

# **TIMBER SALE APPRAISAL**

## **Siuslaw National Forest**

### **Hebo Ranger District**

**Horn Thin**

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(Sale Name)

**13102**

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(SALE Number)

**North Nestucca EA**

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(EA/EIS/CE)

## Horn Thin NARRATIVE

### Description of Sale Area

This sale consists of 7 commercial thinning subdivisions totaling 449 acres and will be sold as a ton sale and scaled 100% weight. There is an estimated 44,361 tons (14,927ccf or 7,382mbf) in this sale.

### General Location

This sale is approximately 6 miles northwest of Hebo, Oregon along Forest Service Roads 1023 and 1024 and is in the North Nestucca watershed.

### Routes of Access

Sale is appraised to Willamina, Oregon via Highways 101, 22 and 18, county road 880 and National Forest System roads 1023 and 1024 and their tributaries.

### Relation to Other Sales

There are no nearby sales.

### Marking

Subdivision boundaries are flagged with blue ribbon and tagged with blue boundary tags. Boundary trees are marked with orange tracer paint. All subdivisions are designation by description. Subdivisions 164, 165, 166, 184, 208 and 209 include 1 acre and ½ acre gaps. Gaps centers are identified by a leave tree with an orange tracer paint band at DBH and a mark on the stump.

### Logging

This sale is appraised for 83% skyline yarding and 17% ground-based yarding. Ground-based yarding will not be allowed on slopes greater than 30%. Elevated tailholds and intermediate supports will be needed to meet yarding objectives. Some downhill yarding is required. Directional felling is required. Full suspension is required when yarding across streamcourses.

### Roads and Other Developments

Approximately 1.36 miles of temporary roads and 185 landings within the road prism are planned. Rock will be needed for temporary roads at the approach to all season system roads. Temporary roads will need approximately 180 cubic yards of rock and landings will need 0 cubic yards of rock.

### Road Maintenance

Purchaser will be responsible for prehaul, routine, seasonal, and post haul maintenance on system roads. Brushing and blading is included for TIL-880 (Farmer Creek Road) under a Schedule A maintenance agreement with Tillamook County. Approximately 1310 cubic yards of spot rock will be required on system roads. Specific requirements to prevent the spread of invasive species are included in the road maintenance specifications.

### Specified Road Reconstruction

There is specified reconstruction for roads 1023 and 1024 with a total 4.55 miles. The road completion date is 10/15/2014.

### Erosion Control

Purchaser will be required to block temporary roads, install waterbars on landings, skid trails, and temporary roads, and seed landings, skid trails and temporary roads. A coop deposit of \$0.02 ton will be required for the cost of the seed that will be provided by the Forest Service.

### Slash Disposal

Purchaser will be required to scatter or machine pile and cover landing slash at all landings. Forest Service will burn piles.

### Scaling

The sale will be scaled by 100% weight and paid for by the ton. Purchaser shall request an alternate scaling site and enter into a "Weighing Service Agreement". Any load for which no weight ticket is furnished shall be considered a lost sample load with a weight equal to the weight of the heaviest load presented during the billing period, as established by the Forest Service, C6.851.

**\*\*NOTICE - SPECIAL PROVISION C6.851 -WEIGHT OF LOST LOADS (06/13) IS A NEW PROVISION THAT IS PART OF THIS CONTRACT. PROSPECTIVE BIDDERS ARE ENCOURAGED TO READ THE PROVISION PRIOR TO SUBMITTING A BID FORM.**

### Others

Haul restrictions typically listed in C6.315# - Sale Operations Schedule, have been relocated to C5.12# - Use of Roads.

Seasonal restrictions apply. See contract for details.

Equipment cleaning is required before entering the sale area.



