TIMBER SALE REPORT AND TRANSACTION EVIDENCE APPRAISAL
(REFERENCE FSH 2409.22)

(FSM 24020 and 2490)	Ranger District: New Meadows
Sale Name: Thorny Goose	National Forest: Payette
Cruise Number: 20303	Compartment Numbers: 345 & 347

Signature	Title	Date
Prepared by: Stephanie Merrill	Forester	
Recommended by: Jeremy Greenwood	TMA	8-17-2020
Approved by: Erin Phelps	District Ranger	8/17/2020
SO Review by: Linda Jackson	Forest Supervisor	8/18/2020
RO Approved by:		

Zone Identification: ☐ 1 – Southwestern (TEA) ☒ 2 – Intermountain (TEA) ☐ 3 – Nevada (TEA)	**Type of Sale:** ☐ Stumpage Rate Adjustment ☒ Flat Rate ☐ Other _____
Appraisal Basic Data Period: C.Y. _____ Adjusted to 10-2019 Method of Bidding: ☒ Sealed ☐ Oral	**Type of Contract:** ☒ 2400-6 ☐ 2400-6T ☐ Other _____

Previous edition obsolete

A. FIELD EXAMINATIONS

1. Compartment Examination Completed: ☒ No ☐ Yes Date: / /
2. Environmental Analysis Report Approved: Date: / /
3. Silvicultural Prescription Prepared ☐
   Reviewed: ☒ In the Office ☐ On the Ground
   By: Charlie Munden

   Name | Date

   Type of Certification | Expiration Date

4. Environmental Quality Control:

   I hereby certify that this timber sale has been reviewed on the ground and that it has been prepared in accordance with the management requirements and constraints identified in the Environmental Analysis Report and specifically that (ref. FSH 2409.18, FSM 1909.15):

   a. Silvicultural treatments were prescribed or reviewed by a certified silviculturist and are appropriate to the management objective of the area.

   b. The descriptions of individual trees and cutting units represent proper application of the Silvicultural prescriptions.

   c. The selected logging system provides the most economical method of harvesting timber that will accomplish the desired results and produce a quality land management job.

   d. Measures prescribed for coordination with other resources and the protection of the visual appearance of the area have been included in the layout and in the contract where appropriate. The impact that timber harvesting and road construction will have on existing trails has been fully considered. Adverse effects have been avoided by careful sale layout. Special contractual provisions for trail restoration and trail relocation have been used as necessary.

   e. Measures prescribed for fire protection, erosion control, and other phases of environmental protection have been included in the layout and in the contract where appropriate.

   f. Presale planning has assured that appropriate standards and specifications have been included in this contract in order that all roads are constructed, maintained, and managed for their intended purpose and duration, considering safety, cost of transportation, and impacts on land and resources. Temporary roads to be constructed by the purchaser are not needed for post sale work or future management of the area. After a temporary road has served the purchaser's purpose, the purchaser shall remove bridges, culverts, and associated fills, eliminate ditches, outslope roadbed, remove ruts and berms, block the road to preclude further use, and other measures to attain stabilization and reestablishment of vegetative cover where the ground has been disturbed.

   District Ranger | Date

5. Is Sale Designated and Marketing Completed? ☒ Yes Date: 6 / 15 / 2020 ☐ No
   Explanation:

B. SALE AREA DESCRIPTION

1. Location

Sections	Township	Range	Meridian
13,14,22,23,24,26 &27	19N	2E	Boise

Drainage: Thorn Creek

Block:

Working Circle: Payette NF

2. Area and Ownership:

	Acres
a. National Forest within sale boundary	920
b. Other land ownerships within sale boundary	0
c. Area within sale boundary	393
d. Area to be cutover (including road right-of-way)	

3. Appraisal Point:

a. Timber from this sale is appraised to Grangeville, ID

b. Average log hauling distance is 109 miles.

4. Normal Operating Season:

a. Normal operating season is July / 15 to Oct / 1 Inclusive.

b. Reason for above season, if different from Manual guidelines, is:
See NEPA document Little Red Goose

5. Accessibility – Location with Respect to Markets. (Attach supplemental sheets if necessary.)
Accessable - Appraised to Grangeville, ID – closest full product mill.

6. Basis for Selecting Area. (Attach supplemental sheets if necessary.)
See NEPA document Little Red Goose

Sale Name:	Thorny Goose
Date:	7/29/2020

1.) Species Group Determination

Species	Net CF	% of Total	Spp Group
AF		0.00%	
DF	225,948	30.29%	DF/WL
ES	18,977	2.54%	GF/O
GF	424,975	56.98%	GF/O
LP	7,998	1.07%	LP
PP	57,566	7.72%	PP
WL	10,402	1.39%	DF/WL
Total	745,866		

2.) Weighted Averages (CCF/BF)

Weighted Averages CCF

SPP #204					
Species Group	Net CF	16' Logs/CCF	Number of Trees	Average DBH	Percent of Sale Volume
DF	225,948	8.9	5,311	17.5	32%
WL	10,402	21.5	1,401	9.8	
T/WTD.AV	236,350	9.5	6,712	15.9	

SPP #122					
Species Group	Net CF	16' Logs/CCF	Number of Trees	Average DBH	Percent of Sale Volume
PP	57,566	16	3,547	12.3	8%
T/WTD.AV	57,566	16.0	3,547	12.3	

SPP #017/Other					
Species Group	Net CF	16' Logs/CCF	Number of Trees	Average DBH	Percent of Sale Volume
GF	424,975	7.7	10,251	17.3	60%
ES	18,977	18.6	1,732	10.2	
AF					
T/WTD.AV	443,952	8.2	11,983	16.3	

SPP #108					
Species Group	Net CF	16' Logs/CCF	Number of Trees	Average DBH	Percent of Sale Volume
LP	7,998	9.9	217	14.4	1%
T/WTD.AV	7,998	9.9	217	14.4	

