

**IDAHO PANHANDLE NATIONAL FORESTS**

2450  
Commercial Sales - Proposed

04-2420-01

STARS # 10301

**HOODOO AMES TIMBER SALE REPORT**  
**AND**  
**APPRAISAL**

DISTRICT

SUPERVISOR'S OFFICE

Prepared By: Daniel Frigard

Reviewed for Advertisement

Date \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Reviewed By: Jeanne Pedro White

Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_

Date \_\_\_\_\_

I hereby certify that this sale meets  
the requirements of Secretary's  
Regulation 36 CFR 223.30.

\_\_\_\_\_

Staff Officer, Timber

\_\_\_\_\_

Date

## **Hoodoo Ames Timber Sale Report**

### **I. Location**

The sale area is 1,600 acres in size and includes portions of sections 19, 20, 28, 29, 30, 31 and 32, T. 51 N., R. 1 W., and a portion of section 25, T 51 N., R 2 W., Boise Meridian, Kootenai County, Idaho. The Sale Area lies entirely within the Deception Creek Experimental Forest (DCEF) under the direction of the Rocky Mountain Research Station, Moscow, Idaho with coordination from the Coeur d'Alene River Ranger District, Idaho Panhandle National Forests. The timber stand atlas compartment number is 310. Timber harvest is planned on 363 acres. The sale area lies in the Deception Creek drainage (along with its tributaries including Haynes, Hoodoo, Demorest and Ames Creek) in the upper Little North Fork of the Coeur d'Alene River, near Honeysuckle Campground.

Access to the sale from Coeur d'Alene River Ranger District (Fernan Office): is on Kootenai County Road 268 to Fernan Saddle, to junction of Rd 612 (along Windy Ridge) to Five Finger Saddle. This is the west end of the sale area boundary.

### **II. Relationship to the Environmental Document and Other Uses**

This sale is prepared under the direction of the Hoodoo Ames Research Project Environmental Assessment, released in June 2009. The Hoodoo Ames Decision Notice was approved by Maggie Pittman, Acting Forest Supervisor on the Idaho Panhandle National Forest and Russell T. Graham, Research Forester representative from the Rocky Mountain Research Station in September, 2009. The purpose of this sale is to conduct a forestry research project within the DCEF, as well as implementing some road related improvement projects to address water quality and fish habitat issues. This sale lies in Forest Plan Management Area 14. Management Area 14 includes Experimental Forests that were set aside for manipulative, scientific research and Research Natural Areas that provide areas for non-manipulative research, observations, and study of undisturbed ecosystems.

Study One of the Hoodoo Ames Research project is to conduct a second replication of the irregular selection silvicultural system completed on the Priest River Experimental Forest, as well as to evaluate and monitor the long-term effects of the irregular selection systems, using "strip", group, or individual tree selection methods.

Study Two of the Hoodoo Ames Research Project is to conduct a second entry into the uneven-age management study started in 1980 in the DCEF under the Hoodoo Timber Sale. This would use harvesting to introduce a new age class of trees along with releasing regeneration established during the first study.

#### **A. Relationship to Private Land/Rights-of-Way:**

All lands associated and adjacent to the timber sale are under Forest Service ownership.

**B. Threatened, Endangered and Sensitive Species:**

No spraying or brushing will occur on Road 590 (from mp 0.47 to mp 0.49) for the protection of a Deerfern population, as shown on the sale area map. The population is also located on the ground.

**C. Wetlands/Streamside Habitats:**

Wetlands and streams identified during field review or harvest preparation have been excluded or protected by INFISH buffers. Any discovered wetlands, seeps, bogs, elk wallows and springs less than one acre in size will be protected with a 100 foot no activity buffer. Site specific BMP's will be utilized.

**D. Special Uses, Mining Claims, Range Allotments:**

There are currently no active mining claims within the Deception Creek Experimental Forest. No mining is allowed within the DCEF. There are no range allotments within the DCEF and no allotments are allowed in the DCEF.

**E. Noxious Weeds:**

C6.351# - Washing Equipment. To prevent infestations of new noxious weeds the purchaser will be required to wash off-road equipment prior to moving into the sale area in accordance with the timber sale contract.

**F. Cultural Resources:**

Sites found during Sale Prep were buffered. No disturbance or placement of decks or landing piles shall be placed below Road 612 UE east of unit 4A, as shown on the sale area map.

