

TIMBER SALE APPRAISAL

Siuslaw National Forest

Hebo Ranger District

Hebo Heli Thin (DxP)

(Sale Name)

15101

(SALE Number)

South Nestucca
Restoration Project EA

(EA/EIS/CE)

Hebo Heli Thin (DxP) NARRATIVE

Description of Sale Area

This sale consists of 15 commercial thinning subdivisions totaling 291 acres and will be sold as a ton sale and scaled 100% weight. There is an estimated 37,512 tons (12,694 ccf or 7,300 mbf) in this sale.

General Location

This sale is approximately 10 miles southeast of Hebo, Oregon along Forest Service Roads 1400 and 2282 and is in the Three Rivers watershed.

Routes of Access

Sale is appraised to Willamina, Oregon via Highways 22 and 18, and National Forest System roads 1491, 1410, 1431, 1400, 1424, 1428, 2210, 2282, 2234, 2214, and their tributaries.

Relation to Other Sales

Huck Thin STWD, South Lake Thin STWD, and 1432 Thin are nearby contracts that will have shared haul routes.

Marking

Subdivision boundaries are flagged with blue ribbon and tagged with blue boundary tags, except along system roads. Boundary trees are marked with orange tracer paint. All subdivisions are Designation by Prescription (DxP). Subdivisions 45Bc and 45Bha contain one acre demonstration plots. Subdivisions 37B, 37Bh, 43, 45A, 45Bh, 55h, 57, 60A and 60B contain ½ acre and 1 acre gaps. Gap centers are marked with blue tracer paint.

Logging

This sale is appraised for 55% helicopter logging, 39% skyline yarding and 6% 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 1.5 miles of temporary roads and 53 landings are planned. Rock will be needed for temporary roads at the approach to all season system roads. 250 cubic yards of rock was appraised for temporary roads and 210 cubic yards of rock was appraised for landings.

Road Maintenance

Purchaser will be responsible for prehaul, routine, seasonal, and post haul maintenance on system roads. 2,308 cubic yards of spot rock will be needed on system roads. Specific requirements to prevent the spread of invasive species are included in the road maintenance specifications.

Specified Road Reconstruction

There is no specified reconstruction.

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 collection and propagation of seed for use on future contracts. Seed will be provided by the Forest Service for use on this sale.

Slash Disposal

Purchaser will be required to machine pile and cover landing slash at all landings. Purchaser shall treat logging slash in subdivisions 37B, 37Bh, 55, and 57 within 25 feet of Forest Roads 1400 and 2234. Forest Service will burn piles.

Scaling

This sale will be scaled 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.

Others

Felling of included timber shall be completed by January 1, 2017 in subdivisions 45Ac, 45Bc, and 55.

Transport and support vehicles using diesel or gasoline shall be refueled at landings or service areas located at least 150 feet away from stream channels.

Seasonal restrictions apply. See contract for details.

Equipment cleaning is required before entering the sale area.

No logging activity may fall within the Roadless Area located to the north of Forest Service Road 1400.

To minimize the risk of attracting predators to activity areas, all garbage (especially food products) shall be contained or removed daily from the vicinity of any activity.

There is a locked gate on FS road 1431111, which accesses subdivisions 45A and 45Ac. Contact Forest Service for road access.

SALE VOLUME SUMMARY
Volume Summaries By Unit

Sale Name: Hebo Heli Thin (DxP)

TIM Conversion			0.3384	0.1946	
Subdivision Number	Acres	TONS	CCF	MBF	TON Vol/Ac*
37B	29	4346	1471	846	168
37Bh	5	1176	398	229	216
43	9	2117	716	412	224
45A	26	6115	2069	1190	245
45Ac	18	2698	913	525	124
45Bc	22	2848	964	554	83
45Bh	19	1302	441	253	168
45Bha	17	2548	862	496	112
55	51	3018	1021	587	52
55h	18	4233	1432	824	209
60A	35	2071	701	403	43
60B	8	414	140	81	82
60C	3	706	239	137	294
57	8	473	160	92	65
74	23	3447	1166	671	165
TOTAL	291	37512	12694	7300	129

*The final estimated volumes for this sale are based on a three strata cruise, therefore subdivision volumes represent the strata average.

The TON Vol/Ac column is provided as an aid to estimating the individual subdivision volume per acre, but does not represent the overall sale volume.

