

NOTE: This sale was broken out from the Hidden Slim Timber Sale which did not sell in 2007. This sale features C2.11# timber subject to agreement. The timber subject to agreement is helicopter Units 25H,26H, 28H,30H, 36H, 37H,39H 41H, 43H, 44H, 45H, 49H, 50H,51H, these units were appraised separately.

I. Location

Contained within the Sale Area Boundary are approximately 2648 acres located in all or portions of the following legal descriptions:

Sections 9. T41N, R1E, Latah County.
Sections 10. T41N, R1E, Clearwater County.
Sections 16, 21 & 28. T42N, R1E, Latah County.
Section 15,22, 23, 24, 25,26, 27, T42N, R1E, Shoshone County

All Boise Meridian, Idaho.

The timber stand atlas compartment number is 430 & 439 of the St. Joe Ranger District, Idaho Panhandle National Forests. Timber harvest activity is planned on approximately 589 acres (includes Rd ROW). The sale area lies in the W. Fork St. Maries River, Mazie Creek, Hidden Creek, Wood Creek & Keeler Creek.

- A. Area and Ownership
 - a. National Forest:
 - i. Sale Area approximately 2648 acres
 - ii. Net Activity approximately: 254 acres
 - iii. Timber Subject to agreement approximately: 335 acres

- B. Appraisal Point: St. Maries, Idaho

This sale has 8 distinct haul routes:

- 1) 3327G -> 3327 -> St. Hwy 3.
- 2) 765A -> St. Hwy 3.
- 3) 498 -> St. Hwy 3.
- 4) 3343 -> 498 -> St. Hwy 3.
- 5) 3499A.2 -> 3499A.1 -> 3499 -> 498 -> St. Hwy 3.
- 6) 341 -> St. Hwy 3.
- 7) 765D -> 765C -> 765 -> St. Hwy 3.
- 8) 361C.1 -> 361C.2 -> 361C.3 -> 361A -> 361 -> 301 -> St. Hwy 3.

II. Relationship to the Environmental Document and Other Uses

This sale is prepared under the direction of the Hidden Cedar FSEIS, approved by Forest Supervisor Ranotta K. McNair on 3/06/2007. The purpose of this sale is to achieve vegetative & watershed goals. This sale lies in Forest Plan Management Area 1 & 4. *Refer to site specific design criteria approved in the NEPA document.*

A. Relationship to Private Land/Rights-of-Way: Actual unit boundaries for Units 26H, 27, 28H, 38, 41H, 44H, 45H, 49H, 50H, and 51H are adjacent to other land ownership.

B. Threatened, Endangered and Sensitive Species:

B6.24 Protection Measures Needed for Plants, Animals, Cultural Resources, & Cave Resources.

C6.316#-Limited Operating Period. (3/89) Restrictions may be modified after consultation with the appropriate specialist in regards to Goshawk.

1) If a Goshawk nesting area is found within or adjacent to the sale area, as determined by Forest Service, the following measures may be taken:

No felling, skidding, road construction or other potentially disturbing activities within approximately 1/2 mile of the nest site, as determined by the Forest Service, may occur between **March 15 and August 15**.

2) Activity restrictions can be removed after June 30 if the District Wildlife Biologist determines that the nest site is inactive or unsuccessful.

3) Operate one subdivision at a time for wildlife security.

4) Included timber may be deleted in an area of approximately 30 acres around the Goshawk site, as determined by Forest Service. Other activities, such as road construction, may also be suspended in this 30-acre.

5) Culvert installation & removal shall occur from July 15th - September 1st, for Fish Habitat Protection.

C. Wetlands/Streamside Habitats: Wetlands identified during field review or harvest preparation have been excluded or protected by INFISH buffers.

D. Special Uses, Mining Claims, Range Allotments:

Mining Claims: The Sale Area is open to prospecting but currently there are no known applications or active claims on file.

Range Allotment: Keeler Creek is within the sale area.

- E. Noxious Weeds: C6.351#-Washing Equipment. (07/07). Prior to initial and any subsequent entries into the Sale Area, Purchaser **is required** to wash all off road logging and construction equipment. Purchaser **is not** required to wash above equipment prior to leaving the Sale Area.
- F. Cultural Resources: There are extensive sites within the Sale Area Boundary. Sites found during Sale Prep were buffered, or are not located in any proposed treatment areas. Refer to B6.24 Protection Measures Needed for Plants, Animals, Cultural Resources, & Cave Resources.
- G. Other: NA

III. Timber Volumes

The sale was cruised utilizing Forest Service personnel. Cruising was completed during the 2006 field season. All Forest Service Cruise Assistants were under the direct supervision of Certified Cruisers.