**G. Other:**

Purchasers operations shall be prohibited from December 1 to March 31 to protect groomed snowmobile routes. No log hauling or road maintenance on weekends or holidays. C6.316# - No instream work will be permitted prior to July 15 to protect spawning and rearing westslope cutthroat trout.

**H. Old Growth:**

No treatments will occur in allocated old growth stands.

**I. Roadless:**

The sale area does not lie within or immediately adjacent to any roadless area.

**III. Timber Volumes**

Hoodoo Ames Timber Sale was cruised utilizing Forest Service personnel. Cruising was completed during the 2009 field season. All Forest Service Cruise assistants were under the direct supervision of Certified Cruisers. Cruise design and implementation procedures were adhered to the standards prescribed in the Forest Cruising Handbook 2409.12 and all Region 1 and IPNF Supplements.

District Certified Cruisers: Frigard, Welbourn, Davis, Schaffer  
District Cruisers Assistants: Little  
District Forest Helper: Dillion

This sale was cruised to an error of 5.31% Maximum allowable for weight scaled sales is 20%. The cruise identification number is 10301

I certify that this sale was cruised by competent cruisers as determined by adequate testing. In my opinion, the cruise estimates of the volume to be cut are within acceptable limits (FSH 2409.12) as required for Scaled sales.

By: *Daniel E. Frigard* /s/ Date: 10/20/2009

Title: Zone Check Cruiser

Area Determination: GPS was used for all units in the sale.

GPS: Trimble Trimble GeoXT.

Standards: PDOP 6, SNR: 6 (Factory Recommendation), Elev Mask: 15. All files were differentially corrected as required within FSH 2409.12 Timber Cruising Handbook 52.21 – Global Positioning System Traverse Standards.

Table 1 summarizes sale acreage, and estimated timber volumes by species, and logging system by unit:

**Table 1: Hoodoo Ames T.S. Volumes in CCF**

Unit	Acres	AF	WP	DF	H	GF	LP	S	Total Sawlog	Non Saw	Total	Logging System
1	18		1	9	20	408			438	46	484	Skyline
1A	3			4	5	115			124	6	130	Ground Base
2	39	1	1	35	26	1156	1		1220	56	1276	Skyline
3	16			5	102	413			520	26	546	Skyline
4	23		5	114	42	527	53		741	28	769	Skyline
4A	3			1	8	81	20		110	6	116	Ground Base
5	24	1	25	14	326	238	1	3	608	28	636	Skyline
6	19		6	22	101	440	3		572	47	619	Skyline
7	8		41	8	36	123	3		211	15	226	Ground Base
8	8		82	5	7	82	1		177	9	186	Skyline
9	19		4	36	12	487	30		569	63	632	Skyline
10	9			4		66	46		116	4	120	Skyline
10A	1			1		19	6		26	1	27	HB-Cable
11	12		2	14	6	404	21		447	17	464	Skyline
12	35			7	3	351			361	19	380	Skyline
13	26		1	3	9	360	2		375	19	394	Skyline
14	20		1	3	78	480			562	23	585	Skyline
15	23		1	2	9	379			391	20	411	Skyline
15A	2				1	51			52	2	54	Skyline
16	4			1	1	134			136	6	142	Skyline
17	29		2	16	26	311	7		362	15	377	Skyline
17A	2			1	3	26			30	1	31	HB-Cable
18	20		1	8	20	216	7		252	55	307	Skyline
<b>Total</b>	<b>363</b>											
<b>CCF</b>		<b>2</b>	<b>173</b>	<b>313</b>	<b>841</b>	<b>6867</b>	<b>201</b>	<b>3</b>	<b>8400 CCF</b>	<b>512 CCF</b>	<b>8912 CCF</b>	<b>-</b>
<b>MBF</b>									<b>4676 MBF</b>	<b>256 MBF</b>	<b>4932 MBF</b>	
<b>TONS</b>									<b>26337 Tons</b>	<b>1605 Tons</b>	<b>27942 Tons</b>	

Sale Wide Conversion Factor (MBF/CCF): .5567 Sale Wide Conversion Factor (CCF/Tons): 3.14 HB= Highbank Non-Saw includes both pulpwood and roundwood

#### **IV. Marking Plan**

**Standard Unit Boundaries:** Three vertical stripes of **ORANGE** paint approximately 3' in length with the mid-point of each vertical stripe roughly at "eye-height". The center vertical stripe shall face into the area to be treated. Boundary trees have horizontal stump mark located on the downhill side of the tree as close to ground as possible.

