

**2013 Forney Cattle & Horse Allotment's
Annual Monitoring Report
for the
US Fish and Wildlife Service's 6/19/2012 Biological Opinion
(File # 114.0700, 14420-2012-F-0269)**

Annual Monitoring Report Form for Actions covered under the Service's Biological Opinion for Grazing on Allotments Managed by the Salmon Challis National Forest.

Please submit annually by March 1 to the Supervisor of the Service's Eastern Idaho Field Office, 4425 Burley Dr., Suite A, Chubbuck, Idaho 83202; telephone (208)237-6975. Please include name and contact information in case additional information is needed.

1. What was the name of the stream in this allotment surveyed for impacted redds?

Moyer Creek, Musgrove Creek and Panther Creek (See attached 2013 bull trout redd surveys).

2. What was the date of the survey, and what were the water conditions?

The survey dates were 9/16/2013, 9/19/2013, 10/23/2013 and 10/30/2013. Each day's redd surveys had water conditions that were normal and clear. See attached bull trout redd surveys.

3. Which stream segment was surveyed and how many redds and impacted redds were found? (Please give GPS start and stop points for segments)?

There were no bull trout redd observed and therefore no bull trout redds were impacted during all six bull trout redd surveys. See attached bull trout redd surveys.

Panther Creek (9/16/2013):

The GPS UTM starting location was Zone 11T, Easting 0708495, Northing 4982447.

The GPS UTM stopping location was Zone 11T, Easting 0709012, Northing 4984759.

Musgrove Creek (9/16/2013):

The GPS UTM starting location was Zone 11T, Easting 0711651, Northing 4988891.

The GPS UTM stopping location was Zone 11T, Easting 0710801, Northing 4988792

Moyer Creek (9/19/2013):

The GPS UTM starting location was Zone 11T, Easting 0712944, Northing 4987398.
The GPS UTM stopping location was Zone 11T, Easting 0712369, Northing 4988229

Moyer Creek (10/23/2013):

The GPS UTM starting location was Zone 11T, Easting 0711772, Northing 4989218.
The GPS UTM stopping location was Zone 11T, Easting 0713461, Northing 4981954

Musgrove Creek (10/23/2013):

The GPS UTM starting location was Zone 11T, Easting 0711635, Northing 4988888.
The GPS UTM stopping location was Zone 11T, Easting 0710816, Northing 4988801

Panther Creek (10/30/2013):

The GPS UTM starting location was Zone 11T, Easting 0708501, Northing 4982435.
The GPS UTM stopping location was Zone 11T, Easting 0709068, Northing 4984758

4. What was the date that livestock removed from the pasture with surveyed stream segment?

Livestock were removed from the East Side Unit on 10/30/2013. See attached Forney C&H Allotment's 2013 End of the Year Report.

5. Did this number exceed the scale anticipated in section VII of the Biological Opinion?

NO

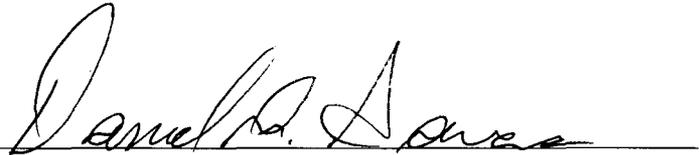
6. Were there any changes to the grazing management that differed from the proposed grazing management in the Forest's Biological Assessment? If yes, what were they?

An adjustment was made to the unit schedule September 12 due to the number of spawning Chinook salmon verbally identified by David Evans of the Shoshone Bannock tribe. It was determined that the Holding pasture could not be used for weaning activities or gathering at the end of the grazing season. The most easterly upland of the Holding Pasture was used as an active trail through route to access the private land for weaning and gathering. Forest Service personnel were on the allotment during weaning operations to observe the trailing activity. See attached Forney C&H Allotment's 2013 End of the Year Report.

7. Were there any unexpected circumstances or events that resulted in impacts beyond those anticipated in the Forest's Biological Assessment or the Service's Biological Opinion? If yes, please describe.