SALE VOLUME SUMMARY  
**Volume Summaries By Unit**

Sale Name: **Horn Thin**

TIM Conversion			0.3365	0.1664	
Unit No.	Acres	TONS	CCF	MBF	% Sale Volume
164	24	2371	798	395	5
165	108	10671	3591	1776	24
166	33	3260	1097	542	7
180	185	18278	6151	3041	41
184	43	4248	1429	707	10
208	22	2174	732	362	5
209	34	3359	1130	559	8
<b>TOTAL</b>	<b>449</b>	<b>44361</b>	<b>14927</b>	<b>7382</b>	<b>100</b>

VOLUME TONS by Species					
Unit	Douglas-fir	Red Alder	Sitka Spruce	Western Hemlock	Total Tons
164	1787	48	473	63	2371
165	8043	217	2127	284	10671
166	2458	65	650	87	3260
180	13778	371	3643	486	18278
184	3203	86	846	113	4248
208	1639	44	433	58	2174
209	2532	68	670	89	3359
<b>TOTAL</b>	<b>33440</b>	<b>899</b>	<b>8842</b>	<b>1180</b>	<b>44361</b>
<b>% Sale Volume</b>	<b>75</b>	<b>2</b>	<b>20</b>	<b>3</b>	<b>100</b>

**PRODUCT QUALITY ADJUSTMENT - OREGON WESTSIDE**

Use with Appraisal Update #07-13

Sale Name: Horn Thin

Date: 09-Aug-13 (mm/dd/yy)

Species Group #1	Minimum Dia - dib	Representative Grade*	Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
205	5.0" - 7.99"	#4 sawmill	601.00	1,127	2,463	275.00	-55.72
	8.0"-11.99"	#3 sawmill	655.00	2,462	4,876	330.72	0.00
	12.0"-17.99"	#2 sawmill	664.00	1,776	3,096	380.90	50.18
	18.0" - 30.0"	special mill	841.00	207	850	204.81	-125.92

\$/ton Avg	Avg lb per cf	Volume CCF
25.00		

BPP for chips = 0.00 /ccf

(insert as override on TEA input screen

under BPP/CCF for products 08 and 20)

**Weighted average Product Quality Adjustment (PQA) for Species Group #1 = -7.88 /ccf**

**Weighted average delivered log price for Species Group #1 = 322.84 /ccf** (enter on TEA input screen as Log Pr/CCF)

Species Group #2	Minimum Dia - dib	Representative Grade*	Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
263,264,108 true firs spruces	5.0" - 7.99"	#4 sawmill	472.00	345	850	191.58	-65.13
	8.0"-11.99"	#3 sawmill	532.00	594	1,231	256.71	0.00
	12.0"-17.99"	#2 sawmill	532.00	717	1,235	308.86	52.15
	18.0" - 24.0"	special mill	532.00				

**Weighted average Product Quality Adjustment (PQA) for Species Group #2 = 2.73 /ccf**

**Weighted average delivered log price for Species Group #2 = 259.44 /ccf** (enter on TEA input screen as Log Pr/CCF)

Species Group #3	Minimum Dia - dib	Representative Grade*	Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
242	< 12.0"	#4 sawmill	camprun				
	12.0"-23.99"	#3 sawmill	813.00			422.76	0.00
	24.0"+	#2 sawmill	0.00				

**Weighted average Product Quality Adjustment (PQA) for Species Group #3 = 0.00 /ccf**

**Weighted average delivered log price for Species Group #3 = 0.00 /ccf** (enter on TEA input screen as Log Pr/CCF)

Species Group #4	Minimum Dia - dib		Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
350 Red Alder	5.0"-9.99"	If this table is used, → entry needed here	543.00	154	325	257.30	0.00

**Weighted average Product Quality Adjustment (PQA) for Species Group #4 = 0.00 /ccf**

**Weighted average delivered log price for Species Group #4 = 257.30 /ccf** (enter on TEA input screen as Log Pr/CCF)

Species Group #5	Minimum Dia - dib		Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
		If this table is used, → entry needed here				0.00	

**Weighted average Product Quality Adjustment (PQA) for Species Group #5 = 0.00 /ccf**

**Weighted average delivered log price for Species Group #5 = 0.00 /ccf** (enter on TEA input screen as Log Pr/CCF)

Species Group #6	Minimum Dia - dib		Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
		If this table is used, → entry needed here				0.00	

**Weighted average Product Quality Adjustment (PQA) for Species Group #6 = 0.00 /ccf**

**Weighted average delivered log price for Species Group #6 = 0.00 /ccf** (enter on TEA input screen as Log Pr/CCF)

\* Industry grade used to associate minimum dib and delivered log price. Volume comprises mostly the representative grade, but also may include material of other grades.

