

Andersson

9/25/90

Has Brecher collected info. for IFIM

Indian CK. Bull Trout Spawner Survey

Water Temp. 45°

S. Spring

Fish

Redds

Test Digs

5

8

2

1

Mainstem between S. Spring + Upper S. Spring

1

2

0

2

Upper S. Spring

5

10

2

3

Mainstem between Upper S. Spring + Falls

5

14

7

4

1
9
9
0

Mainstem between S. Spring + N. Fork

0

15

3

5

N. Fork

5

9

2

6

Mainstem between N. Fork + Bridge

6

11

5

7

Total Fish

Total Redds

Total Test Digs

27

69

21

Electro-Shock Survey 8/14/90 - 9/26/90

Bumping R. 200 m ABOVE TRAIL CROSSING
AT FALLS TIGN RISE S36 SW 1/4

TEMPS - 14°C	TIME - 1239	DATE - 8-14-90	
10°C	" 1522	9-24-90	MAX-MIN 41°-59°
8°C	" 12:09	9-24-90	
7.5°C	" 11:43	9-26-90	

FL EB: 91, 218, 186, 140, 174, 128, 125, 169, 130, 146
 126, 136, 145, 127,
 RB: 174, 170, 139, 189, 170, 126, 145, 149, 71, 145
 * DV: 269, 190 * VERMICS → what does this mean?
 SCULPINS 8 - TOTAL
 WHITE FISH: 225

METERS SHOCKED - 800 / CLICKS 1695-3074

COMMENTS: BULL TR PRESERVED BELOW
FIRST FALLS. WE THINK AT
HIGH FLOW THIS FALLS IS NOT
AN IMPASSE AT 8-14-90. AT 9-24-90
IT WOULD BE A POSSIBLE DETERENT.

Note**

WE WALK THIS STREAM FROM FISIT
LAKE TO BUMPING LAKE. WITHOUT
INDEXING ONE REDD. HOOK & LINE
MANY EB & CT. THERE IS AN
IMPASSE 30 MIN ABOVE RED ROCK CR.
IT'S A GOOD 15 FT FALLS. STREAM
APPEARS TO BE NUTRIENT RICH.
HIGH ELK DENSITIES IN DRAINAGE
AND EVIDENCE OF MUCH ELK ACT-
IVITY IN STREAM.

~~Mouth of Red Rock Cr.
TIGN RISE
S36 SW 1/4~~

(see also)
1632
2659
1640

001640

Anderson

Revised?

T16 R12 S3

9/24/90

30 T15R12E

216217 9/24/90

Deep CR. Bull Trout Spawning Survey 0000

From Bridge on USFS RD #1800 to a point upstream about 3 miles (2.7 miles up from "Y" intersection of RD's 1800 and 1808 on RD 1808). Slough area by RD 1808 where I came out.

Apparent blockage to bull trout passage caused by low flow and subterranean flow. Still possible bull trout may be above this point. Will check out next year.

No fish were seen; suspect spawning occurs early to mid-September. Will start earlier next year (1991).

<u>Fish</u>	<u>Redds</u>	<u>Test Digs</u>
0	15	5

Water Temp. 47°F

-32 x .5556

47
-32
15

3
5556
15
87780
5560
83340

ENTERED BY S & L DATABASE

10990

001639

(see also 2659)

1639

Hook & Line & Electro-shock Survey

RED ROCK CR

T 15N RISE S11 SE $\frac{1}{4}$

TEMPS - 7°C
7°C

TIME - 11:24
11:23

DATE - 9-25-90
9-26-90

COMMENTS: HOOK & LINE SURVEY OF THIS
STREAM SEVERAL FB WERE CAUGHT & SEEN.
ALSO SPAWNING PAIRS WERE SPOTTED. ONE REDD
WHICH WAS QUESTIONABLE. THE STREAM VOLUME
IS PROBABLY TOO SMALL TO MAKE ANY KIND OF
AN INDEX FOR BULL TR. BUT DID HOLD SPAWNING
HABITAT AND WHAT LOOKED TO BE GOOD
WATER CONDITIONS. STREAM WAS GIN CLEAR
WITH GOOD CLEAN GRAVEL. PLENTY OF
COVER AS FAR AS LOG & BRUSH. STREAM
PICK UP GRADE ABOUT 1 MILE ABOVE MOUTH
ON MAP BUT WAS NOT WALKED.