Forest Service Personnel: Cruise design and implementation procedures adhered to the standards prescribed in the Forest Service Cruising Handbook 2409.12 and all R1 and IPNF Supplements.

A copy of the Cruise Design and cruising specifications for Forest Service Personnel can be found in the Sale Prep folder located in the St. Maries Office of the St. Joe District.

ERROR, VOLUME AND CONFIDENCE INTERVAL :

- A. AGGREGATED BY UNIT OF MEASURE: **7.49%** Error for Primary & Secondary Products Aggregated by Unit of Measurement. Maximum allowable for a scaled sale is 20%. The cruise identification number: **00016**
- B. Strata Error: Maximum Allowable: 40%.
- C. Confidence Interval: 95%

This sale was originally designed as a 2400-6T Contract (Tree Measurement) and was changed to a 2400-6 Contract (Scaled) after Pre-sale activities were initiated.

Cruising - Forest Service Personnel:

CHIEF OF PARTY: Mike Hicks (Crew Leader), William Brandt, Wes Case & Cassidy Russell (Assistant Crew Leader).

CERTIFIED CRUISERS: Mike Hicks, William Brandt, Stephanie Thurston, Wes Case, Noah Kryor & Cliff Avery (Check/Advanced).

CRUISE ASSISTANTS: Cassidy Russell, James McFarland, Paul Kowalezylc, Brittanie Shackelford, Casey Axtell, Barbra Johnston, Jeff Hartwig, Cathy Schleh, Jessica Christensen, Brandon Boller & Harold Payne.

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. The Check Cruise Report #18 is on file at the St. Joe Ranger District, St. Maries, ID and the Forest Supervisor Office, Coeur d'Alene, ID.

By: Clifford Avery Date: 7/16/2007
Title: Zone Check Cruiser

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

GPS: Trimble GeoExplorer 3 or Trimble GeoXT.

Area Based Cruise (Variable Plot) Standards: PDOP 6, SNR: 6, Elev Mask: 15. All raw files were differentially corrected. (FSH 2409.12 Timber Cruising Handbook 52.21 – Global Positioning System Traverse Standards)

Volume Summary by Unit by Species (CCF) Saw Log Only

Unit	Acres	Logging System	GF	AF	LP	H	DF	L	S	WP	PP	C	Unit Sawlog Totals	Top wood	Small Sawlog	Non Sawlog	Total
27	29.4	GB/TLM	323	0	31	135	18	164	9	0	0	175	855	66	42	108	963
28	13.0	S	146	0	14	60	8	74	4	0	0	79	385	30	22	52	437
29	5.2	S	12	0	5	58	3	29	1	0	0	31	139	12	7	19	158
30	58.5	GB/S/TLM	607	0	253	73	205	118	11	0	0	56	1323	106	0	106	1429
31	17.6	GB & S	183	0	77	22	62	36	3	0	0	17	400	32	0	32	432
32	14.3	GB & TLM	146	0	112	66	89	17	7	15	0	178	630	24	23	47	676
38	51.0	GB/S	926	0	0	41	65	39	0	0	0	119	1190	94	19	113	1303
46	14.2	S	145	0	112	65	89	17	7	15	0	177	627	23	23	46	673
47	14.9	S	152	0	117	69	93	18	7	15	0	185	656	25	24	49	705
48	9.8	TLM	99	0	77	45	61	12	5	10	0	122	431	16	16	32	462
52	7.7	GB/S	84	0	8	35	4	43	3	0	0	47	224	28	0	28	252
99	6.7	ROW/GB	251	0	9	37	28	92	0	19	0	59	495	23	0	23	518
100	6.3	ROW/GB	236	0	9	34	26	86	0	18	0	56	465	22	0	22	487
101	5.5	ROW/GB	205	0	8	30	23	75	0	16	0	49	405	19	0	19	424
Totals	254.1		3515	0	832	770	773	820	57	109	0	1350	8226	520	175	695	8921

