

Stream: Deep Creek
Date: 9/5/06
Investigator: Jim Cummins

Old Redds Totals

Location: Copper Cr to falls
Water Temp: 44.1 F
Start Time: 1055
End Time: 1415

New Redds

Definite: 20
Probable: 1
Possible: 3
Def + Prob: 21

Adult BLC: 1
Sub-adult:
Juveniles:

Comments (mortalities, water flows, visibility, etc)

Flows low, dry area above Copper Creek, but redds above Rd 1808 culvert.
Eric has downstream data; did not survey from Rd 1800 to reservoir.

possibly due to the depth of the gravel. In retrospect, I believe it was probably a redd. The flag on the second "possible" redd reads "test dig or small redd". After observing several redds of this size later in the survey I believe that this excavation was a redd. The third pass surveyor can make the call. Only one adult bull trout was observed in the reach. It was on a redd.

Upper Reach—Willey started at the trail crossing and worked upstream. He climbed out at the falls and came back via the trail then surveyed down to the North Spring confluence. He located the one previously flagged redd from 9/6 and flagged 30 new ones. Five adult bull trout were observed tending redds in the reach along with seven others.

North Spring Complex—Willey and Thomas arrived at the North Spring confluence within five minutes of each other and commenced to surveying the complex. The two previously flagged redds were found along with 16 new redds. There were 16 adult bull trout observed tending redds and two others running loose. The large beaver dam located up the major channel (right) may be impassable. Thomas attempted to survey above the dam but the going was very difficult until the spring runs adjacent to the road. No redds were found above the dam but some of the stream was skipped over because of this difficulty.

appeared to be 1-2 weeks old. Observed otterlike teeth marks on kill. Genetics taken (vial label #O6BK-1). The second mort. Was a jaw and mid-section and was fresher – less than 1 week old. Genetics sample taken (vial label #O6BK-2). Couldn't determine sex or length, but an adult fish. The third mort. Was a midsection of a fish and we took a genetics sample (vial label #O6BK-3) Length estimated at 22-24" and no sex determined. The fourth mort. Was a female with eggs (pre-spawn mortality) and was a big fish estimated at 26-30" Genetics sample taken (vial label #O6BK-4). The fifth mort. Was estimated to be 16-18" long and was another mid-section of fish turned inside out, plus a jawbone.

Two of the five fish had been turned inside out by the otters and the fins were generally missing because of it. We also observed several bits of skin and pieces up on rocks or logs as otters usually do... and we observed the bite marks on the carcasses, plus the otter tracks in the reservoir bed and along the lower portions of the stream.

We finished the redd survey ~2:15pm and then Hank and Allen snorkeled the Peek-a-Boo falls site but didn't see any bulls. They did see a few CT in the pool. Streamtemps were cold.

With pink flagging (N47.42005 W120.94634). 11:15 stop at trail crossing barrier. Bridge at N47.42330 W120.95002). 11:38 back at NFT/Deroux confluence. Head up NFT. Someone had stacked rocks along the route. Found David's 9/13 possible #2 (N47.42199 W120.94113). I couldn't clearly see where this redd was... the site was sunny and water clear. Continued upstream (this was ~30 ft upstream of the 8/21/06 end of snorkel flag). Located a new possible redd below a large log jam (N47.42242 W120.94010). Found David's possible from 9/13 (N47.42280 W120.94019) and it looked like either a test dig or small redd. I observed 3 cutthroat on a patch of gravel and they had dark cheek patches and there was a very small disturbed patch of gravel. I did not observe any spawning behavior as the fish darted upon my arrival. NFT falls est. ~16-18 ft high and arrived at 13:00 and took pictures. (N47.42921 W120.93876). The falls is directly downhill from a milepost #9 marker on the NFT road and had a small pullout. This is approximately ~1 mile above Deroux Camp. Back at truck (@Deroux camp) by 13:25 and headed downstream to Camp Wahoo to start surveying up to confluence. Marked a small possible adjacent to middle of Deroux campground. Back at truck 14:15.

Gold Creek channel. It is still impassable, but water is ponding up and flowing in several areas. One more decent rain event should open up the channel and make it passable for bull trout.

-- Water temperature where the stream permanently rewaters up was 11C (52 F).

William's Notes:

Start at trailhead at 11:55am and began the survey where the trail comes down close to the stream (stream tangent) at 12:20am. Stream temperature here was 8°C. Stream flow was low and lower Gold was still disconnected.

12:43 Navy A-6 flyover.

12:47 at "house rocks" for lunch.

13:27 1st probable redd 0 fish and left bank. No gps signal here, but 200m upstream I got this location N47.43039 W121.35119.

13:40 1 definite redd with 2 fish on - 1 very large female and a smaller 10-12" male. Location under large log crossing stream channel. N47.43039 W121.35119

14:01 Right bank tributary with old flag and 2 - 3 old probable/definite redds. N47.43480 W121.35038. walked up side channel ~100m. It looks like this section has not experienced any high flows since last season.

14:07 Upper Gold Trail crossing N47.43929 W121.34998. Flow at upper Gold trail crossing is very skinny, and in places it would be difficult or impossible for a large fish to pass.

14:22 1 definite redd, 0 fish; N47.44085 W121.34912 above trail crossing.

14:41 Gold Creek goes totally dry N47.44561 W121.34881 (~2896 ft elev.) for ~150 m then rewaters the rest of the way to barrier falls.

15:00 1st falls (barrier at these flows) N47.45105 W121.34116

15:11 Dead tailed frog (adult male) in stream channel N47.45301 W121.33947

Hiked up to 2nd barrier falls and observed several fry in different locations - between the two sets of barrier falls. Also saw a new small slide of soils and trees into the creek on the right bank.

15:18 Arrive at 2nd barrier falls N47.45358 W121.33686 (~3060 ft).

17:25 Back at trailhead. Survey complete

Bull Trout Spawning Ground Survey Data FormStream: Upper Cle Elum RiverDate: 10/6/06Location: Reach directly below Hyas Lake (length 1.3 km)Water Temp.: 10 degrees C at 1135 hoursInvestigators: Jeff Thomas (USFWS)Start Time: 1135 hoursEnd Time: 1217 hoursRedds: NewOldDefinite: 00Probable: 0Possible: 0**Bull Trout Observed:**Adults: NoneSub-adults: NoneJuveniles: None

Comments: The weather was partly cloudy and cool. Water clarity was excellent and flows were low. Although I did not observe any active redds there was evidence of past spawning activity in the reach. However, none of the excavations (there were four) was anywhere near recent. After these observations and those I have made in past years I offer this hypothesis—some fairly large salmonids, most likely rainbows and/or cutthroats, drop down into the reach out of the lake in the spring/early summer and spawn. Just a thought.

