

CAPITOL SALVAGE SALE
BRUSH CREEK-HAYDEN RANGER DISTRICT
MEDICINE BOW-ROUTT NATIONAL FORESTS
TIMBER SALE REPORT AND LOGGING PLAN

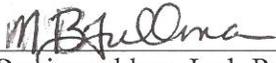




Prepared by: Keith Brugger, Forester

3/28/16

Date

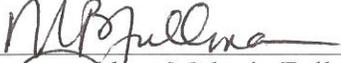


Reviewed by: Josh Peck, TMA

3/28/2014

Date

I certify that the Capitol Salvage Sale is consistent with the plans, environmental standards, and other management requirements in accordance with 36 CFR223.30.



Approved by: Melanie Fullman, District Ranger

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Capitol Salvage Sale Report and Logging Plan

A. Capitol Salvage Sale Statistics

Table 1 displays Capitol Salvage Sale statistics.

TABLE 1: Capitol Salvage Sale Statistics					
Sale Number: 26204					
Species/Products	LP	ES	TF	LP-POL	Total/AVG
Utilization Specifications					
<ul style="list-style-type: none"> • DBH • Top Diameter • Minimum Piece 	7.0" min 6.0" min 8.0' min	N/A	7.0" min 6.0" min 8.0' min	N/A	N/A
Net Volume (CCF) without ROW	22,300	0	721	0	23,021
Net Additional Volume (CCF) in Specified ROW Construction and Reconstruction	0	0	0	0	0
Net Additional Volume in Temporary Roads, Landings and Skid Trails	0	0	0	0	0
Total Estimated Number of Trees	104,618	n/a	6,006	n/a	110,624
Quadratic Mean DBH	12.2	n/a	11.0	n/a	12.1 (AVG)
Net MBF/CCF Ratio	.5172	n/a	.4276	n/a	.5144 (AVG)
Net CF per Tree	21.4	n/a	11.6	n/a	20.9 (AVG)
Trees per Acre	185	n/a	11	n/a	196 (TOTAL)

TABLE 1a: Capitol Salvage Sale Statistics	
Acres to be Harvested	563.35
Gross Sale Area Acres	1184
Average Slope (Percent)	10
Average Yarding Distance Tractor (Feet)	642
Average Yarding Distance Cable (Feet)	N/A

B. Timber Sale Report

The appraisal is based on FSM 2420 and FSH 2409.22, Bulletin Number BU210116 effective February 12, 2016.

1. Location:

The Capitol Salvage Sale is located in T14N R88W Sections 3,10,11,12,13, 14 and 15, 6th PM, Carbon County, Wyoming. It is approximately 35 miles west of Encampment, Wyoming.

The sale can be accessed from Encampment by traveling west on WY HWY 70 for approximately 25 miles to NFSR 801 (Deep Creek Road). Travel North on 801 for approximately 9 miles to the junction with NFSR 876 (Green Ridge Road).

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2. Compliance with Forest Plan:

This sale is addressed in the Decision Notice (DN) for Bud Environmental Assessment (EA) and Finding of No Significant Impact (FONSI). It was signed by District Ranger Melanie Fullman on September 25, 2013. This sale is consistent with the requirements of the Revised Forest Plan and contributes to meeting the goals of the Plan. This sale is compliant with 36 CFR223.30. The Timber Sale Purpose Code is: FS, Forest Stewardship, Activity Code 10, Forest and Ecosystem Health, 100%.

3. Sale Preparation:

The Capitol Salvage Sale consists of 7 cutting units with 563.35 acres designated for harvest. See Table 2 for cutting unit descriptions.

TABLE 2: Capitol Salvage Sale Unit Description

<u>Cutting Unit</u>	<u>Acres</u>	<u>SILV. Rx</u>	<u>Designation</u>	<u>Logging Method</u>
1	74.50	Overstory Removal	OR 7" DBH	RTS
5	77.93	Overstory Removal	OR 7" DBH	RTS
7	23.23	Overstory Removal	OR 7" DBH	RTS
8	6.58	Overstory Removal	OR 7" DBH	RTS
9	104.78	Overstory Removal	OR 7" DBH	RTS
10	191.31	Overstory Removal	OR 7" DBH	RTS
13	85.02	Overstory Removal	OR 7" DBH	RTS
Total	563.35			

4. Land Status:

All boundaries have been surveyed, and there are no encumbrances. The area of all cutting units was determined using global positioning system (GPS) receivers. Data was collected in accordance with FSH 2409.12 Section 52.21.