1
9
9
0

001633

1633

561 09/20/89 1300 LGB

AS4AS5 BOX CANYON CR

NO REDDS, NO BULL TROUT OBSERVED. APPEAR TO HAVE LOST THE 5 FISH SEEN LAST TIME IN PEEK-A-BOO POOL. DID SEE THREE UNUSUALLY LARGE CUTTHROATS OF 11-12" IN SOME OF THE CLEAR DEEP POOLS THROUGH THE CANYON. ABOUT 1/3 TO 1/2 OF DISCHARGE ACTUALLY REACHING THE LAKE AND FISH SHOULD HAVE NO PROBLEM ENTERING THE STREAM. IF THIS RUN IS TYPICALLY EARLY-RUNNING (JULY-AUGUST) WE MAY BE LOSING THEM TO POACHING/VANDALISM RATHER THAN HAVING A MIGRATION PROBLEM.

565 09/19/90 1000 LGB

AS4AS5 BOX CANYON CR

Surveyed from Kachess Campground to first falls (also known as peekaboo falls). Lots of high water has rearranged the LOD jam below peekaboo falls, appears impassable to final plunge pool. Last adult observed about 50 meters below the jam. Most bull trout were staging in deep pools about halfway up canyon and VERY VISIBLE/VULNERABLE. Sizes ranged from 20 to 30 inches, mostly 22-25 inches. One large (30") male hooked momentarily on mepps, but this fish now has a decorated jaw. Also observed five trout, apparently cutthroats, from 20 to 25 cm in the staging pools.

567 09/27/90 1000 LGB

AS4AS5 BOX CANYON CR

Checked the stream above the road culvert to the 15-foot falls. No bull trout or redds up there. Lake level much higher than I have observed over past several years. No access problems in 1990. Observed some footprints in the creek today and lots of 4X4 tracks running across and down the channel at old spur access below peekaboo falls. New garbage/cans/bottles everywhere. Last adults (pair) right up under LOD jam below falls, but none observed in main pool. Most redds between box canyon and 4X4 spur road near sediment sample site SS-1-1.

No comments
for 10/04/1990

571 10/04/90 1030 LGB

AS4AS5 BOX CANYON CR

Stream Lake Fish Database
Box Canyon 1990

Year	Wa_nam	Date	Temp	New Redds	False_redds	Total_visible
1990	BOX CANYON CR	9/19/1990	10	0	0	0
1990	BOX CANYON CR	9/27/1990		5	3	5
1990	BOX CANYON CR	10/4/1990	9	0	0	0

**1
9
9
0**

630	09/25/90	WDW	Y81Y82 BUMPING R	AREA SURVEYED	DATE	REDDS	FISH	TIME/ETC
				Mouth to falls	9/24	0	0	50F @1530 1.25 hours
				Fish Lk to Redrock Cr	9/25	0	0	46F @1200 Many falls 4 hours
				Redrock Cr to Cougar Cr	9/26	0	0	45F @1145 6 hours
				Redrock Creek mouth to Bumping trail	9/25	0	0	45F @1130 MANY EBs 1 hour

Already entered →

609	09/26/89	1601 WDW	BG3BG4 CHIKAMIN CR	AREA SURVEYED	REDDS	FISH	TEMP/ETC.
				West Fork fm Rd6210 counts to mouth	2	2	first two on Sept.25
				Mainstem fm Rd6210 to footbridge	9	2	10C @ 1645 comb. time w/WF to footbridge
				is less.			is 5 hrs or
				Footbridge to hours USFS MR-45 flagging	13	7	7C @0830 4
				USFS flag to Rd6200	0	0	49F @0935 4 hrs
				TOTALS	24	11	

