



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Cottonwood Creek Thin
Sale 341-13-82

District: Southwest

Date: January 10, 2013

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$99,198.97	\$0.00	\$99,198.97
		Project Work:	\$(29,752.08)
		Advertised Value:	\$69,446.89



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timber description

Location: Portions of Section 4, T41S, R1E, W.M., Jackson County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	95
White Fir	10	0	90
Incense Cedar	25	0	85
Sugar Pine	14	0	90
Ponderosa Pine	21	0	90

Volume by Grade	2S	3S	4S	5S	6S	SM	Total
Douglas - Fir	68	99	134	0	0	12	313
White Fir	1	1	7	0	0	0	9
Incense Cedar	0	0	7	4	1	0	12
Sugar Pine	2	3	6	13	2	1	27
Ponderosa Pine	2	2	26	4	2	2	38
Total	73	105	180	21	5	15	399



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comments: Pond Values Used: 4th Quarter Calendar Year 2012.

Thinning sale of 82 acres of 129- and 149-year-old Douglas-fir and mixed conifer.

Madrone and Other Hardwoods Stumpage Price = Pond Value minus
Logging Cost
 $\$40/\text{MBF} = \$340/\text{MBF} - \$300/\text{MBF}$

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):
None.

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



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logging conditions

combination#: 1

	Douglas - Fir	60.00%
	White Fir	60.00%
	Incense Cedar	60.00%
	Sugar Pine	60.00%
	Ponderosa Pine	60.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process:** Manual Delimbing
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 4.0 **bd. ft / load:** 3,700
cost / mbf: \$182.50

machines: Log Loader (A)
Tower Yarder (Small)

combination#: 2

	Douglas - Fir	40.00%
	White Fir	40.00%
	Incense Cedar	40.00%
	Sugar Pine	40.00%
	Ponderosa Pine	40.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Wheel Skidder **Process:** Manual Delimbing
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 3.0 **bd. ft / load:** 3,700
cost / mbf: \$135.00

machines: Feller Buncher w/ Delimber



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logging costs

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$29,752.08	Other Costs (P/R):	\$0.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$3.00

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	4.0	3.5
White Fir	\$0.00	3.0	3.0
Incense Cedar	\$0.00	3.0	4.2
Sugar Pine	\$0.00	3.0	3.5
Ponderosa Pine	\$0.00	3.0	4.0

Local Pond Values

Date	Specie	Grade	Value
1/10/13	Douglas - Fir	SM	\$590.00
1/10/13	Douglas - Fir	2S	\$550.00
1/10/13	Douglas - Fir	3S	\$535.00
1/10/13	Douglas - Fir	4S	\$520.00
1/10/13	Incense Cedar	4S	\$600.00
1/10/13	Incense Cedar	5S	\$600.00
1/10/13	Incense Cedar	6S	\$600.00



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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									
\$163.50	\$3.15	\$10.99	\$53.18	\$0.00	\$23.08	\$0.00	\$5.00	\$0.00	\$258.90
White Fir									
\$163.50	\$3.30	\$10.99	\$86.67	\$0.00	\$26.45	\$0.00	\$5.00	\$0.00	\$295.91
Incense Cedar									
\$163.50	\$3.45	\$10.99	\$64.72	\$0.00	\$24.27	\$0.00	\$5.00	\$0.00	\$271.93
Sugar Pine									
\$163.50	\$3.30	\$10.99	\$74.28	\$0.00	\$25.21	\$0.00	\$5.00	\$0.00	\$282.28
Ponderosa Pine									
\$163.50	\$3.30	\$10.99	\$65.00	\$0.00	\$24.28	\$0.00	\$5.00	\$0.00	\$272.07

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$533.95	\$275.05	\$0.00
White Fir	\$0.00	\$445.00	\$149.09	\$0.00
Incense Cedar	\$0.00	\$600.00	\$328.07	\$0.00
Sugar Pine	\$0.00	\$393.33	\$111.05	\$0.00
Ponderosa Pine	\$0.00	\$399.21	\$127.14	\$0.00



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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
White Fir	0	\$0.00	\$0.00
Incense Cedar	0	\$0.00	\$0.00
Sugar Pine	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	313	\$275.05	\$86,090.65
White Fir	9	\$149.09	\$1,341.81
Incense Cedar	12	\$328.07	\$3,936.84
Sugar Pine	27	\$111.05	\$2,998.35
Ponderosa Pine	38	\$127.14	\$4,831.32

Gross Timber Sale Value

Recovery: \$99,198.97

Prepared by: Chris Rudd

Phone: 541-471-4245

TIMBER SALE SUMMARY
Cottonwood Creek Thin
No. 341-13-82

1. **Type of Sale:** Thinning sale, recovery, sealed bid auction.

2. **Revenue Distribution:** 100% CSL, Jackson County.

3. **Sale Acreage:** For the sale, 82 net acres were used for the cruise expansion. Of the 82 acres, approximately 3 acres are right-of-way volume, split 1.5 acres for Area I and 1.5 acres for Area II. Acreage was determined with mapping software.

4. **Volume:** The take trees in the timber sale area are marked in blue except for some right-of-way timber and cable corridor trees. The sale areas were marked to an approximate spacing for residual trees of 30 feet in Area I and 25 feet in Area II, however, spacing is variable, with wider spacing where overstory trees are larger. In addition, a few smaller trees (<8") that have not been marked may need to be removed to facilitate logging. The volume in the RW (Area III) is the average total sale volume. See the cruise report for additional detail.

SPECIES	SP MILL	2 SAW	3 SAW	4 SAW	5SAW	6SAW	NET VOL (MBF)
Douglas-fir	12	68	99	134	0	0	313
White Fir	0	1	1	7	0	0	9
Incense Cedar	0	0	0	7	4	1	12
Sugar Pine	1	2	3	6	13	2	27
Ponderosa Pine	2	2	2	26	4	2	38
Total	15	73	105	180	21	5	399

5. **Cruise Data:** The volume above is measured to 6.5% standard error meaning the actual volume will fall between 373 and 425 MBF (68% of the time). The minor species are more unpredictable due to the small sample size. See the cruise report for more detail.

6. **Timber Description:** The merchantable trees have been marked to thin from below (smaller than the average diameter) and to remove mistletoe infested trees. The stand age is 129 years for Area I and 149 years for Area II. The average diameters for take trees: Douglas-fir 13", White Fir 10", Incense Cedar 25", Sugar Pine 14", and Ponderosa Pine 21" at DBH. The cruise report detail pages will give a clearer picture of log lengths and scaling diameters by area.

7. **Topography and Logging Method:** There are portions of the sale that drop off towards the edges in which a cable yarder with a motorized carriage will be necessary. Between 40 and 60% of the sale could be logged with a skidder, preferably on wheels. The road system gives access to the sale in Area I at the middle and Area II at the bottom. Logging corridors should be at a maximum map distance of 1000 feet. Slopes range from 30% and flatter to 65%, but the greater part of the sale is 30-50%.

8. **Access:** A license agreement with the US Forest Service was obtained for access through this sale. It must be reapproved annually. The agreement is held by Oregon Department of Forestry as the signatory, requiring road maintenance. Road Maintenance is the responsibility of the Purchaser at Purchasers expense, however the cost is included in the appraisal. The appraisal includes road grading and maintenance prior to and at the close of the sale.

9. Projects:

Road Construction and Improvement: \$29,752.08

10. Other Costs:

The appraisal includes \$5 per MBF for Scaling and \$3 per MBF additional for road maintenance.

Costs not accounted for in the appraisal are the responsibility of the Purchaser.

11. Slash Disposal:

Purchaser will pile slash on landings with an excavator or log loader. ODF will burn the piles.

PROJECT SUMMARY

Sale Name: Cottonwood Creek Thin

NEW CONSTRUCTION

<u>Road Segment</u>	<u>Length</u>			<u>Cost</u>
A to B	0.30 miles	15+70	stations	\$5,575.76
C to D	0.36 miles	18+85	stations	\$6,121.91
SUBTOTALS	0.66 miles	34+55	stations	\$11,697.67

ROAD IMPROVEMENT

<u>Road Segment</u>	<u>Length</u>			<u>Cost</u>
I-1 to I-2	0.60 miles	31+65	stations	\$1,457.52
I-3 to I-4	0.63 miles	18+85	stations	\$1,698.40
41S05 Rd.	2.43 miles	128+11	stations	\$4,930.96
40S11 Rd.	3.23 miles	170+54	stations	\$2,484.52
40S06 Rd.	6.72 miles	354+82	stations	\$5,169.02
SUBTOTALS	13.61 miles	703+97	stations	\$15,740.41

ROAD CLOSURE

<u>Road Segment</u>	<u>Length</u>			<u>Cost</u>
SUBTOTALS	0.00 miles	0.00	stations	\$0.00

MOVE IN

	Quantity	
D7	1	\$590.00
EXCAVATOR	1	\$945.00
GRADER	1	\$540.00
12 YRD.DUMP	1	\$119.00
FIRE EQUIPMENT	1	\$120.00
SUBTOTALS		\$2,314.00

GRAND TOTAL ROAD PROJECTS **\$29,752.08**

Sale Name:	Cottonwood Thin	Length	const	15+70	sta	0.30	miles
Segment Name:	A-B		impr		sta		miles
CLEARING & GRUBBING							
1.40	acres	@		\$980.00	per acre	=	\$1,372.00
0	acres	@			per acre	=	\$0.00
0	acres	@			per acre	=	\$0.00
					Subtotal		\$1,372.00
EXCAVATION							
Common	<30	7 stat.	@	\$139.00	per/stat.	=	\$973.00
	<50	7 stat.	@	\$200.00	per/stat.	=	\$1,400.00
	>50	2 stat.	@	\$300.00	per/stat.	=	\$600.00
Boulders		0 cy	@		per cy	=	\$0.00
	>50	0 cy	@		per cy	=	\$0.00
Loose		cy	@		per cy	=	
	>50	0 cy	@		per cy	=	\$0.00
Rippable		0 cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Solid Rock		0 cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
ENDHAUL		0 cy	@		per cy	=	\$0.00
Landing const.		4	@	\$250.00	per/ldg	=	\$1,000.00
					Subtotal		\$3,973.00
CULVERTS							
			@		per/lf	=	
					Subtotal		
SURFACING							
Subgrade		cy of 4 "- 0"			per cy	=	
Turnouts		cy of 4 "- 0"			per cy	=	\$0.00
Landings		cy of 4 "- 0"			per cy	=	\$0.00
					Subtotal	=	
SPECIAL PROJECTS							
0.3	mi. grading		@	\$769.20	per/mi.	=	\$230.76
					Subtotal		\$230.76
				GRAND TOTAL	=		\$5,575.76

Sale Name:	Cottonwood Thin	Length	const	18+85	sta	0.36	miles
Segment Name:	C-D		impr		sta		miles
CLEARING & GRUBBING							
1.7	acres	@		\$980.00	per acre	=	\$1,666.00
0	0	@			per acre	=	\$0.00
0	0	@			per acre	=	\$0.00
					Subtotal		\$1,666.00
EXCAVATION							
Common <30	11	stat.	@	\$139.00	per/stat.	=	\$1,529.00
Common <50	5	stat.	@	\$200.00	per/stat.	=	\$1,000.00
Common >50	3	cy	@	\$300.00	per/stat.	=	\$900.00
		cy	@		per cy	=	\$0.00
Loose		cy	@		per cy	=	\$0.00
>50		cy	@		per cy	=	\$0.00
Rippable		cy	@		per cy	=	\$0.00
>50		cy	@		per cy	=	\$0.00
Solid Rock		cy	@		per cy	=	\$0.00
>50		cy	@		per cy	=	\$0.00
ENDHAUL		cy	@		per cy	=	\$0.00
Landing const.	3	landings	@	\$250.00	per/ldg	=	\$750.00
					Subtotal		\$4,179.00
CULVERTS							
			@		per/lf	=	
			@		per/lf	=	
					Subtotal		\$0.00
SURFACING							
Subgrade		cy of 4 "- 0"	@		per/cy	=	
Turnouts		cy of 4 "- 0"	@		per/cy	=	
Landings		cy of 4 "- 0"	@		per/cy	=	
Culvert bedding		cy of 1 1/2"-0"	@		per/cy	=	
Fill armor		cy of 24"-6"	@		per/cy	=	
					Subtotal		\$0.00
SPECIAL PROJECTS							
0.36 mi. grading			@	\$769.20	per/mi.	=	\$276.91
					Subtotal		\$276.91
				GRAND TOTAL	=		\$6,121.91

