL		21	4	81	107	2.942	7.08	6.62	39.3	133.3	7.15	260	883	651	237	80
DL		22	3	75	108	2.010	5.31	5.36	33.7	101.3	4.97	181	543	452	165	49
DL		23	1	80	115	.613	1.77	1.23	52.9	160.0	1.78	65	196	162	59	18
DL		24	1	82	109	.563	1.77	1.13	58.6	215.0	1.82	66	242	165	60	22
DL		25	1	75	129	.519	1.77	1.56	30.8	130.0	1.32	48	202	120	44	18
DL		Totals	64	81	103	72.555	113.21	154.76	25.6	92.5	109.03	3,962	14,321	9,922	3,606	1,303
DF		8	1	89	86	5.068	1.77	5.07	8.1	38.0	1.17	41	193	106	37	18
DF		9	2	78	108	8.008	3.54	12.01	8.7	38.0	2.98	104	456	271	95	42
DF		10	6	79	89	19.460	10.61	29.19	9.5	36.9	7.91	277	1,078	720	252	98
DF		11	7	83	98	18.763	12.38	34.85	10.8	43.1	10.74	377	1,502	977	343	137
DF		12	5	82	104	11.261	8.84	22.52	12.5	47.5	8.00	281	1,070	728	256	97
DF		13	3	82	98	5.757	5.31	11.51	14.5	50.7	4.75	167	583	432	152	53
DF		14	2	85	96	3.309	3.54	8.27	14.5	58.9	3.42	120	487	311	109	44
DF		15	3	82	102	4.324	5.31	10.09	18.2	65.1	5.24	184	657	477	167	60
DF		16	6	83	95	7.601	10.61	13.94	21.7	78.6	8.63	303	1,095	785	275	100
DF		17	4	83	95	4.489	7.08	10.10	22.3	78.1	6.41	225	789	583	205	72
DF		18	1	89	101	1.001	1.77	2.00	32.8	114.0	1.87	66	228	170	60	21
DF		19	1	72	88	.898	1.77	1.80	26.6	71.2	1.36	48	128	124	43	12
DF		Totals	41	82	96	89.941	72.53	161.35	13.6	51.2	62.47	2,192	8,268	5,685	1,995	752
WH		27	1	85	112	.445	1.77	.89	79.5	308.7	2.26	71	275	206	64	25
WH		Totals	1	85	112	.445	1.77	.89	79.5	308.7	2.26	71	275	206	64	25
RA		11	2	74	85	5.361	3.54	5.36	17.7	49.5	2.58	95	265	235	86	24
RA		Totals	2	74	85	5.361	3.54	5.36	17.7	49.5	2.58	95	265	235	86	24
Totals			108	81	99	168.302	191.05	322.37	19.6	71.7	176.35	6320	23,129	16,048	5,751	2,105

TC		TSTNDSUM											Stand Table Summary			
Project													WSTNFLK			
T01N R08W S02 TSALE											T01N R08W S02 TSALE					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1		Date:	10/27/2010				
01N	08W	02	200	SALE	40.00	7	47	Time:	2:59:08PM							
Sp	S	DBH	Sample Trees	FF	Av Ht	Trees/	BA/	Logs	Average Log		Tons/	Net	Net	Totals		
									Net	Net				Acres	Cu.Ft.	Bd.Ft.
DF		10	2	88	85	17.607	9.60	26.41	9.2	41.2	6.90	242	1,087	276	97	43
DF		11	1	83	95	7.275	4.80	14.55	9.7	38.0	4.04	142	553	162	57	22
DF		12	3	83	99	18.340	14.40	36.68	11.3	44.3	11.80	414	1,626	472	166	65
DF		13	1	84	104	5.209	4.80	10.42	15.4	57.0	4.58	161	594	183	64	24
DF		14	2	86	58	8.983	9.60	17.97	10.1	40.4	5.17	181	725	207	73	29
DF		15	5	85	100	19.563	24.01	31.30	20.5	70.1	18.28	641	2,193	731	257	88
DF		16	7	82	94	24.071	33.61	51.58	21.7	74.7	31.90	1,117	3,855	1,276	447	154
DF		17	2	78	109	6.092	9.60	15.23	22.5	74.1	9.76	342	1,129	390	137	45
DF		18	4	82	107	10.868	19.21	24.45	29.1	104.5	20.28	711	2,555	811	285	102
DF		19	6	82	111	14.631	28.81	34.14	32.5	112.6	31.64	1,109	3,846	1,265	444	154
DF		20	4	79	118	8.803	19.21	24.21	29.9	104.5	20.66	724	2,530	826	290	101
DF		21	1	80	99	1.996	4.80	3.99	40.2	114.0	4.57	161	455	183	64	18
DF		22	3	77	115	5.457	14.40	10.91	44.0	152.0	13.67	480	1,659	547	192	66
DF		23	2	78	115	3.328	9.60	8.32	45.0	157.7	10.68	375	1,312	427	150	52
DF		Totals	43	83	98	152.224	206.46	310.17	21.9	77.8	193.94	6,801	24,119	7,757	2,720	965
DL		24	1	81	118	1.528	4.80	4.59	40.6	173.3	5.12	186	795	205	74	32
DL		25	1	71	103	1.409	4.80	2.82	58.1	165.0	4.50	164	465	180	65	19
DL		Totals	2	76	111	2.937	9.60	7.40	47.2	170.2	9.62	350	1,260	385	140	50
RA		14	1	76	78	4.491	4.80	8.98	11.9	40.5	2.95	107	364	118	43	15
RA		18	1	73	74	2.717	4.80	5.43	25.7	67.5	3.84	140	367	154	56	15
RA		Totals	2	75	76	7.209	9.60	14.42	17.1	50.7	6.79	247	731	272	99	29
Totals			47	82	98	162.370	225.67	331.99	22.3	78.6	210.35	7397	26,109	8,414	2,959	1,044