USDA - FOREST SERVICE
Stewardship: N

REPORT OF TIMBER SALE
APPRAISAL SUMMARY CCF

R6-FS-2400-17 (04/10)
Version 1521 (TEA 04-15)

Final Run

Region: 06
Forest: 12 Siuslaw
District: 01 Hebo
Salvage: N

Sale Name: Hebo Heli Thin (DxP)
Sale Number: 15101
Appraise to: Willamina, Oregon
Appraiser: t devenport

Appraisal Date: 05/04/15
Base Period Ending: 03/31/15
Competition Factor: 10%
Essential KV Cost: 0

SELLING PRICES	1	2	3	4	5	6	7	Average	Total
1. Species	D-fir	W Hem							
2. Species Code	205	263							
3. Product/Unit	01-03	01-03							
4. Volume	12,599	94							12,693
5. Base Period Price	75.02	41.60						74.77	
6. Base Period Index	182.54	164.27						182.40	
7. Current Index	182.54	164.27						182.40	
8. Rapid Market Adj									
9. Market Adj BP Price	75.02	41.60						74.77	
10. Unusual Adjustment	-34.17	-34.17						-34.17	
11. GBCv-Nonsaw Adj									
12. Product Quality Adj	15.00	-8.84						14.82	
13. Adj Base Period Price	55.85	-1.41						55.43	703,521.61

COSTS	Zone Avg Cost/UM	Est Sale Cost/UM	Adj to BP Cost	ROADS	Km	Miles	Cost
14. Stump to Truck	152.01	219.07	-67.06	Specified Road Con			
15. Haul/Scale	31.96	27.41	4.55	Specified Road Rec			
16. Road Maintenance	8.97	15.21	-6.24	Temporary Road Con	2.42	1.50	22,403
17. Contract	16.28	1.58	14.70	Haul Miles		28	
18. Development & Other	3.84	1.76	2.08				
19. Road Const & Recon							
20. Total (lines 14-19)	213.06	265.03	-51.97	DEPOSITS:	Br Disp/UM .97	Rd Mtc/UM .28	C(T)5.213#

ADVERTISED RATES	1	2	3	4	5	6	7	Average	Total
21. Predicted Bid Rate	3.88	-53.38						3.46	43,866.40
22. Competition Adjustment	.39	-5.34						.35	4,411.65
23. Property Value									
24. Indicated Adv Rate	3.49	-48.04						3.11	39,454.75
25. Base Rate	3.00	3.00						3.00	38,079.00
26. Adjustment	-.38	51.04							10.14
27. Advertised Rate	3.11	3.00						3.11	39,464.89

\$1.05/ton
\$1.02/ton
\$1.05/ton

CCF to MBF Rate Factors: 1.7359 2.2927 1.7390
 CCF to MBF Volume Factors: .5761 .4362 .5750
 MBF to CCF Index Factors: .52 .52
 CCF Base Index for A(T)5a:
 CCF Wtd Avg Del Log Price: 382.26 229.85
 MBF Volume: 7,258 41 7,299
 Total Tons Removed: 37,220 292 37,512
 Net CCF to Tons Conversion Factor for C8.3#(Option 1) or K-I.3.1#: 2.9553 DEPOSITS/Ton BD: 0.33 RM: 0.09 EC: 0.02

PRODUCT QUALITY ADJUSTMENT - OREGON WESTSIDE

Use with Appraisal Update #4-15

Sale Name: Hebo Heli Thin (DxP)

Date: 30-Apr-15 (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	594.00	456	1,073	252.44	-67.13
	8.0"-11.99"	#3 sawmill	646.00	1,582	3,198	319.57	0.00
	12.0"-17.99"	#2 sawmill	668.00	3,822	6,316	404.23	84.66
	18.0" - 30.0"	special mill	694.00	1,398	2,012	482.21	162.65

\$/ton Avg	Avg lb per cf	Volume CCF
29.00		

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 = 15.00 /ccf

Weighted average delivered log price for Species Group #1 = 382.26 /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	506.00	21	48	221.38	-17.32
	8.0"-11.99"	#3 sawmill	549.00	20	46	238.70	0.00
	12.0"-17.99"	#2 sawmill	569.00				
	18.0" - 24.0"	special mill	569.00				

Weighted average Product Quality Adjustment (PQA) for Species Group #2 = -8.84 /ccf