2
0
0
6

Stream: Indian Creek
Date: 9/6/06
Investigator Jim Cummins

Location Trail 1147 to falls
Water Temp 45.1
Start Time 1005
End Time 1145

New Redds

Definite	1
Probable	0
Possible	0
Def + Prob	1

Adult BLC	7
Sub-adult	0
Juveniles	0

Comments (mortalities, water flows, visibility, etc)

Flows low but no passage issues to falls.

No redds or fish in the 2 south springs.

Did not survey from Trail 1147 (Approximate south spring) to north spring

Eric has downstream data

Stream: South Fork Tieton
Date: 9/7/06
Investigator: Jim Cummins

Location	Bear Creek to 1050 Road	1050 Rd to Corral Ck CG
Water Temp	44.6 F	
Start Time	0940	1100
End Time	1100	1145

	New Redds	
Definite	7	13
Probable	0	0
Possible	0	0
Def + Prob	7	13
Adult BLC	11	10
Sub-adult		
Juveniles		

Comments (mortalities, water flows, visibility, etc)
Anderson has data from falls to Bear Cr
Torretta has data from Corral Cr CG downstream.
Flows low, excellent visibility, fish on redds and actively spawning

2
0
0
6

Stream: American River
Date: 9/8/2006
Investigator: Jim Cummins and Gary Torretta

Location: Lodgepole to Mesatchee Cr Trail crossing
Water Temp: 44 F
Start Time: 1000
End Time: 1200

	New Redd	Old Redds	Totals
Definite		15	
Probable	1		
Possible	0		
Def + Prob	16		
Adult BLC	2		
Sub-adult	0		
Juveniles	0		

Comments (mortalities, water flows, visibility, etc)
Mike Nelson located 5 adult BLC above Mesatchee Cr Trail Crossing 9/6/06
Walked above trail crossing about 300 feet but saw no BLC
Flows low but no passage problems.
Torretta has data for Union Creek and American R downriver from Union
Also, see Kettle Creek report.

Stream: Kettle Creek
Date: 9/8/06
Investigatc Jim Cummins

Location Mouth to cascades
Water Temp 47.3 F
Start Time 1345
End Time 1615

New Redds

Definite	7
Probable	0
Possible	0
Def + Prob	7

Adult BLC	6
Sub-adult	0
Juveniles	0

Comments (mortalities, water flows, visibility, etc)

Went upstream all the way to uppermost past survey markers.

Fish actively spawning to well above where we ended survey last year.

Water flows higher this year so fish moved upstream further.

Took photos of spawning fish.

Also see American River data and Torretta's Union Creek data for this date.

Stream: NF Ahtanum
Date: 9/12/06
Investigatc Jim Cummins

Location Bridge below Snow cabin CG to Shellneck and Shellneck Cr
Water Temp 45.1
Start Time 0955
End Time 1055

New Redds

Definite	0
Probable	0
Possible	0
Def + Prob	0
Adult BLC	0
Sub-adult	0
Juveniles	0

Comments (mortalities, water flows, visibility, etc)
Flows low, visibility good, no redds in Shellneck Creek.
Possible log jam barrier short distance up Shellneck, same as last year.

This is

Stream: Rattlesnake Creek
Date: 9/13/06
Investigator Jim Cummins & Eric Anderson

Location Trail 1114 trail crossing above Wildcat Cr upstream near McNeil Cr
Water Temp 41.5
Start Time 1100
End Time 1155

New Redds

Definite	4
Probable	0
Possible	0
Def + Prob	4
Adult BLC	0
Sub-adult	0
Juveniles	0

Comments (mortalities, water flows, visibility, etc)

Eric Anderson and I both surveyed most of the area from Strawberry Meadow upstream.
Eric has most of the data. Torretta surveyed downstream area. Total redds about 38.

Stream: South Fork Tieton River
 Date: 9/14/06
 Investigator: Jim Cummins

Falls to Bear Creek				Bear Creek		
Water Ten 41.7 F						
Start Time 940				1205		
End Time 1200				?		
	New Redd	Old Redds	Totals	New	Old	Totals
Definite	22	3	25	6	7	13
Probable	0	0	0	0	0	0
Possible	0	0	0	0	0	0
Def + Prob	22	3	25	6	7	13
Adult BLC	20			10		
Sub-adult	0			0		
Juveniles	0			0		

Comments (mortalities, water flows, visibility, etc)
 Eric and Torretta have data for remaining index areas.
 Excellent survey conditions, flows low, water clear.

Stream: Middle Fork Ahtanum
Date: 9/20/06
Investigator: Jim Cummins

Location: Bridge to Tree Phones CG
Water Temp: 39 F
Start Time: 1015
End Time: 1145

New Redds

Definite	2
Probable	
Possible	
Def + Prob	

Adult BLC	1
Sub-adult	
Juveniles	

Comments (mortalities, water flows, visibility, etc)
flows low, visibility good. Eric has data for downstream part of index.

Stream: Deep Cr.
Date: 9/21/06
Investigator: Jim Cummins

Location: Rd 1800 Culvert to Copper Cr.
Water Temp: 43.5 F
Start Time: 955
End Time: 1255

	New Redd	Old Redds	Totals
Definite	12	39	51
Probable	0	0	0
Possible	0	1	51
Def + Prob	12	39	51 ✓
Adult BLC	0		
Sub-adult	0		
Juveniles	0		

Comments (mortalities, water flows, visibility, etc)
Flows low, no passage at lower rockslide, as is often the case past years.
Eric has data for upstream part of index and from 1800 Rd culvert to reservoir.

Stream: American River
Date: 9/22/06
Investigatc Jim Cummins

*Road Turnout above Lodgepole
C.G./HWY 410 Bridge.*

Location Lodgepole to Mesatchee Cr Trail
Water Ten 40.8 F
Start Time 955
End Time

	New Redd	Old Redds	Totals
Definite	0	15	15
Probable	0	1	1
Possible	0	0	0
Def + Prob	0	16	16
Adult BLC	0		
Sub-adult	0		
Juveniles	0		

Comments (mortalities, water flows, visibility, etc)
Eric Anderson and Gary Torretta have additional data for American and Kettle.

Stream: NF Ahtanum Creek
Date: 9/27/06
Investigatc Jim Cummins

Location Grayrock to bridge below Snow Cabin Cr CG
Water Ten 42.8
Start Time 1040
End Time 1230

	New Redd	Old Redds	Totals
Definite	0	0	0
Probable	0	0	0
Possible	0	0	0
Def + Prob	0	0	0
Adult BLC	0		
Sub-adult	0		
Juveniles	0		

Comments (mortalities, water flows, visibility, etc)
Missed 1 "old" redd.
Eric has data for upstream part of index area.

Stream: Crow Creek
Date: 9/28/06
Investigator: Jim Cummins & John Easterbrooks

Location: Index Area - trail to passage block
Water Temp: 43.3 F
Start Time: 820
End Time: 1310

New Redds	
Definite	7
Probable	1
Possible	0
Def + Prob	8
Adult BLC	0
Sub-adult	0
Juveniles	0

Comments (mortalities, water flows, visibility, etc)
First redd at upper end of "beaver pond area."
Saw several cutthroat.
Only survey on Crow Creek this year.
Flows low, visibility good.