Many of the Unit Boundaries fall on system roads. Those boundaries that are roads *DO NOT HAVE* any boundary trees marked. The boundaries of these units will be the adjacent road.

**Cut Tree Mark (CTM):** A horizontal line approximately 5 feet above ground level, on both the up and downhill side of the tree with **BLUE** paint. A horizontal stump mark is located as close to the ground on the downhill side of the tree.

**Leave Tree Mark (LTM):** A horizontal line approximately 5 feet above ground level on both the up and downhill side of the tree with **ORANGE** paint. A horizontal stump mark is located as close to the ground on the downhill side of the tree.

#### **V. Logging Plan**

This sale contains a mix of logging systems. The following table is a summary of the type of logging system, approximate acres & volume in CCF as well as average yarding distance. **This is based on sawlog only.**

System	% Acres	Acres	% Volume	Volume	Average. Yard Dist	Longest External Dist.
Ground Based	4	14	6	445	500'	500'
Skyline	96	349	94	7,955	800'	900'
Totals	100	363	100	8,400		

#### **VI. Transportation System**

The sale has a split haul route east of Five Fingers Saddle.

18% of the volume will be hauled down the 590 Rd (1.8 miles) to the Rd 612, then (2.8 miles) on the Rd 612 Rd to Five Finger Saddle. 4% of the volume will be hauled down Rd 612F (2.8 miles) to the Rd 612 E then (0.41 miles) to the 612 Rd. Then 0.2 miles on the Rd 612 to the Junction of the Rd 612 Rd and Rd 590. Both will merge at Five Saddle at the Junction of Rd 612 and Rd 616.

78 % of the volume will be hauled down Rd 616 Rd (3.7 miles) from east side of unit 18 to the Rd 612 at (Five Fingers Saddle). 100 % of the volume will be hauled from the junction of the Rd 616 Rd and Rd 612 (Five Fingers Saddle) west on Rd 612 to County Rd 268 at Fernan Saddle (6.2 miles), county Rd 268 to I-90 (10.2 miles), I-90 to US-95, (2.7 miles). US-95 to Chilco, Idaho (12.0 miles).

To remove timber from a portion of the #612A road, a truck turnaround will need to be utilized at the #612J junction.

All gates associated with this timber sale will be closed with passage of each vehicle except during hauling activities when the gates will be closed at the end of each shift.

***Specified Road Construction/Reconstruction***

<b>Road Number</b>	<b>Name</b>	<b>Type of Work</b>	<b>Road Mileage</b>
590	Tamarack	Reconstruction	0.04
590C	Tamarack Spur C	Reconstruction	0.13
590D	Tamarack Spur D	Reconstruction	0.02
590J	Tamarack Spur J	Reconstruction	0.75
590JUA	Tamarack Spur JUA	Reconstruction	0.19
612A	CDA Deception Spur A (WEST)	Reconstruction	0.10
612A	CDA Deception Spur A (EAST)	Reconstruction	1.69
612D	CDA Deception Spur D	Reconstruction	0.18
612F	CDA Deception Spur F	Reconstruction	1.57
612H	CDA Deception Spur H	Reconstruction	0.71
612J	CDA Deception Spur J	Reconstruction	0.19
612UE	CDA Deception Spur UE	Reconstruction	0.74
612UEA	CDA Deception Spur UEA	Reconstruction	0.12
616	Flora Miller	Reconstruction	0.04
616J	Flora Spur J	Reconstruction	0.21
616JUA	Flora Spur JUA	Reconstruction	0.11
2340	Echo Peak	Reconstruction	0.01

Road Completion Date: October 31, 2011

**VII. Erosion Control**

Application shall be during the period **May 15 to June 30** and **September 1 to October 31**. Seed shall be applied evenly at the rate of 18 pounds per acre and 200 pounds of fertilizer per acre.