5. Measurement:

The Capitol Salvage Sale is a weight scaled sale. It was cruised using variable plot methods. The aggregated error for the cruise is 17.29% (2t, net required removal volume).

- a. Recon/Original Cruise Design: Keith Brugger on 9-2-2015
- b. Production Cruise Design: Keith Brugger on 9-2-2015
- c. Addendum 1: Keith Brugger on 11-30-2015
- d. Addendum 2: Keith Brugger on 1-14-2016
- e. Cruiser of Record: Vsevolod Shperun (Sevi), Cruise Completed: 9-3-2015
- f. Check Cruise completed on 1-15-2016 by Craig Kasten

6. Cutting Methods:

Table 3 displays the harvest unit prescriptions with approximate sale acres.

TABLE 3: Capitol Salvage Sale Harvest Unit Prescriptions

<u>Prescription (Cutting Unit Method)</u>	<u>Approximate Sale Acres</u>
Overstory Removal	563.35

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7. Appraisal Points:

TABLE 4: Capitol Appraisal Points

Product/Species	Appraisal Point(s)	Weighted Haul Miles	Round Trip Minutes (RTM)
Sawtimber	Saratoga, WY	39	202

8. Contract and Appraisal:

The contract and appraisal are available for review at the Forest Supervisor's Office in Laramie, Wyoming.

TABLE 5: Capitol Appraisal Summary

	01-03 LP (108)	02-03* ES (093)	02-03* TF (025)	03-09 LP (108)	TOTAL / AVERAGE
Est. Volume CCF	23,021	0	0	0	23,021
Advertised Rate (Per CCF)	\$16.52	N/A	N/A	N/A	\$380,306 (T)
Base Rates (Per CCF)	\$3.00	N/A	N/A	N/A	\$69,063 (T)
Required Deposits:					
Slash Disposal (BD) (18 U.S.C. 490)	\$0	N/A	N/A	N/A	\$ 0(T)
Surface Rock Replacement (SRR) (16 U.S.C. 537)	\$0.31	N/A	N/A	N/A	\$7,137 (T)
Road Maint. Dep. (16 U.S.C. 537)	\$0	N/A	N/A	N/A	\$0 (T)
WWPA:	WWPAC	N/A	N/A	N/A	N/A
Index CCF Basis	\$172.66	N/A	N/A	N/A	N/A
MBF/CCF Ratio	.5144	N/A	N/A	N/A	.5144(A)
Sale Temporary Roads	\$0.22	N/A	N/A	N/A	\$5,065 (T)
Quadratic Mean DBH	12.1	N/A	N/A	N/A	12.1
Unusual Adjustment	\$-12.51	N/A	N/A	N/A	\$-287,993 (T)
Quality Adjustment	\$-3.58	N/A	N/A	N/A	\$ -82,415(T)

**True Fir volume is less than 10% of total volume, therefore it was combined into Lodgepole pine and Other Conifers contract species and was appraised as Lodgepole pine*

9. Knutson-Vandenberg (KV) Plan:

The total eligible collections on the Sale Area Improvement and KV Collection Plans are \$297,445. Essential KV collections are \$27,991. These costs include overhead.

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10. Brush Disposal (BD) Plan:

Purchaser required BD deposits are \$0. These costs include overhead.

11. Non-Saw Volume:

There is no timber subject to agreement in the Capitol Salvage Sale.

12. Dead Volume:

This sale contains approximately 16,785 CCF of dead lodgepole pine volume which constitutes approximately 73% of all volume within the contract.

C. Timber Logging Plan

1. This sale consists of approximately 1,184 gross acres of which 563.35 are planned for harvest in 7 units. An estimated 42 landings will be needed to log the sale. The average external skid distance is 642 feet.
2. This is a total weight scaled sale with a weight factor of 42.45 lbs/cf for contract species Lodgepole pine and Other Conifers.
3. All units are Overstory Removal 7" diameter minimum per B2.33.
4. The normal operating season for the sale will be July 15 to October 31.
5. All Unit boundaries are designated with orange tracer paint. Orange stripes of paint on two sides of the cutting unit boundary trees facing the direction of the adjacent boundary trees and an orange slash of paint on one side of the boundary tree facing the area to be cut. Boundary trees are also marked with orange paint below stump height. Cutting unit numbers are painted on approximately every 5th boundary tree. Boundaries along Federal, State, County or National Forest System roads (identified on Sale Area Map) are not marked.
6. Approximately 1.5 miles of non-system (temporary) roads may be needed to log the sale. This sale will include no specified road construction or reconstruction.
7. Road maintenance costs were appraised for as follows:
 - Purchaser Required Maintenance - \$0.30
 - Snow Removal - \$0.13
 - Surface Rock Replacement - \$0.31
8. Unusual Adjustments were calculated as follows:
 - Deteriorating Live Adjustment - \$-12.33
 - Risk Adjustment - \$-0.18
 - **Total Unusual Adjustments - \$-12.51**
9. Quality Adjustments were calculated as follows:
 - Haul Cost Adjustment - \$-3.58
 - **Total Quality Adjustments - \$-3.58**
10. Insect activity is prevalent in the sale area and deterioration or loss of value of timber due to insects shall not be an unexpected event under B8.12 – Liability for Loss.