Stream: Indian Creek
 Date: 10/2/06
 Investigator: Jim Cummins

Location Trail at end of road (lower south spring) to falls
 Water Temp 38.5 F
 Start Time 1030
 End Time 1215

	New Redds			Old Redds			Totals			South Spring down to meet Eric		
	New	Old	Totals	New	Old	Totals	New	Old	Totals	Eric has more data		
Definite	14	15	29	3	8	11						
Probable	0	0	0	0	0	0						
Possible	0	0	0	0	0	0						
Def + Prob	14	15	29							11	= 40	
Adult BLC												
Sub-adult												
Juveniles												

Comments (mortalities, water flows, visibility, etc)
 Eric Anderson surveyed downstream and has additional data.
 Lower south spring temp. - 41.5 F

2
0
0
6

Stream: SF Tieton River
 Date: 10/4/06
 Investigator: Jim Cummins

Location: Bear Cr to 1050 Rd
 Water Ten: 40.6 F
 Start Time: 950
 End Time: 1050

1050 Rd to Corral Cr CG
 1050
 ?

	New Redd	Old Redds
Definite	3	19
Probable		1
Possible		0
Def + Prob	3	20
Adult BLC	0	
Sub-adult	0	
Juveniles	0	

	New Redd	Old Redds
	12	28
	0	0
	0	0
	12	28
	0	
	0	
	0	

48 old
 15 New

 63
 Missed 5 old
 leave total at 63

Comments (mortalities, water flows, visibility, etc)
 Good visibility, low flow.
 Eric has data for downstream index.

Final Count

SF Tieton 167
 Bear 22

 189

Stream: Gold Creek
Date: 10/9/06
Investigator: Jim Cummins

Location: Gold Lake Trail crossing to lower falls
Water Temp
Start Time: 1200
End Time: 1255

	New Redd	Old Redds	Totals
Definite	0	1	
Probable	0	0	
Possible	0	0	
Def + Prob	0	0	
Adult BLC	0		
Sub-adult	0		
Juveniles	0		

*missed 1 def + 1 Prob?
Not clear where WWSW
divided the 2 sections
Eric found too many "old" Prob & old def
so I did not miss any flags*

Comments (mortalities, water flows, visibility, etc)
Eric has data for lower part of index area.
Extreme low flow, Eric reported no passage to upper reaches.
Extensive dry area above trail crossing in upper reach.

Sep. 1, 2006 1000 Hrs. - 1050 Hrs

Union Creek Bull Tr. Spanner Sur
Redd Count - E. Anderson + J. Cunn

Union Cr mouth to Falls, H₂O Temp 4

Redds

Def. N1111 8 Def.

Pro.

Pos.

Fish

11 (Two Bulls on Redd)

1 Chinook Carcass below Hwy 410 Bridge
Posted 1 Closed H₂O Sign

American River

Union Cr. mouth downstream \approx 1/3 m
to large pool/camp fire ring
(camp area by river)

No bulls observed in any pools
of American R. in this sect.

End this section 1115 Hrs.

"Rite in the Rain."

Sept. 6, 2005 0950 Hrs.
Indian Creek Bull Trout Spawner
Survey

E. Anderson
Hwy 12 Bridge to N. Spring
47°F

Redds

Def III

3 redds

1

Pro. ϕ

Pos. ϕ

Fish - No bull trout observed.

North Spring 45°F

2

Def II 2 redds

Pro. ϕ

Pos. ϕ

Fish - No bull trout observed

End 1215 Hrs.

Jim Cummins has additional data.
lit in the rain.

Union Creek - Torretta 8/18/06
490F - American R

1

Union

old

New

Toba'

did 6

11 (Eleven) 17

9 BLC - some on redds

American below Union

New

Fish

2

4

3

Some BLC on vedds

Phone discussion w/ Gary Torretta

Sept 27, 2006

N.F. Altatum Cr. Bull Trout Spawner
Survey Eric Anderson

Road Bridge below Snow Cabin C.G. to
Shellneck Cr. 430F 1043 Hrs

New Def. Redds ~~Nil~~ 1

Fish - One adult sized bull trout.
No old Redds end 1205 Hrs.

Shellneck creek 430F 1206 Hrs

mouth to upstream at bend
away from Road that parallels
creek.

No new or old Redds.

Several log jam barriers to
upstream passage. end 1235 Hrs.

N.F. Altatum at Shellneck ^{creek} Cr to
upstream $\frac{1}{2}$ mile (upstream
of current index). Outside of index
No Redds or fish observed.

Jim Cummins ^{has} additional data.

Eric Anderson

Sept. 12, 2006

0950 Hrs.

Ahtanum Creek (North Fork) Bull
Trent Spawner Survey

Grey Rock Trail Xing to upstream
@ Reed Bridge xing below
Snow Cabin C.G.

Redds

46°F

Det 1 one redd

Pro. \emptyset

Pos. \emptyset

No adult bull
trout observed

End 1145 Hrs.

Tim Cummins has additional
data

Sept. 13, 2006

Rattlesnake Creek Drainage - Bull
Trout Spawner Survey
Eric Anderson & Jim Cummings
Shell Creek Trail xing down to
mouth at Rattlesnake Creek,
No Redds or bull trout observed.

Rattlesnake creek mainstem
From Shell Cr. upstream to
Little Wildcat Creek
0934 Hrs. 45°F

Redds

Def. ~~||||~~ |||| 9 reds

Pro. ϕ

Pos. ϕ

Fish - 11 2 adult bull trout
observed.

Eric Anderson & Jim Cummings

9-13-06

Rattlesnake drainage - continued
Shell Creek to MTB Trail Xing

1250 Hrs - 1355 Hrs. E. Anderson
J. Cammies
Redds + G. Torretta

Det. III III III I 16 redds.

Pos. II III S.

Pos. II 2 Pos.

Fish III 3 adult bull trout
observed.

Lower Trail Xing at bottom of
index up to MTB trail xing.

Gary Torretta (USFS)

Det. 4

Pos. 1

No Bull Trout observed.

9-13-06

Rattlesnake Drainage - continued

Little Wildcat Creek to McNeil
1035 Hrs. start Cr.

end 1200 Hrs.

Redds

Jim Cummings
Cummings

Det. III III 9 redds

Pro. ♀

Pos. ♀

Fish No bull trout observed

Little Wildcat

from mouth to Rock Slide

(is about 45 min up from

Trail Xing) - Flipped

Eric Anderson

start 1111 hrs to end 1151 Hrs.