TC		TSTNDSUM		Stand Table Summary												
Project												WSTNFLK				
T01N R08W S02 TSALE												T01N R08W S02 TSALE				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1		Date: 10/27/2010					
01N	08W	02	100	SALE	66.00	14	83	Time:	2:56:51PM							
Spc	S T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		8	1	78	64	6.878	2.40	6.88	7.5	28.5	1.47	52	196	97	34	13
DF		9	9	82	88	48.907	21.61	59.78	8.8	36.3	14.94	524	2,168	986	346	143
DF		10	4	84	114	17.607	9.60	30.81	9.6	42.1	8.43	296	1,296	556	195	86
DF		11	8	82	97	29.102	19.21	50.93	9.8	40.7	14.29	501	2,073	943	331	137
DF		12	5	80	93	15.283	12.00	30.57	11.8	45.6	10.32	362	1,394	681	239	92
DF		13	7	83	99	18.232	16.81	36.46	15.3	56.3	15.95	560	2,054	1,052	369	136
DF		14	7	81	99	15.720	16.81	33.69	16.1	58.3	15.47	543	1,963	1,021	358	130
DF		15	8	83	90	15.650	19.21	29.34	20.0	70.3	16.75	588	2,063	1,106	388	136
DF		16	7	83	101	12.036	16.81	25.79	22.1	78.5	16.24	570	2,025	1,072	376	134
DF		17	4	84	102	6.092	9.60	13.71	24.7	88.7	9.64	338	1,215	636	223	80
DF		18	4	81	103	5.434	9.60	12.23	26.9	87.6	9.35	329	1,071	617	217	71
DF		19	5	78	93	6.096	12.00	12.19	29.1	91.2	10.10	355	1,112	667	234	73
DF		20	3	81	74	3.301	7.20	4.40	35.0	104.5	4.40	154	460	290	102	30
DF		21	4	80	111	3.992	9.60	9.98	34.5	115.9	9.83	345	1,157	648	227	76
DF		22	1	88	44	.909	2.40	.91	20.9	19.0	.54	19	17	36	13	1
DF	Totals		77	82	95	205.240	184.86	357.66	15.5	56.7	157.70	5,534	20,265	10,408	3,652	1,338
RA		15	1	78	92	1.956	2.40	3.91	21.6	63.0	2.32	84	246	153	56	16
RA		16	1	82	85	1.719	2.40	1.72	38.8	135.0	1.84	67	232	121	44	15
RA		18	1	59	72	1.359	2.40	2.72	18.7	40.5	1.40	51	110	92	34	7
RA		20	2	82	97	2.201	4.80	5.50	26.0	88.2	3.94	143	485	260	94	32
RA	Totals		5	77	88	7.235	12.00	13.85	24.9	77.5	9.49	345	1,074	627	228	71
DL		24	1	76	106	.764	2.40	2.29	36.0	140.0	2.27	83	321	150	55	21
DL	Totals		1	76	106	.764	2.40	2.29	36.0	140.0	2.27	83	321	150	55	21
Totals			83	82	95	213.239	199.26	373.81	15.9	57.9	169.47	5962	21,660	11,185	3,935	1,430



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Western Flick*

1. **Type of Sale**
Regeneration/ partial cut harvest, Recovery
2. **Legal Description**
Sections 2, 3, 10, and 11 T1N, R8W, W.M. Tillamook County, Oregon
3. **Sale Acreage**
Sale acreage was determined by GPS and orthophotographs along with GIS.