610	10/10/89	1602 WDW	BG3BG4 CHIKAMIN CR	AREA SURVEYED	REDDS	FISH	TIME/ETC.
				WF fm Rd6210 to mouth	4	0	6.0C @1400
				Mainstem fm Rd6210 to footbridge	15	0	5.0C @0930
				Footbridge to USFS MR-45 flagging	20	0	10C @1530
				TOTALS	39	0	

Date	Time	Location	Species	Sex	Age	Notes	Count	Remarks	Live Dead	Redds False
07/07/92	1200	LGB	AT3AT4 R	●	GOLD CR					
09/25/84	1200	JS	AT3AT4 R	●	GOLD CR (LOWER)	9.50	0	2	2	1
10/05/84	1200	JS	AT3AT4 R	●	GOLD CR (LOWER)		0	0	0	0
09/09/85	0833	JS	AT3AT4 R	●	GOLD CR (LOWER)		0	0	0	0
09/13/85	0951	JS	AT3AT4 R	●	GOLD CR (LOWER)		0	0	0	0
09/14/85		JS	AT3AT4 R	●	GOLD CR (LOWER)		0	0	1	2
09/20/85	0831	JS	AT3AT4 R	●	GOLD CR (LOWER)		0	0	0	0
09/30/85		JS	AT3AT4 R	●	GOLD CR (LOWER)		0	0	0	2
09/22/86	1500	LGB	AT3AT4 R	●	GOLD CR (LOWER)		0	0	0	0
08/27/87	1300	LGB	AT3AT4 R	●	GOLD CR (LOWER)		3	9	12	1
09/17/87	1000	LGB	AT3AT4 R	●	GOLD CR (LOWER)		0	0	1	0
10/05/87	1030	LGB	AT3AT4 R	●	GOLD CR (LOWER)	53F	0	4	4	0
09/15/88	1200	LGB	AT3AT4 R	●	GOLD CR (LOWER)	52F	0	7	7	0
09/22/88	1100	LGB	AT3AT4 R	●	GOLD CR (LOWER)	56F	0	4	4	0
09/15/89	0900	LGB	AT3AT4 R	●	GOLD CR (LOWER)	52F	0	6	6	0
09/20/89	1000	LGB	AT3AT4 R	●	GOLD CR (LOWER)	52F	0	4	4	0
09/27/90	330	LGB	AT3AT4 R	●	GOLD CR (LOWER)	52F	0	4	4	0
09/13/91	1400	LGB	AT3AT4 R	●	GOLD CR (LOWER)	58F	0	0	0	0
09/20/91	NBRD	FG	AT3AT4 R	●	GOLD CR (LOWER)				0	MEMO --- NO COUNT
09/18/92	from	FRI	AT3AT4 R	●	GOLD CR (LOWER)				16	0
09/30/92	1017	BDB	AT3AT4 R	●	GOLD CR (LOWER)				0	0
10/20/92	1000	BDB	AT3AT4 R	●	GOLD CR (LOWER)	51F	0	0	0	0
09/23/93	1201	FRI	AT3AT4 R	●	GOLD CR (LOWER)	48F			0	SURVEY CANCELLED RAIN YUK
09/18/90	1000	LGB	AT3AT4 R	●	GOLD CR (UPPER)	11.20	0	2	2	0
09/19/91	CERD	KS	AT3AT4 R	●	GOLD CR (UPPER)	52F	0	2	2	0
09/20/91	NBRD	FG	AT3AT4 R	●	GOLD CR (UPPER)				2	2
09/18/92	from	FRI	AT3AT4 R	●	GOLD CR (UPPER)				20	
10/09/92	1015	BDB	AT3AT4 R	●	GOLD CR (UPPER)				0	0
09/23/93	1200	FRI	AT3AT4 R	●	GOLD CR (UPPER)	8.00	0	0	0	0
09/18/90		WDW	Y74Y75 R	●	HINDOO CR	9.60	0	0	2	LOST 15 OF 17
09/08/84	1200	JS	Y58Y59 R	●	INDIAN CR	48F	0	0	0	0
09/15/84	1200	JS	Y58Y59 R	●	INDIAN CR		6	140	146	1
09/12/85		JS	Y58Y59 R	●	INDIAN CR	110	20	25	45	0
09/17/85	0943	JS	Y58Y59 R	●	INDIAN CR				90	FALSE IN CLUDED
09/03/86		JS	Y58Y59 R	●	INDIAN CR				62	0
09/12/87		JS	Y58Y59 R	●	INDIAN CR				45	PARTIAL SURVEY
09/02/88	1101	EA	Y58Y59 R	●	INDIAN CR				20	
09/09/88	1103	EA	Y58Y59 R	●	INDIAN CR	43F			25	0
09/16/88	1105	EA	Y58Y59 R	●	INDIAN CR	45F			25	0
09/26/88	1107	EA	Y58Y59 R	●	INDIAN CR	48F	0	0	23	1
09/14/89	1201	EA	Y58Y59 R	●	INDIAN CR	43F	0	0	0	0