Total For Sale	
CF (Net)	745,866
CCF (Net)	7,459
MBF (Net)	4,055

Weighted Averages BF

SPP #204					
Species Group	Net BF	MBF/CCF Ratio	Tons*	MBF/Ton Ratio	CCF/Ton Ratio
DF	1,209,632	0.53327	6,445	0.1869	0.3505
WL	50,750		298		
T/WTD.AV	1,260,382		6,743		

SPP #122					
Species Group	Net BF	MBF/CCF Ratio	Tons*	MBF/Ton Ratio	CCF/Ton Ratio
PP	284,833	0.49479	1,770	0.1609	0.3252
T/WTD.AV	284,833		1,770		

SPP #017/Other					
Species Group	Net BF	MBF/CCF Ratio	Tons*	MBF/Ton Ratio	CCF/Ton Ratio
GF	2,373,419	0.55596	13,518	0.1762	0.3170
ES	94,766		489		
AF	0				
T/WTD.AV	2,468,185		14,007		

SPP #108					
Species Group	Net BF	MBF/CCF Ratio	Tons*	MBF/Ton Ratio	CCF/Ton Ratio
LP	41,727	0.52172	215	0.1941	0.3720
T/WTD.AV	41,727		215		

Overall MBF/CCF Ratio	Tons*	Sawlog Overall	
		MBF/Ton Ratio	CCF/Ton Ratio
0.5437	22,735	0.1784	0.3281

Chips Conversion**	
MBF/Ton Ratio	CCF/Ton Ratio
-	-

15. Haul
Thorny Goose

Road Identification	Road #	Traffic Surface Level Class (Use Caps)	Grade (+/- %)	Mileage*	Round Trip Travel Time (Min/Mile)	% Increase due to traffic***	Adjusted Round Trip Travel Time
Goose Lake	50257	B	-2	0.96	2.77	0	2.66
Fire Camp	50458	C	3	0.50	4.62	0	2.31
Thorn Creek	50478	C	-5	1.18	4.81	0	5.66
Tamgap	50809	C	2	1.54	4.62	0	7.12
Fire Goose	50812	D	-4	0.37	5.73	0	2.14
Deuce	51400	D	-4	0.39	5.73	0	2.22
Escape	51401	D	-5	1.00	5.73	0	5.72
Flush	51402	D	3	0.27	5.45	0	1.45
Heart	51404	D	-7	0.52	7.01	0	3.66
Vamp	51450	D	-3	0.24	5.45	0	1.33
Wanton	51451	D	6	0.18	7.47	0	1.31
Xylem	51452	C	-6	0.23	4.81	0	1.11
Full House	51891	D	2	0.44	5.45	0	2.39
504785000	504785000	E	-10	0.29	12.00	0	3.52
514022000	514022000	E	6	0.13	10.00	0	1.32
514022500	514022500	E	-2	0.24	9.23	0	2.20
Junction 50257 to Hwy 95	US55	B	-3	6.45	2.77	0	17.87
Junction w. Hwy 55 to 50074	US95	A	-1	11.00	2.29	0	25.19
Hwy 95 jct 50074 to Hazard Creek	US95	B	-2	4.00	2.77	0	11.08
Hwy 95 Hazard Creek to Pollock	US95	A	-1	10.50	2.29	0	24.05
Hwy 95 Pollock to Riggins	US95	B	-1	8.20	2.77	0	22.71
Hwy 95 Riggins	US95	B	1	2.00	2.94	0	5.88
Hwy 95 Riggins to Slate Creek	US95	A	-1	20.00	2.29	0	45.80
Hwy 95 Slate Creek to White Bird	US95	A	2	10.10	2.70	0	27.27
Hwy 95 White Bird to Summit	US95	A	7	8.00	6.40	0	51.20
Hwy 95 Summit to Base	US95	A	-4	2.00	2.91	0	5.82
Hwy 95 Base to Grangeville	US95	A	2	6.90	2.70	0	18.63
Hwy 95 Grangeville	US95	B	2	2.00	2.94	0	5.88
		Total Mileage One-Way		99.63		Total Travel Time	307.49

Species	16' Logs Per CCF	Net Sale Volume	Vol Per Load (CF)**	Hidden Defect^	# of Loads	Standby Time**	Total Standby
DF/WL	9.5	236,350	878	5.00%	270	66	17,916
GF/AF/ES	8.2	443,952	837	5.00%	531	62	32,788
PP	16.0	57,566	540	3.00%	107	6	692
LP	9.90	7,998	949	5.00%	9	73	656
	Total	745,866		Total	917		52,053

NET VOLUME/LOAD:
7,459 / 917 = 8.134 CCF/Load

AVERAGE STANDBY TIME:
52,053 / 917 = 56.765 Minutes

CALCULATION OF LOG HAUL COST PER CCF:

(from FS Handbook, 73.1-Exhibit 02)

a. Adjusted round-trip travel time in minutes	307.49	Min.
b. Average standby time in minutes/trip	56.76	Min./Trip
c. Total round-trip time (line a + line b)	364.25	Min.
d. Published $/CCF/minute	0.1964	$/CCF/minute
e. Line c x (published $/CCF/minute) =	$71.54	Sale Haul Cost/CCF

-
8. Haul A $71.54
-

Notes:

Road Maintenance Thorny Goose 8/4/2020 -Incl Wkg. 13

Modified Date & Why:

Blading	
Miles of road to be maintained during this project	10.83
Maximum # of loads before blading is required	250
Blading speed (mph)	1.50
Blading Cost/Hour	$130.00
# Loads Hauled/Day	8
# of Loads	917
# of Bladings	4
# Hours for One Blading	7.2
Total # Hours	28.8
Total Cost to Blade Roads	$3,744.00

Watering	
Approximate number of days to haul	115
Approximate percent of haul days watered	50%
Watering cost/hour	$71.08
Approximate number of hours/day spent watering	8
Total Watering Cost	$32,590.18

