

1996

Deep Cr. 46
 Indian Cr. 193
 S.F. Tieton R. 146
 Bear Cr. 45 \rightarrow 233
 American R. 12 \rightarrow 25
 Union Cr. 13 \rightarrow

125
 34
 159 94
 35
 125

Rattlesnake Cr. 30 \rightarrow 38
 L. Wildcat Cr. 6
 Dog Cr. 2

11
 6
 17
~~76~~
~~94~~

N.F. Teandway R. 0 \rightarrow 2
 DeRoux Cr. 2 \rightarrow

N.F. Ahtanum Cr. 3 \rightarrow 5
 Shellneck Cr. 2 \rightarrow

M.F. Ahtanum Cr. 1
 Box Canyon Cr. 8
 Gold Cr. 51

94
 31
 34

25

Def
 36 180
 55 4
 10
 19 184
 13 9
 23 193
 233
 180
 Prod. 1
 3
 2

146
 45
 233

159 117
 49 4
 208 21

34
 11
 45

188
 45
 233

211 21
 212 21
 21 21
 233

1
 9
 9
 6

9/18/96

1

N.E. Ahtanum Cr. "BLC" (Bull Tr.) Spawner
(Redd Count) Survey

E. Anderson (WDFW) + Larry Dominguez (DNR)
(Larry conducting watershed analysis),
Grey Rock C.G. to Shellneck Cr.

1015 - 1330 HRS H₂O Temp 40°F Turbid.

Bull Tr. (Fish) 111⁽³⁾ Def Redds 11⁽²⁾

Bull Tr. hiding undercut bank near
redds - cattle trampling banks +
walking in stream thru redds (1 large
bull + 4 cows, 1 calf) walking down middle
of stream, numerous cow X-ing's. Larry
will note + tell managers in report about
cows (cattle) trampling seeps (springs) etc.

Shellneck Creek 9/18/96

Redd Counts for Bull Tr. (Anderson)
Dominguez

H₂O Temp. 42°F 1345-1545 Hrs

Def Redd 1 Fish 11⁽²⁾ in pool 1 @ 14" 1 @ 10"

Cattle crossing thru stream in upper
end of spawning area - turbid H₂O
From crossing - Spooked 3 cows out of
stream - cow pie + tracks on redd tailout

9/30/96 Shellneck Cr. BLC
Spawning Survey
Mouth upstream to log rd
crossing.

E. Anderson - H₂O Temp 42°F
0945 - 1130 Hrs.

Old Redds

Fish

Def. 1

∅

New Redds

Fish

1

∅

1 cow jumped out of creek
bed in upper index.

No cows by redd this time
but more tracks + sign of
cows in stream than last
survey.

9/27/96

N.F. Tommy above
Rock Cr.

in 6" submerg observed above
large falls.

start 1400 - 1515

Falls in $\frac{1}{2}$ mile up 3- $\frac{1}{2}$ to 4- $\frac{1}{2}$
possible block to majority falls

Water Temp. 48°F

Another 12-15 vertical drop

Falls - definite block to
interesting ble in 1 mile up?

Several 10-12" submerg observed
in pools below large falls.

10/1/96

1200 - 1430

N.F. Ahtanum (Shellneck to
Grey Rock C.G.

Old-1 Pos changed to 1 Def^{New}

11² old Def Redds & Fish

✓ 3 Def. Total

2 Def below Snow Cabin C.G.

1 Def between Snow Cabin C.G. &
Shellneck C.G.

Continue to observe lots of
cattle wandering thru the
index area. Redds very
exposed to trampling, 2 Redds
OK, 1 Redd with cattle tracks
all around & cow pattie on
tailout of redd.

Oct, 9, 1996

American R. BLC Sparrow
Survey.

E. Anderson, J. Cummings

- 1/4 mile above bridge at
Lodgepole C.G. to Musatche
Cr. Trailhead parking lot.
~ .75 mile.

Perf Radd's

HH 1

Fish

φ

9/26/96 1015 - 1115 Hrs.

American R. BLC Spawning Survey
≈ 400 yds downstream of Union Cr.