Sale Name:	Cottonwood Thin	Length	const		sta		miles
Segment Name:	I1-I2		impr	31+65	sta	0.60	miles
CLEARING & GRUBBING							
	acres	@			per acre	=	
	acres	@			per acre	=	
		@			per acre	=	
					Subtotal		
EXCAVATION							
Common	<30	stat.			per/stat.	=	
	<50	stat.			per/stat.	=	
	>50	stat.			per/stat.	=	
Boulders		cy @			per cy	=	\$0.00
	>50	cy @			per cy	=	\$0.00
Loose		cy @			per cy	=	\$0.00
	>50	cy @			per cy	=	\$0.00
Rippable		cy @			per cy	=	\$0.00
	>50	cy @			per cy	=	\$0.00
Solid Rock		cy @			per cy	=	\$0.00
	>50	cy @			per cy	=	\$0.00
ENDHAUL		cy @			per cy	=	\$0.00
Landing const.			@		per/lbg	=	
					Subtotal		
CULVERTS							
			@		per/lf	=	\$0.00
			@		per/lf	=	\$0.00
					Subtotal		\$0.00
SURFACING							
Pit Run		cy of 4 "- 0"	@		per/cy	=	
Turnouts		cy of 4 "- 0"	@		per/cy	=	\$0.00
Landings		cy of 4 "- 0"	@		per/cy	=	\$0.00
Culvert bedding		cy of 11/2"-0"	@		per/cy	=	\$0.00
Rip Rap		cy of 24"-6"	@	\$16.00	per/cy	=	
					Subtotal		
SPECIAL PROJECTS							
0.60	mi grading		@	\$769.20	per/mi.	=	\$461.52
0.60	mi. road brushing		@	\$1,260.00	per/mi.	=	\$756.00
	widen 2 thru cuts		@	\$120.00	per/hr.	=	\$240.00
					Subtotal		\$1,457.52
				GRAND TOTAL	=		\$1,457.52

Sale Name:	Cottonwood Thin	Length	const		sta		miles
Segment Name:	I3-I4		impr	33+30	sta	0.63	miles
CLEARING & GRUBBING							
	acres	@			per acre	=	
	acres	@			per acre	=	
	acres	@			per acre	=	
					Subtotal		
EXCAVATION							
Common	<30		@		per stat.	=	
	>50	cy	@		per cy	=	\$0.00
Boulders		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Loose		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Rippable		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Solid Rock		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
ENDHAUL		cy	@		per cy	=	\$0.00
Landing const.			@		per/ldg	=	
					Subtotal		
CULVERTS							
			@		per/lf	=	
			@		per/lf	=	
			@		per/lf	=	
					Subtotal		
SURFACING							
Subgrade		cy of 4 "- 0"			per cy	=	
Turnouts		cy of 4 "- 0"			per cy	=	
Landings		cy of 4 "- 0"			per cy	=	
Culvert bedding		cy of 11/2"-0"			per/cy	=	
Fill armor		cy of 24"-0"			per/cy	=	
					Subtotal		
SPECIAL PROJECTS							
	0.63 mi. grading		@	\$769.20	per/mi.	=	\$484.60
	0.63 mi. brushing		@	\$1,260.00	per/mi.	=	\$793.80
	3.5 hrs Drainage Restoration		@	\$120.00	per/hr.	=	\$420.00
					Subtotal		\$1,698.40
				GRAND TOTAL		=	\$1,698.40

Sale Name:	Cottonwood Thin	Length	const		sta		miles
Segment Name:	41S05 Rd.		impr	128+11	sta	2.43	miles
CLEARING & GRUBBING							
	acres	@			per acre	=	\$0.00
0	acres	@			per acre	=	\$0.00
0	acres	@			per acre	=	\$0.00
					Subtotal		\$0.00
EXCAVATION							
Common	<30	cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Boulders		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Loose		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Rippable		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Solid Rock		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Landing const.			@		per/lbg.	=	
					Subtotal		\$0.00
CULVERTS							
			@		per/lf	=	\$0.00
					per/lf	=	
					Subtotal		\$0.00
SURFACING							
Subgrade					per cy	=	
Turnouts					per cy	=	
Landings					per cy	=	
culvert bedding					per/cy	=	
Fill armor					per/cy	=	
					Subtotal		
SPECIAL PROJECTS							
2.43	mi. grading		@	\$769.20	per/mi.	=	\$1,869.16
2.43	mi. road brushing		@	\$1,260.00	per/mi.	=	\$3,061.80
					Subtotal		\$4,930.96
				GRAND TOTAL	=		\$4,930.96

Sale Name:	Cottonwood Thin	Length	const		sta		miles
Segment Name:	40S11 Rd.		impr	170+54	sta	3.23	miles
CLEARING & GRUBBING							
	acres	@			per acre	=	\$0.00
0	acres	@			per acre	=	\$0.00
0	acres	@			per acre	=	\$0.00
					Subtotal		\$0.00
EXCAVATION							
Common	<30	cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Boulders		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Loose		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Rippable		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Solid Rock		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Landing const.			@		per/lbg.	=	
					Subtotal		\$0.00
CULVERTS							
			@		per/lf	=	\$0.00
					per/lf	=	
					Subtotal		\$0.00
SURFACING							
Subgrade					per cy	=	
Turnouts					per cy	=	
Landings					per cy	=	
culvert bedding					per/cy	=	
Fill armor					per/cy	=	
					Subtotal		
SPECIAL PROJECTS							
	3.23 mi. grading		@	\$769.20	per/mi.	=	\$2,484.52
					per/mi.	=	
					Subtotal		\$2,484.52
				GRAND TOTAL	=		\$2,484.52

Sale Name:	Cottonwood Thin	Length	const		sta		miles
Segment Name:	40S06 Rd.		impr	354+82	sta	6.72	miles
CLEARING & GRUBBING							
	acres	@			per acre	=	\$0.00
0	acres	@			per acre	=	\$0.00
0	acres	@			per acre	=	\$0.00
					Subtotal		\$0.00
EXCAVATION							
Common	<30	cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Boulders		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Loose		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Rippable		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Solid Rock		cy	@		per cy	=	\$0.00
	>50	cy	@		per cy	=	\$0.00
Landing const.			@		per/ldg.	=	
					Subtotal		\$0.00
CULVERTS							
			@		per/lf	=	\$0.00
					per/lf	=	
					Subtotal		\$0.00
SURFACING							
Subgrade					per cy	=	
Turnouts					per cy	=	
Landings					per cy	=	
culvert bedding					per/cy	=	
Fill armor					per/cy	=	
					Subtotal		
SPECIAL PROJECTS							
	6.72 mi. grading		@	\$769.20	per/mi.	=	\$5,169.02
					per/mi.	=	
					Subtotal		\$5,169.02
				GRAND TOTAL	=		\$5,169.02

OREGON DEPARTMENT of FORESTRY
CRUISE REPORT

SALE NAME: Cottonwood Creek Thin

SALE NUMBER: 341-13-82

1. **Acreage Calculation:** There are 82 net cruise acres in the sale area determined by ArcMap 9.3 GIS software. The sale boundary follows the property line on three sides of each area. The riparian areas are posted out of the sale.
2. **Cruise Method:** Cottonwood Creek Thin was cruised by ODF in August 2012 which was comparable to the inventory data. The cruise design used a variable plot cruise for the two strata, Area I and II. Every other plot was a full measure plot for blue marked trees; alternate plots were count only. Trees were cruised primarily to 32 foot segments and segmented to shorter logs when necessary. The pine and cedar were cruised according to the scaling rules including the 5 and 6 saw grades.
3. **RIGHT of WAY VOLUMES:** The right of way volume is the average per acre combined cruise volume for Area 1 and 2, covering the 3 total acres of right-of-way, that will be cut to build the new roads.
4. **Group Selection Areas:** There are no group selection areas in this sale.
5. **Sampling Intensity:**

SE	6.5%
CV	40.4% (All)
# Plots	22 Full Measure plots and 39 Total Plots

*All volumes are reported at the 68% confidence level according to ODF standards. The average conifer volume of take trees was 4.87 MBF per acre for 82 acres (total volume 399 MBF), and the cruise would indicate 68% confidence that the measured volume of take trees lies between 373 MBF and 425 MBF.

6. **Form Factors:** Form factors (a ratio of diameter at 4 and 16 feet) were measured for all take trees and measured or estimated on non-candidate measure trees.
7. **Height Standards:** Most conifer trees were measured for total height with a laser rangefinder. In the case of broken tops or for ease of viewing, the tree may have been measured to the merchantable top.
8. **Diameter standards:** Diameters were measured outside bark at breast height to the nearest inch. A bark thickness ratio is used to convert to scale volume in the SuperAce program.
9. **Grading System:** Most trees were graded using 32 foot segments. Some trees were segmented to two foot multiples to match the natural form of the tree or to account for defect.
10. **Merchantable top:** Conifer were graded based on a 5 or 6 inch merchantable top outside bark. The SuperAce program uses scaling diameters inside bark based on a bark thickness ratio.
11. **Computation Procedures:** Volume was computed using the SuperAce cruise program.
12. **Deductions for Cull, Defect and Breakage:** The visible defect was reduced in the field during the cruise and netted out in SuperAce. Additional deductions were made for defect and breakage that was not observed in the cruise. See the cruise summary which shows 8% for Douglas-fir, 10% for Ponderosa Pine, 9% for Sugar Pine, 15% for Cedar and 12% for white fir.
13. **Cruisers:** The sale was cruised by Paul Moreno and Wayne Holcombe.

*ODF does not guarantee the volume of this or any other cruise. Prospective purchasers are advised to do their own cruise and sale volume calculations.