Weighted average delivered log price for Species Group #2 = 229.85 /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	998.00			518.96	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
		If this table is used, → entry needed here				0.00	

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

Weighted average delivered log price for Species Group #4 = 0.00 /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 #4-15

Sale Name: Hebo Heli Thin (DxP)

Date: 30-Apr-15

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

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

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

Geographic Area	<i>Type a "1" into all cells with volume</i>						Wt Avg Delivered Log Price for the Sale
	Species Group #1	Species Group #2	Species Group #3	Species Group #4	Species Group #5	Species Group #6	
Ore West	1	1					381.14
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 =
 Salvage?? = (1=no, 2=yes)
 Appraisal zone =

Appraisal Update #4-15

teacost.dat file (TEA 04-15)

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
Total or Avg	0.00	0.00

MBF Volume Table

Species Code	Species Vol (MBF)
Total	0.00

Enter MBF volume from Species Group

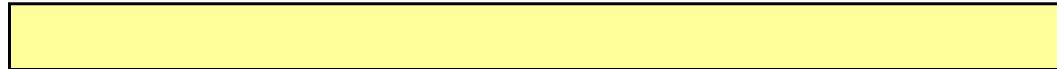
Logging Cost Summary - Estimated Stump To Truck Cost Results

Summary By Logging System and Sale

Logging System	Vol Type	Total Volume	Stump-truck \$/vol	Estimated Seasons
Skyline	ccf	4,913	114.43	3
Mechanized				
<i>Mech biomass</i>				
Tractor	ccf	783	98.76	3
Shovel				
Helicopter (1)	ccf	6,998	305.99	3
Sale-as-a-whole		12,694	219.07	← sawtimber basis

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

Bio stump-truck \$		Estimated total number <u>operating</u> days for sale	136
Include bio stump-truck in mech sys?		Variable shutdown cost (all systems, if any) \$/vol	56.26
		Include variable shutdown in system costs?	Yes
Biomass haul cost			



Include Chipper?

Hours Used

Haul-\$'s

Select helicopter alternative **Helicopter (1)**

Sale: **Hebo Heli (DxP)**

Date: **4/9/15**

LogCost ver **15.0**

2/4/2015

Report summary table above in tons?



TRUCKING APPRAISAL - APPRAISAL SUMMARY

HaulCost ver 15.0

Sale name: Hebo Heli Thin (DxP)

Geo. area: OR

Date: 13-Apr-15

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>									
with scale	205.0	8.0	582.0	102.0	22.71	568.77	598.71	26.36	27.41

<<Scaling cost is included in the total haul cost below>>

years inflation = 1.0

Include scale cost in final haul cost

Yes

Total haul cost, \$/ccf = **\$27.41**

120 minutes

Volume Type...
CCF

Sale or Haul Narrative

[Empty yellow box for narrative]

Scale total cost: **\$97.21**

**Engineering Notes for
Hebo Heli Thin (DxP)
5/4/2015**

A. Haul route roads:

The haul routes for this sale are on National Forest System (NFS) roads and State highways. Log haul will travel generally west and south on NFS roads listed in Table 1.1 to Highway 22 then east on Highway 22 to Highway 18 then the appraisal point of Willamina, Oregon.

Maintenance on this sale is purchaser responsibility. Deposits will be collected for the paved portion of the 1400 road.

At purchaser's expense, the Little Hebo Quarry along the 2234 road is available for development as a materials source with Forest Service approval.

NFS road beginning and ending termini are detailed in Table 1.1

Table 1.1

Road No.	Miles	Beginning Milepost	Ending Termini/Milepost	Key/Non-Key
1400 seg 1	7.37	Hwy 22	1400113	Key
1400 seg 2	1.00	Jct1400/1428	Unit 37	Key
1400113	0.17	1400	Unit O45 landings	Non-key
1410	0.40	1491	1431	Non-key
1424	2.69	1400	MP 2.69	Non-key
1424111	0.50	1424	O45/O60 Landing	Non-key
1424112	0.30	1424	O45/O60 Landing	Non-key
1428	1.09	1400	2210	Key
1431	1.40	1410	O45 Service landing	Non-key
1431111	0.90	1431	1434118	Non-key
1431118	0.66	1431111	O45 Landing	Non-key
1491	3.10	Hwy 22	1410	Key
2210	4.30	1428	2234	Key
2214	2.95	2234	O74 Landings	Non-key
2234	1.09	2282	O57 Spur	Key
2282	5.34	2210	Hwy 22	Both

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 except for roads which are paved.