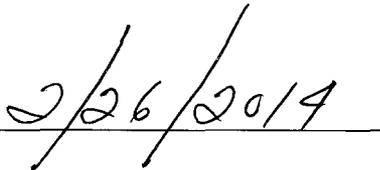
There were no unexpected circumstances or events that resulted in impacts beyond what the forest anticipated in the 2012 Biological Assessment. See attached Forney C&H Allotment's 2013 End of the Year Report.

Salmon-Challis National Forest Official:



Daniel A. Garcia
Salmon-Challis National Forest
North Zone District Fishery Biologist

Date:



Contact Information:

Salmon/Cobalt Ranger District, 311 McPherson St South, Salmon, ID 83467

(208) 756-5237 or dgarcia@fs.fed.us

The attached Forney C&H Allotment's 2013 End of the Year Report prepared by:
Ingrid Drieling – Range Land Management Specialist
(Leadore Ranger District) (208) 768-2516 or idrieling@fs.fed.us

Results of the Range Allotment's implementation and effectiveness monitoring will be available at the following website: <http://www.fs.fed.us/r4/sc/projects/range/index.html>.

The attached Musgrove Creek, Moyer Creek and Panther Creek 2013 bull trout redd surveys were reviewed and finalized by: Daniel A. Garcia - North Zone District Fishery Biologist (Salmon/Cobalt Ranger District)

FORNEY C&H ALLOTMENT

2013 END OF YEAR REPORT

Salmon/Cobalt Ranger District

North Zone Salmon-Challis National Forest

MANAGEMENT

Permittee	Term Grazing Permit			2013 Authorized Use			Actual Use		
	Numbers	HM	Season of Use	Numbers	HM	Season of Use	Numbers	HM	Season of Use
Clay Jones	134	670	6/1-10/30	134	670	6/1-10/30	134	648	6/5-10/29
Kathleen Latimer	132	660	6/1-10/30	Non-use	Non-use	Non-use			
*Jack Whitworth	132	660	6/1-10/30	132	660	6/1-10/30	132	647	6/4-10/30

*Filling behind personal convenience non-use taken by Kathleen Latimer.

Unit Schedule

An adjustment was made to the unit schedule September 12 due to the number of spawning Chinook salmon verbally identified by David Evans of the Shoshone Bannock tribe. It was determined that the Holding pasture could not be used for weaning activities or gathering at the end of the grazing season. The most easterly upland of the Holding Pasture was used as an active trail through route to access the private land for weaning and gathering. Forest Service personnel were on the allotment during weaning operations to observe the trailing activity.

Unit	Numbers	Authorized Season of Use	Actual Season of Use	Head Months
West Side	266	6/1-7/1	6/4-7/1	245
East Side	266	7/2-10/30*	7/1-10/30	1067
Holding Pasture		Trailing	Trailing	

Compliance with Unit Schedule in AOI:

Allotment inspections: Allotment inspections were conducted on the following dates:5/23-5/31; 7/8-7/11; 7/15-7/18; 8/6-8/8;8/26-8/29;9/9-9/11;9/13-9/15;9/18-9/26;9/30-10/1;10/28-10/30 Allotment inspections consist of a Range Specialist and/or Range Technician visiting the allotment to check on location of livestock, improvement condition and/or monitor for annual indicators. There was one seasonal employee whose primary responsibility was the inspection of this allotment. The employee stayed on the Forest Service administrative site within the allotment. There were 3 instances of spatially errant livestock during the grazing season (7/10, 8/6 and 9/12) in each case the livestock were removed

within 1 day of notification. The communication plan was initiated immediately and follow-up monitoring was conducted by the fisheries crew. There was a miss-interpretation of contact responsibilities in the communication plan, this lead to a delay in contacting NMFS regarding the livestock seen on 9/12.

Compliance with special Terms and Conditions regarding livestock locations and management practices:

NMFS

RPM #1(a, b, c, d) and RPM#3(a) The whole of this report addresses this term. Conservation measures were followed. Temporary fencing was employed within the Riparian Pasture with success and the Holding Pasture was not used to wean or gather. Monitoring was conducted according to schedule and complied with the standards set forth in the BO's.