Chris Rudd, Unit Forester

Date

Cottonwood Creek Thin
Volume by Area and Total Sale Volume

CRUISED VOLUME BF/Acre (Net Volume After Field Cull)								Net Volume per Acre		
		3P	S/M	2 Saw	3 Saw	4 Saw	5 Saw	6 Saw		
Area I	Douglas-fir		247	1,148	1,473	1,477			4,345	
	Ponderosa Pine					268			268	
	Sugar Pine						221	38	259	
	Incense Cedar					158	112	39	309	5,181
Area II	Douglas-fir			212	829	1,952			2,993	
	Ponderosa Pine					262		18	280	
	White Fir					171			171	3,444
ROW	Douglas-fir		922	5,412	4,772	3,872			14,978	
	Ponderosa Pine		672	582	581	2,513	1,383	367	6,098	
	Sugar Pine		815	662	1,278	2,104	1,388	94	6,341	
	Incense Cedar			148	64	491	161	56	920	
	White Fir			366	520	466			1,352	29,689

CRUISED VOLUME (Volume by Grade Board Feet)											
*Volume Reduced for Hidden Cull and Breakage											
		3P	SM	2 Saw	3 Saw	4 Saw	5 Saw	6 Saw	*Volume Reduction	Acres	Total Volume
Area I	Douglas-fir	9,885	45,943	58,949	59,110	0	0	0	8%	43.5	173,887
	Ponderosa Pine	0	0	0	10,492	0	0	0	10%	43.5	10,492
	Sugar Pine	0	0	0	0	8,748	1,504	0	9%	43.5	10,253
	Incense Cedar	0	0	0	5,842	4,141	1,442	0	15%	43.5	11,425
		9,885	45,943	58,949	75,444	12,889	2,946	0			206,057
Area II	Douglas-fir	0	6,924	27,075	63,752	0	0	0	8%	35.5	97,751
	Ponderosa Pine	0	0	0	8,371	0	575	0	10%	35.5	8,946
	White Fir	0	0	0	5,342	0	0	0	12%	35.5	5,342
		0	6,924	27,075	77,465	0	575	0			112,039
ROW	Douglas-fir	2,545	14,937	13,171	10,687	0	0	0	8%	3	41,339
	Ponderosa Pine	1,814	1,571	1,569	6,785	3,734	991	0	10%	3	16,465
	Sugar Pine	2,225	1,807	3,489	5,744	3,789	257	0	9%	3	17,311
	Incense Cedar	0	377	163	1,252	0	0	0	15%	3	1,793
	White Fir	0	966	1,373	1,230	0	0	0	12%	3	3,569
		6,584	19,659	19,764	25,698	7,523	1,248	0			80,477
Total by Grade		16,469	72,526	105,789	178,607	20,413	4,769	0		82	398,573

TOTAL SALE VOLUME by Species (Board Feet)								
	3P	SM	2 Saw	3 Saw	4 Saw	5 Saw	6 Saw	Total Volume
Douglas-fir	12,430	67,804	99,195	133,549	0	0		312,978
Ponderosa Pine	1,814	1,571	1,569	25,648	3,734	1,566		35,903
Sugar Pine	2,225	1,807	3,489	5,744	12,538	1,761		27,563
Incense Cedar	0	377	163	7,094	4,141	1,442		13,218
White Fir	0	966	1,373	6,572	0	0		8,911
Sale Volume	16,469	72,526	105,789	178,607	20,413	4,769		398,573

VOLUME PERCENTAGE by Grade								
	3P	SM	2 Saw	3 Saw	4 Saw	5 Saw	6 Saw	Adjusted Sale Volume
Douglas-fir	3.1%	17.0%	24.9%	33.5%	0.0%	0.0%	0.0%	78.5%
Ponderosa Pine	0.5%	0.4%	0.4%	8.4%	0.9%	0.4%	0.0%	9.0%
Sugar Pine	0.6%	0.5%	0.9%	1.4%	3.1%	0.4%	0.0%	6.9%
Incense Cedar	0.0%	0.1%	0.0%	1.8%	1.0%	0.4%	0.0%	3.3%
White Fir	0.0%	0.2%	0.3%	1.6%	0.0%	0.0%	0.0%	2.2%

100,0%



I 2 1/2 x 9 ch (150' x 600') - 18 plots count/measure
 II 3 1/2 x 4.5 - 7 lines Cottonwood Thin 20 plots c/m
 ↳ plots 231' x 300'

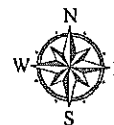
LEGEND	
	Cottonwood Sale Area
	Roads Existing
	Roads New
Streams	
	Fish
	Nonfish
	Unknown
	PLS

S.W.O. District - 2013 Annual Operations Plan

Township 41 South, Range 1 East, Section 4 W.M.
Jackson County, OR

1,000 500 0 1,000 Feet

1 inch = 1,308 feet
Contour Interval : 40 feet



84 Acres Net

ODF, Grants Pass Unit

TC TSTATS				STATISTICS			PAGE 1			
				PROJECT	COTTONW	DATE 10/8/2012				
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
41S	01E	04	NORTH	A1	43.50	21	144	S	W	
				TREES	ESTIMATED TOTAL	PERCENT SAMPLE TREES				
		PLOTS	TREES	PER PLOT	TREES					
TOTAL		21	144	6.9						
CRUISE		13	95	7.3	5,582	1.7				
DBH COUNT										
REFOREST										
COUNT		7	49	7.0						
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-L		25	48.8	16.3	67	18	70.4	8,958	8,880	2,158
DOUG FIR-T		21	45.2	13.0	65	11	41.6	4,344	4,344	1,066
PONDEROS-L		24	15.9	24.3	77		51.2	7,315	7,237	1,690
PONDEROS-T		1	2.4	19.0	60		4.8	439	268	111
SUG.PINE-L		12	5.4	36.0	108		38.4	6,800	6,800	1,379
SUG.PINE-T		3	4.2	14.4	57		4.8	258	258	90
INC CED-L		2	1.0	33.6	81		6.4	817	817	204
INC CED-T		2	1.4	25.1	71		4.8	309	309	120
CON FIR-L		5	3.7	19.8	92	1	8.0	1,130	1,130	264
TOTAL		95	128.3	18.1	70		230.5	30,370	30,043	7,081
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-L		128.7	26.3	494	670	846				
DOUG FIR-T		167.0	37.3	174	278	382				
PONDEROS-L		100.9	21.0	825	1,044	1,264				
PONDEROS-T										
SUG.PINE-L		60.9	18.3	1,305	1,598	1,891				
SUG.PINE-T		56.8	39.3	40	67	93				
INC CED-L		103.8	97.2	37	1,315	2,593				
INC CED-T		6.4	6.0	207	220	233				
CON FIR-L		85.6	42.5	284	494	704				
TOTAL		120.3	12.3	671	765	859	577	144	64	
CL: 68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR-L		122.5	25.0	117	156	195				
DOUG FIR-T		140.5	31.4	42	61	81				
PONDEROS-L		84.2	17.5	186	226	265				
PONDEROS-T										
SUG.PINE-L		55.4	16.7	262	314	367				
SUG.PINE-T		58.4	40.4	14	23	33				
INC CED-L		93.0	87.1	40	307	574				
INC CED-T		20.1	18.8	72	88	105				
CON FIR-L		76.0	37.8	70	113	156				
TOTAL		107.5	11.0	148	167	185	461	115	51	
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-L		97.7	21.8	38	49	60				
DOUG FIR-T		138.5	31.0	31	45	59				
PONDEROS-L		133.9	29.9	11	16	21				
PONDEROS-T		334.7	74.8	1	2	4				
SUG.PINE-L		106.8	23.9	4	5	7				

I

L = Leave
T = Take

T = 5350

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	COTTONW			DATE	10/8/2012
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
41S	01E	04	NORTH	A1	43.50	21	144	S	W
CL: 68.1 %		COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
SUG.PINE-T		360.3	80.5	1	4	8			
INC CED-L		283.7	63.4	0	1	2			
INC CED-T		254.7	56.9	1	1	2			
CON FIR-L		331.2	74.0	1	4	7			
TOTAL		69.2	15.5	108	128	148	201	50	22
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-L		72.2	16.1	59	70	82			
DOUG FIR-T		108.1	24.2	32	42	52			
PONDEROS-L		96.5	21.6	40	51	62			
PONDEROS-T		334.7	74.8	1	5	8			
SUG.PINE-L		108.2	24.2	29	38	48			
SUG.PINE-T		334.7	74.8	1	5	8			
INC CED-L		268.7	60.1	3	6	10			
INC CED-T		251.0	56.1	2	5	7			
CON FIR-L		262.5	58.7	3	8	13			
TOTAL		37.8	8.5	211	230	250	60	15	7
CL: 68.1 %		COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L		71.1	15.9	7,469	8,880	10,290			
DOUG FIR-T		105.8	23.7	3,317	4,344	5,371			
PONDEROS-L		102.9	23.0	5,572	7,237	8,901			
PONDEROS-T		334.7	74.8	68	268	469			
SUG.PINE-L		110.6	24.7	5,119	6,800	8,481			
SUG.PINE-T		319.0	71.3	74	258	443			
INC CED-L		273.6	61.1	317	817	1,317			
INC CED-T		256.4	57.3	132	309	487			
CON FIR-L		254.2	56.8	488	1,130	1,772			
TOTAL		38.7	8.7	27,442	30,043	32,644	63	16	7
CL: 68.1 %		COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L		69.8	15.6	1,821	2,158	2,495			
DOUG FIR-T		108.5	24.3	807	1,066	1,324			
PONDEROS-L		101.4	22.7	1,307	1,690	2,073			
PONDEROS-T		334.7	74.8	28	111	194			
SUG.PINE-L		110.9	24.8	1,037	1,379	1,720			
SUG.PINE-T		318.4	71.2	26	90	154			
INC CED-L		270.2	60.4	81	204	327			
INC CED-T		251.3	56.2	52	120	187			
CON FIR-L		258.3	57.7	112	264	417			
TOTAL		37.3	8.3	6,491	7,081	7,672	58	15	6

T TSPCSTGR				Species, Sort Grade - Board Foot Volumes (Type)												Page 1				
				Project: COTTONWD												Date 10/8/2012	Time 1:12:02PM			
T41S R01E S04 TA1										T41S R01E S04 TA1										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
41S	01E	04	NORTH	A1	43.50	21	95	S	W											
S So Gr Spp T rt ad				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre
									Log Scale Dia.				Log Length				Ln	Bd	CF/ Lf	
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	Ft		
DF	L	DO	SM	14		1,271	1,271	55							100		40	1668	8.05	.8
DF	L	DO	2M	41	2.1	3,693	3,614	157			48	52		36	17	47	32	298	2.09	12.1
DF	L	DO	3M	28		2,534	2,534	110		58	5	37		51	17	32	28	120	1.08	21.1
DF	L	DO	4M	17		1,460	1,460	64	70	30			10	42	48		26	31	0.36	47.4
DF	L	Totals		30	.9	8,958	8,880	386	12	21	21	46	2	36	20	43	28	109	0.95	81.4
DF	T	DO	SM	5		247	247	11						100			27	980	6.08	.3
DF	T	DO	2M	27		1,148	1,148	50			76	24		10	50	40	35	261	1.70	4.4
DF	T	DO	3M	34		1,473	1,473	64		63	11	26		32	46	22	34	86	0.61	17.1
DF	T	DO	4M	34		1,477	1,477	64	39	50	4	7	14	34	21	32	28	42	0.41	35.0
DF	T	Totals		14		4,344	4,344	189	13	39	25	23	5	30	36	29	31	77	0.61	56.7
PP	L	DO	SM	17		1,258	1,258	55							100		40	1469	6.93	.9
PP	L	DO	2M	6		446	446	19						34		66	35	1061	5.44	.4
PP	L	DO	3M	8		605	605	26		6		94			6	94	37	668	3.92	.9
PP	L	DO	4M	35	1.4	2,538	2,503	109		1	9	90	7	25	7	62	33	487	3.12	5.1
PP	L	DO	5M	29	1.8	2,129	2,091	91	0	32	38	29	8	33	21	39	30	132	1.23	15.9
PP	L	DO	6M	5	1.5	340	335	15	45	21	35		13	38	23	26	24	46	0.74	7.3
PP	L	Totals		24	1.1	7,315	7,237	315	2	11	16	71	5	22	10	63	29	238	1.88	30.5
PP	T	DO	4M	100	38.9	439	268	12	9		91			100			25	55	0.93	4.9
PP	T	Totals		1	38.9	439	268	12	9		91			100			25	55	0.93	4.9
SP	L	DO	SM	12		866	866	38							100		40	1728	8.32	.5
SP	L	DO	2M	12		828	828	36					27		24	50	31	928	5.66	.9
SP	L	DO	3M	17		1,127	1,127	49						22	38	39	33	1071	5.29	1.1
SP	L	DO	4M	37		2,507	2,507	109	0		14	86	0	22	31	46	31	488	3.16	5.1
SP	L	DO	5M	20		1,398	1,398	61	1	15	16	69		28	72		29	226	1.76	6.2
SP	L	DO	6M	2		73	73	3	100				57			43	21	22	0.64	3.3
SP	L	Totals		23		6,800	6,800	296	1	3	8	87	4	18	36	43	29	399	2.79	17.1
SP	T	DO	5M	85		221	221	10		100				59		41	30	52	0.64	4.2
SP	T	DO	6M	15		38	38	2	100				100				14	14	0.22	2.8
SP	T	Totals		1		258	258	11	15	85			15	50		35	24	37	0.54	7.0
IC	L	DO	2M	44		366	366	16							100		34	1560	9.61	.2
IC	L	DO	3M	20		160	160	7						100			27	680	4.36	.2
IC	L	DO	5M	30		250	250	11						100			27	310	2.78	.8
IC	L	DO	6M	6		42	42	2	100						77	23	36	40	1.05	1.0
IC	L	Totals		3		817	817	36	5			95		50	49	1	32	353	2.78	2.3
IC	T	DO	4M	51		158	158	7		100				100			27	190	1.98	.8
IC	T	DO	5M	36		112	112	5		100					100		40	200	2.38	.6