Volume Summary by Unit by Species for Timber Subject to Agreement C2.11#

Unit	Acres	Logging System	GF	AF	LP	H	DF	L	S	WP	PP	C	Unit Sawlog Totals	Top wood	Small Sawlog	Non Sawlog	Total
25H	18.8	Hec	207	0	20	86	12	105	6	0	0	112	548	42	27	69	617
26H	15.0	Hec	165	0	16	69	9	84	5	0	0	89	437	34	21	55	492
28H	20.3	Hec	207	0	21	110	13	114	6	0	0	119	590	54	18	72	662
30H	58.5	Hec	608		254	73	205	118	12			55	1325	106	0	106	1431
36H	12.6	HeC	229	0	0	10	16	10	0	0	0	29	294	24	4	28	322
37H	20.0	HeC	363	0	0	16	25	15	0	0	0	47	466	36	8	44	510
39H	29.4	HeC	534	0	0	24	37	22	0	0	0	69	686	53	12	65	751
41H	54.4	HeC	988	0	0	43	69	41	0	0	0	127	1268	98	22	120	1388
43H	22.2	HeC	300	0	9	20	22	16	0	0	0	17	384	30	0	30	414
44H	27.1	HeC	468	0	18	45	20	11	0	0	0	7	569	40	0	40	609
45H	19.1	HeC	347	0	10	50	8	8	0	0	0	5	428	31	0	31	459
49H	67.0	HeC	917	0	29	18	602	93	0	0	0	186	1845	174	0	174	2019
50H	9.3	HeC	65	0	0	3	32	8	0	0	0	16	124	14	0	14	138
51H	19.8	HeC	122	0	0	39	71	6	0	0	0	32	270	26	0	26	296
Totals	335.0		5520	0	377	606	1141	651	29	0	0	910	9234	762	112	874	10108

Conversion Factor: CCF to Tons= 3.09

IV. Marking Plan

Standard Unit Boundaries: Three vertical stripes of ORANGE paint approximately 3'- 4' in length with the mid-point of each vertical stripe to be roughly at "eye-height" or higher if brush conditions warrant. The center vertical stripe shall face into the area to be treated. Each painted boundary tree shall have an adequate "stump" mark located on the *downhill* side of the tree as close to the ground line as practical, with more paint applied horizontally, not vertically..

"Tyvek" Tag Unit Boundaries: BLUE Tyvek or PINK Tyvek "BOUNDARY PARTIAL CUT" Tags are placed roughly at "eye-height" facing into the area to be treated. Tagged trees have an accompanying ORANGE painted "stump" mark located on the downhill side of the tree as close to the ground line as practical, with more paint applied horizontally, not vertically. The Unit number is written on the tag.

Cut Tree Mark (CTM): A horizontal line approximately 5 feet above ground level, or higher if brush conditions warrant on both the up and downhill side of the tree with BLUE paint. In addition, a BLUE mark shall be painted on the "stump" on the downhill side as close to the ground line as practical, with more paint applied horizontally, not vertically.

Leave Tree Mark (LTM): A horizontal line approximately 5 feet above ground level, or higher if brush conditions warrant, on both the up and downhill side of the tree with ORANGE paint. In addition, a ORANGE mark shall be painted on the "stump" as close to the ground line as practical, with more paint applied horizontally, not vertically.

Wildlife Trees (WT): Are designated with a ORANGE "X" approximately 5 feet above ground level, or higher if brush conditions warrant, on both the up and downhill side of the tree. In addition, an ORANGE mark shall be painted on the "stump" on the downhill side as close to the ground line as practical, with more paint applied horizontally, not vertically.

White Pine Plus Trees: These White Pines **may be** identified by various methods which include; an ORANGE "diamond shaped" aluminum tag and an Orange painted band around the stem or a small aluminum rectangular tag approximately 1 inch x 2 - 4 inch. These trees have a liquidated damage fine of \$5,000. Prior to any logging activity the Purchaser should meet with the Sale Administrator to determine the location of White Pine Plus trees and discuss protection measures.

V. Logging System Summary

This sale contains a mix of logging systems. The following table is a summary of type of system, approx. acres & volumes as well as average yarding distances. This is based on **SawLog only**.