09/22/88 1100 LGB

AT3AT4 GOLD CR (LOWER)

KOKANEE VERY ACTIVE. MOST OF THE "FALSE" REDDS WERE PROBABLY KOKANEE SPAWNING. SEVERAL HUNDRED KOKS IN THE STREAM, LARGER THAN NOTED IN THE PAST, AT 10-12 INCHES. FIVE OF THE BULL TROUT WERE MALES AND ONLY ONE WAS A FEMALE. IMPOSSIBLE TO CONTINUE BULL TROUT REDD COUNTS NOW WITH KOKANEE ACTIVE. BEDROCK POOL BELOW THE GRAVEL PIT HELD ITS USUAL SEVERAL BULL TROUT AND TWO WERE OBSERVED CRUISING THE LAKE SHORELINE ON THE WAY BACK. MANY, MANY HUMAN FOOTPRINTS AND 4X4 WHEEL TRACKS ALL OVER THE CREEK CHANNEL AND GRAVEL BARS.

09/15/89 0900 LGB

AT3AT4 GOLD CR (LOWER)

ONE REDD BETWEEN I-90 AND FRONTAGE RD. ONE MALE AND ONE FEMALE AT LOWER END OF QUIET CHANNEL ABOVE GRAVEL RIFFLES. ALSO ONE MALE AND ONE FEMALE OBSERVED CRUISING SHORELINE OF THE LAKE ON THE WAY BACK.

09/20/89 1000 LGB

AT3AT4 GOLD CR (LOWER)

KOKANEE AGAIN FOULING UP BULL TROUT SURVEYS. SMALL PODS OF KOKANEE SPAWNING CLEAR UP TO GRAVEL PIT LAKE. KOKANEE LARGER THAN LAST YEAR AT 11-13 INCHES. STILL ONLY 4 BULL TROUT OBSERVED, TWO OF WHICH WERE IN SLACK WATER CHANNEL BELOW THE LAKE. NONE OBSERVED CRUISING THE LAKE THIS TRIP. MAY HAVE TO DROP THIS INDEX AREA BECAUSE OF KOKANEE INTERFERENCE WITH REDD COUNTS.

09/27/90 1330 LGB

AT3AT4 GOLD CR (LOWER)

From frontage road to Pond. Both redds along riprap run downstream from culvert. Walked about a mile above the pond without seeing any bull trout or redds. Temperature cooler above the pond (51F). Kokanee have appeared and are beginning to dig making further lower creek bull trout surveys impossible.