RPM #1(e) and RPM # 2 (g) although the permittee did not receive any direct training, monitoring results indicates the permittee has a grasp of what the standards are.

RPM#1 (f, g, h, i, j) and RPM#2 (h, i, j, k, l) An AOI meeting was held where all the measures laid out in the BA and BO's were discussed along with any potential areas of concern. Measures such as riding, trailing and fence maintenance were accomplished satisfactorily with the BO's

RPM #2 (a, b) The proposed fencing along the Riparian and Holding pastures was not completed in 2013. Temporary fencing was employed in the Riparian pasture and the Holding pasture was not used in 2013. There was one instance were 3 pair of spatially errant livestock entered the Holding pasture through a downed brace on the private land. The issue was addressed with the permittee that same day and livestock were removed within 24hrs. The USFS is working with the permittee to gather information and refine allotment management. During the 2014 grazing season this situation will be subject to adaptive management in the form of no allowable use in the holding pasture, frequent use compliance monitoring will continue, and employment of temporary fence will continue within the Riparian Pasture until such a date the fence can be completed.

RPM #2(c) No take was documented along Moyer Creek between August 21st and September 15th (date of livestock removal from Moyer Creek)

RPM#2(d) No redd trampling was identified in any other stream reach (i.e. Fourth of July Creek, Corral Creek and Cabin Creek drainages)

RPM#2(e, f)

RPM #2(g, h) see RPM#1(e)

RPM #2(h, i, j, k, l) see RPM#1 (f, g, h, i, j)

RPM#3 see RPM#1(a, b, c, d)

RPM #3 (b)

- (1, 2, 3) The whole of this report address this term.
- (4) There were 3 instances of spatially errant livestock during the grazing season (7/10, 8/6 and 9/12) in each case the livestock were removed within 1 day of notification. One of these instances was due to a broken brace on the private land adjacent to the Forest Service Boundary. The brace was fixed within one day of report. The instance on 9/12 included follow-up monitoring that indicated that 3 redds had been trampled within the stream reach surveyed. During the 2014 grazing season this situation will be subject to adaptive management in the form of no allowable use in the holding pasture.
- (5) There was one notable issue not directly related to the on the ground livestock management. There was a miss-interpretation of contact responsibilities in the internal communication plan, this lead to a delay in contacting NMFS regarding the livestock seen on 9/12 and the results of the follow-up that had occurred by the Forest Service employees.
- (7, 8) The whole of this report address this term.

MONITORING DATA

Annual Indicator Monitoring: For the 2013 grazing season, monitoring was completed at Designate Monitoring Areas (DMAs) using the Multiple Indicator Monitoring (MIM) technical reference (Burton, 2012). If the site did not meet the guidelines for establishment of a MIM photos were taken and are attached to this document. Upland monitoring was completed using the Landscape Appearance Method or Height –Weight method. Utilization for the 2013 grazing season met the use standards and annual indicators in the AOI, BA and BO. **PLEASE REFER TO THE ATTACHED TABLE AND PHOTOS FOR ANNUAL INDICATOR RESULTS.**

Improvement Monitoring: Two troughs and spring boxes were reconstructed in 2013. When inspected they were found to be in working order. All troughs on the Eastside were inspected with one identified for replacement in 2014.

Permit Administration: There were 3 instances of spatially errant livestock during the grazing season (7/10, 8/6 and 9/12) in each case the livestock were removed within 1 day of notification.

OTHER INFORMATION

Growing Season Conditions: Precipitation for the District was below normal for 2013. The precipitation information for the District is included in the table below. While this information is collected in Salmon, Idaho and is not specific to an allotment area, it gives an idea of the available moisture on the District.

Salmon Weather

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Precip. (in.) in 2013	0.57	0.03	0.18	0.41	1.54	1.19	0.51	0.51	0.8				5.74
Average Precip. (in.) from 1967-2013	0.66	0.42	0.55	0.78	1.36	1.42	0.95	0.78	0.76	0.65	0.72	0.74	9.79

Recommendations for Future Management:

- Inspect condition of private land where it shares a boundary with Forest Service.
- Increase communication with Service Agencies.
- Refine allotment management to prevent issues with the Holding Pasture.