**PRODUCT QUALITY ADJUSTMENT**  
**Combining Species into Appraisal Groups**  
**Determining Weighted Average Delivered Log Price for the Sale**  
 Use with Appraisal Update #07-13

Sale Name: Horn Thin

Date: 09-Aug-13

**Combining Species into Appraisal Groups (for entry into the TEA input screen)**

<i>Type a "1" into desired cells to combine species into an appraisal group</i>								
Geographic Area	Species Group #1	Species Group #2	Species Group #3	Species Group #4	Species Group #5	Species Group #6	Combined Prod Qual Adj	Combined Del Log Price
Ore West	1	1		1			-5.35	307.33
Ore East								
Wash West								
Wash East								

**Determining Weighted Average Delivered Log Price for the Sale (for use in analyzing advertised rates)**

<i>Type a "1" into all cells with volume</i>							
Geographic Area	Species Group #1	Species Group #2	Species Group #3	Species Group #4	Species Group #5	Species Group #6	Wt Avg Delivered Log Price for the Sale
Ore West	1	1		1			307.33
Ore East							
Wash West							
Wash East							

Enter the Combined Product Quality Adjustment on the TEA input screen under PQA/CCF for the main species in the appraisal group. Enter the Del Log Price under Log Pr/CCF on the TEA input screen for the main species in the appraisal group. Use the weighted average delivered log price for the sales to analyze advertised rates, per R6 FSH 2409.22 Appraisal Handbook. **Refer to the PQA User Guide for more information on the calculation and use of delivered log prices.**

**\*\* Click the "Erase" button above to delete all species combination data \*\***  
**\*\* Press the "Delete" key in appropriate cell to erase individual cell input \*\***

**Appraisal Reminder - When combining species, a weighted average Base Period Price needs to be calculated. Use the table below to calculate a weighted average BPP for the appraisal group.**

**The Erase Data button erases Forest number, Salvage, and Species Code and Species Volume (CCF) in the table.**

Forest number = 12  
 Salvage?? = 1 (1=no, 2=yes)  
 Appraisal zone = 5

**Appraisal Update #07-13**

**teacost.dat file (TEA 07-13)**

The Appraisal Update # and teacost.dat file date **MUST BE THE SAME** in calculating a weighted

**Species BPP Weighting Table**

Species Code	Species Vol (CCF)	BPP from TEACOST.DAT
205	11,285.00	56.64
350	325.00	27.20
98	2,937.00	42.34
263	380.00	42.34
Total or Avg	14,927.00	52.82

**MBF Volume Table**

Species Code	Species Vol (MBF)
205	5,572.00
350	154.00
98	1,449.00
263	207.00
Total	7,382.00

Enter MBF volume from Species Group

## **Engineering Notes for Horn Thin 8/23/2013**

### A. Haul route roads:

The haul routes for this sale are on National Forest System (NFS) roads. Log haul will travel on NFS roads listed in Table 1.1 to Hwy 101 then east on Hwy 22 to Hwy 18 to the appraisal point of Willamina, Oregon.

All roads used in this sale are non-key roads and all temporary roads used in this sale are non-system. Maintenance on this sale is purchaser responsibility. Brushing, spot rock and blading is included for TIL-880 (Farmer Creek Road) under a Schedule A maintenance agreement with Tillamook County.

NFS road beginning and ending termini are detailed in table 1.1

Table 1.1

<b>Road No.</b>	<b>Miles</b>	<b>Beginning Milepost</b>	<b>Ending Termini/Milepost</b>
1023	2.00	1024	Unit 164 Ldg A
1024	2.45	Jct TIL-880/1024	Jct 1024-114
1024-112	1.10	Jct 1024	Unit 165 Ldg KK
1024-113	0.44	1024 MP 1.60	Unit 184 Ldg R
1024-114	0.64	1024 MP 2.45	MP 0.64

The remaining portions of roads listed in Table 1.1 are not planned for use under this contract. Spot rock for NFS roads is included and appraised for.

### B. System and temporary roads –season of haul, road protection and truck assist.

See logging feasibility report (LFR) for details.

In general, all system roads are appraised for rock re-surfacing or spot rocking.

Truck assist is not appraised for.

### C. Unit Notes:

Unit 164: Roadside landings on the 1023.

Unit 165: Unit in 3 pieces on the 1024 and 1024-112. Short spur at end of -112 and two short spurs to reach breaks in unit. Spur on 1024 to landings R-V has waste at junction, approach can be moved to around landings K or L to avoid mounded waste.