4,000 gallon truck waters 1.5 miles per load
@ 7 mph it takes 13/mins/load + 45mins to fill = 58 min/ load or 1 hour

Surface Replacement Cost:

Native Surface Roads ($/mile)	$0.14
Gravel Road ($/mile)	$0.27
Pavement ($/mile)	$0.17

Road #	Road name	Surface	Legal	Weighted Miles/Rd*		Cost/Mile		Weighted CCF		Total Cost	Cost/CCF per		Total Cost for full length per CCF
50458	Fire Camp	Gravel	T.19N R.2E S.23, S24	0.35	x	$ 0.27	x	7459	=	$714.31	$0.04	=	$0.02
50478	Thorn Creek	Native	T.19N R.2E S.14, 23	1.18	x	$ 0.14	x	1518	=	$249.92	$0.04	=	$0.05
50809	Tamgap	Native	T.19N R.2E S.22, 23	1.12	x	$ 0.14	x	4859	=	$765.04	$0.04	=	$0.05
50812	Fire Goose	Native	T.19N R.2E S.14, 23	0.35	x	$ 0.14	x	655	=	$32.21	$0.04	=	$0.02
51400	Deuce	Native	T.19N R.2E S.22	0.39	x	$ 0.14	x	856	=	$46.49	$0.04	=	$0.02
51401	Escape	Native	T.19N R.2E S.14, 22	1.00	x	$ 0.14	x	57	=	$7.96	$0.04	=	$0.04
51402	Flush	Native	T.19N R.2E S.23	0.27	x	$ 0.14	x	444	=	$16.56	$0.04	=	$0.01
51404	Heart	Native	T.19N R.2E S.14, 23	0.52	x	$ 0.14	x	778	=	$56.86	$0.04	=	$0.02
51450	Vamp	Native	T.19N R.2E S.22	0.24	x	$ 0.14	x	96	=	$3.27	$0.04	=	$0.01
51451	Wanton	Native	T.19N R.2E S.22	0.18	x	$ 0.14	x	173	=	$4.26	$0.04	=	$0.01
51452	Xylem	Native	T.19N R.2E S.23	0.01	x	$ 0.14	x	81	=	$0.11	$0.04	=	$0.00
51891	Full House	Native	T.19N R.2E S.23	0.44	x	$ 0.14	x	716	=	$44.04	$0.04	=	$0.02
			TOTAL	6.05						$1,941.00			

Notes: per J. Wright 8-3-2020 **50458** (new pit run placed from 0.41 to 0.58 miles which is 0.17 miles or 29% of road mileage so changed from 0.50 weighted miles to 0.35); **50809** (new pit run for 0.79 miles or 27% of road mileage so changed from 1.54 miles to 1.12 miles); **50812** (0.04 miles new PR or 6% so changed from 0.37 to 0.35); **51452** (0.22 miles new PR or 96%, so changed from 0.23 to 0.01)

Total Cost $1,941.00 / Total Sale Volume 7459 = **$0.26** Cost per CCF

$/CCF 0.26 / Total Miles 6.05 = $0.04

Costs are from Appraisal Handbook, Chapter 60, section 7732.22, and then converted to CCF using the conversion factor from the CCF Appraisal Handbook.

Maintain

Open Existing Roads

Road Number	Road Name	Total Miles	Brushing Yes/No	Brushing Cost ($)	Blading Yes/No	Blading Cost ($)	Waterbars #	Waterbars Cost ($)	Tank Trap #	Tank Trap Cost ($)	Drainage Cleaning Yes/No	Drainage Cleaning Cost	Notes
	-		Yes	$0.00	Yes	$0.00		$0.00		$0.00		$0.00	
	-		Yes	$0.00	Yes	$0.00		$0.00		$0.00		$0.00	
	-		Yes	$0.00	Yes	$0.00		$0.00		$0.00		$0.00	
Adjustments				$0.00				$0.00		$0.00			
			Subtotal	$0.00		$0.00		$0.00		$0.00		$0.00	
			Total	$0.00									

Cost Table

Activity		*$/Unit*	*Time Needed*	*Units*
Brushing		$300.00	N/A	Miles
Blading		$600.00	N/A	Miles
Waterbar (removal)		$72.80	0.5	Hours
Waterbar (install)		$72.80	0.5	Hours
Tank Trap (removal)		$72.80	1	Hours
Tank Trap (install)		$80.00	1	Hours
Drainage Cleaning		$14.83	0.25	Hours

One D-6 cat with operator will do 1 mile in 4 HR @ $58.63/ HR.

Aggregate Replacement

~~10 10CY loads of aggregate for replacing surface lost or damaged by decking and skidding on county road (only good landing locations~~

Units:				
CY	x	$45.08	=	$0.00

Closure of Existing Roads

Road Number	Road Name	Total Miles	Seeding Cost ($)/mile	Seeding Total	Tank Trap #	Tank Trap Cost ($)	Notes
51400	Deuce	0.74	996.23	$733.39	1	$80.00	installing earthen barrier at location specified by FS
51401	Escape	1.00	996.23	$994.32	1	$80.00	installing earthen barrier at location specified by FS
51402	Flush	0.35	996.23	$348.68	1	$80.00	installing earthen barrier at location specified by FS
51450	Vamp	0.24	996.23	$243.02	1	$80.00	installing earthen barrier at location specified by FS
51451	Wanton	0.18	996.23	$174.95	1	$80.00	installing earthen barrier at location specified by FS
51452	Xylem	0.23	996.23	$229.43	1	$80.00	installing earthen barrier at location specified by FS
51891	Full House	0.66	996.23	$656.61	1	$80.00	installing earthen barrier at location specified by FS
			Subtotal	$3,380.40	+	$560.00	
			Total Cost	**$3,940.40**			