Sources

Burton, T.A., S.J. Smith, and E.R. Cowley. 2011. Riparian area management: Multiple indicator monitoring (MIM) of stream channels and streamside vegetation. Technical Reference 1737-23. BLM/OC/ST-10/003+1737. U.S. Department of the Interior, Bureau of Land Management, National Operations Center, Denver, CO. 155p.

NOAA National Climatic Data Centers. 2013. "Monthly Climatological Summary (2013), Salmon KSRA, ID, US." Retrieved Nov. 8th, 2013. <www.ncdc.noaa.gov>

USDI, BLM. 1996. Utilization Studies and Residual Measurements, BLM Interagency Technical Reference, BLM/RS/ST-96/004+1730. 135p.

Western Regional Climate Center. 2013. "Monthly Climate Summary, Salmon KSRA, Idaho (105177)." Retrieved on Nov. 26th, 2013. <www.wrcc.dri.edu>

Prepared By:



Ingrid Drieling

Rangeland Management Specialist

2013 FORNEY C&H ALLOTMENT MONITORING DATA

Actual Grazing Schedule			Allowable Standards				Actual Results			
Unit Name	On/Off Dates	Monitoring Date	Riparian			Upland	Riparian			Upland
*Eastside/Moyer Creek Moyer Unit- Moyer Creek MIM M213RE			Greenline Stubble	Hydric spp.	4in	50%	Greenline Stubble	Hydric spp.	*	
			Bank Alteration	n/a	15%		Bank Alteration	n/a	*	
			Browse Use	Willow	50%		Browse Use	Willow	*	
Eastside/Moyer Creek Moyer Unit- Moyer Creek MIM M213	7/1-9/15		Greenline Stubble	Hydric spp.	4in	50%	Greenline Stubble	Hydric spp.	10in	16%
			Bank Alteration	n/a	20%		Bank Alteration	n/a	8%	
			Browse Use	Willow	50%		Browse Use	Willow		
Westside Unit- 4 th of July MIM	6/4-7/1	7/11	Greenline Stubble	Hydric spp.	4 in.	50%	Greenline Stubble	Hydric spp.	10in.	28%
			Bank Alteration	N/A	15%		Bank Alteration	N/A	3%	
			Browse Use	Willow	50%		Browse Use	Willow	10%	
Westside Unit- Porphyry Creek MIM M221	6/4-7/1	7/11	Greenline Stubble	Hydric spp.	4 in.	50%	Hydric spp.	Hydric Ssp.	17in	
			Bank Alteration	N/A	10%		Bank Alteration	N/A	<1%	
			Browse Use	Willow	50%		Browse Use	Willow	10%	
**Holding Pasture- Panther Creek			Greenline Stubble	Hydric spp.	6in	%	Greenline Stubble	Hydric spp.		6.3
			Bank Alteration	n/a	20%		Bank alteration	n/a		
			Browse Use	Willow	50%		Browse Use	Willow		

*Monitoring was not conducted on this DMA in 2012. Monitoring still occurred in the Eastside/Moyer Unit within the allotment

** The Holding Pasture was only used as a trail through for the 2013 season. Late season MIM monitoring was attempted but prohibited due to snow.

	Photo Record	Page 1 of 6
Intermountain Region	Salmon-Challis NF North Zone	District: Leadore
2013 End of Year Photos		Allotment: Forney C&H
Subject: EOY Photo Records for Forney Creek C&H		