Species, Sort Grade - Board Foot Volumes (Type)										Page 2											
Project: COTTONWD										Date 10/8/2012											
										Time 1:12:02PM											
T41S R01E S04 TA1										T41S R01E S04 TA1											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
41S	01E	04	NORTH	A1	43.50	21	95	S	W												
				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
									Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf		
S Spp	So T	Gr rt	ad							4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99				
IC	T	DO	6M	13	39	39	2	100						14			86	27	28	0.58	1.4
IC T Totals				1	309	309	13	13		87				2	51		47	30	111	1.45	2.8
WF	L	DO	2M	41	470	470	20		31	69				69			31	33	413	2.83	1.1
WF	L	DO	3M	46	516	516	22		64	14	22			45	55			30	138	0.99	3.7
WF	L	DO	4M	13	144	144	6	37	63					49	36	8	7	21	28	0.45	5.1
WF L Totals				4	1,130	1,130	49	5	37	19	39			6	54	26	14	26	114	1.03	9.9
Type Totals					1.1	30,370	30,043	1,307	7	17	18	58		4	29	24	43	29	141	1.16	212.6

TC TLOGSTVB

Log Stock Table - MBF
Project: COTTONWD

T41S R01E S04 TA1

T41S R01E S04 TA1

Twp Rge Sec Tract
41S 01E 04 NORTH

Type Acres Plots Sample Trees
A1 43.50 21 95

Page 1
Date 10/8/2012
Time 1:12:02PM

Spp	S	So	Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
										2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
DF	L	DO	SM	40		55		55	9.6								19		36	
DF	L	DO	2M	27		57	2.2	56	9.7				19	18	19					
DF	L	DO	2M	32		6		6	1.0				6							
DF	L	DO	2M	34		21		21	3.7					12				9		
DF	L	DO	2M	40		76	2.8	74	12.8				11		45		18			
DF	L	DO	3M	27		56		56	9.8			42	6	2			6			
DF	L	DO	3M	34		19		19	3.3				16	3						
DF	L	DO	3M	40		35		35	6.1						6			17	11	
DF	L	DO	4M	11																
DF	L	DO	4M	12		0		0	.0		0									
DF	L	DO	4M	14		0		0	.1		0									
DF	L	DO	4M	16		2		2	.3		2									
DF	L	DO	4M	17		1		1	.1		1									
DF	L	DO	4M	18		2		2	.4		2									
DF	L	DO	4M	19		2		2	.3		2									
DF	L	DO	4M	24		1		1	.2		1									
DF	L	DO	4M	25		9		9	1.5		9									
DF	L	DO	4M	27		13		13	2.2		7	6								
DF	L	DO	4M	28		0		0	.1		0									
DF	L	DO	4M	30		4		4	.7		4									
DF	L	DO	4M	32		11		11	1.8		11									
DF	L	DO	4M	33		6		6	1.1		6									
DF	L	DO	4M	34		13		13	2.3		1	6	7							
DF	T	DO	SM	27		11		11	1.9								11			
DF	T	DO	2M	27		5		5	.8					5						
DF	T	DO	2M	34		25		25	4.4				8	17						
DF	T	DO	2M	40		20		20	3.5				8		12					
DF	T	DO	3M	27		20		20	3.6			5		7			9			
DF	T	DO	3M	34		29		29	5.1		14	7					8			
DF	T	DO	3M	40		14		14	2.5		14									
DF	T	DO	4M	12		4		4	.7			4								
DF	T	DO	4M	14		0		0	.1		0									
DF	T	DO	4M	20		5		5	.8				5							
DF	T	DO	4M	22		2		2	.3		2									
DF	T	DO	4M	25		1		1	.2		1									
DF	T	DO	4M	26		3		3	.4						3					
DF	T	DO	4M	27		16		16	2.7		11					4				
DF	T	DO	4M	28		0		0	.1		0									
DF	T	DO	4M	34		13		13	2.3		8	5								
DF	T	DO	4M	36		2		2	.4		2									
DF	T	DO	4M	40		18		18	3.2			18								
DF				Totals		579		575	44.0		70	68	66	22	59	60	87	40	57	47
PP	L	DO	SM	40		55		55	16.8								12		43	
PP	L	DO	2M	27		7		7	2.0									7		
PP	L	DO	2M	40		13		13	3.9									13		
PP	L	DO	3M	34		2		2	.5			2								
PP	L	DO	3M	40		25		25	7.5								10	15		

TC	TLOGSTVB
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Log Stock Table - MBF
Project: COTTONWD

T41S R01E S04 TA1

T41S R01E S04 TA1

Twp Rge Sec Tract Type Acres Plots Sample Trees								Page 2
41S	01E	04	NORTH	A1	43.50	21	95	Date 10/8/2012
								Time 1:12:02PM

Spp	S	So	Gr	Log	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
PP	L	DO	4M	20	8		8	2.4							8				
PP	L	DO	4M	27	27		27	8.2				2	7			17			
PP	L	DO	4M	34	7		7	2.2			1				6				
PP	L	DO	4M	40	69	2.2	67	20.5						32	35				
PP	L	DO	5M	20	7		7	2.1					2	5					
PP	L	DO	5M	22	0		0	.1		0									
PP	L	DO	5M	27	30	1.8	29	9.0		10	2	11			6				
PP	L	DO	5M	34	20	5.6	19	5.9			3		3		14				
PP	L	DO	5M	40	35		35	10.8			3			16		16			
PP	L	DO	6M	12	0		0	.0		0									
PP	L	DO	6M	13	0		0	.1		0									
PP	L	DO	6M	16	1		1	.2		1									
PP	L	DO	6M	18	0		0	.0		0									
PP	L	DO	6M	20	1		1	.2		1									
PP	L	DO	6M	22	0		0	.1		0									
PP	L	DO	6M	24	0		0	.1		0									
PP	L	DO	6M	25	1		1	.3		1									
PP	L	DO	6M	26	2		2	.7		2									
PP	L	DO	6M	27	2	9.2	2	.7		0			2						
PP	L	DO	6M	34	3		3	1.0						3					
PP	L	DO	6M	39	1		1	.2		1									
PP	L	DO	6M	40	3		3	.9				3							
PP	T	DO	4M	24	16	33.3	11	3.2				11							
PP	T	DO	4M	25	3	66.7	1	.3		1									
PP	Totals				337	3.2	326	25.0		8	10	11	14	18	29	51	92	51	43
SP	L	DO	SM	40	38		38	12.3								18		20	
SP	L	DO	2M	17	10		10	3.1										10	
SP	L	DO	2M	34	9		9	2.8									9		
SP	L	DO	2M	40	18		18	5.8									18		
SP	L	DO	3M	23	11		11	3.6									11		
SP	L	DO	3M	34	19		19	6.1									19		
SP	L	DO	3M	40	19		19	6.3									19		
SP	L	DO	4M	12	0		0	.1		0									
SP	L	DO	4M	22	2		2	.7					2						
SP	L	DO	4M	27	22		22	7.1								7		15	
SP	L	DO	4M	34	34		34	11.1							34				
SP	L	DO	4M	40	51		51	16.5							13	17		21	
SP	L	DO	5M	22	3		3	.8					3						
SP	L	DO	5M	23	0		0	.1		0									
SP	L	DO	5M	27	14		14	4.6			1	7	2	5					
SP	L	DO	5M	34	44		44	14.3			2				13	29			
SP	L	DO	6M	14	0		0	.1		0									
SP	L	DO	6M	15	1		1	.2		1									
SP	L	DO	6M	16	0		0	.1		0									
SP	L	DO	6M	17	0		0	.1		0									
SP	L	DO	6M	39	1		1	.2		1									
SP	L	DO	6M	40	1		1	.2		1									

TC TLOGSTVB

Log Stock Table - MBF
Project: COTTONWD

T41S R01E S04 TA1

T41S R01E S04 TA1

Twp Rge Sec Tract
41S 01E 04 NORTH

Type Acres Plots Sample Trees
A1 43.50 21 95

Page 3
Date 10/8/2012
Time 1:12:02PM

S So Gr Log					Gross MBF	% Def	Net MBF	% Sp	Net Volume by Scaling Diameter in Inches										
Spp	T	rt	de	Len					2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
SP	T	DO	5M	27	6		6	1.8			6								
SP	T	DO	5M	40	4		4	1.3			4								
SP	T	DO	6M	13	1		1	.2		1									
SP	T	DO	6M	17	1		1	.3		1									
SP Totals					307		307	23.5		6	8	4	7	2	10	60	53	129	29
IC	L	DO	2M	34	16		16	32.5										16	
IC	L	DO	3M	27	7		7	14.2									7		
IC	L	DO	5M	27	11		11	22.2							11				
IC	L	DO	6M	35	1		1	2.9		1									
IC	L	DO	6M	39	0		0	.8		0									
IC	T	DO	4M	27	7		7	14.0						7					
IC	T	DO	5M	40	5		5	10.0					5						
IC	T	DO	6M	12	0		0	.5		0									
IC	T	DO	6M	37	1		1	3.0		1									
IC Totals					49		49	3.7		4				5	7	11		7	16
WF	L	DO	2M	27	14		14	28.5							7			8	
WF	L	DO	2M	40	6		6	13.1						6					
WF	L	DO	3M	26	1		1	2.7			1								
WF	L	DO	3M	27	9		9	17.8				6		3					
WF	L	DO	3M	34	12		12	25.1				7			5				
WF	L	DO	4M	12	0		0	.5		0									
WF	L	DO	4M	17	3		3	5.8		1		2							
WF	L	DO	4M	27	2		2	4.6			2								
WF	L	DO	4M	32	0		0	1.0		0									
WF	L	DO	4M	38	0		0	.9		0									
WF Totals					49		49	3.8		2	2	3	13		10	11		8	
Total All Species					1,321	1.1	1,307	100.0		89	89	83	56	84	114	220	185	251	135

TC TSTATS				STATISTICS				PAGE 1		
				PROJECT COTTONW				DATE 10/8/2012		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
41S	01E	04	SOUTH	A2	35.50	18	114	S	W	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		18	114	6.3						
CRUISE		9	60	6.7	5,877	1.0				
DBH COUNT										
REFOREST										
COUNT		9	54	6.0						
BLANKS										
100 %										
STAND SUMMARY										
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR-L		26	84.4	15.3	80	28	108.3	14,031	14,031	3,545
DOUG FIR-T		11	37.6	12.4	72	9	31.7	2,993	2,993	817
PONDEROS-L		10	15.1	17.2	79		24.3	4,011	3,992	869
PONDEROS-T		1	.6	24.0	110		1.9	279	279	67
SUG.PINE-L		5	3.4	37.7	129		26.1	5,726	5,726	1,110
CON FIR-L		4	20.3	11.6	69	3	14.9	1,179	1,179	319
CON FIR-T		1	3.4	10.0	70	0	1.9	171	171	39
INC CED-L		2	.8	29.9	116		3.7	612	612	149
TOTAL		60	165.6	15.4	78		212.9	29,003	28,985	6,914
CONFIDENCE LIMITS OF THE SAMPLE						T = 3,443				
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-L		86.6	17.3	232	280	329				
DOUG FIR-T		61.2	19.3	81	100	119				
PONDEROS-L		103.4	34.4	561	855	1,149				
PONDEROS-T										
SUG.PINE-L		94.9	47.2	1,505	2,848	4,191				
CON FIR-L		92.4	52.8	38	80	122				
CON FIR-T										
INC CED-L		50.4	47.2	459	870	1,281				
TOTAL		194.7	25.1	421	563	704		1,513	378 168	
CL: 68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR-L		77.4	15.5	58	69	79				
DOUG FIR-T		55.1	17.4	22	27	32				
PONDEROS-L		92.0	30.6	123	177	232				
PONDEROS-T										
SUG.PINE-L		82.6	41.0	309	524	739				
CON FIR-L		89.0	50.9	11	22	33				
CON FIR-T										
INC CED-L		39.8	37.3	131	208	286				
TOTAL		161.2	20.8	94	118	143		1,038	259 115	
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-L		71.2	17.3	70	84	99				
DOUG FIR-T		109.9	26.6	28	38	48				
PONDEROS-L		180.9	43.8	8	15	22				
PONDEROS-T		424.3	102.8		1	1				
SUG.PINE-L		150.5	36.5	2	3	5				
CON FIR-L		143.6	34.8	13	20	27				
CON FIR-T		424.3	102.8		3	7				
INC CED-L		424.3	102.8		1	2				