Unit 166: Roadside landings on the 1023

## Engineering Notes for Horn Thin 8/23/2013

Unit 180: Most spurs are adverse haul to 1023. Area between landings S and T may require minor reconstruction to achieve a safe road width and allow for drainage from two seeps in the cutbank. 20 CY of pit run, additional dump truck and excavator time is included in the appraisal under miscellaneous maintenance. Truck turn around available at spur to landings L-T.

Unit 184: Spur to northeast of unit has waste at entrance which may be ramped over. Additional dozer time is included in appraisal.

Unit 208: Roadside landings on 1024 with short adverse spur to landing G.

Unit 209: Landings located along road 1024-114. Two spurs to break.

D. Pre and post sale operational status for the system roads:

Road #	Presale status	Post sale planned status	Waterbars/berms
1023	Non-Key, open	Non-Key, open	Type 1 / Berm
1024	Non-Key, open	Non-Key, open	Type 2 / None
1024-112	Non-Key, open	Non-Key, Closed	Type 1/ Berm
1024-113	Non-Key, open	Non-Key, Closed	Type 1 / Berm
1024-114	Non-Key, open	Non-Key, open	Type 1 / Berm

E. Log Haul Operating season and Haul routes.

Unit Number	Planned Haul Route	Engineering Log Haul Operating season *
164	1023 to 1024 to TIL-880 to Hwy 101 to Hwy 22 to Hwy 18 to Willamina	All season
165	1024-112 to 1024 to TIL-880 to Hwy 101 to Hwy 22 to Hwy 18 to Willamina	All season system roads. Dry season 1024-112 and temp spurs
166	1023 to 1024 to TIL-880 to Hwy 101 to Hwy 22 to Hwy 18 to Willamina	All season
180	1023 to 1024 to TIL-880 to Hwy 101 to Hwy 22 to Hwy 18 to Willamina	All season system roads. Dry season temp spurs
184	1024-113 to 1024 to TIL-880 to Hwy 101 to Hwy 22 to Hwy 18 to Willamina	Dry season
208	1024 to TIL-880 to Hwy 101 to Hwy 22 to Hwy 18 to Willamina	All season system roads. Dry season temp spurs
209	1024-114 to 1024 to TIL-880 to Hwy 101 to Hwy 22 to Hwy 18 to Willamina	All season system roads. Dry season temp spurs

\* Dry season is June 15 – October 15

Rob Sanders  
Engineer  
Siuslaw National Forest

Sale Name: HornThin

Spot Rock Replacement Cost Worksheet

Road No.	Miles	cuyd of rock/mi	waterbars	Total cuyd rock/road	\$/cuyd	Total
1023	2.00	150	22	300	\$40.00	\$12,000.00
1024	2.45	150	37	370	\$40.00	\$14,800.00
1024112	1.10	50	28	60	\$40.00	\$2,400.00
1024113	0.44	50	15	30	\$40.00	\$1,200.00
1024114	0.64	100	15	70	\$40.00	\$2,800.00
TIL-880	2.30	50		120	\$40.00	\$4,800.00
Waterbars***			117			
		3 cy/waterbar		360	\$40.00	\$14,400.00
Totals	6.93			1,310		\$52,400.00