09/13/91 1400 LGB

AT3AT4 GOLD CR (LOWER)

Agreed to let USFS personnel from North Bend and Cle Elum Ranger Districts survey Gold Creek this season. They will be utilizing both bank and snorkel surveys, below Gold Cr Pond and above into the Wilderness Area to determine extent of upstream movement.

09/30/92 1017 BDB

AT3AT4 GOLD CR (LOWER)

DUE TO COMMUNICATIONS FOUL-UP, NORTH BEND RANGER DISTRICT WILL NOT BE DOING GOLD CREEK SPAWNING SURVEYS. I DON'T KNOW WHY SHERRID DIDN'T CARRY THROUGH WITH HIS COMMITMENT. BOLDING TALKED TO GOETZ AND WAS INFORMED "THEY DIDN'T HAVE TIME". BRUCE WILL TRY TO GET THE DATA. THIS IS FIRST ATTEMPT, BUT ONLY FOUND SOME TEST DIGS OR HYDRAULIC SPOTS, MOSTLY JUST ABOVE FRONTAGE ROAD. NO FISH OBSERVED. TEMP AT TOP SPAWNING CHANNEL 51F AND IN POOL BELOW CULVERT ON POND OUTLET 51F. CHANNEL WAS DRY AROUND POND SITE UNTIL HEAVY RAINS OF LAST WEEK OR SO.

10/20/92 1000 BDB

AT3AT4 GOLD CR (LOWER)

CANCELLED SURVEY DUE TO RAIN AND TURBID/HIGH WATER.
SAW SCHOOLS OF 5-8" KOKANEE BELOW POND CHANNEL.

MET JIM MIGHELL (NMFS) AND GOT THIS ANECDOTAL INFORMATION.

JIM SAW 5 BLC REDDS WITHIN 300m BELOW CULVERT, 2 OR 3 REDDS IN CHANNEL WITH ONE MALE BLC ON ONE REDD SOMETIME IN SEPT.

JIM ALSO SAID HE SAW ABOUT 15 BLC REDDS IN CLE ELUM RIVER NEAR SALMON LA SAC IN SEPTEMBER.

JIM CLAIMS TO HAVE SEEN A PAIR OF ARCTIC CHARR IN GOLD CREEK NEAR JCT WITH ALASKA CREEK IN ABOUT 1974. CLAIMED ARCTIC CHARR WERE STOCKED IN KEECHELUS LAKE AFTER THE 1902 ALASKA EXIBITION. (MAYBE SO, MAYBE NOT?)

IF JIM'S OBSERVATIONS OF REDDS IN SEPTEMBER IS ACCURATE, THEY WERE WASHED OUT AND NOT NOW VISIBLE DUE TO HIGH WATER BETWEEN SEPT. 24 AND NOW. SPAWNING MAY HAVE BEEN RESTRICTED TO THE LOWER SECTION BELOW THE POND DUE TO CHANNEL DEWATERING, AT LEAST UNTIL THE LATE SEPTEMBER RAINS.

09/23/93 1201 FRI

AT3AT4 GOLD CR (LOWER)

09/18/90 1000 LGB

AT3AT4 GOLD CR (UPPER)

Walked up Gold Cr trail to Wilderness Boundary. Began survey about 1/8 mi above wooden boundary sign on trail. Surveyed for about 1.5 miles to just above mouth of Silver Cr, probably close to mouth of outlet from Alaska Lake (not actually found). The two adults bull trout were widely separated about 1/2 mile. One 25" male in mainstem under LOD and one 20" female in right bank flood channel with small flow (multiple pocket redd near mainstem about 25 meters below her location). Nine redds/pockets identified, but

COULD be counted as only 6 actual redds. Casual hook and line sampling along the way yielded 3 CT of 18, 24, and 33 cm (big one was beauteous) and one juvenile bull trout of 25 cm.