E. Anderson H₂O Temp. 42°F

Old Redds

Fish

Def. III

φ

→ did not check.

(Includes

1 Def 1 mile down, 1/4 mile up from Kettle Cr.)

New Redds

Fish

Def. III

φ

1

Future Index area From Union Cr.
to 400 yds. downstream?

Did not resurvey American R. to
Kettle Cr., only surveyed Index
area ≈ 400 yds down from
Union Cr. (Slightly below Cabin
overlooking L. Bank.)

Resurveyed area above Union Cr.
≈ 1/2 mile - no Redds or Fish
observed.

3

9/26/96

1135 - 1230 HRS

Union Cr. BLC Spawning Survey
Mouth to Falls $\frac{1}{4}$ mile

E. Anderson H₂O Temp 44 °F

Old Redds

Fish

Det. IIII IIII

Prob.

Pos. IIII

New Redds

Fish

1

Note: 1 Old Prob. changed to 1 New Det.

9/27/96 De Roux Cr BLC

Spawning Survey E. Anderson

1100-1330 Hrs, H₂O Temp 44 °F

Mouth to upstream → ≈ 300 yds above

TR 1392 crossing on De Roux Cr. (Junction TR 1392 + TR 1392.1)

Redds

(BLC) Fish

Ref. 11

φ

Redds observed within $\frac{1}{2}$ mi. of mouth
(≈ 600 yds then start 2-3 1/2 foot vertical falls - possible block for migrating hatches)

Observed numerous Fry & CT + RB

≈ 3 in. → 9 in. in pools. Some other fish unidentified salmonids.

Redd Sizes (Dimensions)

Length from leading edge of pit to tip of tailout + width across widest point (pit or tailout).

29L x 22W (across pit), 24L x 12W

Salmonid
abandon
Falls.

Block to BLC passage
≈ 1/4 from mouth.

* TR 1392.1 is M. F. Tanager Trail.

≈ 20' Cascade/shute falls several hundred yards above Trail crossing on De Roux Cr.

From above bridge $\frac{1}{2}$
mile down
440 F

M1140 Cr.

1330 \rightarrow 1500

15' Vertical Cascade Falls
at 410 Bridge

15' vertical cascade Falls second
Above - ~~series of~~ ^{main channel} series of ~~4-12'~~
Falls, ^{Drys up before}
Anderson R.

~~American~~ series of Beaver Ponds
at ~~mouth~~
Morse to down about

(Westerly direction) 1st Left Rd Past
1500 - 1630 \uparrow Lodgepole Co.

most Redds ^{within} ~~the~~ ^{furlet} of ^{some}
Probably ~~change~~
5 Redds - ~~probably~~ ^{change}
~~of~~ ~~BEC~~ ~~over~~

5-8' 440 F

Find out from Tribe where
check Redds are.

1225

9/24/96

1020 Box Canyon Cr BLC

Spanning Survey

Fish is observed, 100%

Water not very alkaline

43°F

Put Monty

E. Lake

~~Survey~~

No Redds observed
although there was one
possible questionable
area - perhaps
old redd.

Did not appear
fresh at all.

No Macroinvertebrates observed

9/23/96

M.E. Ahntanum Cr. BLC Spawning
Survey 1015 - 1530 HRS.

E. Anderson, H₂O Temp. 37°F

Ice starting to form in a few
areas along cr.

From .75 mile below Tree Phones
C.G. to Tree Phones C.G.

Steep ^{Fairly} gradient with cascades
in lower section to braided
channels with good cover
& slower flows (flatter gradient)
and good spawning gravels in
upper section near Tree Phones
C.G.

No fish observed, no Redds
observed.

Possible block to BLC passage
in lower section due to 4 ft
vertical falls created by woody debris.

9/23/96

M.E. Altatum Cr. BLC Spawning
Survey 1015 - 1530 HRS.

E. Anderson, H₂O Temp. 37°F

Ice starting to form in a few
areas along cr.

From .75 mile below Tree Phones
C.G. to Tree Phones C.G.