4th of July Creek, MIM site M231

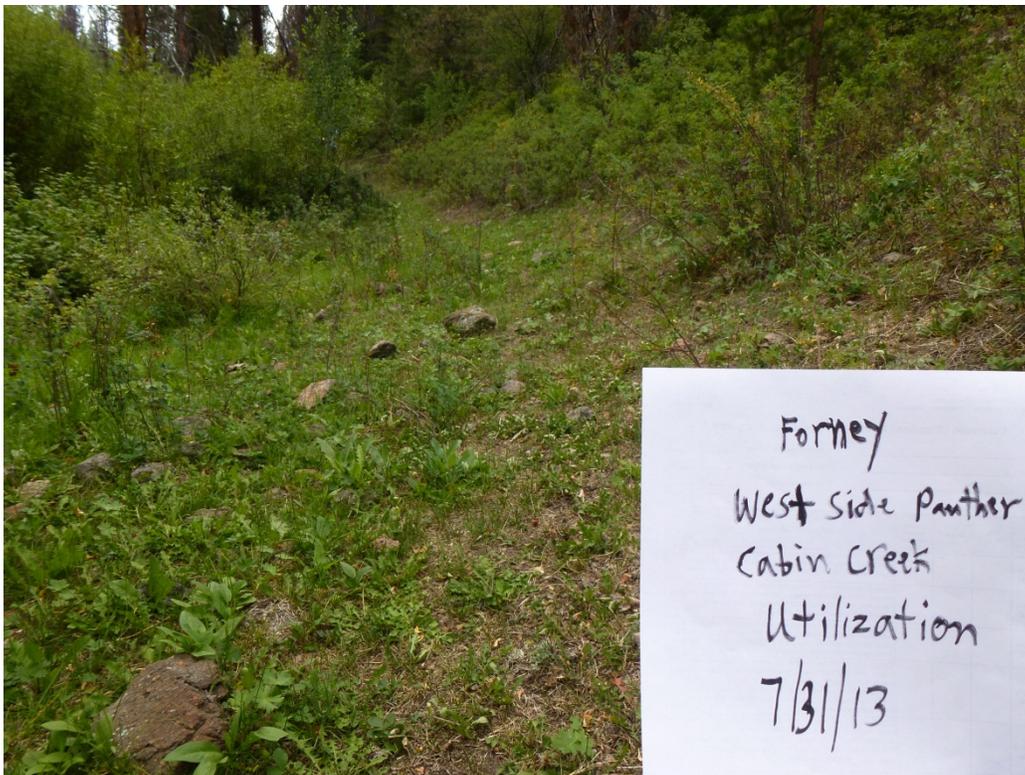


4th of July Creek, MIM site M231

	Photo Record	Page 2 of 6
Intermountain Region	Salmon-Challis NF North Zone	District: Leadore
2013 End of Year Photos		Allotment: Forney C&H
Subject: EOY Photo Records for Forney Creek C&H		



Forney West Side Panther Corral Creek Upland 7/31/2013



Forney West Side Panther Creek Cabin Creek Upland 7/31/2013

	Photo Record	Page 3 of 6
Intermountain Region	Salmon-Challis NF North Zone	District: Leadore
2013 End of Year Photos		Allotment: Forney C&H
Subject: EOY Photo Records for Forney Creek C&H		



Holding Pasture Upland 7/31/2013



Holding Pasture Upland #2 7/31/2013

	Photo Record	Page 4 of 6
Intermountain Region	Salmon-Challis NF North Zone	District: Leadore
2013 End of Year Photos		Allotment: Forney C&H
Subject: EOY Photo Records for Forney Creek C&H		