9. Road Maintenance

Thorny Goose 8/13/2020

The purchaser will be required to maintain 10.83 miles of road during the contract period.
Maintenance will consist of: Blading, shaping, dust control and culvert cleaning. See Attached.
(5.4)
Explanation:
Labor is for Cleaning Culverts and ditches

Description	Total Hours	Cost per Hour	Estimated Total Cost
Patrol w/Operator	28.80	$130.00	$3,744.00
Water Truck	458.50	$71.08	$32,590.18
Laborers (culvert cleaning)	20.0	$14.83	$296.60
Other			
C5.31#			
Opening Existing Roads	–	–	$0.00
Closure of Existing Roads	–	–	$3,940.40
		Total Maintenance:	$40,571.18

Cost per CCF = $\frac{\text{Total Cost}}{\text{Total Net Volume (CCF)}}$ = $\frac{\$40,571.18}{7459}$ = $5.44 /CCF

Surface Replacement Cost (from Engineer's Estimate) = $0.26 / CCF

Total Road Maintenance Cost = $5.70 / CCF

9. Road Maintenance	A	**$5.70**

Temporary Road Cost Estimation

Thorny Goose 8/13/2020

Construction			
Temp Road Id.	**504785000**	**514022000**	**514022500**
Existing/New(NEPA/other)	Existing	Existing	Existing
Unit(s)	52	56	56
Approximate Grade (%)	10%	6%	2%
Side Slope (%)	25%	40%	50%
R/W Vol/Ac (MBF)	0	0	0
Clearing ($/mile)	$4,543.79	$4,543.79	$4,543.79
Excavation ($/mile)	$2,757.86	$2,757.86	$2,757.86
J-Hole ($/one)	$100.00		$100.00
Brushing			
Blading			
Waterbars (#)			
($)			
Tank Traps (#)	0	0	0
($)			
Seeding[1] ($/mile)	$996.23	$996.23	$996.23
Length (Miles)	0.39	0.13	0.24
Subtotal Cost ($)[2]	$3,326.50	$1,093.81	$2,077.03
Cost Adjustment	$1,419.56	$481.25	$869.84
Total Cost ($)	$1,906.93	$612.57	$1,207.20
Notes	50% reduction in clearing & excavation (existing prism)	50% reduction in clearing & excavation (existing prism)	50% reduction in clearing & excavation (existing prism)
[1]12 feet without ditch			

Drainage			
Drainage Structures	Ind. Cost ($)	# Needed	Cost ($)
Dips	$152.00		$0.00
Rocking Seeps	$216.60		$0.00
18" Culvert	$666.60		$0.00
24" Culvert			$4,483.04
	Total Drainage Cost		$4,483.04

Costing from Maintenance Spreadsheet		
Brushing	$300.00	/mile
Blading	$600.00	/mile
Waterbar (removal)	$72.80	/each
Waterbar (install)	$72.80	/each
Tank Trap (removal)	$72.80	/each
Tank Trap (install)	$80.00	/each

Total Temp Road Cost			
Construction	$3,726.70		
Road Closure	$3,035.64	$4,000.00	/mile
Road Closure (oblit)	-	$8,000.00	/mile
Drainage	$4,483.04		
Subtotal Cost	$11,245.37		
Mobilization	$787.18	7%	Idaho Rate
Total Cost	$12,032.55		
Profit Allowance Removal	1.06		
Total Temp Road Calc.	$11,350.00	$1.52	$/CCF

Skid Trail/Landing Rehab Cost-includes seeding			
Rehab ($2.15/ton)	$48,880.25	$6.55	$/CCF

Total Allowance	**$8.08**

A. Maximum Amount of Purchaser's Obligation per Operations Fire.

Project: Thorny Goose
Date: 8/13/2020

Firefighter Cost		
Semi-Skilled Firefighter Wage Rate	$12.44	per hour
Overtime Rate	$18.66	per hour
# Hours Per Day	12	
Firefighter Cost	$174.16	per day
Firefighter Cost	$14.51	per hour

Number of Shifts	5
Cost/Crew/Shift	$870.80

Size of Woods Crew Required:		
Net Sale Volume (CCF)	7459	
Number Months in Sale	9	
Average Monthly Production (CCF)	829	
Average Monthly Production (CCF)	50	per person
Size of Woods Crew Needed	17	

Liability Obligation Per Fire	
Woods Crew Size	17
Cost/Crew/Shift	$2,960.72
Total Liability/Fire	$14,803.60
Total Liability/Fire Rounded Up	**$14,900.00**

Skidding Distance Calculation Spreadsheet

Thorny Goose 11/20/2019

Unit/Road	Volume (CCF)	% Vol by Harvest System	Harvesting Sytem	Majority Log Sys.	AYD Factor	AYD (feet)	Weighted AYD (feet)	Weighted EYD (feet)	Estimated Skid/Yard Distances A	B	C	Avg	EYD	Notes
51	702.21	0.15	T/ORJ/J	T	0.667	350	51.93	110.2562	742	255	575	524	742	
52	664.26	0.14	T	T	0.667	634	89.07	196.7878	1400	800	650	950	1400	
53	189.79	0.09	ORJ/T	ORJ	0.667	526	45.31	103.4494	1200	784	380	788	1200	
54	113.87	0.02	T	T	0.667	358	8.63	18.55377	770	600	240	537	770	
55	607.32	0.28	ORJ/J/T	ORJ	0.667	705	194.43	386.206	1400	1100	670	1057	1400	
56	929.96	0.20	T/J/ORJ	T	0.667	522	102.82	196.7869	1000	750	600	783	1000	
57	189.79	0.36	J/T	J	0.667	593	211.77	428.573	1200	722	745	889	1200	
58	56.94	0.11	J/ORJ	J	0.667	221	23.70	50.35999	470	300	225	332	470	
59	379.58	0.08	T/ORJ	T	0.667	289	23.18	51.40618	640	443	215	433	640	
60	94.89	0.18	J	J	0.667	345	61.65	113.0302	633	500	420	518	633	
61	170.81	0.04	T/ORJ	T	0.667	308	11.12	25.30133	700	414	270	461	700	
62	721.19	0.33	ORJ/T/J	ORJ	0.500	428	140.32	458.6181	1400	750	420	857	1400	
63	75.92	0.02	T/ORJ	T	0.500	158	2.54	7.55068	470	260	220	317	470	
64	683.24	0.31	ORJ/T/J	ORJ	0.667	678	210.45	496.5542	1600	1100	350	1017	1600	
65	56.94	0.01	T/ORJ	T	0.500	325	3.92	11.567	960	560	430	650	960	
66	56.94	0.11	J	J	0.667	300	32.11	72.86126	680	308	360	449	680	
67	740.17	0.16	T/ORJ/J	T	0.667	711	111.43	281.9266	1800	1000	400	1067	1800	
68	132.85	0.25	J	J	0.667	318	79.48	197.4963	790	380	260	477	790	
69	740.17	0.16	T/ORJ/J	T	0.500	410	64.22	216.1437	1380	700	380	820	1380	
70	151.83	0.03	T/ORJ	T	0.667	585	18.79	33.73486	1050	910	670	877	1050	
Total	7458.67													