**Seed Mix & Quantity**

<b>Species</b>	<b>PLS lbs/acre</b>
Slender Wheatgrass "Highlander" or "Pryor"	3
Hard Fescue "Durar"	5
Mountain Brome "Bromar"	5
Annual Rye	4
Alsike Clover	1
<b>Total</b>	<b>18</b>
Fertilizer Mix	16-16-16
Application Rate / acre	200

Labor : Day rate \$18.00 x 8 hours	\$ 144
Seed \$/lb	\$ 4.00
Fertilizer \$/lb	\$ 0.45
Acres to be seeded (landings and skid trails)	5
Total Seed lbs & \$/lb (95 lbs x \$4)	\$380
Total Fertilizer lbs & cost (1,000 lbs x 0.45)	\$450
Total Cost (seed & fert)	\$906
Labor Cost (1 person @ 3 ac/day)= 1.5 days	\$216
Total seed & labor cost	\$1122
<b>(8,400 CCF ) Cost/CCF</b>	<b>0.13</b>

### **VIII. Sale Area Improvement - Reforestation**

Costs are generated through the FACTS program.

#### **Essential (funded)**

Full Plant – 78 acres – Portions of units 1, 1A, 2, 3, 4 and 6.  
Stocking Surveys – 199 acres – All units.

#### **Non-Essential (unfunded)**

Full Plant – 63 acres – Portions of units 5, 7, 9, 11, 12, 14, 15, 15A, 16, 17 and 18.  
Regeneration Exams – 1 acres – Portions of units 5, 7, 9, 11, 14, 15A and 16.  
Fireline Construction – 1.8 miles – Portions of units 12, 15, 16, 17 and 18.  
Slashing – 9 acres – Portions of units 1, 2 and 15A.

### **IX. Hazard Reduction**

The sequence of activities and activity costs are attached. Costs are generated through the FACTS program.

#### **Purchaser requirements:**

Grapple Pile Landings – 19 acres – All landings of all units.

Lop & Scatter – 63 acres -- Units 8, 16 and a portion of units 1, 2, 4, 6, 11 and 14.

Yard Tops – 165 acres – Units 3, 9, 10, 10A, 12, 13, 15, 17, 17A, 18, and portions of units 1, 2, 4, 5, 6 and 14.

Hand Fireline – 5.277 miles – Portions of units 1, 2, 3, 4, 5, 6, 9, 11, 14, 15A and 16.

Masticate Slash – 18 acres -- Units 1A, 4A, 7 and a portion of units 1 and 5.

**Forest Service requirements:**

Underburn – 104 acres – portions of units 1, 2, 3, 4, 5, 6, 9, 11, 14, 15A and 16.

Jackpot Burn – 21 acres – portions of units 3, 12, 15, 17 and 18.

Burn Landing Piles – 18 acres – All landings of all units; no burning of piles in unit 8.

**X. Other Provisions**

A.

1. Normal operating season: June 15 thru October 15
2. Termination date: October 31, 2015
3. Road Completion Date: October 31, 2011

B. Purchaser Fire Liability:

1. Personnel and Equipment

Items	# Items	# Personnel
Skyline Logging Crew	1	5
Ground Base Logging Crew	1	3
Sawyers	4	4
Loader	2	2
Log Trucks	5	5
Woods Boss	1	1
Total	-	20

2. Cost Calculations

Total number of personnel	20
Number of hours per day	12
Total hours per crew day	240
Hourly rate for AD-C firefighter	\$ 17.08
Average daily cost	\$4,099.20
Average fire length	5 days
Purchaser obligation for operation fire	\$20,496
Rounded up to nearest \$100	<b>\$20,500</b>

3. Other unique requirements:

C6.316#

- a) No log hauling or road maintainance activities on weekends or holidays.
- b) No operations during the winter recreational period of December 1 to March 31.

- c) No instream work will occur prior to July 15 to protect spawning and rearing for westslope cutthroat trout.

Units 10A and 17A are highbank units.

Flagpersons will be required when felling trees within 2 tree lengths of the #612 road (unit 4).

**XII. Sale Objective Code**

PURPOSE	ACTIVITY	PERCENTAGE
<b>TC</b>	<b>10</b>	<b>100</b>

**VALID PURPOSE CODES:**

- TC -- Timber Commodity Purpose
- FS -- Forest Stewardship Purpose
- PP -- Personal Use

**VALID ACTIVITY CODES:**

- TC** 01 -- Timber Purpose
- FS** 10 -- Forest and Ecosystem Health
- FS** 20 -- Recreation/Visual/Cultural Resource Enhancements
- FS** 30 -- Wildlife Habitat Management
- FS** 40 -- Fisheries Habitat Management and Watershed Improvement
- FS** 50 -- T&E Species Habitat Management
- FS** 60 -- Range Resource Enhancements
- FS** 70 -- Non-Timber Products
- FS** 90 -- Other
- PP** 80 -- Personal Use Products