No Redds or adult bull trout
observed,

46°F

Rattlesnake Creek Drainage - cont.
Little Wildcat Creek

Start 1112 Hrs End 1150 Hrs.
No Redds No adult bull trout
observed. 420F

shell cr. To MJB Trail xing
Redds

old Det. 16 Redds E. Anderson
New Det. 1 Redd J. Cummings

old Pos. 2

1245 Hrs started upper end at end of
and work downstream
1417 Hrs. to Gary Torretta &
Noel Ferguson

Trail xing below MJB Trail to
MJB. G. Torretta & N. Ferguson

old Det. 4

No New Redds & No Adult bull
trout observed

End 1417 old Pos. 1

Sept. 26, 2006

Rattlesnake Cr. Drainage - Bull Trout
Spanner Survey E. Anderson + J. Cummins
Shell Cr. Trail xing to Rattlesnake Cr.

0925 Hrs. 43°F

No Fish, No Redds

Rattlesnake creek 41°F 0935 Hrs.

Shell Cr. to Little Wildcat Cr.

Redds:

Old Def. III IIII (9 Redds) 710

New Def. I one redd

No adult Bull Tr. observed

Rattlesnake Creek

Little Wildcat to McNeil creek

1036 Hours

Redds

Old Def. III IIII 9

No New Redds end 1200 Hrs.

No adult Bull trout observed.

Sept 14, 2006

S.F. Tieton Bull Trout Spawner Survey
Blue Slide to Corral Cr. C.G.

Eric Anderson + Jeff Thomas USFWS

0925 450F

Old Def. Redds ~~||||~~ ~~||||~~ ||| 13 old redds

" Pro ϕ

" Pos ϕ (changed to New Def)

New Redds ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~

~~||||~~ || 42 new redds

Pro. ϕ

Pos. ϕ

Fish ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ||

37 Adult bull trout observed.

Additional \approx 3 dozen adult bull trout
staying in glide/pool below Emp Creek.

Bear to Corral Cr. C.G.

Scott Wiley USBR

Non

Def old + New Redds - 52 Pro. 1

Adult Bull Trout - 32

"Rite in the Rain"

9-14-06

S.F. Tieton - continued

Jim Cummins WFW

S.F. Tieton falls to Bear Cr.
beds

old Def 3 → Total 25

New Def 22

Adult Bull Trout - 15

Bear Creek

Jim Cummins

beds

old Def 7 old → adjusted with previous
6 new counts

8 old
5 new

Adult Bull Trout - 8

Sept 20, 2006

M.F. Ahtanum Bull Trout Spawner
Survey Eric Anderson

Start 2 miles below Treephones C.G.
by parking pullout next to creek
to Treephones C.G. start 1022
Redds 42 of

pat. 111 3 Redds

No Adult Bull Trout Observed

End 1220

Jim Cummins has more data
for this upper section.

Sept. 22, 2006

1 surveyed ~ 3/4 mile to Flugs.

American River Drainage - Bull Trout
Spawner Survey, Eric Anderson
Kettle Creek start 0930 hrs.

Def. Old Redds 7 40 °F
Def. New Redds 3 and 1038 hrs

No adult bulls observed

Union Creek - Gary Torretta
USFS

Old Def Redds 17
New Def Redds 8 2

American R. below Union Cr.

Old Def. Redds 4 Gary Torretta.
390F

Jim Cummins has additional data.

3

Sept 28, 2006

M.F. Almann Bull Trout Spawner Survey

Eric Anderson 1330 Hrs.

Index area - start 2 miles below
Traephones G.O. by parking pullout
next to creek to Beal Bridge
Xing at upper end of camp ground.

Old Redds

Def. NH 5 Old Redds

New Redds 1 New Redd.

No adult bull trout observed.
end 1540 Hrs.

Sept. 29, 2006

M.F. Antanum Bull Trout Spawner
Survey for $\frac{1}{2}$ mile above Treephones
Camp Ground

start from Rd Bridge at upper
end of Treephones.

No Redds or Adult bull trout
observed.

This was a check out of the
normal index area.

Sept. 7 2006 0930 Hrs.

S.F. Teton River Bull Trout
Spawner Survey

Falls to Bear Creek

F. Anderson

Redds

Def III 3 reds.

Pro. ϕ

Pos ϕ

Fish - ~~III~~ III III 13 adult bull
trout observed

End 1055 Hrs,

Bear Creek 11:00 Hrs.

49°F to 1150 Hrs.

Redds

Def. ~~III~~ III 8 Redds

Pro ϕ

Pos. ϕ

Fish III 4 adult bull trout
observed

3 Adult ~~carcasses~~ ^{bits in the stream} in stream
(probably natural)

Sep 7, 2006

S.E. Tieton River (continued).

Gary Ferretter + Linda

Blue Slide to Cerral Cr.
Camp ground

Rdds

Det. 13

Pro. ϕ

Pos. 2

Fish 32 adult bull trout
observed

Jim Cummins has additional
data

Oct. 4, 2006

S.F. Teton River Bull Trout Spawner
Survey

Blue Slide to Corral Cr. C.G.

Eric Anderson Start 0925 Hrs. 44°F
H₂O Temp

Redds

Old Def. III III III III III III III III III III
III III 55 Old Redds

New Def. III III III 15 New Redds

No adult bull trout observed in the area

Falls to Bear Creek

Redds

Gary Torretta (USFS)

Old 25

H₂O Temp 39°F

New 9

0945 Hrs.

Bear Creek

Gary Torretta (USFS)

Redds

H₂O Temp 41°F

Old 13

1145 Hrs.

New 9

3 Carcasses (morts)
in Bear Creek

Jim Cummins has additional data
for section Bear Cr. to Corral Cr. C.G.

S.F. Tieton continued Oct 4, 2006

Bull Trout Spawner Survey in areas below (outside) of the established index — not counted in final redd counts.

Bakeoven Flats below Bridge to Nowhere + Cedar Cr. (below C.G.) to about 500' above campground

23 Total Redds in above area (7 in area above & below bridge to nowhere.)

Gary Torretta USFS Survey

Oct. 2, 2006

Indian Creek Bull Trout Spawner
Survey

1

E. Anderson

Hwy. 12 Bridge to N. Spring 450F

Redds: 0940Hrs

Old Def. III III III (15 Old Redds)

Old Pro —

Old Pos + changed to new Def.

New Def III III III III (18 New Redds)

No adult bull trout observed

Hundreds of spawning kokanee.

end 1215 Hrs.

N. Spring to Trail Xing 2

Redds

Old Def III III (8 Old Redds)

New Def III (3 New Redds)

Jim Cummins has additional

Redds for this section.

end 1248 Hrs.

continued

Indian Creek Drainage Bull 125685

Trout Spawner Survey cont.

N. Spring Eric Anderson + Jim Cummins

old Def Redds, IIIIIIIIIII 18 old

New Def Redds IIII 4 new

Adult Bull Trout observed. 2
end 1400 hrs.