System	Total Volume (CCF)	%	AYD	EYD
Tractor	4726	63.36%	488	1150
ORJ	2202	29.52%	591	1445
Cable	0	0.00%	0	0
J	531	7.12%	409	862
GB Combo	**7459**	**100.00%**		
Skyline	0	0.00%		
Helicopter	0	0.00%		
Total	7459	100.00%		

Groundbased: Avg Yarding Distance (feet)	512
Skyline: Avg Yarding Distance (feet)	0
Helicopter: Avg Yarding Distance (feet)	0

AYD	AYD Factor
Rectangular Setting	0.500
Fan w. common landing	0.667
Fan w. common anchor	0.333

AYD =Average Yarding Distance
EYD = External Yarding Distance

Contract Road Maintenance Requirements Summary

Sale Name: Thorny Goose Date: 12-Aug-20

Road Number	Road Name	Termini		Miles	Applicable Prehaul Road Maintenance Specifications										
		From	To		801 Slide & Slump Repair	802 Ditch cleaning	803 Surface blading	804 Surfacing repair	805 Drainage structures	806 Dust Abatement	807 Roadway Vegetation	808 Misc. Structures	809 Waterbars	810 Barriers	811 Surface Treatment
50458	Fire Camp	0	0.58	0.58	P	P	P	P	P		P	P	P		
50478	Thorn Creek	0	1.79	1.79	P	P	P	P	P		P		P		
50809	Tamgap	0	2.9	2.90	P	P	P	P	P		P		P		
50812	Fire Goose	0	0.69	0.69	P	P	P	P	P		P	P	P		
51400	Deuce	0	0.74	0.74	P	P	P	P	P		P		P		
51401	Escape	0	1	1.00	P	P	P	P	P		P		P		
51402	Flush	0	0.35	0.35	P	P	P	P	P		P		P	P	
51404	Heart	0	0.73	0.73	P	P	P	P	P		P		P	P	
51450	Vamp	0	0.24	0.24	P	P	P	P	P		P		P		
51451	Wanton	0	0.18	0.18	P	P	P	P	P		P		P		
51452	Xylem	0	0.23	0.23	P	P	P	P	P		P		P		
51891	Full House	0	0.66	0.66	P	P	P	P	P		P		P	P	

P= Purchaser Performance D=Deposit to Forest Service D3=Deposit to Third Party

Road Number	Road Name	Termini		Miles	Applicable During Haul Road Maintenance Specifications										
		From	To		801	802	803	804	805	806	807	808	809	810	811
50458	Fire Camp	0	0.58	0.58	P	P	P	D	P	P	P	P			
50478	Thorn Creek	0	1.79	1.79	P	P	P	D	P	P	P				
50809	Tamgap	0	2.90	2.90	P	P	P	D	P	P	P				
50812	Fire Goose	0	0.69	0.69	P	P	P	D	P	P	P	P			
51400	Deuce	0	0.74	0.74	P	P	P	D	P	P	P				
51401	Escape	0	1.00	1.00	P	P	P	D	P	P	P				
51402	Flush	0	0.35	0.35	P	P	P	D	P	P	P				
51404	Heart	0	0.73	0.73	P	P	P	D	P	P	P	P			
51450	Vamp	0	0.24	0.24	P	P	P	D	P	P	P				
51451	Wanton	0	0.18	0.18	P	P	P	D	P	P	P				
51452	Xylem	0	0.23	0.23	P	P	P	D	P	P	P				
51891	Full House	0	0.66	0.66	P	P	P	D	P	P	P				

P= Purchaser Performance D=Deposit to Forest Service D3=Deposit to Third Party

Road Number	Road Name	Termini		Miles	Applicable Post Haul Road Maintenance Specifications										
		From	To		801	802	803	804	805	806	807	808	809	810	811
50458	Fire Camp	0	0.58	0.58	P	P	P	P	P			P			
50478	Thorn Creek	0	1.79	1.79	P	P	P	P	P						
50809	Tamgap	0	2.90	2.90	P	P	P	P	P						
50812	Fire Goose	0	0.69	0.69	P	P	P	P	P			P			
51400	Deuce	0	0.74	0.74	P	P	P	P	P				P	P	
51401	Escape	0	1.00	1.00	P	P	P	P	P				P	P	
51402	Flush	0	0.35	0.35	P	P	P	P	P				P	P	
51404	Heart	0	0.73	0.73	P	P	P	P	P			P			
51450	Vamp	0	0.24	0.24	P	P	P	P	P				P	P	
51451	Wanton	0	0.18	0.18	P	P	P	P	P				P	P	
51452	Xylem	0	0.23	0.23	P	P	P	P	P				P	P	
51891	Full House	0	0.66	0.66	P	P	P	P	P				P	P	