09/19/91 CERD KS

AT3AT4 GOLD CR (UPPER)

TELEPHONE CALL FROM KATHERINE STALEY - CLE ELUM RD USFS

Surveyed wilderness area of Gold Creek - ONLY THREE REDDS FOUND ABOVE WILDERNESS BOUNDARY. Fair amount of evidence of fishing and/or poaching going on here. Found heads of two bull trout and saw two live adult bull trout. NEED TO POST CLOSED WATERS AND SPECIES CLOSURE INFORMATION.

(ED: THIS INFORMATION DOESN'T MATCH FRED GOETZ INFORMATION 9/20)

(NEED TO GET BETTER DETAILS OF WHO SURVEYED WHAT AND WHEN.....)

09/20/91 NBRD FG

AT3AT4 GOLD CR (UPPER)

SEE COMMENTS FOR RECORD 593 (LOWER GOLD CR)

09/18/92 from FRI

AT3AT4 GOLD CR (UPPER)

1992 DATA OBTAINED FORM SCOTT CRAIG, UW MASTER'S STUDENT UNDER BOB WISSMAR, FRI, IN A TABLE PRESENTED ON NOV. 5, 1993.

I don't know where Craig obtained his information. Perhaps he got it from Fred Goetz or someone else at the North Bend Ranger District. Bruce Bolding did some cursory surveys, but never found this number of redds.

10/09/92 1015 BDB

AT3AT4 GOLD CR (UPPER)

WATER TEMP AT POND CULVERT 9.5C AND AT TRAILHEAD 8.0C @1015.
FROM TRAILHEAD UPSTREAM. FOUND THE TWO PROBABLE/POSSIBLE(?) REDDS ABOUT IN THE MIDDLE OF THE SECTION FROM START TO ABOUT SILVER CREEK. GOT TIRED AT ABOUT SILVER CREEK OR ALASKA CREEK (NOT SURE WHICH) AND RETURNED ON TRAIL (1 HOUR WALK TO WLDNESS BNDRY).
DID NOT SURVEY FROM POND AREA DOWN TO LAKE.

09/23/93 1200 FRI

AT3AT4 GOLD CR (UPPER)

Data from UW master's student, Scott Craig, working under direction of Dr. Bob Wissmar (FRI). Redd counts represent the "best" total count for

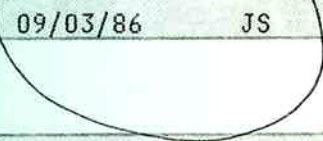
09/25/90 1207 EA

Y58Y59 INDIAN CR

AREA SURVEYED	REDDS	FALSE	FISH
South spring	8	2	5
Mainstem fm S spring/upper S spr	2	0	1
Upper South spring	10	2	5
Mainstem fm Upp S spr to falls	14	7	5
Mainstem fm S spring to NF	15	3	0
North Fork	9	2	5
Mainstem fm NF to bridge	11	5	6

TOTALS

69 21 27



09/03/86

JS

Y58Y59 INDIAN CR

DATA FROM JIM CUMMINS FILES. A PARTIAL SURVEY ONLY.

SURVEY BY JIM SPOTTS AND JIM CUMMINS FROM "AT LEAST" THE NORTH SPRING CONFLUENCE (INCLUDING NORTH SPRING FLOWAGE) UP TO THE FALLS. THE NUMBER OF FISH PRESENT (45) INDICATES SPAWNING WAS NOT COMPLETE, AND NO COUNTS WERE MADE DOWNSTREAM OF THE NORTH SPRING.