Stream: Deep Creek
Date: 9/5/06
Investigator: Jim Cummins

Old Redds Totals

Location: Copper Cr to falls
Water Temp: 44.1 F
Start Time: 1055
End Time: 1415

New Redds

Definite: 20
Probable: 1
Possible: 3
Def + Prob: 21

Adult BLC: 1
Sub-adult:
Juveniles:

Comments (mortalities, water flows, visibility, etc)

Flows low, dry area above Copper Creek, but redds above Rd 1808 culvert.
Eric has downstream data; did not survey from Rd 1800 to reservoir.

Sept. 5, 2006 1037 Hrs.

Deep Cr. Bull Tr. Spawner Survey
Redd Count lower Rd culvert to Copper Cr.
E. Anderson H₂O Temp. 46°F

Redds

Def. ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ 41 redds

Pro. ϕ

Pos. 1

Fish ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ 38 fish

End 1418 Hrs.

No fish or redds in mainstem
above braids too Copper Creek.
(barrier prevents upstream passage -
e.g. subterranean for 10-15' undercut
bank area near rock slide.)

Jim Cummins has additional
data.

"It's in the Rain."

9-21-06

Deep Creek Bull Trout Spawner

Survey, Eric Anderson

Copper Creek to Barrier Falls

Redds start 1020 41°F

Def. (old) 20 (5 of these were above the

Pro. (old) 1 upper Rd culvert

Pos (old) 3 which is above the

NEW Def. 2 dry area.)

No adult bull trout observed.
end 1250 Hrs.

Below lower Rd culvert to the
lake. 1330 - 1441 Hrs.

Eric Anderson & Jim Cummins

Redds

Def. 21

No adult bull trout observed.

Jim Cummins has additional
data.

Oct 3, 2006

Box Canyon Cr. Bull Trout Spawner
Survey - E. Anderson + Y. Reiss

From area slightly below foot bridge
to barrier falls.

Redds

New Det. #11 11 7 Redds (1 below bridge
New Ar. 1 + 1 above)

Adult Bull Trout observed - 2
old Test Dig. Noted.

Also walked section down to the
lake - low flow but there
was connection to the reservoir
for passage.

End 1349 Hrs. @ Peek-a-boo Falls

Oct. 12, 2006

Box Canyon Creek Bull Trout Spawner
Survey. E. Anderson & T. Cummins

From Footbridge to Barrier Falls

Old Def Adds 11 11 7 Adds

Old Pro 1 1 Redd

1013 Hrs. end 1150 Hrs.

42.1° F

No adult bull trout observed.

Flows still low.

No change from Oct. 3 survey.

Oct. 18, 2006

Spot checked Box Canyon Creek
on these dates, no rain, low
flows, no change in fish redds.
J. Cummins

Oct 18 + 23 2006

Spot check Gold Creek during
Kokanee samples. No rain, no
increased flows. Does not
appear that there have been
any changes in redds/spawning.
Gold Creek previously walked
by Jim Cummins on Oct. 18
from Frontage Road to
Lake bed. More kokanee
present + Kok redds on
lake bed, but still low
numbers of fish. No
bull trout observed, no
additional bull trout
redds in area.

"Rite in the Rain"

Oct 9, 2006

- Gold Creek Bull Trout Spawner Survey
Frontage Rd Bridge to Trail xing.
Eric Anderson 1038 Hrs. 50°F

Redds

old Det. III II 7 old Det. Redds

old Pro. +++ 3 changed to old

No Adult Bull Trout observed, Det.

Only about a dozen Kokanee spawning
in Gold Creek Outlet Channel.

Gold Creek channel was dry
from Pond Outlet area to
upstream about a mile.

(3 Det's below dry area @ Pond
to Frontage Road + 4 Det's
above dry area @ pond to
Trail xing.

Stream goes subsurface again
below Trail xing. end 1339 Hrs.

Jim Cummins has more data for
upper section.

From: <Judy_Delavergne@fws.gov>
To: <Herger.Lillian@epamail.epa.gov>
Date: 11/06/2006 11:37:02 AM
Subject: Re: Fw: BT Redd in the upper Yak-cabin creek

Keechelus to Easton Reach

Hi Lil,

As previously discussed, we conducted surveys in the upper Yakima but primarily focused on the lowest area of this reach between Easton Lake and the Powerline crossings (about 4 miles upstream of Cabin Creek and near the private land and fish ponds). We focused here because we have more information about spawning in the upper portion of this reach and we wanted to have more data from this lower portion of the reach. We did not get into the middle part of this reach but maybe next year. I think I talked to you after our first survey but not since the second and third surveys...

We surveyed this lower area of the Easton reach three times, according to our protocol, and so that we could determine old and new redds and try to distinguish the redds from chinook redds.

We surveyed on 9/19 and 20; 10/5 and 6; and 10/19. Water temperatures ranged from 10 to 12.5 deg C depending on where and when. Temperatures were 10.5 degrees C on the 1st survey in September, near the site just above the Cabin Creek wetlands, where Tina Mayo observed a redd previously.

Out of 25 or more redds, of which most were determined to be chinook redds, we found three redds that we feel are good bull trout redds. They were smaller in size, used smaller substrate, and were more oblong in shape. We also snorkeled and found 5 adult migratory bull trout under a log jam just above two of the three redds. They were in a very large full channel

— 3 redds

spanning historic log jam sitting down on the bottom in the current (very typical bull trout style). There were also smaller brook trout nearby, swimming in the upper part of the water column and in the pool at the log jam. After talking to Eric Anderson and Yuki Reiss about our observations we feel pretty strongly that these are bull trout redds. I will be submitting the documentation to Eric for his records on this. I am out of town tomorrow until Friday. I will get the notes further written up when I return next week.

2006

FYI...We did flag multiple redds near the area where Tina and you observed redds, but I did not feel any we saw there were bull trout redds, but felt they were mostly chinook redds. The redds in which we saw bull trout redds were further upstream about a mile from where you were at the end of road #4823 in Sec 5...

We did also get one brook trout genetic sample from a brook trout below Cabin Creek.

Talk to you soon.

Herger.Lillian@epamail.epa.gov

09/18/2006 01:14 PM

To
Judy_Delavergne@fws.gov
cc

Subject
Re: Fw: BT Redd in the upper
Yak-cabin creek

Hi Judy,

Actually, I was down there yesterday just to satisfy my own curiosity. The habitat really impressive (tons of wood, sorted gravel, pools, etc.). I saw lots of juvenile fish of at least 3 general age classes (steelhead). Did not see any adults of any species but the area described to me by Tina (and reiterated by you below) did appear to have a new redd. Anyway, I am confident that I have what I need as far as personal communications/data from that area below the Keechelus Res.

Lil

Judy_Delavergne@
fws.gov

09/18/2006 01:00
PM

To
Lillian Herger/R10/USEPA/US@EPA
cc

Subject
Fw: BT Redd in the upper
Yak-cabin creek

Here is an email Tina sent to me a while back...Both of these folks know what a bull trout looks like and have years of experience.