System	% Acres	% Volume	Volume	Vol Wtd Yard Dist
Ground Base	39	39	3208	250
Skyline	36	38	3126	550
TLM	25	23	1892	300
Totals:	100	100	8226	-

This is based on **SawLog only**

System	% Acres	% Volume	Volume	Vol Wtd Yard Dist
Helicopter (Timber Subject to Agreement C2.11#)	100	100	9234	1950

VI. Transportation System

Specified Roads Construction/Reconstruction

Rd #	Name	Const	Reconstr
361	Catspur		1.60
361A	Catspur		.6
361C.1	Cattail		0.75
361C.2	Cattail		0.21
361C.3	Cattail	0.95	
498	Hidden Creek		2.15
765C	Keelhaul	.44	
765D	Keelover	1.16	
3499	Wood Creek Connection		.45
3499A.1	Lower Hidden		.46
3499A.2	Lower Hidden	1.24	
Total		3.79	6.22

Temporary Roads & Cost

Unit 47: New construction temp road. Location is not identified on map.

Length: 0.2 mi.

Total Temporary Road Costs		\$ 1,400.00
\$1,400/8226ccf	Cost/CCF	\$.17

VII. Erosion Control

Application shall be during the period **May 15 to June 30 to September 1 to October 31**. Seed shall be applied evenly at the rate of **23** pounds per acre and **200** pounds of fertilizer per acre.

Seed Mix & Quantity

Species	PLS lbs/acre
Slender Wheatgrass "Highlander" or "Pryor"	3
Mt. Brome "Bromar"	4
Streambank Wheatgrass "Sodar"	4
Sheep fescue "Durar" (Festuca ovina)	5
White Dutch Glover or Alsike Clover (Tirfolium hybridum)	3
Annual rye (Lolium multiflorum)	4
Total	23

Fertilizer Mix	16-16-16
Application Rate / acre	200

Labor : Day rate (AD-c)\$13.24 *8 hours	\$105.92
Seed \$/lb	\$ 4.00
Fertilizer \$/lb	\$ 0.45

Acres to be seeded	9	
Total Seed lbs & \$/lb (207 lbs x \$4)	\$828	
Total Fertilizer lbs & cost (1800 x \$.45)	\$810.00	
Total Cost (seed & fert)	\$1638.00	
Labor Cost (1 person @ 3 ac/day)= 3 days	\$317.76	
Total seed & labor cost	\$1955.76	
\$1955.76/8226ccf	Cost/CCF	\$ 0.24

VIII. Sale Area Improvement - Reforestation

Costs are generated through the FACTS program. See Appendix "Sale Area Improvement and K-V Collection Plan" for specifics located in Appendix.

Funded

Full Plant	45 acres
Burning Site Prep	45acres
Stocking Surveys	45 acres
Animal Control	45acres
Plantation Survival	2 acres
Animal Damage Survey	90 acres

Unfunded

Noxious Weed	22.5 acres
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IX. Hazard Reduction

The sequence of activities and activity costs are attached. Costs are generated through the FACTS program. See "Detailed listing of BD & Purchaser Slash Treatment Activities (Working Copy) for specifics located in Appendix.

Purchaser requirements:

Pile Landing
Fireline Construction
Lop & Scatter
Grapple Piling

Forest Service requirements:

Hand Fireline Construction
Broadcast Burn
Burn Landings
Burn Grapple Piles
Post Treatment Fuel Exam
Construct Hand Piles

X. Other Provisions

A. Period of contract:

1. Normal operating season: **June 1 through October 15**
2. Termination date: **October 31, 2013**
3. Road Completion Date: **October 15, 2010**

B. Purchaser Fire Liability:

1. Personnel and Equipment

Items	# Items	# Personnel
Logging Crew	2	19
Sawyers – Skyline & GB	2	4
Mech Felling	1	1
Loader	2	2
Log Trucks	6	6
Woods Boss	1	1
Totals	--	33

2. Cost Calculations

Total number of personnel	33
Number of hours per day	12
Total hours per crew day	396
Hourly rate for AD-C firefighter	\$13.24
Average daily cost	\$5,243.00
Average fire length	5
Purchaser obligation for operation fire	\$25,215.20
Rounded up to nearest \$100	\$26,300.00

XI. Other unique requirements

C5.419# – SYSTEM ROAD STABILIZATION. See Provisions for requirements.