Steep ^{Fairly} gradient with cascades
in lower section to braided
channels with good cover
& slower flows (flatter gradient)
and good spawning gravels in
upper section near Tree Phones
C.G.

No fish observed, no Redds
observed.

Possible block to BLC passage
in lower section due to 4 ft
vertical falls created by woody debris.

9/20/96

S.F. Tieten R. BLC Redd Survey

E. Anderson, H₂O Temp. 42 °F

0915 - 1230 Hrs.

Falls to Bear Cr.

Old Redds

Fish

Def. III III III

II

III III

Prob. II

Note

Pos. IIII

includes 2 Flags that were left as definite, but should be changed to Pos. - I made a note on the flags - where is redd?

New Redds

Fish

Def. III I

IIII

but did not change the notation on the flag

Prob. II

I

Pos. I

Notes:

IIII

old Prob. changed to old Def.

See note

I

old Prob. changed to old Pos.

above

III

old Def. changed to nothing

9/20/96

S.F. Tieton R. System (Bear Cr.)

BLC Redd Survey

E. Anderson H₂O Temp 43°F

1300 - 1500 Hrs.

Mouth to Falls

Old Redds

Fish

Def. IIII IIII IIII

IIII IIII

IIII IIII IIII IIII

Prob. IIII IIII

Pos. IIII IIII IIII

New Redds

Fish

Def. I

II

Prob. IIII

II

Pos.

Notes:
1 Old Def. changed to nothing
IIII IIII Old Prob. changed to Pos.
1 Old Def. changed to Pos.

9/11/96 E. Anderson
American R. (Union Cr. to
Kettle Cr.)

1115 Hrs Water Temp 48°F - 49°F

1 BLC observed below
mouth of Union Cr.

~~Def~~
Def III " Fish II

(Def 100 yds downstream Union Cr.)

Temp at Redd 49°F

(1 Def 400 yds downstream Union Cr.)

(1 Def $\frac{1}{2}$ mile up from Kettle Cr.)

↓ H₂O Temp on Redd ~~50~~ 50°F
(Redd Near Log Jam)

End time 1315

9/11/96 Union Creek (American R.)

E. Anderson 10 10 hrs

BLC Redd Survey

H₂O Temp. 47°F - Union Cr.

American R. Temp above Union 49°F

Det. ~~NI~~ ~~NI~~ ~~NI~~ Fish ~~NI~~ ~~NI~~

≈ 17-26"

Prob. 1

1 smaller fish

≈ 14"

Pos. III

Survey end at Falls. ≈ 1/4 mile

(Barrier Falls ≈ 100' Falls

- upper falls)

End Survey 1110 Hrs.

9/13/96 N.F. Teanaway R.
BLC Spawning Survey
E. Anderson
H₂O Temp. 50°F
Approx. 6.7 miles upstream
of Junde Cr. on USES
Spur Rd 225.
Start 1150 Hrs.

1 possible
300 yds
below confluence
of De Roux
De Roux
Cr. Co. B.

1

Boulder De Roux Trail No 1392
N.F. Teanaway Spur
Gullagher Head Lake

100 yds up
R.B.
1 possible
De Roux

De Roux Creek 48°F
N.F. Teanaway 50°F
Junction. Surveyed 400-500 yds
of each

2

Quit 3:30 pm Rd 120
(at Trail No 1392 & N.F.)
Crossing.
Stafford Cr. 55°F 1700 Hrs. N.F.
56°F

Gold Cr. BLC Sparrow, Sunny
Anderson, Wyo.

below Silver

Def - ~~||||~~ ||||

Fish ~~||||~~

9/16/96

47°

~~4~~ Redds within 400 yds
of Silver creek below

above Silver

Def. 1 approx. 300 yds
above Silver,

go approx. 500 yds
above Silver to split
(large woody debris seen
and side trib).

Oct. 7, 1996 E. Anderson
Gold Cr. BLC Spawner Survey
H₂O Temp 52 °F 1020-1615 hrs.

Thermometer Accurate?

Old Redds Fish

Det. ~~NI~~

Prob.

Pos.