ACRES

	<u>Gross</u>	<u>Net</u>
Area 1 (Modified clearcut)	73	66
Area 2 (Modified clearcut)	43	40
Area 3 (Partial cut)	97	91

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures**

A. **Cruise Method**

A rectangular grid was used with plots 350' apart on lines running N45°W spaced 700' apart. All conifers 8 inches DBH and containing 20 board feet and hardwoods 10 inches DBH containing 30 board feet were recorded on all plots. On each plot trees were evaluated for species, merchantable height, diameter, and form factor.

Cruise Statistics (Board Foot Volumes)			
Area	Number of Plots	SE (%)	CV (%)
1	14	6.6	59.8
2	7	8.1	55.5
3	19	5.5	56.7

B. **Plot size**

A basal area factor of 33.61 was used and trees were observed at 4.5 feet.

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Tree heights were recorded to a 6" top outside bark for all conifers and 7" top outside bark for hardwoods; or three tenths (0.3) of DBH for all species. Height and diameter measurement standards were to the nearest foot or inch respectively.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, stand tables, and volume for each species and type. This data was then entered into the Volume Summary table to compute sale volumes. Snag volume is included in Douglas-fir leave trees on Areas 1 and 2.

6. Hidden Defect and Breakage

A 5% and 10% hidden defect and breakage was applied to conifers and hardwoods respectively in addition to visible defect deducted during cruising.

7. Timber Description

Area 1 (Modified clearcut) - This stand is approximately 50 years old, consisting of Douglas-fir with patches of Red alder. The Douglas-fir averages 12.9 inches in DBH, with an average merchantable height of 61 feet to a merchantable top (5" d.i.b.). The Red alder averages 17.4 inches in DBH, with an average merchantable height of 55 feet to a merchantable top (6" d.i.b.). This area burned in the 1933 Tillamook fire and again in the 1939 Saddle Mountain Fire and then planted / seeded in 1959-1960. There has not been any past management activities in this stand.

Area 2 (Modified clearcut) - This stand is approximately 52 years old, consisting of Douglas-fir with patches of Red alder. The Douglas-fir averages 15.8 inches in DBH, with an average merchantable height of 72 feet to a merchantable top (5" d.i.b.). The Red alder averages 15.6 inches in DBH, with an average merchantable height of 52 feet to a merchantable top (6" d.i.b.). This area burned in the 1933 Tillamook fire and again in the 1939 Saddle Mountain Fire and then planted / seeded in 1957-1958. A wet snow event in 2008 knocked over and broke tops out of many trees on the steeper slopes in this area. There has not been any past management activities in this stand.

Area 3 (Partial cut) - This stand is approximately 52 years old, consisting of Douglas-fir with patches of Red alder. The Douglas-fir averages 16.9 inches in DBH, with an average merchantable height of 77 feet to a merchantable top (5" d.i.b.). The Red alder averages 11.0 inches in DBH, with an average merchantable height of 43 feet to a merchantable top (6" d.i.b.). This area burned in the 1933 Tillamook fire and again in the 1939 Saddle Mountain Fire

and then planted / seeded in 1957-1958. Approximately 10 acres of alder were sprayed in this stand in the 1970's. This area was pre-commercially thinned in 1991.

8. **Cruiser Names/Dates**

The sale areas were contract cruised in 2010.