09/18/90

WDW

Y74Y75 HINDOO CR

AREA SURVEYED

REDDS

FISH

TIME/ETC

Mouth to 2nd falls
above Dog Cr

1

0

48F @1330
3.5 hours

Dog Cr fm mouth to
above Lookout Cr

2

0

48F @1600
2.5 hours

TOTALS

3

0

10/03/91	NTS	45	23	H27H28 R	PHELPS CR	44F	DV	BULL	0	0	0	0	17	0	MEMO	
10/18/91	WNF	45	23	H27H28 R	PHELPS CR	44F	DV	BULL			0		22		MEMO	
09/17/92	0930 WNF	45	23	H27H28 R	PHELPS CR	42F	DV	BULL	0	0	9	0	34	17	MEMO	
09/30/92	0900 WNF	45	23	H27H28 R	PHELPS CR	--	DV	BULL			0		19		MEMO	
10/22/92	1300 WNF	45	23	H27H28 R	PHELPS CR	46F	DV	BULL	0	0	0	0	8	2	MEMO	
09/10/93	1130 WNF	45		H27H28 R	PHELPS CR	45F	DV	BULL			3		3	0	MEMO	
09/16/93	1130 WNF	45		H27H28 R	PHELPS CR	45F	DV	BULL			14		9	5	MEMO	
10/05/93	1130 WNF	45		H27H28 R	PHELPS CR	46F	DV	BULL			0	0	32	0	MEMO	
09/29/89	WDW	39	20	AM5AM6 R	ROARING CR	44F	DV	BULL			0				MEMO	
09/20/89	1501 WDW	45	23	BM4H32 R	ROCK CR		DV	BULL			12	0	12	12	MEMO	
09/27/89	1502 WDW	45	23	BM4H32 R	ROCK CR	47F	DV	BULL			31	0	86	0	MEMO	
10/09/89	1503 WDW	45	23	BM4H32 R	ROCK CR	6.0C	DV	BULL			3	0	114	0	MEMO	
10/10/90	WDW	45	23	BM4H32 R	ROCK CR	40F	DV	BULL	0	0	0	0	64	0	MEMO	
09/26/91	NTS	45	23	BM4H32 R	ROCK CR	47F	DV	BULL	0	0	33	0	157	0	MEMO	
10/17/91	WNF	45	23	BM4H32 R	ROCK CR	38F	DV	BULL			0		239		MEMO	
09/15/92	1000 WNF	45	23	BM4H32 R	ROCK CR	42F	DV	BULL	unsur	unsur	107	0	181	12	MEMO	
09/25/92	1030 WNF	45	23	BM4H32 R	ROCK CR	45F	DV	BULL	UNSUR	UNSUR	16	2	AD BLC MINK	205	31	MEMO
10/13/92	1000 WNF	45	23	BM4H32 R	ROCK CR	42F	DV	BULL	0	0	0	0	188	38	MEMO	
09/13/93	1200 WNF	45		BM4H32 R	ROCK CR	45F	DV	BULL			114		123	18	MEMO	
09/22/93	1200 WNF	45		BM4H32 R	ROCK CR	44F	DV	BULL			93		161	23	MEMO	
10/18/93	1200 WNF	45		BM4H32 R	ROCK CR	41F	DV	BULL			2		179	0	MEMO	
09/20/90	WDW	38	21	Y52Y53 R	TIETON R SF	46F	DV	BULL	0	0	11	0	16	0	MEMO	
10/01/90	WDW	38	21	Y52Y53 R	TIETON R SF	44F	DV	BULL	0	0	0	0	32	0	MEMO	
08/20/93	1100 EA	38		Y52Y53 R	TIETON R SF (LOWER SECT)	50F	DV	BULL	0	1	1	0	0	0	MEMO	
08/31/93	0930 EA	38		Y52Y53 R	TIETON R SF (LOWER SECT)	45F	DV	BULL	0	0	0	0	0	0	MEMO	
08/19/93	1125 EA	38		Y52Y53 R	TIETON R SF (UPPER SECT)	50F	DV	BULL	0	9	9	0	0	0	MEMO	
08/31/93	0920 EA	38		Y52Y53 R	TIETON R SF (UPPER SECT)	45F	DV	BULL			12	0	5	0	MEMO	
09/08/93	0930 EA	38		Y52Y53 R	TIETON R SF (UPPER SECT)	46F	DV	BULL			5	2	POACHERS	38	4	MEMO
10/10/89	WDW	46	11	BH9BJ1 R	TILlicum CR		DV	BULL			0	0	1	0	MEMO	
09/13/84	1600 LGB	45	50	BF2H25 R	WHITE R	48F	DV	BULL	2	2	4	0	5	0	MEMO	
09/16/86	1500 LGB	45	50	BF2H25 R	WHITE R		DV	BULL	0	0	0		1	1	MEMO	
09/22/93	1300 LGB	45		BF2H25 R	WHITE R		DV	BULL	0	0	0	0	2	0	MEMO	
10/15/93	1200 LGB	45		BF2H25 R	WHITE R	47F	DV	BULL	0	0	0	0	5	0	MEMO	