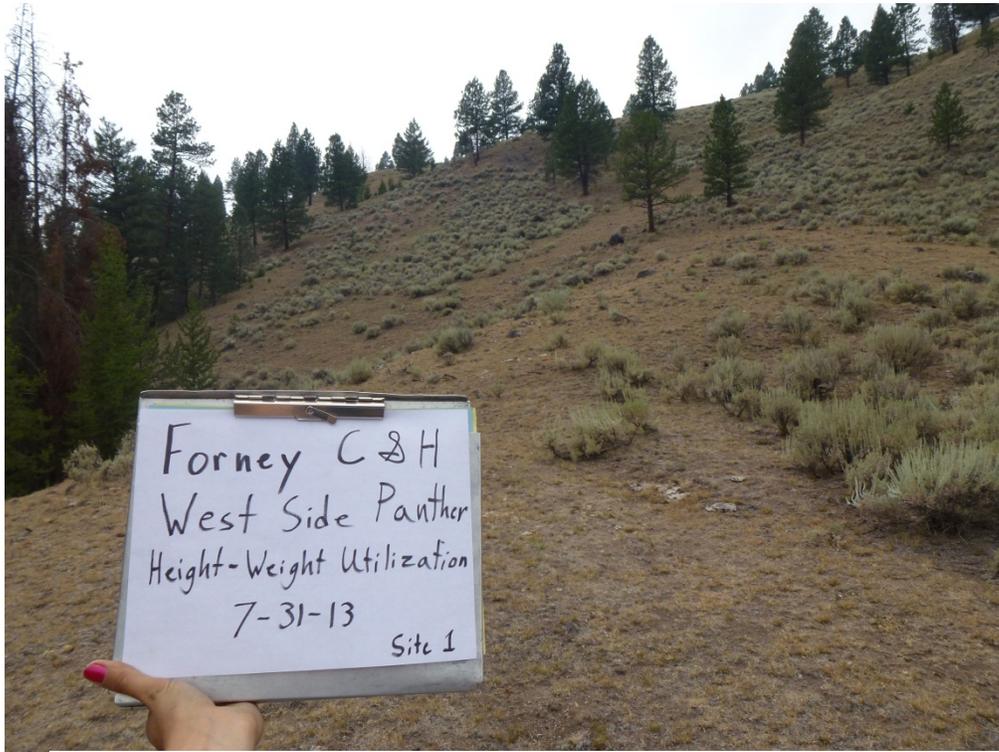


Porphyry Creek, MIM site M221 7/11/2013



Porphyry Creek, MIM site M221 7/11/2013

	Photo Record	Page 5 of 6
Intermountain Region	Salmon-Challis NF North Zone	District: Leadore
2013 End of Year Photos		Allotment: Forney C&H
Subject: EOY Photo Records for Forney Creek C&H		



West Side Panther Unit Height-Weight Utilization Study Site 1 7/13/2013



West Side Panther Unit Height-Weight Utilization Study Site 2

	Photo Record	Page 6 of 6
Intermountain Region	Salmon-Challis NF North Zone	District: Leadore
2013 End of Year Photos		Allotment: Forney C&H
Subject: EOY Photo Records for Forney Creek C&H		



Figure 1 West Side Panther Height-Weight Utilization Site #3 (7/31/2013)



West Side Panther Unit Height-Weight Utilization Study Site 4

Biological Opinion Name: USFWS BO Forney Allotment

Biological Opinion Number: 1420-2012-F-0269

Stream Name: Musgrove Creek Date: 9/16/13

Allotment Name: Forney > westside of Panther Unit Name: westside panther

Start Time: 1440 Stop Time: 1530 Number of Pictures Taken: _____

Stream Segment Length on GPS: 840ft

Estimated Stream Segment Length measured with GIS: _____

Site Directions: Hwy 93 S to Williams Cr rd 021 to deeper rd 101
to Panther Cr rd 055 up Panther Cr to Musgrove Cr.
Survey started close to mouth of Musgrove + went
upstream 841 m as crowflies

Survey Crew: K Webster Bslavin

(top) H₂O Temp: 54°F Air Temp: 79°F Elevation: 5606

(bottom) H₂O Temp: 57°F Air Temp: 74°F Elevation: 5502

Starting Location GPS (UTM): Zone 11T Easting 0711651 Northing 4988891

^{L to Bottom} Degree Decimal: N: 45.0218232018367 W: -114.313573314888

Stopping Location GPS (UTM): Zone 11T Easting 0710801 Northing 4988792

^{L to top} Degree Decimal: N: 45.021186906311 W: -114.324391816897

Number of Live Adult bull trout Observed: 2

Number of bull trout Redds Observed: ∅

Number of bull trout Redds Observed that Livestock Trampled: ∅

Comments: Water Condition: Clear visibility, No cows seen in area
Substrate: Cobble/gravel, lots of silt on substrate but not in
riffles. Woody debris in stream - 1 jam/dam? Sign of beaver
in area. Water conditions were clear and nice!