P= Purchaser Performance D=Deposit to Forest Service D3=Deposit to Third Party

Percent Tons Removed Calculator for Appraisals					
Sale Name	Thorny Goose				
Species	**Total Def % (from cruise)**	**[1] Forest Avg Scaling Defect**	**Calculated Woods Defect**	**Final Woods Defect**	**Percent Tons Removed**
AF		6.05%	-6.05%	4.00%	**96.00%**
DF	**9.70%**	8.14%	1.56%	4.00%	**96.00%**
ES	**4.90%**	4.92%	-0.02%	4.00%	**96.00%**
GF	**12.00%**	6.58%	5.42%	5.42%	**94.58%**
LP	**8.70%**	7.25%	1.45%	4.00%	**96.00%**
PP	**6.60%**	5.79%	0.81%	4.00%	**96.00%**
WL	**13.10%**	5.89%	7.21%	7.21%	**92.79%**

[1]Payette NF Average Scaling Defects by species as of 5/2/2013

(species defect % which is taken from R402 cruise report) – Forest Avg Scaled Defect = Woods Defect (min. 4%)

If using this formula produces a % Woods Defect greater than 4%, use it. If it is less than 4%, default to 4%.

100% - woods defect % = % removed

Instructions:

Fill in species "Total Def %" from cruise report R402.

Calculated Woods Defect, Final Woods Defect and Percent Tons Removed will auto-populate.

Insert the values from "Percent Tons Removed" column into Tons.SPD.XLS spreadsheet on the "Total TONS Removed" tab or in Cruise Processing/Equation Numbers/Weight Equations .

Sale Name: Thorny Goose

Date: July 21, 2020

(rev. 07/29/19)

Cruise Species		Total Gross Cubic Foot Volume	Pounds per Gross Cubic Foot (xx.xx)	Total Pounds Standing	Percent Tons Removed (0.xx)	Total Pounds Removed	Total Tons Removed	Combine into a Contract Group??
Species Code	Species Name							
A	B	C	D	C x D = E	F	E X F = G	G / 2000 lbs.	Yes = 1 No = 2
	Subalpine fir				96.00%			
204	Douglas-fir	250,240	53.66	13,427,878	96.00%	12,890,763	6,445	1a
093	Engelmann spruce	19,945	51.04	1,017,993	96.00%	977,273	489	1
017	Grand fir	482,866	59.20	28,585,667	94.58%	27,036,324	13,518	1
	Lodgepole pine	8,758	51.04	447,008	96.00%	429,128	215	2
122	Ponderosa Pine	61,634	59.84	3,688,179	96.00%	3,540,651	1,770	2
	Western Larch	11,967	53.66	642,149	92.79%	595,850	298	1a
	Totals	835,410		47,808,875		45,469,990	22,735	
						Lb/Gross CF		57.23

Contract Species:	**Douglas-Fir - Western Larch**	**6,743 Tons**
Contract Species:	**Grand fir - Other**	**14,007 Tons**
Contract Species:	**Ponderosa Pine**	**1,770 Tons**
Contract Species:	**Lodgepole pine**	**215 Tons**
	Total Tons Removed - A2 Volume	**22,735 Tons**

INSTRUCTIONS FOR USI

Conversion of CCF to TONS, for use in TIM when TONS is the Unit of Measure in A2

Net TONS to CCF Conversion Factor for use

0.3281

Forest:	Payette	Sale Name:	Thorny Goose
District:	New Meadows	Date:	August 13, 2020

Volume or Rate Category	Appraisal Species or Groups from Appraisal Summary							Total or Weighted Average
	DF/WL	PP	LP	GF/O				
NET CCF Vol.	2,363	576	80	4,440				7,459
Total TONS Rem.	6,743	1,770	215	14,007				22,735
CCF Advertised Rate	45.82	39.82	45.25	71.69				60.75
TONS Advertised Rate	16.06	12.96	16.84	22.72				19.93

Convert BD and Rd Mtn Deposits to TONS

LOAD THE CONVERTED TEA.TIM FILE INTO TIM, OR direct enter FOR ALL SPECIES AND PRODUCTS the following data into the "Display/Enter Appraisal Results (ADVR109)" screen in TIM:

Ind. Adv Rates	Base Rates	Advertised Rates	Fixed Rates (N or Y)	Specified Road Cost	Escalation Type	TSA Index Code	TSA Species	Base Index	Timber Prpty Rate	Rollback Rate
			N		Flat				0.00	0.00

INSTRUCTIONS FOR USE **(see cell comments for more information)**

1. Fill out header information, Forest, District, Sale Name, Date.
2. Click on the "Load TEA.TIM File" button to load the tea.tim file for the sale. The file needs to be on the "L" drive to load, not in a file on the "L" drive.
3. Enter NET CCF volume from line 4 on the Appraisal Summary.
4. Enter Total Tons Removed by species and products from data in NATCRS.
5. Click on the "Create New TEA.TIM File" button to create the "TONS" tea.tim file. This loads to the users' "L" drive. Copy the file to the location on the "J" drive, or other default location, for loading into TIM.
6. LOAD THE CONVERTED TEA.TIM FILE INTO TIM, OR direct enter FOR ALL SPECIES AND PRODUCTS the converted data from the table into the "Display/Enter Appraisal Results (ADVR109)" screen in TIM.
7. Print screen for documentation and place in sale folder.