New Redds. Fish

Det. ~~NI~~ ~~NI~~ ~~NI~~ ~~NI~~ ~~NI~~ ~~NI~~ ~~NI~~ ~~NI~~ ~~NI~~

Prob. III

Pos. ~~NI~~ III

1 Dead BLC (half of Fish found).

Notes: Main channel dries up \approx
 $\frac{1}{4}$ mile above Gold Cr. Pond for
 \approx 50 yards. - Possible stranding of
BLC above. Several hundred yds
of dry channel $\frac{1}{8}$ mile below ^{to upstream} truck
crossing. Active logging on right bank
near (50'-100') from channel. Heavy
Equipment being driven into

channel (wet & dry) below temp.
truck crossing. Rip rap
being placed in stream
(blocking water flow) in area
 $\frac{1}{8}$ mile below temporary truck
crossing.

1st Redds (2 Def) $\approx \frac{1}{8}$ mile
or several hundred yards
above temporary road
crossings - near split channel
above split channel, - Right
channel.

Ended Survey at Falls
Last Def. redd at tailout
of lower pool at cascades.

Ski Tur Valley - Gate Locked
R. junction.

Go past Gold Cr. Pond Picnic
area - R. Junction.

Gold Cr. BLS Spawner
Survey Find on Oct.
9 + 11 Scott Craig SPS
of Redds.

Ref
46

Fish
0

Prob
5

Redds From Pond to
Cascades.

10/3/96 E. Anderson

Indian Cr. BLC Spawning Survey
Above N. Spring 1515 - 1530 HRS

Old Redds

Fish

Def. III

Prob.

Pos.

New Redds

Fish

Def. I

Prob.

Pos.

Met Jim C. short way above
N. Spring.

Notes:

~~Old~~ Old def changed to ϕ .

10/3/96 E. Anderson 1240-1455 Hrs
Indian Cr. BLC Spawning Survey
H₂O Temp → 45 °F

N. Spring

Old Redds

Fish

Def. ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||~~ ~~φ~~
~~||||~~ (|||| ← above beaver pond)

Prob.

Pos.

New Redds

Fish

Def. ~~||||~~ ~~||||~~ || (||||) ↑
above beaver pond

Prob. |||

Pos. 1

Notes:

1 ~~||||~~ old Def. changed to φ.
old Prob. " " φ.
old Pos " " φ.

1 Large Tagged bull above beaver pond.

10/3/96 E. Anderson 0900-1240 hrs

Indian Cr. BLC Spawning
Survey. H₂O Temp. 45°F

Hwy 12 Bridge to N. Spring
Old Redds Fish

Def. ~~III~~ ~~III~~ IIII 0
III III III

Prob. 1

Pos.

New Redds Fish
Def IIII 0

Prob.

Pos.

Notes:

- II III Old Prob. changed to ϕ
- II " Pos. " " ϕ
- II III " Def. " " ϕ

9/23/96

M.E. Altatum Cr. BLC Spawning
Survey 1015 - 1930 HRS.

E. Anderson, H_2O Temp. $37^{\circ}F$

Ice starting to form in a few
areas along cr.

From .75 mile below Tree Phases
C.G. to Tree Phases C.G.

Steep ^{Fairly} gradient with cascades
in lower section to braided
channels with good cover
& slower flows (flatter gradient)
and good spawning gravels in
upper section near Tree Phases
C.G.

No fish observed, no Redds
observed.

Possible block to BLC passage
in lower section due to 4 FT
vertical falls created by woody debris.

Junction of A2400 & A2000 (main rd)
M.K. Rd Junction

10/01/1996

1230-1500 42°F at 1500

1 Def 2 Pos

Beaver Sign to Bridge

Miles 1.4 miles

Turn left before cattle guard
on Rd 2400

Bridge over
Rd ~~2400~~ A2400

1 Def 1 Pos

upper edge slightly
lower edge

Bridge & Campground

campground
parking
Lot B

substrate fairly hard packed with
better gravel in lower section
near Campground.