TC TSTATS				STATISTICS				PAGE	2
				PROJECT COTTONW				DATE	10/8/2012
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
41S	01E	04	SOUTH	A2	35.50	18	114	S	W
CL:	68.1 %	COEFF		TREES/ACRE			# OF PLOTS REQ.	INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL		41.4	10.0	149	166	182	72	18	8
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-L		76.4	18.5	88	108	128			
DOUG FIR-T		105.7	25.6	24	32	40			
PONDEROS-L		156.1	37.8	15	24	33			
PONDEROS-T		424.3	102.8		2	4			
SUG.PINE-L		156.3	37.9	16	26	36			
CON FIR-L		138.5	33.6	10	15	20			
CON FIR-T		424.3	102.8		2	4			
INC CED-L		424.3	102.8		4	8			
TOTAL		37.9	9.2	193	213	232	61	15	7
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.	INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L		85.9	20.8	11,111	14,031	16,951			
DOUG FIR-T		109.2	26.5	2,201	2,993	3,784			
PONDEROS-L		159.0	38.5	2,454	3,992	5,531			
PONDEROS-T		424.3	102.8		279	567			
SUG.PINE-L		163.8	39.7	3,454	5,726	7,999			
CON FIR-L		135.0	32.7	794	1,179	1,565			
CON FIR-T		424.3	102.8		171	347			
INC CED-L		424.3	102.8		612	1,242			
TOTAL		42.9	10.4	25,970	28,985	31,999	78	19	9
CL:	68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.	INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L		84.7	20.5	2,817	3,545	4,272			
DOUG FIR-T		106.6	25.8	606	817	1,028			
PONDEROS-L		164.2	39.8	523	869	1,214			
PONDEROS-T		424.3	102.8		67	136			
SUG.PINE-L		159.8	38.7	680	1,110	1,539			
CON FIR-L		136.6	33.1	214	319	425			
CON FIR-T		424.3	102.8		39	78			
INC CED-L		424.3	102.8		149	303			
TOTAL		42.0	10.2	6,210	6,914	7,619	75	19	8

T	Species, Sort Grade - Board Foot Volumes (Type)													Page 1							
	Project: COTTONWD													Date	10/8/2012						
														Time	1:24:58PM						
T41S R01E S04 TA2										T41S R01E S04 TA2											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
41S	01E	04	SOUTH	A2	35.50	18	60	S	W												
S So Gr T rt ad				% Net BdFt	Bd. Ft. per Acre Def% Gross Net		Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
				Log Scale Dia.				Log Length				Ln	Bd	CF/ Lf							
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	Ft	Lf			
DF	L	DO	2M	42	5,908	5,908	210			55	45		19	14	68	35	254	1.68	23.3		
DF	L	DO	3M	35	4,902	4,902	174	1	72	27			39	16	45	32	110	0.86	44.4		
DF	L	DO	4M	23	3,220	3,220	114	52	48			4	48	22	26	29	37	0.38	86.3		
DF	L	Totals		48	14,031	14,031	498	12	36	33	19	1	32	16	50	31	91	0.75	154.0		
DF	T	DO	2M	7	212	212	8			100			100			27	130	1.18	1.6		
DF	T	DO	3M	27	829	829	29			100			100			27	79	0.75	10.5		
DF	T	DO	4M	66	1,952	1,952	69	33	67			3	26		71	31	44	0.40	44.0		
DF	T	Totals		10	2,993	2,993	106	22	71	7		2	52		46	30	53	0.48	56.2		
PP	L	DO	2M	18	731	731	26			100					100	40	1378	6.41	.5		
PP	L	DO	3M	14	549	549	19			100				37	63	37	921	4.46	.6		
PP	L	DO	4M	44	1,799	1,781	63			57	43		29	16	55	34	314	2.05	5.7		
PP	L	DO	5M	14	565	565	20			100			20	80		32	69	0.52	8.2		
PP	L	DO	6M	10	367	367	13	87	7	7		31	49	20		22	25	0.33	14.8		
PP	L	Totals		14	.5	4,011	3,992	142	8	15	26	51	3	20	26	52	27	134	1.06	29.8	
PP	T	DO	4M	93	262	262	9			100			61	39		31	220	1.61	1.2		
PP	T	DO	6M	7	18	18	1	100						100		31	30	0.46	.6		
PP	T	Totals		1	279	279	10	6		94			57	43		31	157	1.22	1.8		
SP	L	DO	SM	13	798	798	28			100					100	40	2800	12.70	.3		
SP	L	DO	2M	8	445	445	16			100			100			27	1560	7.68	.3		
SP	L	DO	3M	29	1,626	1,626	58			100			17		83	37	1391	7.27	1.2		
SP	L	DO	4M	28	1,616	1,616	57			61	39		23		77	34	368	2.36	4.4		
SP	L	DO	5M	20	1,160	1,160	41	2		9	89		30	38	32	30	502	2.94	2.3		
SP	L	DO	6M	2	81	81	3	100					25	75		33	37	0.54	2.2		
SP	L	Totals		20	5,726	5,726	203	2		19	79		26	9	66	33	538	3.15	10.6		
WF	L	DO	3M	30	355	355	13			100					100	40	150	0.97	2.4		
WF	L	DO	4M	70	824	824	29	12	88				31	69		31	41	0.36	20.3		
WF	L	Totals		4	1,179	1,179	42	8	92				22	48	30	32	52	0.44	22.7		
WF	T	DO	4M	100	171	171	6	40	60			40	60			22	25	0.26	6.8		
WF	T	Totals		1	171	171	6	40	60			40	60			22	25	0.26	6.8		
IC	L	DO	4M	95	587	587	21			58	42		10	15	74	35	383	2.56	1.5		
IC	L	DO	6M	5	26	26	1	100					54	46		30	34	0.56	.8		
IC	L	Totals		2	612	612	22	4		55	41		12	16	71	33	267	1.96	2.3		
Type Totals					.1	29,003	28,985		1,029	10	31	26	33	1	31	16	52	30	102	0.80	284.2

Log Stock Table - MBF
Project: COTTONWD

T41S R01E S04 TA2

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Date 10/8/2012
Time 1:24:57PM

S So Gr Log Ppp T rt 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	30-39	40+
DF	L	DO	2M	24	15		15	2.5							15				
DF	L	DO	2M	27	24		24	4.0					24						
DF	L	DO	2M	34	29		29	4.7					29						
DF	L	DO	2M	40	142		142	23.5					45	18	79				
DF	L	DO	3M	25	5		5	.7				5							
DF	L	DO	3M	26	2		2	.4		2									
DF	L	DO	3M	27	61		61	10.1				26	24	11					
DF	L	DO	3M	34	27		27	4.5				12		15					
DF	L	DO	3M	40	79		79	13.1				35	24	20					
DF	L	DO	4M	12	1		1	.1		1									
DF	L	DO	4M	13	1		1	.2		1									
DF	L	DO	4M	15	2		2	.3		2									
DF	L	DO	4M	20	1		1	.2		1									
DF	L	DO	4M	22	3		3	.5		3									
DF	L	DO	4M	23	3		3	.4		3									
DF	L	DO	4M	26	13		13	2.2		8			5						
DF	L	DO	4M	27	26		26	4.3		13	4	9							
DF	L	DO	4M	28	1		1	.2		1									
DF	L	DO	4M	29	7		7	1.1		7									
DF	L	DO	4M	30	1		1	.2		1									
DF	L	DO	4M	31	2		2	.3		2									
DF	L	DO	4M	34	18		18	3.0		5	14								
DF	L	DO	4M	35	5		5	.8		5									
DF	L	DO	4M	40	30		30	5.0		8	23								
DF	T	DO	2M	27	8		8	1.2					8						
DF	T	DO	3M	27	29		29	4.9			13		16						
DF	T	DO	4M	12	2		2	.4		2									
DF	T	DO	4M	21	1		1	.2		1									
DF	T	DO	4M	26	4		4	.7				4							
DF	T	DO	4M	27	7		7	1.2		7									
DF	T	DO	4M	28	2		2	.4		2									
DF	T	DO	4M	29	3		3	.5		3									
DF	T	DO	4M	40	49		49	8.1		8	33	9							
DF				Totals	604		604	58.7		85	73	112	70	141	29	94			
PP	L	DO	2M	40	26		26	17.1								26			
PP	L	DO	3M	34	7		7	4.7							7				
PP	L	DO	3M	40	12		12	8.1								12			
PP	L	DO	4M	27	19	3.5	18	11.9					4	3	11				
PP	L	DO	4M	34	10		10	6.9					5		5				
PP	L	DO	4M	40	35		35	22.9						9	26				
PP	L	DO	5M	27	4		4	2.6			2	2							
PP	L	DO	5M	34	16		16	10.6			8		8						
PP	L	DO	6M	13	2		2	1.0		2									
PP	L	DO	6M	15	1		1	.7		1									
PP	L	DO	6M	16	1		1	.3		1									
PP	L	DO	6M	20	1		1	.6					1						
PP	L	DO	6M	22	0		0	.1		0									
PP	L	DO	6M	26	0		0	.2		0									

Log Stock Table - MBF
Project: COTTONWD

T41S R01E S04 TA2

T41S R01E S04 TA2

Twp Rge Sec Tract
 41S 01E 04 SOUTH

Type Acres Plots Sample Trees
 A2 35.50 18 60

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 Date 10/8/2012
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Time 1:24:57 PM																							
Spp	S	So	Gr	Log	T	rt	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	30-39
PP	L	DO	6M	27					6		6	3.9		6									
PP	L	DO	6M	32					1		1	.5		1									
PP	L	DO	6M	34					2		2	1.2		1		1							
PP	T	DO	4M	27					6		6	3.8						6					
PP	T	DO	4M	34					4		4	2.4				4							
PP	T	DO	6M	31					1		1	.4		1									
PP Totals									152		152	14.7		12	10	3	8	13	13	48	7	38	
SP	L	DO	SM	40					28		28	13.9										28	
SP	L	DO	2M	27					16		16	7.8										16	
SP	L	DO	3M	27					10		10	4.9									10		
SP	L	DO	3M	40					48		48	23.5									24	23	
SP	L	DO	4M	27					13		13	6.6				7			6				
SP	L	DO	4M	40					44		44	21.6							22	22			
SP	L	DO	5M	23					3		3	1.7							3				
SP	L	DO	5M	24					0		0	.1		0									
SP	L	DO	5M	27					9		9	4.2							9				
SP	L	DO	5M	35					16		16	7.7										16	
SP	L	DO	5M	36					13		13	6.5		0					4		9		
SP	L	DO	6M	28					1		1	.3		1									
SP	L	DO	6M	35					2		2	1.1		2									
SP Totals									203		203	19.8		4			7		44	22	44	83	
WF	L	DO	3M	40					13		13	26.3				13							
WF	L	DO	4M	27					9		9	18.8			9								
WF	L	DO	4M	33					3		3	7.0		3									
WF	L	DO	4M	34					17		17	35.2			17								
WF	T	DO	4M	16					2		2	5.1		2									
WF	T	DO	4M	27					4		4	7.6			4								
WF Totals									48		48	4.7		6	30		13						
IC	L	DO	4M	27					2		2	10.0					2						
IC	L	DO	4M	34					3		3	14.5						3					
IC	L	DO	4M	40					15		15	71.3							7	9			
IC	L	DO	6M	28					1		1	2.3		1									
IC	L	DO	6M	33					0		0	1.9		0									
IC Totals									22		22	2.1		1			2	3	7	9			
Total All Species									1,030		1,029	100.0		107	113	115	90	163	45	192	38	82	83