----- Forwarded by Judy Delavergne/WNES/R1/FWS/DOI on 09/18/2006 12:59
PM

Tina M Mayo

<tmayo@fs.fed.us>

Judy_Delavergne@fws.gov

To 03/30/2006 12:45 PM tmayo@fs.fed.us

cc

Subject BT Redd in the upper Yak-cabin creek

Hi Tina,
As we discussed on the phone. Just to be sure of the information you provided to me and for our record. Can you email me the information about that bull trout redd and the sizes of the bull trout you located in the upper Yakima near Cabin Creek. Do you remember the date you were there? It sounded like it coincided with pulling a thermograph.

Thanks.

Judy De La Vergne, Fish and Wildlife Biologist
US Fish and Wildlife Service
Central Washington Field Office
215 Melody Lane, Wenatchee, WA 98801
509-665-3508 ext. 21(office); 509-665-3509 (fax)

"What was big was not the trout, but the chance."
"What was full was not my creel, but my memory."
Aldo Leopold

CC: <Martha_L_Jensen@fws.gov>, <anderea@dfw.wa.gov>, <kreiss@fs.fed.us>,

To 04/05/2006 12:43 PM Judy_Delavergne@fws.gov

cc Karin Y Reiss <kreiss@fs.fed.us>

Subject Re: BT Redd in the upper
Yak-cabin creek

Judy,

After much review through my and Bill Ehinger's field journals and the thermograph field notebooks I didn't find anything that noted the specific date we saw the bull trout. Bill however does recall seeing the fish and redd at the same location and time period that I remember. Here's the facts as Bill and I remember them. We didn't wade into the water to get a real close look because we did not want to disturb the fish.

We were removing thermographs from our long-term monitoring site on the Yakima River at SW1/4, SW1/4, Section 4, T20N, R13E on a spur off of the 4823 road.

It was early to mid-October 2003

A bull trout was on a redd located just off the left bank next to a rootwad, the other fish was just upstream about 5 feet off the bank. Size of redd estimated as 3 feet long x 2 feet wide, fish were about 22-24 inches in size.

Pictures were also taken but I can't locate them either. But I'll keep looking. Let me know if you need anything else.

Tina M. Mayo
Fisheries Biologist
Cle Elum R.D., Wenatchee N.F.
Phone #: 509-852-1068
e-mail: tmayo@fs.fed.us

Eric Anderson - RE: Bull Trout Redd Counts in the S.F. Ahtanum

From: "Brandon Rogers" <brandonr@yakama.com>
To: "Eric Anderson" <ANDEREA@DFW.WA.GOV>
Date: 09/27/2006 3:13 PM
Subject: RE: Bull Trout Redd Counts in the S.F. Ahtanum

After 3 passes, we have only seen 1 redd. I'm not sure what's going on. How have things been in the middle and north forks?

From: Eric Anderson [mailto:ANDEREA@DFW.WA.GOV]
Sent: Wednesday, September 27, 2006 9:12 AM
To: brandonr@yakama.com
Subject: RE: Bull Trout Redd Counts in the S.F. Ahtanum

How are the bull trout redd counts going?

>>> "Brandon Rogers" <brandonr@yakama.com> 09/19/2006 5:51 AM >>>

Yes, but we haven't found a redd to date. Hopefully things will pick up on our pass this week.

Brandon

From: Eric Anderson [mailto:ANDEREA@DFW.WA.GOV]
Sent: Monday, September 18, 2006 8:36 AM
To: brandonr@yakama.com
Subject: Bull Trout Redd Counts in the S.F. Ahtanum

Hi Brandon,
Are you doing bull trout redd counts in the S.F. Ahtanum this year?
Eric

Eric Anderson
WDFW District Fish Biologist
Yakima & Kittitas Counties
509-457-9301
anderea@dfw.wa.gov

2
0
0
6

Eric Anderson - RE: S.F. Ahtanum Bull Trout Redd Count

From: "Brandon Rogers" <brandonr@yakama.com>
To: "Eric Anderson" <ANDEREA@DFW.WA.GOV>
Date: 10/10/2006 9:35 AM
Subject: RE: S.F. Ahtanum Bull Trout Redd Count

4 definite redds

From: Eric Anderson [mailto:ANDEREA@DFW.WA.GOV]
Sent: Tuesday, October 10, 2006 9:31 AM
To: brandonr@yakama.com
Subject: S.F. Ahtanum Bull Trout Redd Count

Hi Brandon,
Do you have a final on the redd count?
Eric

2
0
0
6

From: "Jeff Thomas" <jthomas@pn.usbr.gov>
To: <ANDEREA@DFW.WA.GOV>, <CUMMIJLC@DFW.WA.GOV>, <meyerwrm@DFW.WA.GOV>, <kreiss@fs.fed.us>, "Scott Willey" <swilley@pn.usbr.gov>
Date: 10/04/2006 9:46:40 AM
Subject: NF Tieton Redd Survey

Greetings

Yesterday (10/3) I conducted a bull trout redd survey on the NF Tieton River above Clear Lake. The weather conditions were cloudy and cool with intermittent light rain. The water temperature was 6 degrees Celsius. Flows were low and water clarity was good. I began the survey at the lower boundary of our eleventh 2004 study site, the last one we snorkeled. (To reach this location take Trail 1118 from the end of the road and bear left onto the Tieton Meadows trail [1128]. In five minutes or less you will reach the river where I hung a flag). There were by my calculations about 2.9 miles of river from the start to the barrier falls upstream.

I embarked at 1000 hours expecting to reach the falls by 1300 hours at the latest. I never made it. I believe the river's course has changed since Yuki and I conducted the '04 redd survey. What I encountered was totally unfamiliar. In '04 we had started upstream of where I did yesterday after bushwacking in off of Trail 1118. My guess is that it may have been about a half a mile above where I started. We did not have much difficulty moving upstream and in a little more than an hour reached an area where the river opened up, the gravels were clean, and the water clarity improved markedly. It was in this area that we found the redd and observed the two bull trout. The falls were about 30 minutes upstream of this area. In all the survey took one hour and 40 minutes.

Yesterday, after moving upstream for about two hours and 15 minutes I encountered a split channel. I took the one on the right and soon found myself in a total maze of channels and deadfall. Alone and not wanting to get lost, I went back and tried to go up the left side. I did not go far (a beaver dam) before it was obvious that this channel was also ill-defined. I absolutely do not remember this being the case on '04. We had no such confusion following the channel. Somewhere above this maze the stream must open up again but by the time I was through beating through these channels it was 2:00 PM and I gave it up. Sorry to say it was not a complete survey and the best spawning habitat was likely upstream. If anybody else wants to give it a shot go for it. I suggest you not go alone.

Oh yeah- I found what appeared to be a bull trout redd about one hour and 40 minutes into the survey. Marked it as probable and did not observe any fish.