\*\*\* Waterbar rock for filling in or over bladed out waterbars, grading Q

**ROAD MAINTENANCE WORKSHEET**

Sale Name:	<b>HornThin</b>		14,927	CCF Volume	1.27	% OH
			44,361	Tons		
				Purchaser	Co-op	
	Termini			CCF	Work	Deposits
Road	From	To	Miles	Volume	0.87	0.87
1024-114	Unit 209	Jct 1024/1024-114	0.45	1,130.3	0.87	U209
1024	Jct 1024/1024-114	Jct 1023/1024	0.75	1,130.3	0.87	
1024	Unit 208	Jct 1023/1024	0.18	731.6	0.87	
1023	Unit 164	Jct 1023/1024	2.00	797.8	0.87	
1023	Unit 166	Jct 1023/1024	1.70	1,097.0	0.87	
1023	Unit 180 west half	Jct 1023/1024	1.50	3,690.3	0.87	60% of 180
1023	Unit 180 east half	Jct 1023/1024	1.00	2,460.2	0.87	40% of 180
1024	Jct 1023/1024	Jct 1024/TIL880	1.72	9,907.2	0.87	
1024113	Unit 184	Jct 1024113/1024	0.18	1,143.6	0.87	
1024	Spur from 184	Jct 1024/TIL880	1.12	285.9	0.87	20% of 184
1024	Jct 1024113/1024	Jct 1024/TIL880	1.46	1,143.6	0.87	80% of 184
1024112	Unit 165 east half	Jct 1024112/1024	0.81	2,154.5	0.87	60% of 165
1024	Jct 1024112/1024	Jct 1024/TIL880	1.21	2,154.5	0.87	
1024	Unit 165 west half	Jct 1024/TIL880	0.68	1,436.3	0.87	
TIL-880	Jct 1024/TIL-880	Hwy 101	2.30	14,927.48	0.57	
	Hwy 101	Hwy 22	2.00	14,927.5		
	Hwy 22	Hwy 18	24.90	14,927.5		
	Hwy 18	Hampton, Willamina	6.60	14,927.5		
			50.56			
		Total \$	\$/CCF	\$/Ton		38.31 Weighted Miles
	Purchaser Maint	66,297.64	4.44	1.49		
	Misc Maint. (see Eng. Notes)	3,385.66	0.23	0.08		
	Spot Rock (see worksheet)	52,400.00	3.51	1.18		
	Co-op Deposits	0.00	0.00	0.00		
	Totals	122,083.30	8.18	2.75		

**Temporary Road and Landing Cost Worksheet**

Sale Name: **HornThin** 14,927 CCF volume

Temporary Roads						Landings			
Unit No. or temp road identifier	Length (Feet)	Cost for Re-open or New	Rock (cuyd)	Rock Cost \$/cuyd	Total Road Cost	Landing Costs	Rock (cuyd)	Rock Cost \$/cuyd	Total Landing Cost
164						\$600.00			
165	1,082	\$2,705	40	\$40.00	\$4,305.00	\$2,250.00		\$40.00	\$2,250.00
166				\$40.00	\$0.00	\$600.00		\$40.00	\$600.00
180	2,617	\$6,543	70	\$40.00	\$9,342.50	\$3,750		\$40.00	\$3,750.00
184	1,640	\$3,280	30	\$40.00	\$4,480.00	\$900		\$40.00	\$900.00
208	697	\$1,743	20	\$40.00	\$2,542.50	\$450		\$40.00	\$450.00
209	1,168	\$2,336	20	\$40.00	\$3,136.00	\$900		\$40.00	\$900.00
	7,204	\$16,606	180		\$23,806.00	\$8,850	0		\$8,850
1.36	miles			Costs per CCF:	\$1.59			Costs per CCF:	\$0.59

# Logging Cost Summary - Estimated Stump To Truck Cost

## Summary By Sale And Logging System

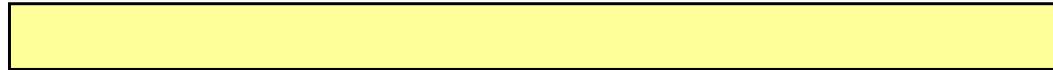
Logging System	Vol Type	Total Volume	Stump-truck \$/vol	Estimated Seasons
Skyline	ccf	12,539	141.20	4
Mechanized		0	0.00	0
Tractor	ccf	2,388	83.47	2
Shovel		0	0.00	0
Helicopter (1)		0	0.00	0
<b>Sale-as-a-whole</b>		<b>14,927</b>	<b>131.96</b>	

ovhd=6.18/ccf or 11.89/mbf, p&r=2% of costs included (except helicopter)

includes biomass:

\$/saw timber

Est biomass cost		Estimated total number <u>operating</u> days for sale	335
Include biomass in sale-as-a-whole?	<input type="checkbox"/>	Variable shutdown cost (all systems, if any) \$/vol	
		Include variable shutdown in sale-as-a-whole?	<input type="checkbox"/>



Include Chipper?