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11. Per C5.34# - Obliteration of Temporary Roads, Skid Trails and Landings (3/02): Temporary roads will be ripped entire length to a depth of 8-12 inches, such that approximately 65% of surface is decompacted.
12. Per C5.41# - Closure to Use by Others (4/04): The gates on NFSRs 875,876.1A and 876.1H will be closed after the passage of each vehicle.
13. Per C6.312# - Sale Operation Restrictions (4/04): In all units, no wheeled or tracked equipment will be allowed except during dry or frozen conditions. Frozen conditions exist when there are 4" or more of frozen ground or 12" or more of packed snow or a combination of compactable snow and frozen soil is 12" or more.
14. Per C6.312# - Sale Operation Restrictions (4/04): Staging areas and refueling locations will be located at least 100 feet away from streams and wetlands as shown on the Sale Area Map.
15. Per C6.312# - Sale Operation Restrictions (4/04): Operations in areas designated on the Sale Area Map will be restricted from April 1st to August 31st to protect wildlife resource.
16. Per C6.312# - Sale Operation Restrictions (4/04): Heavy equipment will not be operated outside of unit boundaries unless approved in writing by the Forest Service.
17. Per C6.411# - Felling and Bucking (Special Objectives) (11/98): In all cutting units, trees shall be felled insofar as safety permits to angle in the direction of skid.
18. Per C6.7# - Slash Treatment (4/03): In all units (except within 100 feet of NFSRs 801, 876 and fencelines), all included timber shall have tops and limbs cut from the stems prior to skidding. These tops and limbs shall be left in the cutting units where the timber is felled.
19. Per C6.7# - Slash Treatment (4/03): In all units (except within 100 feet of NFSRs 801, 876 and fencelines), logging slash shall be scattered away from and without unnecessary damage to residual trees. All scattered logs shall be limbed, placed away from trees and positioned so they will not roll. Other logging slash shall be scattered to reduce slash concentrations with slash being generally left within 24 inches of the ground and not in piles.
20. Per C6.7# - Slash Treatment (4/03): Within 100 feet of NFSR 801, 876 and fencelines (Units 1, 9, 10 and 13) purchaser shall move all logging slash created by Purchaser's Operations 2 inch large end diameter and 4 feet or more in length to locations at least 100 feet away from NFSRs 801, 876 and fencelines.
21. Per C6.7# - Slash Treatment (4/03): Tops and limbs which are lost on the way to the landing site due to normal felling, skidding, and/or yarding operations are not required to be yarded.
22. Per C6.7# - Slash Treatment (4/03): Along NFSRs 801.1G, 875, 875.1A, 876.1A and 876.1H purchaser shall dispose of all logging slash 6 inches large end diameter and 8 feet in length with is created within the clearing limits of system roads. Slash should be scattered to reduce slash concentrations and generally left within 24 inches of the ground and not in piles.

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D. Sale Administrator Notes

1. Wherever possible, landings, slash piles, temporary roads, and logging camps will be placed in forested (or formerly forested) areas instead of meadows, grasslands, or sagebrush openings to protect such openings from noxious weed infestation
2. To reduce livestock disturbance in Overstory Removal units, harvest will be limited to units or small groups of units in close proximity to each other, between June 20 and Oct. 15. **Restrictions will be coordinated with the District Range Conservationist.**
3. Options for erosion control and prevention include but are not limited to placement of slash and waterbars:

Recommended minimum waterbar spacing for roads and trails	
Grade of Road or Trail (%)	Unstable Soils or High Erosion Hazard
2	135 ft
5	100 ft
10	80 ft
15	60 ft
20	45 ft
25+	30 ft