1 Redd

Cheers,

Jeff

From: William Meyer
To: Anderson, Eric; Reiss, Yuki
Date: 08/29/2006 3:01:21 PM
Subject: Re: NF Teanaway & Tribs

Eric, We found tons of cutthroat trout up high... snorkeled up both Deroux Cr. and NFT above their confluence, a reach below Eldorado Cr., and then two reaches up Stafford at the confluence with Bear Cr. and ~1/2 mile below on Stafford. Also snorkeled near the Jack Cr. Acclimation facility, and then again upstream on two other reaches in the NFT below Beverly Camp, but above the NFT road jct.

Results: No bulls (although I haven't heard back from Judy on their last section on the last night)... lots of CT, lots of long-nosed dace, RBT lower in the NFT. And happily we didn't see any Brookies up high on the NFT, but we did see some at Jack Cr. at the barrier culvert (County Rd). No Brookies up Stafford either, which is good. Found a bar of soap in the NFT, but didn't use it... tossed it up on the bank. Not much else for river-booty that I am aware of... but Yuki may have found something.

Also, checked Box Canyon again, and the reservoir is still high - backwatering the lower stretches of the creek. Did find another 3 lures, bringing the total to 13 in that back-watered stretch of creek. No bulls in the Peek-a-boo falls area yet, but they'll be in there by this weekend (at least they usually are by the 31st), and I have notified the USFWS agent, plus Steve Rogers and will try calling the USFS today. I did not see any fishing gear in the pools of the area, which is a first. I may be checking on Box Canyon myself sometime this weekend. I'll send along my notes for the file when I get a break in the action.

I'm going to be heading out next week on Tues/Wed. with the EIT guys for their annual index work - if they see something, I'll try and catch it and get some genetic data. Also, Yuki and I discussed heading back up in mid Sept. to the areas where we got some of her genetic samples for the grad. work. Its not promising though, as Todd says they've seen 3 BT in the last two years of index work. Talk to you soon. William

William Meyer, Area Habitat Biologist
Washington Department of Fish and Wildlife
201 North Pearl St.
Ellensburg, WA 98926
509-933-2491
Fax: 509-925-4702

>>> Eric Anderson 08/29/06 2:32 PM >>>

Did you see anything interesting in the N.F. Teanaway/trib snorkel surveys? Any new info?
Eric

CC: Morgan, David

From: William Meyer
To: Anderson, Eric; Fraser, Hank; Reiss, Yuki; Thomas, Jeff; Torretta, Gary
Date: 09/29/2006 11:07:51 AM
Subject: Re: Box Canyon BT Redd Survey #1

Eric, Sorry about the confusion. The USFS/USFWS/WDFW survey was on the N.F. Teanaway and Deroux Creek. We'll complete another survey next week.

We finished the first Gold Creek Survey yesterday, and observed 4 redds and a couple fish. Gold Creek is still disconnected from the pond area upstream, and more interestingly, the upper spawning reach near the trail crossing is barely connected to downstream areas, and completely disconnected with the upper reaches towards the falls. I also observed several fry in between the two sets of falls - I suspect they were CT - perhaps they dropped down from one of the lakes above, or

Snorkelled Cold Creek last night as part of pre-project monitoring for the Cold Creek Passage project by USBOR at Keechelus. We found lots of CT, a few sculpin, tailed frog tadpoles and 3 Pacific Giant Salamanders. I'll forward the notes soon.

I'll be up at Rimrock this Sunday to observe the Motocross race. Karl Halupka and I worked together with the USFS and the moto-club to find the best locations for bridge crossings. They will be bridging all locations for dry crossings, and there will be plywood on the approaches and bridge observers to ensure people follow the designated route. Generally, we chose riffle stretches that were away from spawning kokanee and in areas that bull trout are unlikely to hold. The far more serious problem is managing traffic on the reservoir bed earlier in the fall when the general public seems to be running all through the creek and river. As you mentioned, we observed both motorcycle and truck tracks crossing those waters - right through kokanee spawning areas. I plan on engaging the USFS on finding a solution to this problem.

Talk soon. William

William Meyer, Area Habitat Biologist
Washington Department of Fish and Wildlife
201 North Pearl St.
Ellensburg, WA 98926
509-933-2491
Fax: 509-925-4702

>>> Eric Anderson 09/27/06 3:12 PM >>>

Thanks for the report William & thanks to everyone for helping. Was that work you did with the USFS & USFWS where you saw a definite and a few possibles in The N.F. Teanaway? We are staying busy. We wrapped up the American system, Deep Creek, & Rattlesnake. Still have to put a wrap on Crow, S.F. Tieton, Indian & the Ahtanum system. Later....Eric

>>> William Meyer 09/27/2006 2:08 PM >>>

Eric, Attached is the BT redd survey #1 form. Nasty otters up that way... 5 big dead BT massacred by them. I got out a trap, but we'll see.

On other fronts, did a BT survey with USFS and USFWS yesterday and we did see one definite redd plus some possibles. Another project, Keechelus/Crystal Springs snorkel below the dam last Monday night - we saw 3 large BT and some large hybrids, as well as some BIG brookies - 15 or 17" I believe. Ugh. Anyway, the Chinook are spawning up there now, and we saw a burbot, plus hundreds of juv. Chinook rearing... interesting. Will start the 1st Gold survey tomorrow with Scott W. and possibly Yuki, and then another planned with Paul James on the following Friday Oct. 6th. Willey was just up at Gold, and no Kokanee spawning yet... I'm thinking the 1st week in October will get you some samples - checked my field notes and that looks like the mark, but I'll keep you updated if I see any action before then. I'll try and get up to Box again next week for survey #2. I'll get you notes on all this action, but it might take a few

From: "Scott Willey" <swilley@pn.usbr.gov>
To: <jamesp@cwu.edu>, <anderea@dfw.wa.gov>, <meyerwrm@dfw.wa.gov>, <kreiss@fs.fed.us>, <rwassell@fs.fed.us>, <David_T_Morgan@fws.gov>, <jeff_krupka@fws.gov>, <Judy_Delavergne@fws.gov>, "Jeff Thomas" <jthomas@pn.usbr.gov>, "Lance Clarke" <lclarke@pn.usbr.gov>, "Scott Kline" <skline@pn.usbr.gov>
Date: 10/02/2006 8:19:59 AM
Subject: Re: Redd surveys and snorkeling

Yuki,

I will gladly volunteer for redd surveys on Box Canyon, Kachess, Gold and Upper Bumping. Sorry, but I can't commit to a survey on Tuesday or Wednesday of this week (October 2-6). Sounds like you and William are organizing the redd surveys on several of the index streams this year.

Let me know when the surveys need to be done for the above referenced streams and I'll pencil them into my calendar. Note: William and I did Pass #1 on Gold Creek on Sept. 28th and found a few redds. Gold Creek was still disconnected due to low flows upstream of Gold Pond, but rain showers on Sept 19th and 20th had increased the flow through the dewatered reach to the point that surface water was ponding up and even flowing in several places. One more decent rain shower should make it passable for bull trout.