Looks like better spawning
substrate & less gradient

From ~~2400~~ 1.75

C.G. at 2400 S rd to

downstream survey next year, to
include more area downstream

Need to Survey from Bridge

over M.F. at R 2400 CG

to downstream

9/19/96

M. F. Anturan Cr. BLC

Redd Count Survey

1100 - 1600 Hrs.

Beaver Dam sign to

Tree Phones C.G. at 4.0 miles.

Numerous cows in & along
riparian corridor & stream.

H₂O Temp. 44°F.

Ref.

No Fish

Observed

Prob.

on Redds

Pos. 11

End ~~approx. 1/4~~ ^{.75} below

Tree phones C.G.

Surveyed at 3.25 miles.

Unidentified fish observed

in pools $\approx 8''$; some were

cutthroat.

1400 - 1630 Hrs

10/1/06

N.F. Antennae / N.F. Antennae

Rd A2400 Bridge

downstream to 1 mile

H₂O Temp 47°F

⊙ Red's

⊙ Fish

S. F. Tipton 10/2/96

Brew Creek to Coral Creek

Old Redds			New Redds		
Det	Prob	Pos	Det	Prob	Pos
43	4	5	6	0	0

Trap upstream to Eric -
Just above bridge (road to
no where).

	New Redds		
<u>Est. 63 BAC</u>	Det	Prob	Pos
	2	0	0

From trap downstream 1/2 mile	New Redds		
	Det	Prob	Pos
	1	0	1

Jim Cummins

S. F. Tietz - Trap 33

downstream ^{3/4} 10/2/96

1305 - 1345

Reeds

Def

Prob

Pos

1

1

NO FISH

Trap upstream to Eric 10/2
Eric was additional data

Reeds

Def

Prob

Pos

Fish

11

2 of 2

##

##

###

##

##

##

|||

S. F. Tipton R. 10/2/96

Bear Creek to Coral Creek

Old Redds 15.5A

def Probs Pos

HHH HHH IIII HHH II

HHH HHH

HHH HHH

HHH HHH

III

New Redds

def Pro Pos

HHH

I

Changes

HHH delete Probs

~~HHH~~ delete def.

HHH II

S. F. Teton

9/6/96 20

1050 Road - Grey Ck

1045 - 450 F.

Dot	Prob	Pos	#	Fish
###				### ##
###				### ##
##				##
##				

1

Falls to Bear Ck

Dot	Prob	Fish
5	1	16

2

Bear Creek

12	4	19
----	---	----

3

Bear to 1050

3	1	77
---	---	----

4

Tim Eichter

9.11.96

1.6 miles

American River \rightarrow

Union crk. To Lodge Pole C.G.

DEF.

Prob.

Poss

of fish.

Chinook, 2 Mackerel #, 8/21

No fish observed in the
American from Union crk

to Timber crk. No redds -

Timber crk up to 8 ft
falls approx. 350 yds.

No fish observed no redds

Union crk to lodge pole $\frac{1}{2}$

mile up some good gravel

for spawning. $\frac{1}{4}$ mile from

• Hedge pole up & down
No good gravel 'beds
mostly BED ROCK, 2
pools with A maybe
good areas with some
gravel.

The only area that
had some good gravel
was from Union crk up
1/2 mile lots of log jams
Some good gravel areas
2 Chinook redds marked
on 8.21.96. in this
1/2 mile stretch.

9/11/96 · **1** Start 10 AM

American R. - surveyor J. Shannon

① Pleasant Valley C.G. up $\frac{1}{4}$ mile
nothing seen

② Kettle Cr. 48°F

- up approx. $\frac{3}{4}$ mile

- no fish no redds

- water cooler than Main American

- a few wood debris falls

2-4 Ft. along the way

- good spawning gravel

- low flow at mouth possible

barrier if drought year

2

Scott Valley 9/5/96 19
Inchan Cr - Upstream from
Trail to Upper South Spring
Redds

Def Prob Pass Tagged Untagged
4 1 2 0 4

South Spring

8 - - - - 7

Upper South Spring

11 1 1 - 10

Upper South Spring to Falls

12 3 4 4 6

Indian Cr. - 9/5/90 18
0940 - 47°F

Highway 12 to North Spring
Redds Fish.