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Conversion Factor

Total TONS Removed / Total Net CCF Volume = Conversion Factor (x.xxxx format)

VOLUME CONVERSION

CCF to TONS: Total NET CCF volume X Conversion Factor = # of TONS

TONS to CCF: Total TONS Removed / Conversion Factor = CCF NET Volume

RATE OR COST CONVERSION

$/CCF to $/TONS: $/CCF / Conversion Factor = $/TON Cost or Rate

$/TON to $/CCF: $/TON X Conversion Factor = $/CCF Cost or Rate

Conversion of DEPOSITS from $/CCF to $/TON

$/CCF Rate / Conversion Factor = $/TON Rate

Brush Disposal Rate $/CCF:	$0.45	Brush Disposal Rate $/TON:	$0.15
Road Mtn Rate $/CCF:	$5.70	Road Mtn Rate $/TON:	$1.87
Surface replacement $/CCF:	$0.26	Surface Replacement $/TON:	$0.09
Specified Road Cost	$20.47	Specified Road Cost $/TON:	$6.72
Base Rate Chips $/CCF:	$1.00	Base Rate $/TON:	$0.33
Base Rate $/CCF:	$33.37	Base Rate $/TON:	$10.95

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Request for Unusual Adjustment

CCF 7,459

1. Deck Firewood

Assumptions

>20 seconds per tree to process and deck tops for firewood

>Cruise report R402 for trees/acre and reduced it by 30% for tops that are too small to process or broken during felling, skidding and/or processing.

>Only DF/ES/LP/WL used for firewood

>Landings on open MVUM roads

>Cost of processor $145/hr to process and cut tops at ~4" and loader to deck the processed tops in a separate deck. (Costs came from an average of 2 local loggers who use processors, Gerry Ikola and Kim Helmich in 12/10/15).

>Processing cost inflated to June 2019 using http://www.bls.gov/data/inflation_calculator.htm

Stems	
Acres	226
TPA	57.20
% processed	70.00%
Trees	9049.04

Processing	
Trees	9049
Processing time (mins/tree)	0.33
Processing (mins)	2986.17
Processing (hours)	50.00

Costing	
Hours	50.00
Cost/hr	$158.04
Total Cost	$7,902.00
Cost/CCF	$1.06

Total Unusual Adjustment Requested	
Deck Firewood	$1.06
Total	$1.06

2400-17 Summary - Transaction Evidence (CCF)

Run Date: 13-Aug-2020
& Time: 17:42:16

Region: 04
Summary Checked By: Debbie Ellis
Forest: Payette
Checked Date: 8/4/2020
Sale Name: Thorny Goose
STARS Id:
Sale Id: 04120330342020
Spec Rd Const (mi): 0.0
Spec Rd Reconst (mi): 11.0
Road Cost: 152659
(01-03)Appraised to: Grangeville, ID
Haul mi: 100 RTM: 364
Essential KV: 247023
Ground Base Vol: 7459
Sky/Ground Lead Vol: 0
Aerial Vol: 0
Grnd Base Skid Cost: 63.43
Sky/Grnd Lead Yard Cost: 0.00
Aerial Yard Cost: 0.00
CCF/Acre (Grnd/Base): 19.0
Roads in Place: N
Sale Wt.Avg. Skid-Yard Cost 63.43
CF/Tree(Grnd/Base): 33
CIPP SVLS (Zone 1): 1.00
Skid Dist (Grnd/Base): 512
CIPP OverRun Factor (Zone 1): 1.00

1	Product/Unit	01-03	01-03	01-03	01-03		Total or Avg *		
2	Species Group	GF	LP	PP	DF				
3	Species Code	017	108	122	204				
4	% By Species	60.00	1.00	8.00	32.00	T	100.00		
5	Volume(CCF)	4440	80	576	2363	T	7459		
6	DBH (Inches)	16.3	14.4	12.3	15.9	A	15.8		
7	Base Period Price (BPP)	120.57	50.16	66.74	87.44	A	105.16		
8	Market Adjustment	-27.48	-27.35	-18.63	-25.90	A	-26.30		
9	Adj BPP (7+8)	93.09	22.81	48.11	61.54	A	78.87		
10	Base Skid-Yard Cost	63.21	83.24	72.28	65.71	A	64.92		
11	Sale Skid-Yard Cost	63.43	63.43	63.43	63.43	A	63.43		
12	Skid/Yard Cost Adj (10-11)	-0.22	19.81	8.85	2.28	A	1.49		
13	Base Haul Cost	74.93	91.39	84.78	78.05	A	76.86		
14	Sale Haul Cost	71.54	71.54	71.54	71.54	A	71.54		
15	Haul Cost Adj (13-14)	3.39	19.85	13.24	6.51	A	5.32		
16	Base Road Maint Cost	10.34	11.10	5.28	9.18	A	9.59		
17	Sale Road Maint Cost	5.70	5.70	5.70	5.70	A	5.70		
18	Road Maint Cost Adj (16-17)	4.64	5.40	-0.42	3.48	A	3.89		
19	Base Slash Cost	1.88	3.51	0.60	1.66	A	1.73		
20	Sale Slash Cost	0.45	0.45	0.45	0.45	A	0.45		
21	Sale Slash Adj (19-20)	1.43	3.06	0.15	1.21	A	1.28		
22	Base Temporary Road Cost	8.28	6.21	3.31	6.56	A	7.33		
23	Sale Temporary Road Cost	8.08	8.08	8.08	8.08	A	8.08		
24	Temp Road Cost Adj (22-23)	0.20	-1.87	-4.77	-1.52	A	-0.75		
25	Qual Adjustment (CIPP)	0.00	0.00	1.00	0.00	A	0.08		
26	Unusual Adjustment	-1.06	-1.06	-1.06	-1.06	A	-1.06		
27	Total Adjustment (Sum:12,15,18,21,24,25,26)	8.38	45.19	16.99	10.90	A	10.24		
28	Predicted Bid (9 + 27)	101.47	68.00	65.10	72.44	A	89.11		
29	Competition Amount	9.31	2.28	4.81	6.15	A	7.89		
30	Ind Adv Rates (28-29-34+36)	71.69	45.25	39.82	45.82	A	60.75	TV	453132.60
31	Base Rates + TPV (31+36)	33.37	33.37	33.37	33.37	A	33.37		
32	Adjustment to Base Rates	0.00	0.00	0.00	0.00	A	0.00		
33	Advertised Rates (30+32)	71.69	45.25	39.82	45.82	A	60.75	TV	453132.60
34	Sale Specified Road Cost	20.47	20.47	20.47	20.47	A	20.47		
35	Base Indices (APR 20)	228.27	206.03	238.99	253.91				
36	Timber Property Value	0.00	0.00	0.00	0.00	A	0.00		
	MBF/CCF ratio:	0.55596	0.52172	0.49479	0.53327		0.54368		
	TSA Table:	WWPAD	WWPAC	WWPAB	WWPAC				
	Deficit Sale Increased:	0.00							

* Standard rate products are included in the total or weighted avg.