Truck assist is not appraised for.

**Engineering Notes for
Hebo Heli Thin (DxP)
5/4/2015**

C. Unit Notes:

All Helicopter and Skyline landings are appraised for all season use.

Unit 37: Mostly roadside with large landing at end of spur which is suitable for ship service or logs. Trucks may have to back uphill to landings located along the 1400 road from the turnout at North Lake, approximately 1500'.

Unit O43: Flies to same landings as O60

Unit O45: Roadside landings on 1400-113 (A) and 1431-118 (B). O45A is serviced by landings on the 1431 road system with a potential ship landing at MP 0.95. O45B is serviced by the 1424 and 1400113 roads. 1431111/118 road has few turnouts or areas where two trucks may pass. The skyline portion of unit located along the 1400-113 hauls down the 1400 road to Hwy 22. Road 1400-113 has a short paved approach and has spot rock appraised to ramp at the end of the pavement where there is a short drop. Keep 1400-113 open at all times for access to communications facility.

Unit O55: Mostly roadside along the 2214. Unit scattered along the 2214 and 2234. Helicopter landings located at the quarry.

Unit O57: Smaller unit on a temp road off the 2234. Mostly ground based.

Unit O60: Unit flies to landings located on spurs off of the 1424 and 1428.

Unit O74: Mostly roadside along 2214. 2214 road in the vicinity of landing B has two collapsed areas from stumps in the fill on the outside of the curve widening. Spur to landing D has a short favorable pitch of 20% with good runout to 2214. Spur to landing F is new construction with limited room for decking

**Engineering Notes for
Hebo Heli Thin (DxP)
5/4/2015**

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

Road #	Presale status	Post sale planned status	Waterbars/berms
1400	Key, Open	Key, Open	None / None
1400113	Non-Key, Open	Non-Key, Open	None / None
1410	Non-Key, Open	Non-Key, Open	None / None
1424	Non-Key, Open	Non-Key, Open	None / None
1424111	Non-Key,Closed	Non-Key, Closed	Type 1 / Berm
1424112	Non-Key,Closed	Non-Key, Closed	Type 1 / Berm
1428	Key, Open	Key, Open	None / None
1431	Non-Key, Open	Non-Key, Open	Type 2 / None
1431111	Non-Key, Open	Non-Key, Open	Type 2 / None
1431118	Non-Key, Open	Non-Key, Open	Type 2 / None
1491	Key, Open	Key, Open	None / None
2210	Key, Open	Key, Open	None / None
2214	Non-Key, Open	Non-Key, Open	Type 2 / None
2234	Key, Open	Key, Open	None / None
2282	Key/Non-Key, Open	Key/Non-Key, Open	None / None

E. Log Haul Operating season and Haul routes.

Unit Number	Planned Haul Route	Engineering Log Haul Operating season *
O37	1424 → 1400 → 1428 → 2210 → 2282 → Hwys 22/18 → Willamina	All season
O43	1428 → 2210 → 2282 → Hwys 22/18 → Willamina	All season
O45	Multiple split haul, 1400 → Hwys 22/18 → Willamina 1431111/118 → 1431 → 1410 → 1491 → Hwys 22/18 → Willamina 1424 → 1400 → 1428 → 2210 → 2282 → Hwys 22/18 → Willamina	All season
O55	2214 → 2234 → 2282 → Hwys 22/18 → Willamina	All season
O57	2234 → 2282 → Hwys 22/18 → Willamina	All season system roads, dry season temp
O60	1424 → 1400 → 1428 → 2210 → 2282 → Hwys 22/18 → Willamina	All season
O74	2214 → 2234 → 2282 → Hwys 22/18 → Willamina	All season

* Dry season is June 15 – October 15.