D-F Prob Pos Not Tagged Tagged

HHH	1	HHH	HHH	HHH
HHH			HHH	HHH
HHH	1		HHH	HHH
HHH			HHH	HHH

Upstream of N. Spring

HHH	1	HHH	HHH
HHH	2	HHH	HHH
HHH		HHH	HHH

North Spring (Jim)

7	3	14	4
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Trap 31 total 3 tagged

Sept 5, 1996

Indian Creek

Reach

Trail to N. Spring
Main channel

DEF

PROB

POSS

TAGGED
FISH

untagged
FISH

|||||

||

|||

|||||

(4)

(1)

(2)

(4)

S. Spring

|||||

(8)

|||||

(7)

N. Spring

|||||

(11)

(1)

(1)

|||||

(10)

N. Spring To Falls

|||||

|||||

(12)

|||

(3)

|||||

(4)

|||||

(4)

|||||

(1)

Indian Creek 10/3/96

Trail end of road to 34
Upper S. Spring.

Old Redds	New Redds
Det Prob Pos	Det Prob Pos

1

BNC -

||| delete pos
 | delete prob
 || delete def

2

South Spring

Old Redds	New Redds
Det Prob Pos	Det Prob Pos

|| delete prob ||| delete def

0 Fish

Indian Creek 10/3/96 3c
Trail down

Old Redds		New Redds			
Den	Arb	Pos	Den	Arb	Pos
HHH	I	II	HHH		
HHH					
HHH					
HHH					
HHH					

HHH Arb deleted
HHH den deleted

Indiana Creek JC 10/3/96
 Trail + Upper South Spring
 Old Redds New
 Det Prob Pass Det Prob Pass
 8 0 0 2 0

South Spring
 Old New
 Det Prob Pass Det Prob Pass
 17 1 0 2 0 0

Upper South Spring
 Old New
 Det Prob Pass Det Prob Pass
 12 1 0 1 0 0

Upper S. Spring to Falls
 Old New
 Det Prob Pass Det Prob Pass
 18 2 3 5 0 0

over

Indian

Trail down to meet
Eric above N. Spring

Old Pos			New		
Det	Pos	Pos	Det	Pos	Pos
24	1	2	4	0	0
<u>3</u>			<u>1</u>		
27	1	2	5		

my section →

Indian Creek 10/3/14 35

Upper South Spring
Old Redds New Redds

Def Prob Pos Def
HHH 1 1
HH

HHH Delete def

11 Delete Pos

1 Delete Prob

1 Chas Pos to Prob

1 Fish
1

Upper S. Spring to fall
Old Redds New Redds

Def Prob Pos Def Prob Pos

HHH 11 111 HHH

HHH

HHH

HHH

2

1 Delete Prob.

1 Delete Def

Total Indian Creek 37

Redds on 10/3/96

Def + Prob

10 37

20 54

12 4

25 95

30 95

199⁹⁷

95⁹⁷

194⁹⁷ Redds

Ck Elm Riv.

22

Falls in Sec 23 SE 1/4 to Fortune
Creek Start 10³⁰ - 1150

55°F

RS [b

20 11

20, 3

19, 5

11

HH

14, 5

21

~~25~~

16

14

By Road miles I started
1.2 miles below Fortune Ck

No BHC Redds

Typical boulder zone stream,
- some bedrock + few deep pools.

Cle Elum R 9/15/94 23

Future Creek to Silver Cr.

1215-1400 F

<u>RS</u>	<u>EB</u>	
16	13.5	Very good
18		gravel +
16		some deep
18		long pools
16.5		
15.5		No BHC
14		redds.
12		
12.5		
20		H + V
16		
12		
17		

See Eric's data
for this section

Cle Elm Riv. 9/10/96 24
Boulder Cr - up 1/4 mile

1450 - 15¹⁰

RS

16.5

24.

19

19.5

16.5

H & L

Steeper gradient than
above - mostly large
boulders & some fine
gravel

Box Canyon BHC Survey '25
1050 - 48°E

No reads

9/11/96

No live BHC

5 8-9" Ct.