System Road Stabilization Total	\$ 19,664
19,664/8226 ccf	Cost/CCF \$ 2.39

C6.320# - Reserve Tree Protection. Liquidated damages are listed as follows:

Designated Wildlife Trees within Cutting Units 46, 47 and 48 - \$500.00 each.

Within any Cutting Unit, White Pine Plus trees may be encountered. These trees carry a damage rate of \$5,000.00 each. See provision for details.

C6.41# - Special Felling Requirements . Requirements in this provision are to protect the soil resource. No cost adjustment was made.

Purchaser BD Grapple Piling Machine Mobilization. Due to the fragmentation of the timber sale units and the requirement to have slash cycle through at least 1 wet period, an adjustment has been made for equipment mobilization.

Timber Subject to Agreement (C2.11#) Appraisal Items

Helicopter Landing Development

Costs for Helicopter Landings were based on a total of 9 landings @ approximately 0.46 acre each. The method of cost development was Time & Equipment using the Engrg Cost Guide. See TSR & Appraisal Appendix Allowances Spreadsheet for Details.

Total \$ for Construction & Decommission	\$ 32,495.11
\$32495.11/9234ccf	Cost/CCF \$ 3.52

Note: Landings will be decommissioned at the same Decommission Rx as the adjacent road.

Erosion Control

Application shall be during the period **May 15 to June 30 to September 1 to October 31**. Seed shall be applied evenly at the rate of **23** pounds per acre and **200** pounds of fertilizer per acre.

Seed Mix & Quantity

Species	PLS lbs/acre
Slender Wheatgrass "Highlander" or "Pryor"	3
Mt. Brome "Bromar"	4
Streambank Wheatgrass "Sodar"	4
Sheep fescue "Durar" (Festuca ovina)	5
White Dutch Glover or Alsike Clover (Tirfolium hybridum)	3
Annual rye (Lolium multiflorum)	4
Total	23

Fertilizer Mix	16-16-16
Application Rate / acre	200

Labor :Day= \$/hr (AD-c)\$13.24 *8 hours	\$105.92
Seed \$/lb	\$ 4.00
Fertilizer \$/lb	\$ 0.45

Acres to be seeded	5
Total Seed lbs & \$/lb (115 lbs x \$4)	\$460.00
Total Fertilizer lbs & cost (1000 x \$.45)	\$450.00
Total Cost (seed & fert)	\$910.00
Labor Cost \$105.92*1.66 (3ac/day)	\$175.83
Total seed & labor cost	\$1085.83
\$1088.83/9234ccf	Cost/CCF \$ 0.12

C5.312# - Reconditioning of Existing Roads.

A cost adjustment has been developed for some minor work on Rd 3327J consisting of 1 small slump repair, 3 – 4 culvert inlet & outlet clean outs and moderate roadside brushing. Estimate was based on utilizing a Case 580L Front End Loader with backhoe and a 8-10 yard dump truck with operators. A cost for Roadside Vegetation @ the moderate level is also included. .03 cents will be going to the Palouse District of the Clearwater National Forest for surface replacement.

Total \$ for Reconditioning (Case 580L + Operator) + (Dump Truck + Operator)		\$ 1,047.42
Brushing Cost		\$ 1,500.00
\$2547.42/9234ccf	Total Cost	2,547.42
	Cost/CCF	\$ 0.28

C5.312# - Reconditioning of Existing Roads.

A cost adjustment has been developed for some minor work on Rd 341 consisting of brushing and blading the road

Total \$ for Reconditioning		1,125.99
\$1125.99/9234ccf		
	Cost/CCF	0.12

Purchaser BD Grapple Piling Machine Mobilization. Due to the fragmentation of the timber sale units and the requirement to have slash cycle through at least 1 wet period, an adjustment has been made for equipment mobilization.

This was based on 1 initial mobilization to a point within the project area with a cost of \$750. It will be necessary to low boy the grapple machine 2 more times to other areas within the Sale Area with a cost of \$350 ea.

Initial Mobilization		\$750
2 Additional Mobilization @ \$350 ea		\$700
\$1450/9233ccf	Total	\$1450
	Cost/CCF	.16

C5.419# – SYSTEM ROAD STABLIZATION. See Provisions for requirements.

System Road Stabilization Total		\$ 19,664
19,664/9234 ccf	Cost/CCF	\$ 2.13