Scott Willey
Fisheries Biologist
Bureau of Reclamation
Upper Columbia Area Office
1917 Marsh Road
Yakima, Washington 98901
(509) 575-5848 ext. 243

>>> Karin Y Reiss <kreiss@fs.fed.us> 9/28/2006 1:48:12 PM >>>

Just wanted to send out a quick FYI on some plans for next week, with hopes of rounding up some willing vounteers.

William and I are planning on finishing up the NF Teanaway snorkel project by snorkeling the rest of DeRoux Creek on Wed night (Oct 4). We will not be sampling, to avoid handling fish during spawning season, but we thought it would be good to have as complete a picture as possible of where BT are (and aren't) this season). We will go up early and do a 2nd pass of redd surveys on DeRoux and NFT above the confluence that afternoon. If there is anyone itching to get out for one more night, we were thinking it might be interesting to snorkel above the NFT falls as well. And we could use more people to cover the lower section of NFT (redd surveys). William, David and I did Pass #1 this week and found one redd in DeRoux, and several

possibles.

I am planning on doing Pass #2 on Box Canyon Tues, and am looking for a survey partner. William did Pass #1 last week and found a sad scene of otter predation - 5 adults dead, and they only saw 1 live fish, and some test digs.

I also wanted to solícite any offers of help to cover other Upper Yakima streams - Gold, Kachess, Box, Cle Elum. How about Upper Bumping? NF Tieton?

I know we are all busy, and supposed to be doing other things, but the nice part of the cooperative effort is not as much burden on any one agency.

I'll be back in the office on Monday, and between William and I we are trying to organize the effort. Hope to see some of you soon!
Yuki

K. Yuki Reiss
Fisheries Biologist
Okanogan-Wenatchee National Forest
kreiss@fs.fed.us
new phone: (509) 653-1443

From: <Judy_Delavergne@fws.gov>
To: <kreiss@fs.fed.us>
Date: 10/02/2006 6:16:19 PM
Subject: Yakima/Teaway, Easton pool

It sounds like Jeff K and I will do as much of the Yakima as possible on Thursday and Friday.

Jeff T I understand you can't make it Thursday. William I understand you cant make it either day. But those are the only two day we can help out there.

So, unless I hear from William or Jeff that they were able to go out on Tuesday or Wed. to do a part of the upper portion of the reach or have made other plans to to part of the Yakima, I am prepared to try to get as much of the Yakima done as possible on those two days.

Yuki, if you and William could let me know if you did get done the stretch on the Teaway from the confluence of Deroux upstream in the N. Fork and Deroux creek, that would be great. For now as we discussed, I will assume you are only doing those areas and we will get the lower portion of the N. Fork on either Thursday or Friday. We will start at Johnson Creek and go to the confluence of Deroux.

If you have more folks show up feel free to go down to Yahoo if you want to...just let me know where we will need to end our portion of that survey then....THANKS.

All, We are planning on night snorkeling below Easton Dam on Thursday Night, If you are interested and able...you can meet us at the BOR gate inside the Easton State Park entrance around 7:00pm. We will just walk up from the state park to the pool.

Judy De La Vergne, Fish and Wildlife Biologist
US Fish and Wildlife Service
Central Washington Field Office
215 Melody Lane, Wenatchee, WA 98801
509-665-3508 ext. 21(office); 509-665-3509 (fax)

"What was big was not the trout, but the chance."
"What was full was not my creel, but my memory."
Aldo Lepold

CC: <meyerwrm@dfw.wa.gov>, <jthomas@pn.usbr.gov>, <swilley@pn.usbr.gov>, <skline@pn.usbr.gov>, <anderea@dfw.wa.gov>, <David_T_Morgan@fws.gov>

From: William Meyer
To: Anderson, Eric
Date: 10/02/2006 9:24:26 AM
Subject: Re: Box Canyon BT Redd Survey #1

Hi Eric, Scott Willey saw one redd below the ponds, just above the frontage bridge 100m or so, and then another after the main channel watered up again - towards the wilderness boundary. I observed two redds - one was below the trail crossing and one was above the trail crossing, and the upper stream de-waters above that... with no redds as of then above it. I have found carcasses up that way (above the upper dewatered reach) before and assumed they spawn up high. Hope this answers your questions, and maybe one of these days we'll catch up on the phone or in person. William

>>> Eric Anderson 09/29/06 2:16 PM >>>

Thanks William,

Where did you see the redds & couple of fish; below the pond area?

Were the fish on the redds? In the past I have seen redds above the dry area since there are a few fish that move up before it goes subsurface.

Eric

>>> William Meyer 09/29/2006 11:07 AM >>>

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Talk soon. William

William Meyer, Area Habitat Biologist
Washington Department of Fish and Wildlife
201 North Pearl St.
Ellensburg, WA 98926
509-933-2491
Fax: 509-925-4702

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Later....Eric

>>> William Meyer 09/27/2006 2:08 PM >>>

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On other fronts, did a BT survey with USFS and USFWS yesterday and we did see one definite redd plus some possibles. Another project, Keechelus/Crystal Springs snorkel below the dam last Monday night - we saw 3 large BT and some large hybrids, as well as some BIG brookies - 15 or 17" I believe. Ugh. Anyway, the Chinook are spawning up there now, and we saw a burbot, plus hundreds of juv. Chinook rearing... interesting. Will start the 1st Gold survey tomorrow with Scott W. and possibly Yuki, and then another planned with Paul James on the following Friday Oct. 6th. Willey was just up at Gold, and no Kokanee spawning yet... I'm thinking the 1st week in October will get you some samples - checked my field notes and that looks like the mark, but I'll keep you updated if I see any action before then. I'll try and get up to Box again next week for survey #2. I'll get you notes on all this action, but it might take a few days.

Hope you and Jim are doing well, and I know you guys are staying more than busy. Talk soon. William

William Meyer, Area Habitat Biologist
Washington Department of Fish and Wildlife
201 North Pearl St.
Ellensburg, WA 98926
509-933-2491
Fax: 509-925-4702

From: William Meyer
To: Anderson, Eric; Fraser, Hank; Reiss, Yuki; Thomas, Jeff
Date: 09/27/2006 2:08:23 PM
Subject: Box Canyon BT Redd Survey #1

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Access is USFS Road 4823. Road is washed out at ^{Yukona} River

Surveyed 9/20/06; 4 possible redds

10/5 & 6/06; 22 possible, 2 probable, 3 definite

10/19/06; 13 possible, 2 probable, 3 definite

Adults observed - 5 Bull Trout 20-25"

Temperatures - 9/20 - 10.5°C

10/5 & 6 - 10.8-12.5°C (11.5 Avg)

10/19 - 10-10.5°C (10.1 Avg)

Reach: Cabin Creek wetlands up to powderlines

Surveyor: Judy De la Vergne

Phone - 509-665-3508 ext 21