2 live packages

Passage OK all the way
to LK, 10 water flowing
to LK.

Found 1 dead 66cm BHC
Animal Kill? - large site
out of central area - throat-
belly.

Gold Creek

9/27/96

31

0845-

Old Redd's	New Redd's	BLC
Det	Prob	Pos

one of the BLC was 15"
 + was with a 24" fish
 just below the cascades. This
 is the upstream most fish
 I have ever seen in Gold
 Creek. Also, these 2 fish were the
 only fish not on or near a
 redd. Upstream most redd about
 100' down from cascade.

Rattlesnake Creek Sample Sections

McNell CK to L. Wildcat CK

Wildcat CK to Shell CK

Shell CK to MTB Trail

Hindoo CK - approx 1 mile to falls

Doer CK approx 1/2 mile to Cascades

L. wildcat to McNeil CK 23

9/18/96

1410 -

44°F

Def	Prob	Pos	Fish	BLC
-----	------	-----	------	-----

--	--	--	--	--

--	--	--	--	--

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--	--	--	--	--

14 or 16?

Considerable streambed disturbance possibly by beavers. Some digging that looked like redds. - Substrated 3 from above because of this disturbance. This is in upper 1,000 feet of stream. Dries up below McNeil in "normal" area.

Saw a few Gt.

Rattlesnake Cr 9/19 28

Shell Cr - L. Wildcat

0830-0935 (43°F)

Def Prob Pos

~~HT~~ 11

1

1

Little Wildcat Cr 9/19/96

0935 - 1110 42°F

Def Prob Pos

~~HT~~ 1 11

2

Went well past first trib
(left bank) + rock slide
(right bank to very small
springs that flow into
both sides of creek)

C+ all the way up (to 8")

B+C can go upstream from area surveyed

Rattlesnake CK 9/19/96 27

WJB to Shell CK

1640 - 1250 43° 12'

Def Prob Pos First B/C

HTT 1

1

All reds were in
upper part of section

Saw a number of Ct
to 9"

I started at Shell CK
& worked down. Scott
Hoover USFS started at
WJB Trail & worked up

Dog Creek

9/20/96 30

110

44°F

Dol

BLC

11

1-15"

1

Ct to 12"

walked to upper end of
bedrock cascades

Hindoo CK - Scott's Harbor

1100 - 45°F

9/20/96

No pebbles or Ash

2

Crow Creek 8/19/96

Rd 1922 end - Trail to crossing
to work upstream.

Fly fish

Start 0950 - 1050

<u>ct</u>	<u>RS</u>	<u>RS/ct</u>
210	220	1.35
200		
185		
205		
160		
135		
130		
135		
120		
185		
<hr/> 10		

Lots of beaver sign.

12

Crown CK 8/19/96 (Cont.)

FLY fish 1050-1150

C+

R3

190 155

150 155

186

160

~~180~~

120

174

Crow Ck 8/19/94 (cont)

Hook + line - fly

1230 - 1330

Ct

205

170

185

215

185

196

260

125

Saw 1 buck

205

walked 20 min upstream.
through woods - then fished
upstream

Bumping LK - 1996

Deep Cr. Bull Trout Spanner Survey Summary
(Mouth to \approx 3.7 miles upstream - all but one redd in lower 2 miles due to subterranean flows blocking upstream passage.)

Need Legal Description

<u>Date</u>	<u>Redds</u>	<u>Adults</u>	<u>Temp.</u>	<u>Surveyors</u>
29 Aug. 96	35	7	45°F	Anderson, Cummins,
9 Sept. 96	<u>11</u>	4	45°F	Anderson, Cummins,
Totals 46				

Rd 1800 Culvert to upstream approx 1 mile

UTM coord 628920 5186872

1
9
9
6

1996

Deep Cr.