Hours Used

Haul-\$'s

Select helicopter alternative

**Helicopter (1)**

Sale: Horn Thin  
Date: 8/9/13

**LOGCOST Version 12.01**

Report summary  
table above in tons



# HAUL COST APPRAISAL - APPRAISAL SUMMARY

Version 7.2, XL 2007 12/1/2009b

Sale name: Horn Thin

Geo. area: OR

Date: 16-Aug-13

Cost type	Average trip rtm's	CCF per load	Tot rtm's per day	Total OT rtm's	CCF vol per day	Gross cost per day	Net cost per day	Net cost per ccf	Net \$/ccf w/inflation
<i>w/o scale</i>	185.0	8.0	582.0	102.0	25.17	\$481.01	\$481.01	\$19.11	19.88
<i>with scale</i>									



Include scale cost in final haul cost

*no scaling selected on DATA INPUT screen*

Total haul cost, \$/ccf = **\$19.88**

*Sale or Haul Narrative*

120 minutes

Volume Type...  
CCF



## Detailed listing of Brush Disposal Activities (Working Copy)

<b>(1) Proclaimed Forest</b> Siuslaw		<b>(2) District/Unit</b> Hebo								
<b>(3) Sale Name</b> HORN THIN(13102)		<b>(4) Award Date</b>								
<b>(5) Compartment Or GIS Reference</b>		<b>(6) Type of Plan</b> <input checked="" type="checkbox"/> Original <input checked="" type="checkbox"/> Final <input type="checkbox"/> Revision #								
<b>(7) Purchaser</b>		<b>(8) Contract</b>								
<b>(9) List of Activity Fuels Treatment Projects</b>		<b>Local Qualifier</b>	<b>(10) Work Activity</b>	<b>(11) Unit of Work</b>	<b>(12) Cost Per Unit</b>	<b>(13) Projects by Fund Code</b>			<b>(14) BD Funded Projects</b>	
<b>a) Subunit</b>	<b>b) Activity</b>					<b>a) Fund Code</b>	<b>b) No. of Units</b>	<b>c) Total Cost</b>	<b>a) No. of Units</b>	<b>b) Total Cost</b>
061201BD13102000000	1100 Fuel Inventory	N/A	HF	Acres	\$7.14	BDBD	449.0	\$3,206	449.0	\$3,206
061201BD13102000000	1130 Burning of Piled Material	N/A	HF	Acres	\$21.97	BDBD	449.0	\$9,865	449.0	\$9,865
<b>Subtotal for Fund Code BDBD</b>								\$13,071		
061201BD13102000000	1153 Piling of Fuels, Hand or Machine	N/A	HF	Acres	\$4.83	PPPP	449.0	\$2,169		
<b>Subtotal for Fund Code PPPP</b>								\$2,169		
<b>15. Total BD work funded</b>										<b>\$13,071</b>
<b>16. National Program Support</b>										<b>\$4,810</b>
<b>17. Total Cost of Funded Work (Sum of line 15 and 16)(Required Bid Deposit Amount)</b>										<b>\$17,881</b>
<b>18. Remarks:</b> Forest Collection Rate: Assessment included in unit cost National Collection Rate for Program Support: 36.8% Inflation Rate: 2% Rate Remarks: Regional Direction FY10 PPPP does not include the Forest Collection Rate or National Collection Rate for Program Support.										

Horn Thin BD Appraisal Narrative  
 NEPA: North Nestucca (27124)  
 Sale #: 13102  
 Preparer: Chris Waverek

FACTS Activity Code	FACTS Description	Actual Activity (as performed on the ground)	Planned Units in FACTS (acres)	Planned Unit on the ground
1100 (Agency)	Fuel Inventory	Fuels assessment, monitoring, writing burn plans.	449	449 acres
1130 (Agency)	Burning of Piled Material	Burning of machine piles on landings. Pile totals are calculated by assuming one pile per landing on open roads.	449	Burn 62 piles
1153 (Purchaser)	Piling of Fuels, Hand or Machine	Covering the piles with a 10X10 piece of plastic.	449	Cover 62 piles
1150 (Purchaser)	Rearrangement of Fuels	Roadside treatments which include: burning of piles, chipping, mastication or scattering.	0	0 acres

**Required Activities Per Unit-**

**Unit 164:**

Piles-

- Pile, cover and burn 4 landings on FSR 1023000 as identified on logging systems map.
- Scatter landing slash not identified for piling to a height no greater than 1 foot from forest floor or road/landing surface.