Biological Opinion Name: USFWS BO Forney Allotment

Biological Opinion Number: 14420-2012-F-0269

Stream Name: Parther Creek Date: 9-16-13

Allotment Name: Forney Unit Name: Holding Pasture

Start Time: 11:00 Stop Time: 13:40 Number of Pictures Taken: yes

Stream Segment Length on GPS: 2.37km

Estimated Stream Segment Length measured with GIS: _____

Site Directions: Hwy 93 S. to Sharp bridge TAKE (028)RD over Williams Cr. Then (101)RD Down Deep Cr. to Parther Cr. Rd. (055) up Parther Past Meyer - Past 4th of July Cr. To where private begins at Cartaguard. Survey started at fence / cartaguard and went down.

Survey Crew: Bill Slavin, Katie Webster

(top) H₂O Temp: 54°F Air Temp: 65°F Elevation: 5950 Ft

(bottom) H₂O Temp: 59°F Air Temp: 75°F Elevation: 5790 Ft

Starting Location GPS (UTM): Zone 11T Easting 0708495 Northing 4982447

Degree Decimal: N: 44.9648143965776 W: -114.356255894046

Stopping Location GPS (UTM): Zone 11T Easting 0709012 Northing 4984759

Degree Decimal: N: 44.9854522595684 W: -114.348748799401

Number of Live Adult bull trout Observed: 0 -> 5 fish seen unknown species.

Number of bull trout Redds Observed: 0

Number of bull trout Redds Observed that Livestock Trampled: 0

Comments: Water condition was clear. Substrate was cobble, gravel + fines. lots of silt covering substrate. Many areas accessible to cows, many cow xings thru + (parallel to) up + down stream channel. Riparian near stream was thick making walking in the stream the easiest option for livestock.

One portion of section (100m) dammed by beavers.

NO COWS IN UNIT AT TIME OF SURVEY-

Biological Opinion Name: USFWS BO Forney Allotment

Biological Opinion Number: 14420-2012-F-0269

Stream Name: Moyer Cr. Date: 9/19/13

Allotment Name: Forney Unit Name: Moyer

Start Time: 11:25 Stop Time: 12:25 Number of Pictures Taken: _____

Stream Segment Length on GPS: 1.01 km

Estimated Stream Segment Length measured with GIS: _____

Site Directions: Take Hwy 93 S to William's Cr. Rd 021 follow to deep cr. Rd 101 to panther cr. 055 to Rd 103 -> go 1 mile + park -> started below beaver dam

Survey Crew: K Webster B Slavin

(top) H₂O Temp: 45°F Air Temp: 47°F Elevation: 5632 ft

(bottom) H₂O Temp: 47°F Air Temp: 58°F Elevation: 5570 ft

Starting Location GPS (UTM): Zone 11T Easting 0712944 Northing 4987398

Degree Decimal: N: 45.0086101544684 W: -114.297811747633

Stopping Location GPS (UTM): Zone 11T Easting 0712369 Northing 4988229

Degree Decimal: N: 45.0156552837187 W: -114.304749506619

Number of Live Adult bull trout Observed: 0

Number of bull trout Redds Observed: 0

Number of bull trout Redds Observed that Livestock Trampled: 0

Comments: Clear visibility until we walked in stream + stirred up silt. Had to let water clear up throughout survey when visibility was reduced to .05m. Substrate mostly cobbles + silt. Started just below a beaver dam + passed 1 more beaver dam in survey stretch. Cow sign near stream + in stream but no cows in area at time of survey, water conditions were clear and nice!

→ Driving Rd near stream looking for redd flags

Bull Trout Redd Survey Salmon-Challis National Forest (North Zone)

last edited by [unclear]

Biological Opinion Name: USFWS BO Forney Allotment

Biological Opinion Number: 14420-2012-F-0269

Stream Name: Moyer Cr Date: 10/23/13

Allotment Name: Forney Unit Name: Moyer

Start Time: 1500 Stop Time: 1545 Number of Pictures Taken: _____

Stream Segment Length on GPS: UNK

Estimated Stream Segment Length measured with GIS: _____

Site Directions: Take Hwy 93 S to Williams Cr Rd 021. Follow to Deep Cr. Rd 101 to Panther Cr. 055 to rd 103 → Drove Road up Moyer creek ~ 5 miles to S FK Moyer. ended at Rd xing