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT COTTONW				DATE	10/8/2012	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
41S	01E	04	A1A2	ALL	3.00	39	258	S	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL				39	258	6.6				
CRUISE				22	155	7.0	429	36.1		
DBH COUNT										
REFOREST										
COUNT				16	103	6.4				
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-L		51	64.8	15.8	74	22	87.9	11,287	11,239	2,787
DOUG FIR-T		32	41.5	12.8	68	10	37.1	3,740	3,740	951
PONDEROS-L		34	15.6	21.3	78		38.8	5,794	5,744	1,312
PONDEROS-T		2	1.4	21.1	79		3.4	415	354	102
SUG.PINE-L		17	4.5	36.5	114		32.7	6,202	6,202	1,239
SUG.PINE-T		3	2.3	14.4	57		2.6	139	139	49
CON FIR-L		9	9.7	14.6	76	2	11.2	1,272	1,272	312
CON FIR-T		1	1.6	10.0	70	0	.9	79	79	18
INC CED-L		4	1.0	31.6	100		5.2	754	754	186
INC CED-T		2	.8	25.1	71		2.6	167	167	64
TOTAL		155	143.1	16.9	74		222.3	29,849	29,690	7,018
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-L		138.4	19.4	380	471	563				
DOUG FIR-T		177.2	31.3	149	217	285				
PONDEROS-L		100.9	17.3	818	989	1,159				
PONDEROS-T		87.8	82.2	52	290	528				
SUG.PINE-L		85.5	21.3	1,546	1,966	2,386				
SUG.PINE-T		56.8	39.3	40	67	93				
CON FIR-L		120.3	42.4	178	310	442				
CON FIR-T										
INC CED-L		79.3	45.3	597	1,093	1,588				
INC CED-T		6.4	6.0	207	220	233				
TOTAL		144.6	11.6	607	687	766	835	209	93	
CL: 68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR-L		129.6	18.1	91	111	132				
DOUG FIR-T		144.5	25.5	37	50	62				
PONDEROS-L		85.8	14.7	180	211	243				
PONDEROS-T		60.0	56.2	35	79	124				
SUG.PINE-L		74.0	18.5	307	376	446				
SUG.PINE-T		58.4	40.4	14	23	33				
CON FIR-L		108.3	38.2	45	73	100				
CON FIR-T										
INC CED-L		70.2	40.1	154	258	361				
INC CED-T		20.1	18.8	72	88	105				
TOTAL		124.8	10.0	133	148	163	622	155	69	
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-L		85.0	13.6	56	65	74				
DOUG FIR-T		128.4	20.5	33	42	50				

TC TSTATS				STATISTICS				PAGE	2
				PROJECT COTTONW				DATE	10/8/2012
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
41S	01E	04	A1A2	ALL	3.00	39	258	S	W
CL:	68.1 %	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
PONDEROS-L		155.9	24.9	12	16	20			
PONDEROS-T		377.5	60.4	1	1	2			
SUG.PINE-L		123.0	19.7	4	5	5			
SUG.PINE-T		494.4	79.1	0	2	4			
CON FIR-L		216.1	34.6	6	10	13			
CON FIR-T		624.5	99.9	0	2	3			
INC CED-L		335.0	53.6	0	1	1			
INC CED-T		355.7	56.9	0	1	1			
TOTAL		56.1	9.0	130	143	156	126	31	14
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-L		78.8	12.6	77	88	99			
DOUG FIR-T		107.7	17.2	31	37	43			
PONDEROS-L		118.5	19.0	31	39	46			
PONDEROS-T		373.9	59.8	1	3	6			
SUG.PINE-L		125.7	20.1	26	33	39			
SUG.PINE-T		460.5	73.7	1	3	4			
CON FIR-L		186.4	29.8	8	11	15			
CON FIR-T		624.5	99.9	0	1	2			
INC CED-L		317.7	50.8	3	5	8			
INC CED-T		350.9	56.1	1	3	4			
TOTAL		37.6	6.0	209	222	236	56	14	6
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-L		85.4	13.7	9,705	11,239	12,774			
DOUG FIR-T		108.2	17.3	3,092	3,740	4,387			
PONDEROS-L		124.0	19.8	4,604	5,744	6,884			
PONDEROS-T		387.6	62.0	135	354	574			
SUG.PINE-L		131.0	21.0	4,902	6,202	7,502			
SUG.PINE-T		439.9	70.4	41	139	237			
CON FIR-L		192.1	30.7	881	1,272	1,663			
CON FIR-T		624.5	99.9	0	79	158			
INC CED-L		330.4	52.9	355	754	1,152			
INC CED-T		358.0	57.3	71	167	262			
TOTAL		40.4	6.5	27,770	29,690	31,609	65	16	7
CL:	68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L		85.0	13.6	2,408	2,787	3,166			
DOUG FIR-T		108.2	17.3	786	951	1,115			
PONDEROS-L		124.2	19.9	1,051	1,312	1,572			
PONDEROS-T		377.1	60.3	40	102	163			
SUG.PINE-L		129.1	20.7	983	1,239	1,494			
SUG.PINE-T		439.1	70.2	14	49	83			
CON FIR-L		191.0	30.6	217	312	407			
CON FIR-T		624.5	99.9	0	18	36			
INC CED-L		327.7	52.4	88	186	283			
INC CED-T		351.3	56.2	28	64	101			
TOTAL		39.3	6.3	6,577	7,018	7,460	62	15	7

T	Species, Sort Grade - Board Foot Volumes (Type)														Page		1						
Project: COTTONWD														Date	10/8/2012								
														Time	1:30:37PM								
T41S R01E S04 TALL										T41S R01E S04 TALL													
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt														
41S	01E	04	A1A2	ALL	3.00	39	155	S	W														
S So Gr T rt 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 Ft	Bd Ft	CF/ Lf						
DF	L	DO	SM	6		778	778	2							100			40	1668	8.05	.5		
DF	L	DO	2M	42	1.0	4,704	4,656	14				52	48				27	15	58	34	273	1.85	17.1
DF	L	DO	3M	32		3,579	3,579	11	1	66	17	16					44	16	40	31	114	0.95	31.3
DF	L	DO	4M	20		2,226	2,226	7	60	40				7	45	32	16			28	34	0.37	64.7
DF	L	Totals		38	.4	11,287	11,239	34	12	29	27	32		1	34	18	47	29	99	0.83		113.5	
DF	T	DO	SM	3		144	144	0							100			27	980	6.08	.1		
DF	T	DO	2M	21		756	756	2			79	21					20	45	36	33	235	1.62	3.2
DF	T	DO	3M	31		1,193	1,193	4		74	8	18					51	33	16	32	84	0.65	14.2
DF	T	DO	4M	45		1,646	1,646	5	36	58	2	3		9	30	11	51	30	43	0.40		38.1	
DF	T	Totals		13		3,740	3,740	11	16	49	19	16		4	37	24	35	31	67	0.56		55.7	
PP	L	CH	6M			41	41	0							100			34	300	2.32	.1		
PP	L	DO	SM	12		672	672	2									100	40	1469	6.93	.5		
PP	L	DO	2M	10		582	582	2						14		86	38	1228	5.98	.5			
PP	L	DO	3M	10		581	581	2		4		96				20	80	37	761	4.12	.8		
PP	L	DO	4M	38	1.2	2,202	2,175	7		1	27	72		4	26	10	59	34	402	2.59	5.4		
PP	L	DO	5M	24	1.5	1,403	1,383	4	0	45	31	24		6	30	32	31	30	112	0.99	12.4		
PP	L	DO	6M	6	.9	313	310	1	74	15	11			25	49	11	15	22	29	0.45	10.7		
PP	L	Totals		19	.9	5,794	5,744	17	4	12	19	65		5	21	15	59	29	190	1.52		30.3	
PP	T	DO	4M	95	15.4	399	338	1	3		97					72	28	27	119	1.23	2.8		
PP	T	DO	6M	5		16	16	0	100								100	31	30	0.46	.5		
PP	T	Totals		1	14.8	415	354	1	7		93					69	31	27	104	1.09		3.4	
SP	L	DO	SM	13		815	815	2								100		40	2004	9.45	.4		
SP	L	DO	2M	10		662	662	2						20	25	18	37	30	1031	5.95	.6		
SP	L	DO	3M	21		1,278	1,278	4								20	20	60	34	1201	6.15	1.1	
SP	L	DO	4M	34		2,104	2,104	6	0		27	72		0	22	22	55	32	446	2.87	4.7		
SP	L	DO	5M	20		1,269	1,269	4	1	10	13	76				29	61	11	30	277	1.98	4.6	
SP	L	DO	6M	2		74	74	0	100					34	10	31	26	24	27	0.60	2.8		
SP	L	Totals		21		6,202	6,202	19	1	2	12	84		3	20	26	51	30	437	2.90		14.2	
SP	T	DO	5M	85		119	119	0		100						59	41	30	52	0.64	2.3		
SP	T	DO	6M	15		20	20	0	100					100				14	14	0.22	1.5		
SP	T	Totals		0		139	139	0	15	85				15	50		35	24	37	0.54		3.8	
WF	L	DO	2M	28		366	366	1			31	69				69		31	33	413	2.83	.9	
WF	L	DO	3M	41		520	520	2		72	11	17				35	42	23	32	140	0.99	3.7	
WF	L	DO	4M	31		387	387	1	19	81				14	32	51	2	27	36	0.38	10.7		
WF	L	Totals		4		1,272	1,272	4	6	54	13	27		4	44	33	19	29	83	0.71		15.3	
WF	T	DO	4M	100		79	79	0	40	60				40	60			22	25	0.26		3.2	

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)												Page		2					
				Project: COTTONWD												Date		10/8/2012					
																Time		1:30:37PM					
T41S R01E S04 TALL												T41S R01E S04 TALL											
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt					
41S		01E		04		A1A2		ALL		3.00		39		155		S		W					
S So Gr Spp T rt ad				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre			
									Log Scale Dia.				Log Length				Ln	Bd	CF/ Lf				
									4-5 6-11 12-16 17+				12-20 21-30 31-35 36-99				Ft	Ft					
WF		T Totals		0	79 79			0	40 60				40 60				22	25	0.26	3.2			
IC		L DO 2M		19	148 148			0	100				100				34	1560	9.61	.1			
IC		L DO 3M		9	64 64			0	100				100				27	680	4.36	.1			
IC		L DO 4M		54	406 406			1	58 42				10 15 74				35	383	2.56	1.1			
IC		L DO 5M		13	101 101			0	100				100				27	310	2.78	.3			
IC		L DO 6M		5	35 35			0	100				28 61 11				33	37	0.80	1.0			
IC		L Totals		3	754 754			2	5 31 64				29 31 41				33	299	2.25	2.5			
IC		T DO 4M		51	85 85			0	100				100				27	190	1.98	.4			
IC		T DO 5M		36	60 60			0	100				100				40	200	2.38	.3			
IC		T DO 6M		13	21 21			0	100				14 86				27	28	0.58	.8			
IC		T Totals		1	167 167			0	13 87				2 51 47				30	111	1.45	1.5			
Type Totals					.5 29,849 29,690			89	8 23 22 47				3 30 21 46				29	122	0.98	243.3			