Roadside-

- N/A

Wildland Urban Interface-

- N/A

**Unit 165:**

Piles-

- Pile, cover and burn 4 landings on FSR 1024000 and temp road extension as identified on logging systems map.
- Pile, cover and burn 4 landings on FSR 1024112 and temp road extension as identified on logging systems map.
- Scatter landing slash not identified for piling to a height no greater than 1 foot from forest floor or road/landing surface.

Roadside-

- N/A

Wildland Urban Interface-

- N/A

**Unit 166:**

## Piles-

- Pile, cover and burn 4 landings on FSR 1023000 and temp road extension as identified on logging systems map.
- Scatter landing slash not identified for piling to a height no greater than 1 foot from forest floor or road/landing surface.

## Roadside-

- N/A

## Wildland Urban Interface-

- N/A

**Unit 180:**

## Piles-

- Pile, cover and burn 29 landings on FSR 1023000 and landings on temp roads as identified on logging systems map.
- Scatter landing slash not identified for piling to a height no greater than 1 foot from forest floor or road/landing surface.

## Roadside-

- N/A

## Wildland Urban Interface-

- N/A

**Unit 184:**

## Piles-

- Pile, cover and burn 7 landings FSR 1024113 and on temp roads as identified on logging systems map.
- Scatter landing slash not identified for piling to a height no greater than 1 foot from forest floor or road/landing surface.

## Roadside-

- N/A

## Wildland Urban Interface-

- N/A

## Unit 208:

### Piles-

- Pile, cover and burn 3 landings on FSR 1024000 and temp roads as identified on logging systems map.
- Scatter landing slash not identified for piling to a height no greater than 1 foot from forest floor or road/landing surface.

### Roadside-

- N/A

### Wildland Urban Interface-

- N/A

## Unit 209:

### Piles-

- Pile, cover and burn 4 landings on FSR 1024114 and temp roads as identified on logging systems map.
- Pile, cover and burn 3 landings on FSR 1024115 and temp roads as identified on logging systems map.
- Scatter landing slash not identified for piling to a height no greater than 1 foot from forest floor or road/landing surface.

### Roadside-

- N/A

### Wildland Urban Interface-

- N/A

\*All accomplishment reporting in FACTS is in acres. The dollar amount for treating the unit is calculated by determining the per pile dollar amount and multiplying that amount by number of piles. The total dollar amount is then divided by total acreage to get a dollar per acre figure.

**For Example:** It is estimated in Horn Thin that there will be 62 landing piles to burn. The cost per pile for this sale is \$150 which is multiplied by 62 piles= \$9300 total to burn the estimated number of piles. Dollar per acre is calculated by: \$9300 total pile burning cost /449 total acres=\$20.71/acre

## EROSION CONTROL PLAN AND APPRAISAL

Forest: **Siuslaw**

District: **Hebo**

Sale Name: **Horn Thin**

CCF Volume: **14,927**

miles of temp.road: **1.36**

Work will be done by purchaser.

WORK ITEM	Unit of Measure	Number of Units	Cost per Unit (\$)	Total (\$)
(1) PERMANENT ROAD STABILIZATION				
a. Seed				
(2) TEMP. ROADS (put to bed)				
a. Remove culverts/bridges				
b. Outsloping				
c. Cross ditching	each	72	\$10.00	\$720.00
d. Scarifying				
e. Barriers	each	4	\$150.00	\$600.00
f. Seed	acres	1.3	\$425.60	\$553.28
(3) SKIDROADS & TRAILS				
a. Remove culverts/bridges				
b. Waterbars & cross drains	each	6	\$10.00	\$60.00
c. Brush dams				
d. Seed	acres	1.9	\$425.60	\$808.65
(4) FIRELINE STABILIZATION				
a. waterbars & cross drains	each	0		
b. Seed	acres	0		
(5) LANDING				
a. Drainage ditches	each	104	\$10.00	\$1,040.00
b. Scarifying				
c. Cut & fill stabilization				
d. Seed	acres	1	\$425.60	\$425.60
(6) DISTURBED MEADOWS				
a. Land treatment				
b. Seed				
(7) CHANNEL CLEARING				
a. By hand				
b. By machine				
(8) MAINTAIN EROSION STRUCTURES				
(9) OTHER (specify)				
a.				
b.				
c.				
(10) TOTAL COSTS				\$4,207.53
(11) Cost per CCF for Appraisal				\$0.28