9. **Revenue Distribution**

100% FDF

Tax Code: 56

Deed Numbers: 96, 138, 161

10. **Attachments**

Stand Tables

Volume Summary

Log Stock Tables

Logging Plan

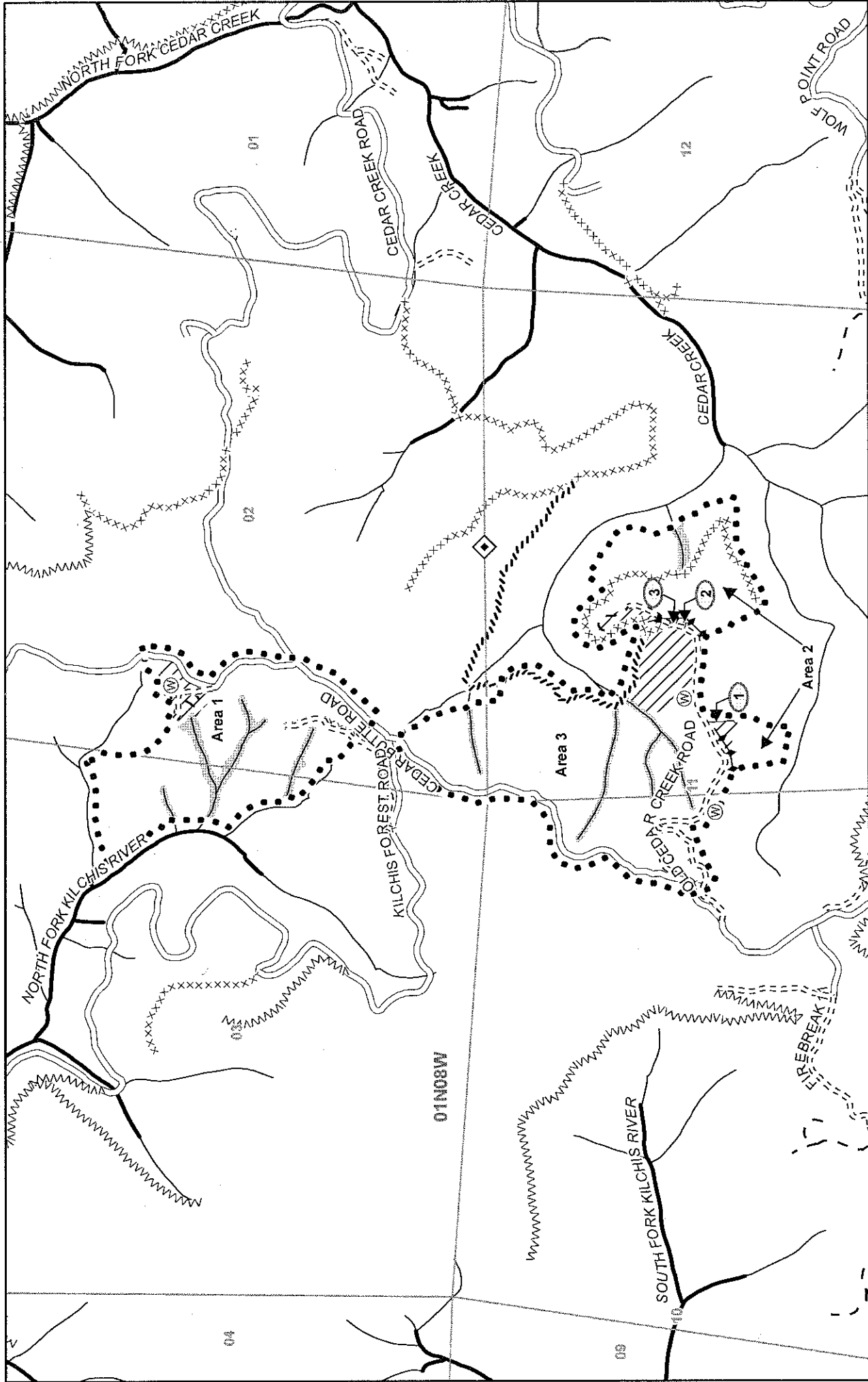
11. **Stand and Log Stock Tables Species Key**

DL – Douglas-fir leave

DF – Douglas-fir take

RA – Red alder take

WH – Western hemlock leave



	Rock source		Swing road
	Stock pile		Non-project road
	Waste area		Blocked road
	Bridge		OHV trail
	Gate		Non-motorized trail
	Survey corner		Transmission line
	Domestic water supply intake		Railroad
	Truck turn-around		
	Helicopter landing zone		
	Cultural site		
	Area boundary		
	Sale boundary		
	Ownership boundary		
	Perennial Type-F stream		
	Perennial Type-N stream		
	Unsurfaced road		
	Surfaced road		
	Paved road		
	Abandoned road		

LOGGING PLAN
 Timber Sale Contract No. 341-11-52
WESTERN FLICK
 Portions of Sections 2, 3, 10 and 11
 T1N, R8W, W.M.,
 Tillamook County, Oregon

1,000 0 1,000 Feet

Tillamook District GIS
 10-18-2010

This product is for informational use and may not have been prepared or suitable for legal, engineering, or surveying purposes.

Area	Operation	Acres
1	Modified clearcut	73
2	Modified clearcut	43
3	Partial cut	97
Total		213
		197