MBF = Thousands of Board Feet CCF = Hundreds of Cubic Feet

Bulletin: R4 Z1#05 (MAY) 2020 rev1

Rev.: 14-Apr-2015 Forest

2400-17 Summary - Transaction Evidence (MBF)

Run Date: 13-Aug-2020
& Time: 17:42:18

Region: 04
Forest: Payette
Sale Name: Thorny Goose

Summary Checked By: Debbie Ellis
Checked Date: 8/4/2020
STARS Id:
Sale Id: 04120330342020

Spec Rd Const (mi):	0.0	Spec Rd Reconst (mi):	11.0	Road Cost:	152659
(01-01)Appraised to: Grangeville, ID		Haul mi: 100 RTM: 364		Essential KV:	247023
Ground Base Vol:	4055	Sky/Ground Lead Vol:	0	Aerial Vol:	0
Grnd Base Skid Cost:	116.67	Sky/Grnd Lead Yard Cost:	0.00	Aerial Yard Cost:	0.00
MBF/Acre (Grnd/Base):	10.3	Roads in Place: N		Sale Wt.Avg. Skid-Yard Cost	116.67
BF/Tree(Grnd/Base):	179			CIPP SVLS (Zone 1):	0.00
Skid Dist (Grnd/Base):	512			CIPP OverRun Factor (Zone 1):	0.00

1	Product/Unit	01-01	01-01	01-01	01-01		Total or Avg *	
2	Species Group	GF	LP	PP	DF			
3	Species Code	017	108	122	204			
4	% By Species	60.00	1.00	8.00	32.00	T	100.00	
5	Volume(MBF)	2468	42	285	1260	T	4055	
6	DBH (Inches)	16.3	14.4	12.3	15.9	A	15.8	
7	Base Period Price (BPP)	216.87	96.14	134.89	163.97	A	193.42	
8	Market Adjustment	-49.43	-52.42	-37.65	-48.57	A	-48.37	
9	Adj BPP (7+8)	167.44	43.72	97.23	115.40	A	145.07	
10	Base Skid-Yard Cost	113.70	159.55	146.08	123.22	A	119.41	
11	Sale Skid-Yard Cost	114.09	121.58	128.20	118.95	A	116.67	
12	Skid/Yard Cost Adj (10-11)	-0.40	37.97	17.89	4.28	A	2.74	
13	Base Haul Cost	134.78	175.17	171.35	146.36	A	141.37	
14	Sale Haul Cost	128.68	137.12	144.59	134.15	A	131.58	
15	Haul Cost Adj (13-14)	6.10	38.05	26.76	12.21	A	9.79	
16	Base Road Maint Cost	18.60	21.28	10.67	17.21	A	17.64	
17	Sale Road Maint Cost	10.25	10.93	11.52	10.69	A	10.48	
18	Road Maint Cost Adj (16-17)	8.35	10.35	-0.85	6.53	A	7.15	
19	Base Slash Cost	3.38	6.73	1.21	3.11	A	3.18	
20	Sale Slash Cost	0.81	0.86	0.91	0.84	A	0.83	
21	Sale Slash Adj (19-20)	2.57	5.87	0.30	2.27	A	2.35	
22	Base Temporary Road Cost	14.89	11.90	6.69	12.30	A	13.48	
23	Sale Temporary Road Cost	14.53	15.49	16.33	15.15	A	14.86	
24	Temp Road Cost Adj (22-23)	0.36	-3.58	-9.64	-2.85	A	-1.38	
25	Qual Adjustment (CIPP)	0.00	0.00	2.02	0.00	A	0.15	
26	Unusual Adjustment	-1.91	-2.03	-2.14	-1.99	A	-1.95	
27	Total Adjustment (Sum:12,15,18,21,24,25,26)	15.07	86.62	34.34	20.44	A	18.83	
28	Predicted Bid (9 + 27)	182.51	130.34	131.57	135.84	A	163.90	
29	Competition Amount	16.75	4.37	9.72	11.53	A	14.51	
30	Ind Adv Rates (28-29-34+36)	128.95	86.73	80.48	85.92	A	111.74	TV 453132.60
31	Base Rates + TPV (31+36)	60.02	63.96	67.44	62.58	A	61.38	
32	Adjustment to Base Rates	0.00	0.00	0.00	0.00	A	0.00	
33	Advertised Rates (30+32)	128.95	86.73	80.48	85.92	A	111.74	TV 453132.60
34	Sale Specified Road Cost	36.82	39.24	41.37	38.39	A	37.65	
35	Base Indices (APR 20)	397.00	392.43	503.14	483.64			
36	Timber Property Value	0.00	0.00	0.00	0.00	A	0.00	
	MBF/CCF ratio:	0.55596	0.52172	0.49479	0.53327		0.54368	
	TSA Table:							
	Deficit Sale Increased:	0.00						

* Standard rate products are included in the total or weighted avg.

MBF = Thousands of Board Feet CCF = Hundreds of Cubic Feet

Bulletin: R4 Z1#05 (MAY) 2020 rev1 Rev.: 14-Apr-2015 Forest