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TWP	RGE	SC	TRACT	Type		Acres		Plots	Trees	CuFt		BdFt										
41S	01E	04	A1A2	ALL		3.00		39	155	S		W										
Tree				C				T		BoleTot		BfCf		BfCf		BfCf		BfCf		BfCf		
Plot	No	PF	A	Spc	S	T	DBH	FP	FF	D	Hgt	Hgt	PRDVT	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP		
1001	0001	B11	DF	T	1		17.0	4	87	0	78	78		D327	D4--							
1001	0002	B11	SP	L	1		59.0	4	85	0	126	126		D140	D234	DC27	DD--					
1001	0003	B11	SP	L	1		42.0	4	83	0	119	119		D140	DC34	DC27	00--					
1001	0004	B11	SP	L	1		38.0	4	85	0	127	127		D240	DC34	DD--						
1001	0005	B11	DF	L	1		61.0	4	81	0	70	70		D340	D4--							
1001	0006	B11	DF	T	1		38.0	4	85	0	128	128		D127	D334	D4--						
1001	0007	B11	PP	L	1		36.0	4	83	0	81	81		DC40	DC27	00--						
1001	0008	B11	IC	T	1		28.0	4	81	0	61	61		DC40	DD--							
1001	0009	B11	SP	L	1		40.0	4	83	0	120	120		D427	DC34	DC--						
1001	0010	B11	DF	L	1		49.0	4	86	0	130	130		D140	D234	D327	D4--					
1002	0001	B11	SP	L																		
1002	0002	B11	IC	L																		
1002	0003	B11	WF	L																		
1002	0004	B11	PP	L																		
1003	0001	B11	PP	L	1		24.0	4	85	0	90	90		DC40	DC27	00--						
1003	0002	B11	WF	L	1		34.0	4	86	0	112	112		D227	D334	D4--						
1003	0003	B11	PP	L	1		47.0	4	87	0	132	132		D140	DC40	DC27	DD--					
1003	0004	B11	IC	L	1		50.0	4	81	0	110	110		D234	D327	DD--						
1003	0005	B11	DF	T	1		13.0	4	86	0	56	56		D4--								
1003	0006	B11	SP	T	1		17.0	4	83	0	74	74		DC40	DD--							
1003	0007	B11	PP	L	1		25.0	4	83	0	102	102		DC34	DC27	DD--						
1004	0001	B11	IC	L	1		27.0	4	80	0	72	72		DC27	DD--							
1004	0002	B11	SP	L	1		41.0	4	89	0	126	126		D334	DC34							
1004	0003	B11	DF	T	1		34.0	4	83	0	93	93		D327	D4--							
1004	0004	B11	DF	L	1		16.0	4	83	0	38	38		D427								
1004	0005	B11	DF	L	1		19.0	4	85	0	85	85		D2274	D327							
1004	0006	B11	DF	T	1		23.0	4	85	0	89	89		D234	D327	D4--						
1005	0002	B11	DF	L	3																	
1005	0003	B11	DF	T	1																	
1005	0004	B11	SP	L	4																	
1006	0001	B11	SP	L	1		39.0	4	89	0	134	134		D440	DC34	DC27	DD17	00--				
1006	0002	B11	DF	L	1		21.0	4	86	0	95	95		D234	D327	D4--						
1006	0003	B11	DF	L	1		15.0	4	83	0	52	52		D434								
1006	0004	B11	DF	T	1		12.0	4	86	0	52	52		D434								
1006	0005	B11	DF	L	1		9.0	4	83	0	39	39		D425								
1006	0006	B11	DF	L	1		15.0	4	86	0	53	53		D434								
1007	0001	B11	SP	L	3																	
1007	0002	B11	PP	L	1																	
1008	0001	B11	SP	L	1		38.0	4	87	0	94	94		D440	DC27	DD--						
1008	0002	B11	DF	L	1		27.0	4	81	0	101	101		D2407	D327	D4--						
1008	0003	B11	PP	L	1		36.0	4	83	0	89	89										
1008	0004	B11	PP	L	1		10.0	4	85	0	52	52		DC27								

TC TreeList				Plot Tree List														Page	2		
				Project COTTONWD														Date	10/08/2012		
TWP	RGE	SC	TRACT	Type				Acres				Plots		Trees		CuFt	BdFt				
41S	01E	04	A1A2	ALL				3.00				39		155		S	W				
Tree				C				T		BoleTot		BfCf		BfCf		BfCf		BfCf		BfCf	
Plot	No	PF	A	Spc	S	T	DBH	FP	FF	D	Hgt	Hgt	PRDVT	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	
1008	0005	B11	DF	L	1		42.0	4	81	0	112	112		D340	D327	D4--					
1008	0006	B11	SP	T	1		14.0	4	83	0	46	46		DC27							
1008	0007	B11	SP	T	1		13.0	4	85	0	57	57		DC27	DD--						
1008	0008	B11	PP	L	1		18.0	4	79	0	68	68		DC274	DD--						
2001	0002	B11	PP	L	1		40.0	4	86	0	110	110		D427	DC27	DD27	DD--				
2001	0003	B11	PP	L	1		39.0	4	85	0	108	108		D240	D34	DD--					
2001	0004	B11	PP	L	1		36.0	4	83	0	89	89		D340	D434	00--					
2001	0005	B11	DF	L	1		19.0	4	85	0	90	90		D227	D327	D4--					
2001	0006	B11	DF	L	1		10.0	4	81	0	50	50		D427	00--						
2001	0007	B11	DF	L	1		13.0	4	83	0	52	52		D327	D4--						
2002	0002	B11	DF	L	4																
2002	0003	B11	DF	T	1																
2002	0004	B11	SP	L	1																
2003	0001	B11	WF	L	1		24.0	4	82	0	94	94		D240	D326	D4--					
2003	0002	B11	PP	L	1		54.0	4	87	0	130	130		D140	D427	DC34	DD--				
2003	0003	B11	WF	L	1		28.0	4	83	0	100	100		D227	D327	D4--					
2003	0004	B11	PP	L	1		42.0	4	87	0	130	130		D340	D434	DC--					
2003	0005	B11	SP	L	1		39.0	4	87	0	128	128		D340	D434	DD--					
2004	0002	B11	DF	T	2																
2004	0003	B11	DF	L	4																
2004	0004	B11	SP	L	1																
2005	0001	B11	DF	T	1		9.0	4	83	0	48	48		D412							
2005	0002	B11	WF	L	1		15.0	4	87	0	92	92		D334	D417	D417					
2005	0003	B11	DF	T	1		8.0	4	87	0	56	56		D427							
2005	0004	B11	PP	L	1		49.0	4	86	0	138	138		D140	D227	DC34	DD--				
2005	0005	B11	DF	L	1		20.0	4	85	0	88	88		D227	D327	D4--					
2005	0006	B11	DF	L	1		12.0	4	87	0	86	86		D327	D4--						
2005	0007	B11	WF	L	1		15.0	4	86	0	85	85		D327	D427	00--					
2005	0008	B11	SP	L	1		43.0	4	83	0	128	128		D217	D323	D427	D4--	00--			
2005	0009	B11	DF	T	1		15.0	4	85	0	62	62		D440							
2005	0010	B11	DF	L	1		17.0	4	86	0	62	62		D334	D4--						
2005	0011	B11	DF	L	1		24.0	4	83	0	101	101		D227	D334	D4--					
2006	0001	B11	PP	L	1		21.0	4	83	0	92	92		D427	DC34	DD--					
2006	0002	B11	DF	L	1		31.0	4	86	0	127	127		D240	D227	D327	D4--				
2006	0003	B11	DF	T	1		28.0	4	87	0	118	118		D240	D227	D327	00--				
2006	0004	B11	DF	L	1		27.0	4	86	0	118	118		D240	D232	D427	00--				
2007	0001	B11	DF	L	1		13.0	4	85	0	78	78		D327	D4--						
2007	0002	B11	DF	T	1		13.0	4	86	0	65	65		D440							
2007	0003	B11	DF	L	1		27.0	4	87	0	126	126		D240	D227	D327	D4--				
2007	0004	B11	PP	L	1		12.0	4	87	0	47	47		DC27							
2007	0005	B11	IC	T	1		23.0	4	78	0	77	77		D427	DD--						
2007	0006	B11	SP	L	1		26.0	4	85	0	90	90		D434	DC27	DD--					
2007	0007	B11	DF	T	1		15.0	4	85	0	80	80		D334	D4--						
2007	0008	B11	DF	T	1		11.0	4	83	0	70	70		D440							
2007	0009	B11	DF	T	1		13.0	4	83	0	72	72		D340							

TC TreeList				Plot Tree List										Page	3
				Project COTTONWD										Date	10/08/2012
TWP	RGE	SC	TRACT	Type				Acres		Plots		Trees		CuFt	BdFt
41S	01E	04	A1A2	ALL				3.00		39		155		S	W
Tree				C		T		BoleTot		BfCf		BfCf		BfCf	
Plot	No	PF	A	Spc	S	T	DBH	FP	FF	D	Hgt	Hgt	PRDVT	SgLnFiFiP	SgLnFiFiP
3001	0001	B11	PP	L	1		28.0	4	85	0	101	101		D440	DC27
3001	0002	B11	SP	L	1		27.0	4	86	0	85	85		D434	DC34
3001	0003	B11	SP	L	1		30.0	4	84	0	95	95		D440	DC27
3001	0004	B11	PP	L	1		30.0	4	87	0	100	100		D440	D427
3001	0005	B11	PP	L	1		31.0	4	85	0	101	101		D440	DC40
3001	0006	B11	DF	T	1		10.0	4	85	0	65	65		D334	00--
3001	0007	B11	DF	T	1		11.0	4	85	0	70	70		D340	00--
3001	0008	B11	DF	T	1		9.0	4	85	0	65	65		D434	00--
3001	0009	B11	PP	L	1		35.0	4	85	0	100	100		D4405	DC40
3002	0001	B11	DF	L	3										
3002	0002	B11	DF	T	1										
3002	0003	B11	PP	L	1										
3003	0001	B11	PP	L	1		32.0	4	85	0	110	110		D440	DD40
3003	0002	B11	PP	L	1		30.0	4	87	0	91	91		D420	DC20
3003	0003	B11	DF	T	1		11.0	4	85	0	68	68		D334	00--
3003	0004	B11	DF	L	1		8.0	4	87	0	65	65		D432	00--
3003	0005	B11	DF	L	1		40.0	4	85	0	120	120		D140	D340
3003	0006	B11	DF	L	1		22.0	4	85	0	85	85		D240	D427
3003	0007	B11	DF	T	1		20.0	4	85	0	80	80		D240	D425
3003	0008	B11	DF	T	1		18.0	4	87	0	78	78		D234	D427
3003	0009	B11	DF	T	1		22.0	4	87	0	82	82		D234	D327
3004	0001	B11	SP	L	2										
3004	0002	B11	IC	L	2										
3004	0003	B11	DF	L	1										
3004	0004	B11	DF	L	1										
3004	0005	B11	DF	L	1										
3004	0006	B11	DF	L	1										
3004	0007	B11	PP	L	1										
3004	0008	B11	IC	T	1										
3005	0001	B11	PP	L	1		32.0	4	86	0	95	95		D140	D334
3005	0002	B11	PP	T	1		19.0	4	85	0	60	60		D4--2	
3005	0003	B11	DF	L	1		48.0	4	85	0	95	95		D140	D334
3005	0004	B11	PP	L	1		30.0	4	87	0	115	115		D440	DC349
3005	0005	B11	PP	L	1		28.0	4	83	0	78	78		DC40	DD277
3006	0001	B11	PP	L	5										
3006	0002	B11	PP	T	2										
3006	0003	B11	SP	L	1										
3006	0004	B11	DF	L	1										
4001	0001	B11	WF	L	1		12.0	4	82	0	61	61		D434	
4001	0002	B11	WF	L	1		12.0	4	82	0	62	62		D434	
4001	0003	B11	DF	L	1		26.0	4	85	0	120	120		D240	D340
4001	0004	B11	SP	L	1		40.0	4	84	0	122	122		D340	DC27
4001	0005	B11	SP	L	1		58.0	4	84	0	125	125		D340	D327
4001	0006	B11	SP	L	1		58.0	4	84	0	230	230		D140	D227