Rob Sanders
Transportation Planner
Siuslaw National Forest

Temporary Road and Landing Cost Worksheet

Sale Name: HeboHeli Thin (DxP)								12,694	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	
37B	750	\$1,500	20	\$34.50	\$2,190.00	\$900	40	\$34.50	\$2,280.00	
O45A				\$34.50	\$0.00	\$1,200	50	\$34.50	\$2,925.00	
O45Bc	500	\$750	40	\$34.50	\$2,130.00	\$300	20	\$34.50	\$990.00	
O45BHa	1,500	\$2,250	100	\$34.50	\$5,700.00	\$900	20	\$34.50	\$1,590.00	Shared with 0
O55	1,200	\$1,800	50	\$34.50	\$3,525.00	\$1,500		\$34.50	\$1,500.00	
O57	675	\$1,350		\$34.50	\$1,350.00	\$300		\$34.50	\$300.00	
O43				\$34.50	\$0.00			\$34.50	\$0.00	
O60A & B	2,485	\$3,728	40	\$34.50	\$5,107.50	\$900		\$34.50	\$900.00	
O74	800	\$2,400		\$34.50	\$2,400.00	\$600	80	\$34.50	\$3,360.00	
	7,910	\$13,778	250		\$22,402.50	\$6,600	210		\$13,845	
1.5										
miles				Costs per CCF:	\$1.76			Costs per CCF:	\$1.09	

Sale Name: HeboHeli Thin (DxP)

Spot Rock Replacement Cost Worksheet

Road No.	Miles	cuyd of rock/mi	Total cuyd rock/road	\$/cuyd	Total
1400 seg 1	7.37		0	\$34.50	\$0.00
1400 seg 2	1.00	25	30	\$34.50	\$1,035.00
1400113	0.17	50	10	\$34.50	\$345.00
1410	0.40	50	20	\$34.50	\$690.00
1424	2.69	50	140	\$34.50	\$4,830.00
1424111	0.50	50	30	\$34.50	\$1,035.00
1424112	0.30	50	20	\$34.50	\$690.00
1428	1.09	100	110	\$34.50	\$3,795.00
1431	1.40	50	70	\$34.50	\$2,415.00
1431111	0.90	100	90	\$34.50	\$3,105.00
1431118	0.66	100	70	\$34.50	\$2,415.00
1491	3.10	50	160	\$34.50	\$5,520.00
2210	4.30	50	220	\$34.50	\$7,590.00
2214	2.95	100	300	\$34.50	\$10,350.00
2234	1.09	25	30	\$34.50	\$1,035.00
2282	5.34	100	540	\$34.50	\$18,630.00
Waterbars***	waterbars	3 cy/waterbar	468	\$34.50	\$16,146.00
	156				
Totals	33.26		2,308		\$79,626.00

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

Detailed listing of Brush Disposal Activities (Working Copy)	(1) Proclaimed Forest Siuslaw	(2) District/Unit Hebo
(3) Sale Name HEBO HELI THIN (DXP)(15101)	(4) Award Date	(5) Compartment Or GIS Reference
(6) Type of Plan <input checked="" type="checkbox"/> Original <input type="checkbox"/> Final <input type="checkbox"/> Revision #	(7) Purchaser	(8) Contract Number

(9) List of Activity Fuels Treatment Projects		Local Qualifier	(10) Work Activity	(11) Unit of Work	(12) Cost Per Unit	(13) Projects by Fund Code			(14) BD Funded Pojects	
a) Subunit	b) Activity					a) Fund Code	b) No. of Units	c) Total Cost	a) No. of Units	b) Total Cost
0612011510100000000	Fuel Inventory	N/A	HF	Acres	\$7.14	BDBD	291.0	\$2,078	291.0	\$2,078
0612011510100000000	Burning of Piled Material	N/A	HF	Acres	\$22.97	BDBD	291.0	\$6,684	291.0	\$6,684
Subtotal for Fund Code BDBD								\$8,762		
0612011510100000000	Rearrangement of Fuels	N/A	HF	Acres	\$559.00	PPPP	4.4	\$2,460		
0612011510100000000	Piling of Fuels, Hand or Machine	N/A	HF	Acres	\$5.05	PPPP	291.0	\$1,470		
Subtotal for Fund Code PPPP								\$3,930		
15. Total BD work funded										\$8,762
16. National Program Support										\$3,592
17. Total Cost of Funded Work (Sum of line 15 and 16)(Required Bid Deposit Amount)										\$12,354

18. Remarks:	Combined Total Cost of BD Funded Work: \$12,354
	Forest Collection Rate: Assessment included in unit cost
	National Collection Rate for Program Support: 41%
	Inflation Rate: 2%
	Rate Remarks:
	PPPP does not include the Forest Collection Rate or National Collection Rate for Program Support.