Survey Crew: Webster, Skvin

(top) H₂O Temp: UNK Air Temp: 57 Elevation: 6124 ft

(bottom) H₂O Temp: UNK Air Temp: 60 Elevation: UNK

Starting Location GPS (UTM): Zone _____ Easting _____ Northing _____

↳ Mouth of Moyer Cr
Degree Decimal: N: _____ W: _____

Stopping Location GPS (UTM): Zone 11T Easting 0713461 Northing 4981954

Degree Decimal: N: 44.9589026467765 W: -114.293564424203

Number of Live Adult bull trout Observed: ∅

Number of bull trout Redds Observed: ∅

Number of bull trout Redds Observed that Livestock Trampled: ∅

Comments: Not a "true" Redd Survey. Drove Rd looking for redd flags + then we looked for trampling. No Bull trout redd flags were seen

Driving Rd looking for redds

Bull Trout Redd Survey Salmon-Challis National Forest (North Zone)

USFWS (10/23/13)

Biological Opinion Name: USFWS BO Forney Allotment

Biological Opinion Number: 14420-2012-F-026A

Stream Name: Musgrave cr Date: 10/23/13

Allotment Name: Forney - westside Panther Unit Name: westside panther

Start Time: 1405 Stop Time: 1432 Number of Pictures Taken:

Stream Segment Length on GPS: ≈ 841m

Estimated Stream Segment Length measured with GIS:

Site Directions: Hwy 93 South to Williams cr rd. 021 to deeper rd lot to panther cr rd 055 up panther cr to Musgrave cr. Survey started close to mouth of Musgrave + went upstream ≈ 841m as crow flies

Survey Crew: Webster, Slavin

(top) H₂O Temp: 40 Air Temp: 60 Elevation: 5662

(bottom) H₂O Temp: 41 Air Temp: 60 Elevation: 5581

Starting Location GPS (UTM): Zone 11T Easting 0711635 Northing 4988888

Degree Decimal: N: 45.0218010150221 W: -114.313772437274

Stopping Location GPS (UTM): Zone 11T Easting 0710816 Northing 4988801

Degree Decimal: N: 45.0212633627918 W: -114.324197863749

Number of Live Adult bull trout Observed: ∅

Number of bull trout Redds Observed: ∅

Number of bull trout Redds Observed that Livestock Trampled: ∅

Comments: Not a "true" redd survey → drove the road looking for flagged redds, if any were seen, which were not, we were going to assess if they had been trampled. No redds were seen except one with a question mark on it + we did not see a redd anywhere near it.

Biological Opinion Name: 2012/02643 NMFS Forney Allotment

Biological Opinion Number: 14420-2012-F-0269

Stream Name: Panther Cr

Date: 10/30/13

Allotment Name: Forney

Unit Name: Holding Pasture

Start Time: 10:20

Stop Time: 12:10

Number of Pictures Taken: _____

Stream Segment Length on GPS: 2.41 km

Estimated Stream Segment Length measured with GIS: _____

Site Directions: Salmon to Shoup Bridge over Williams Cr Rd. (021) summit down to Panther Cr Rd (#55) drive up Rd 55 past Moyer. Survey started at upper end of unit at fence line. Park at cattle guard + walk downstream.

Survey Crew: Webster / Slavin

(top) H₂O Temp: 35°F Air Temp: 41°F Elevation: 5983 ft

(bottom) H₂O Temp: 36°F Air Temp: 44°F Elevation: 5756 ft

Starting Location GPS (UTM): Zone 11 Easting 0708501 Northing 4982435

Degree Decimal: N: 44.9647047226672 W: -114.356184854266

Stopping Location GPS (UTM): Zone 11 Easting 0709068 Northing 4984758

Degree Decimal: N: 44.9854267336835 W: -114.348039633457

Number of Live Adult bull trout Observed: 0

Number of bull trout Redds Observed: 0

Number of bull trout Redds Observed that Livestock Trampled: 0

Comments: Clear visibility No cows in area

Substrate: cobble, gravel, silt
water clear and normal