TC TreeList				Plot Tree List										Page	4						
				Project		COTTONWD										Date	10/08/2012				
TWP	RGE	SC	TRACT	Type		Acres		Plots		Trees		CuFt		BdFt							
41S	01E	04	A1A2	ALL		3.00		39		155		S		W							
Tree				C		T				BoleTot		BfCf		BfCf		BfCf		BfCf		BfCf	
Plot	No	PF	A	Spc	S	T	DBH	FP	FF	D	Hgt	Hgt	PRDVT	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP
4002	0001	B11	DF		L	1															
4002	0002	B11	SP		L	4															
4002	0003	B11	WF		L	1															
4003	0001	B11	PP		L	1	26.0	4	87	0	127	127		D440	D434	DD--					
4003	0002	B11	PP		L	1	24.0	4	86	0	118	118		D440	D427	DD--					
4003	0003	B11	PP		T	1	24.0	4	83	0	110	110		D427	D434	DD--					
4003	0004	B11	PP		L	1	25.0	4	81	0	100	100		D440	DC27	DD--					
4003	0005	B11	PP		L	1	40.0	4	86	0	118	118		D240	D440	DD--					
4003	0006	B11	DF		T	1	11.0	4	87	0	78	78		D440	D4--						
4003	0007	B11	SP		L	1	25.0	4	85	0	122	122		D440	D427	DD--					
4004	0001	B11	DF		L	3															
4004	0002	B11	SP		L	1															
4004	0003	B11	WF		L	1															
4005	0001	B11	DF		L	1	8.0	4	85	0	50	50		D427							
4005	0002	B11	DF		L	1	12.0	4	86	0	66	66		D4272							
4005	0003	B11	WF		L	1	9.0	4	85	0	70	70		D427							
4005	0004	B11	IC		L	1	27.0	4	81	0	112	112		D440	D427	DD--					
4005	0005	B11	IC		L	1	34.0	4	83	0	122	122		D440	D434	DD--					
4005	0006	B11	PP		L	1	42.0	4	85	0	160	160		D240	D334	D427	DD--				
4006	0001	B11	DF		L	5															
4006	0002	B11	DF		T	1															
4007	0001	B11	PP		L	1	17.0	4	86	0	98	98		DC34	DC27	DD--					
4007	0002	B11	DF		L	1	17.0	4	85	0	98	98		D227	D327	D4--					
4007	0003	B11	PP		L	1	10.0	4	86	0	79	79		DC34	DD--						
4008	0001	B11	DF		L	2															
4008	0002	B11	DF		T	1															
4008	0003	B11	PP		L	2															
4008	0004	B11	WF		L	1															
4008	0005	B11	SP		L	2															
4009	0001	B11	DF		L	1	27.0	4	87	0	120	120		D240	D334	D4--					
4009	0002	B11	DF		L	1	19.0	4	86	0	112	112		D240	D3--						
4009	0003	B11	DF		L	1	15.0	4	83	0	70	70		D327	D4--						
4009	0004	B11	DF		T	1	14.0	4	85	0	75	75		D327	D4--						
4009	0005	B11	DF		L	1	24.0	4	87	0	124	124		D224	D327	D4--					
4009	0006	B11	DF		L	1	25.0	4	85	0	126	126		D240	D334	D4--					
4009	0007	B11	DF		T	1	9.0	4	85	0	53	53		D427							
4009	0008	B11	DF		L	1	20.0	4	83	0	86	86		D340	D4--						
4009	0009	B11	DF		L	1	19.0	4	85	0	110	110		D240	D327	D4--					
4009	0010	B11	DF		T	1	16.0	4	83	0	106	106		D327	D4--						
4009	0011	B11	DF		L	1	19.0	4	85	0	110	110		D240	D327	D4--					
4009	0012	B11	DF		L	1	21.0	4	86	0	120	120		D240	D340	D4--					
5001	0001	B11	DF		L	6															
5001	0002	B11	DF		T	2															

TC TreeList														Plot Tree List										Page	5
														Project		COTTONWD						Date	10/08/2012		
TWP	RGE	SC	TRACT				Type			Acres			Plots		Trees		CuFt		BdFt						
41S	01E	04	A1A2				ALL			3.00			39		155		S		W						
Tree				C					T	BoleTot		BfCf		BfCf		BfCf		BfCf							
Plot	No	PF	A	Spc	S	T	DBH	FP	FF	D	Hgt	Hgt	PRDVT	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP	SgLnFiFiP						
5002	0001	B11	DF		T	1	14.0	4	83	0	76	76		D440											
5002	0002	B11	DF		L	1	15.0	4	87	0	80	80		D327	D4--										
5002	0003	B11	DF		L	1	12.0	4	83	0	60	60		D440											
5002	0004	B11	DF		L	1	19.0	4	86	0	84	84		D234	D434	00--									
5002	0005	B11	PP		L	1	36.0	4	87	0	130	130		D340	D434	DD34	00--								
5002	0006	B11	PP		L	1	9.0	4	89	0	49	49		DD27											
5003	0001	B11	DF		T	1																			
5003	0002	B11	DF		L	2																			
5004	0001	B11	DF		T	1	18.0	4	86	0	82	82		D227	D327	D4--									
5004	0002	B11	DF		T	1	11.0	4	83	0	71	71		D440											
5004	0003	B11	DF		L	1	17.0	4	86	0	88	88		D227	D327	D4--									
5004	0004	B11	DF		L	1	10.0	4	86	0	69	69		D434											
5004	0005	B11	DF		L	1	19.0	4	87	0	90	90		D234	D327	D4--									
5004	0006	B11	DF		L	1	13.0	4	83	0	72	72		D440											
5005	0001	B11	DF		L	1																			
5005	0002	B11	PP		L	1																			
5006	0001	B11	DF		L	1	15.0	4	86	0	90	90		D340	D4--										
5006	0002	B11	DF		L	1	15.0	4	81	0	80	80		D334	D426										
5006	0003	B11	DF		L	1	16.0	4	83	0	89	89		D340	D4--										
5006	0004	B11	DF		T	1	13.0	4	83	0	72	72		D440											
5006	0005	B11	DF		L	1	12.0	4	83	0	70	70		D440											
5006	0006	B11	DF		T	1	10.0	4	86	0	65	65		D440											
5006	0007	B11	DF		L	1	17.0	4	86	0	101	101		D340	D427	D4--									
5006	0008	B11	DF		T	1	16.0	4	86	0	97	97		D327	D327	D4--									
5007	0001	B11	DF		L	6																			
5007	0002	B11	DF		T	1																			
5007	0003	B11	WF		L	1																			
5007	0004	B11	SP		L	2																			
5008	0001	B11	WF		L	1	17.0	4	87	0	92	92		D340	D4--										
5008	0002	B11	WF		T	1	10.0	4	86	0	70	70		D427	D4--										
5008	0003	B11	DF		L	1	28.0	4	86	0	122	122		D240	D340	D4--									
5008	0004	B11	PP		L	1	27.0	4	83	0	106	106		D427	D4274										
5008	0005	B11	DF		T	1	14.0	4	85	0	70	70		D440											
5008	0006	B11	SP		L	1	38.0	4	83	0	108	108		D440	D427	DD--									
5009	0001	B11	DF		L	4																			
5009	0002	B11	DF		L	2																			

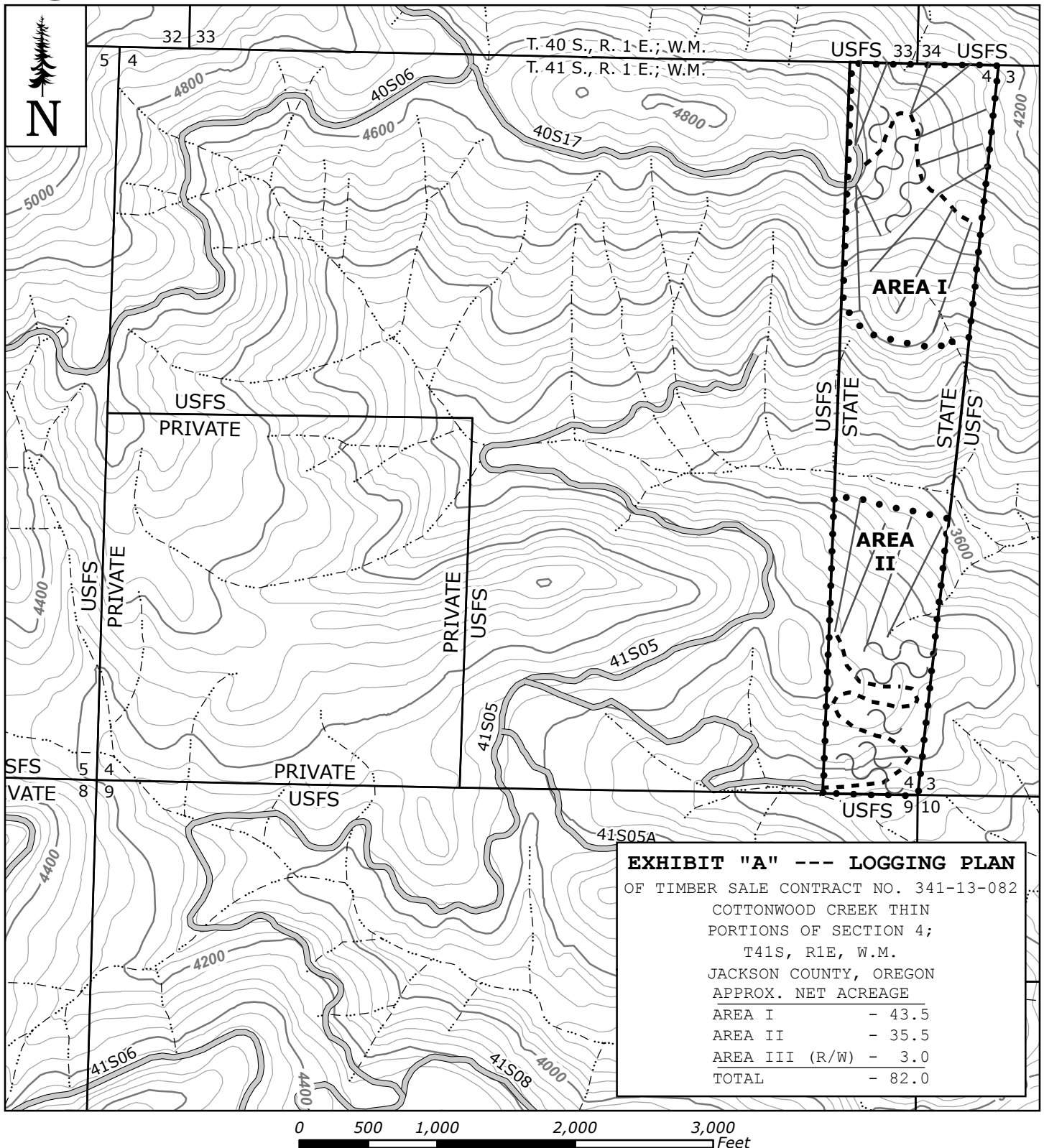


EXHIBIT "A" --- LOGGING PLAN
OF TIMBER SALE CONTRACT NO. 341-13-082
COTTONWOOD CREEK THIN
PORTIONS OF SECTION 4;
T41S, R1E, W.M.
JACKSON COUNTY, OREGON
APPROX. NET ACREAGE

AREA I	- 43.5
AREA II	- 35.5
AREA III (R/W)	- 3.0
TOTAL	- 82.0

- Timber Sale Boundary
- Ownership Boundary
- State Forests Ownership
- Fish Stream
- Nonfish or Unknown Fish
- Existing Road
- Road Construction Req.
- Cable
- Tractor