Hebo Heli Thin (DxP) BD Appraisal Narrative

NEPA: South Nestucca (39933)

Sale #: 15101

Preparer: Jason Monroe

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.	291	291 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.	291	Burn 42 piles
1153 (Purchaser)	Piling of Fuels, Hand or Machine	Covering the piles with a 10X10 piece of plastic.	291	Cover 42 piles
1150 (Purchaser)	Rearrangement of Fuels	Roadside treatments which include: burning of piles, chipping, mastication or scattering.	4.4	4.4 acres

Required Activities Per Unit-

Unit 037B:

Piles-

- Pile, cover, and burn 13 landings on FSR 1400 as identified on logging systems map.
- Pile, cover, and burn 1 landing 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-

- Treat logging slash 25 feet from the edge of FSR 1400 into the unit, for a total of 1.46 acres. Treatment methods may include: Directional felling of trees away from roads, piling and burning hand and machine piles, or mechanical treatment—chipping, mastication, and scattering. High cut banks (with no slash) can be considered adequate fuel breaks.

Wildland Urban Interface-

- N/A

Unit 043:

Piles-

- Piles are included unit 060's piles section.

Roadside-

- N/A

Wildland Urban Interface-

- N/A

Unit 045A:

Piles-

- Pile, cover, and burn 2 landings on FSR 1431 as identified on logging systems map.
- Pile, cover, and burn 1 landing on FSR 1431118 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 045B:

Piles-

- Pile, cover, and burn 2 landing on FSR 1400113 as identified on logging systems map.
- Pile, cover and burn 2 landings on FSR 1424 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 055:

Piles-

- Pile, cover, and burn 1 landing on FSR 2234 as identified on logging systems map.
- Pile, cover, and burn 6 landings on FSR 2214 as identified on logging systems map.
- Pile, cover, and burn 4 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-

- Treat logging slash 25 feet from the edge of FSR 2234 into the unit, for a total of 1.47 acres. Treatment methods may include: Directional felling of trees away from roads, piling and burning hand and machine piles, or mechanical treatment—chipping, mastication, and scattering. High cut banks (with no slash) can be considered adequate fuel breaks.

Wildland Urban Interface-

- N/A

Unit 057:

Piles-

- Pile, cover, and burn 1 landing 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-

- Treat logging slash 25 feet from the edge of FSR 2234 into the unit, for a total of 0.48 acres. Treatment methods may include: Directional felling of trees away from roads, piling and burning hand and machine piles, or mechanical treatment—chipping, mastication, and scattering. High cut banks (with no slash) can be considered adequate fuel breaks.

Wildland Urban Interface-

- N/A

Unit 060:

Piles-

- Pile, cover, and burn 4 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 074:

Piles-

- Pile, cover and burn 4 landings on FSR 2214 as identified on logging systems map.
- Pile, cover, and burn 1 landing 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

*All accomplishment reporting in FACTS is in acres. The dollar amount for treating the unit is calculated by determining 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 Hebo Heli Thin that there will be 42 landing piles to burn. The cost per pile for this sale is \$150 which is multiplied by 42 piles= \$6,300 total to burn the estimated number of piles. Dollar per acre is calculated by: \$6,300 total pile burning cost /291 total acres=\$21.65/acre.

EROSION CONTROL PLAN AND APPRAISAL

Forest: **Siuslaw**

District: **Hebo**

Sale Name: **Hebo Heli Thin (DxP)**

CCF Volume: **12,694**

miles of temp.road: **1.5**

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	79	\$10.00	\$790.00
d. Scarifying				
e. Barriers	each	11	\$150.00	\$1,650.00
f. Seed	acres	1.5	\$425.60	\$638.40
(3) SKIDROADS & TRAILS				
a. Remove culverts/bridges				
b. Waterbars & cross drains	each	2	\$10.00	\$20.00
c. Brush dams				
d. Seed	acres	0.5	\$425.60	\$212.80
(4) FIRELINE STABILIZATION				
a. waterbars & cross drains	each	0		
b. Seed	acres	0		
(5) LANDING				
a. Drainage ditches	each	36	\$10.00	\$360.00
b. Scarifying				
c. Cut & fill stabilization				
d. Seed	acres	0.4	\$425.60	\$170.24
(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				\$3,841.45
(11) Cost per CCF for Appraisal				\$0.30