Season Total - Bull Trout

Redds = 46

(includes 44 definite
2 Probable)

4 Possible Redds

Not counted in Total

8/29/96

Deep Cr BLC Spawning Survey

E. Anderson, S. Craig (also see Cummins notes)

Water Temp. 45°F

Staff Gage Water Level at Culvert - Dry

UTM Coord. 628920 5186872

Rd 1800 Culvert to upstream 1 mile

Def. Redds IIII IIII IIII Fish IIII I

IIII IIII IIII + (Jim Count above dry channel)

Prob. Redds I

Fish

Pos. Redds III

Fish

1

Stray Fish 1

Subterranean Flows blocks passage 1/2 mile upstream of culvert (above braided area).

E. Anderson, S. Craig, J. Cummins

Below Rd 1800 Culvert to Lake

All water shifted to right channel.

Mortality: 2 heads observed.

Def Redd IIII Fish

2

Prob. Redd

Difficult to identify if morts. were poached fish. (decaying, not fresh).

Deep Cr. BLC Spawning Survey
9/9/96 E. Anderson, P. Monk

Water Temp. 45°F

Rd 1400 culvert to upstream 1/2 mile
old Redds

<u>Def.</u>	<u>Prob.</u>	<u>Pos.</u>
	1	11

(Fish-11)
|||| ||| → + (Jim's count)

1 Pos. changed to Def (see below)

New Redds

<u>Def.</u>	<u>Prob.</u>	<u>Pos.</u>
	1	1

Fish 0

Rd 1400 below culvert to lake.
old Redds

<u>Def.</u>	<u>Prob.</u>	<u>Pos.</u>
	1	1

New Redds

<u>Def.</u>	<u>Prob.</u>	<u>Pos.</u>
	1	1

Drip Cr - J Cummings
8/29/96 start 2.7 miles
above Y + work down to
meet Eric + Scott, 1st Suric

Reads 0945 - 47°F

Def	Pos	Pos	# BLC
1		1	0

Eric was additional Data.

Below 1800 road -
Eric was data

9/9/96 Deep CK 21

Upstream from Culvert

Old Redds	New Redds	# Fish
Def Prob Pos	Def Prob Pos	
###		

Eric has additional data
for this area.

1 BLC head - animal kill

Eric has data for lower
CK - culvert down.

9/27/96 De Roux Cr BLC

Spawning Survey E. Anderson

1100-1330 Hrs, H₂O Temp 44 °F

Mouth to upstream → ≈ 300 yds above

TR1392 crossing on De Roux Cr. (Junction TR1392 + TR1392.1)

Redds

(BLC) Fish

Def. 11

φ

Redds observed within $\frac{1}{8}$ mi. of mouth
(≈ 600 yds then start 2-3 1/2 foot vertical falls - possible block for migrating haffs)

Observed numerous fry & CT + RB

≈ 3 in. → 9 in. in pools. Some other fish unidentified salmonids.

Redd Sizes (Dimensions)

Length from leading edge of pit to tip of tailout + width across widest point (pit or tailout).

29L x 22W (across pit); 24L x 12W

Salmon above Falls.

Block to BLC passage or thru from mouth.

* TR 1392.1 is M. F. Tanager Trail.

≈ 20' cascade/shute Falls several hundred yds above Trail crossing on De Roux Cr.

August 30, 1996

To: Eric Anderson

From: Jim Shannon & Tim Eichler

We surveyed S.F. Tieton from the falls to Bear Cr. and then up Bear Cr. to the falls. Several Bull Char were spotted in S.F Tieton and Bear Cr. No definite redd building was observed. Aggressive behavior of the fish was observed which included chasing and fin nipping. Below are the total number of flags we placed and fish we saw.

Redd Survey SF Tieton 8/27/96

From Falls to Bear Cr. and up Bear Cr. to Falls

	REDD			
	#of BT	Possible	Probable	Definite
SF Tieton	16	3	0	0
Bear Cr.	12	7	2	0
Total	28	10	2	0

Let us know when we can help again.

Timber Cr.

STATE OF WASHINGTON

2/24/94

535 T17 R1E

(0A40A5)

THE DEPARTMENT OF WILDLIFE

9/22/93 1000-1100 Hrs.

E. Anderson / J. Cummins

BLC Spawner Survey of Timber Cr.
(American R. drainage) Mouth to falls (15'
Block to BLC).

- No redds observed
- No fish observed