09/13/93 1200 WNF

BM4H32 ROCK CR

Survey by Wenatchee National Forest personnel.
4.9 River Miles: T29,R17,NW-Sec.31 to
T29,R17,NW-Sec.5
over two days, 10/13-10/14.

Bull Trout and cutthroat trout observed.
Water temperature range noted 43F-47F.

Definite Redds	75		
Probable Redds	48	Total Redds	123
Possible Redds	18	False Redds	18

09/22/93 1200 WNF

BM4H32 ROCK CR

Survey by WNF personnel. 4.9 river miles.

bull trout (93 adults) and cutthroat trout
observed.
temperature range observed 43F-45F

Definite Redds	148		
Probable Redds	13	Total Redds	161
Possible Redds	23	False Redds	23

10/18/93 1200 WNF

BM4H32 ROCK CR

Survey by WNF personnel, 4.9 river miles over two
days on Oct.13 and Oct.18, 1993. Temperature
ranges notes as 39F-46F.

Only two bull trout adults and some cutthroat
observed.

Definite Redds	141		
Probable Redds	38	Total Redds	179
Possible Redds	0	False Redds	0

Looks like surveyors determined that all
"possibles" were actually "probables".

09/20/90

WDW

Y52Y53 TIETON R SF

AREA SURVEYED	DATE	REDDS	FISH	TIME/ETC
Upper falls down to Bear Cr	9/19	5	10	50F @1450 4 hours
Bear Cr to	9/20	11	1	46F @1230

DATE	WDR	PROJECT	AREA SURVEYED	DATE	REDDS	FISH	TIME/ETC
10/01/90	WDW	Y52Y53 TIETON R SF	Upper falls to Corral Cr	09/27	23	0	44F @0950 5+ hours
			Corral Cr downstream (?)	10/01	9	0	
			TOTALS		32	0	

Alrcaden
ensard

Alrcaden
ent...

08/20/93 1100 EA Y52Y53 TIETON R SF (LOWER SECT) DEFINITION OF TIETON R SF (LOWER SECTION) BLC INDEX AREA

From Grey Creek Campground downstream to Rimrock Lake or to FSRD1010, about a mile short of the lake. Mostly barren habitat, appears underutilized by fish. Only patchy spawning habitat for bull trout in this section. Approx. 4 ft. cascade falls below Bakeoven Flats not impassable for bull trout.

Obs one black bear on bank at 20-25 ft away.

Caught one BLC (18.5cm) H&L, saw no others. Obs several fry.

08/31/93 0930 EA Y52Y53 TIETON R SF (LOWER SECT) No redds, no BLC adults, but many unident fry stranded in pools below FSRD1010 bridge. Falls at mouth not yet exposed due to reduction in Rimrock Lake level.

08/19/93 1125 EA Y52Y53 TIETON R SF (UPPER SECT) DEFINITION OF TIETON R SF (UPPER SECT) BLC INDEX AREA.

From falls about 1 mile above Bear Creek downstream to the USFS Grey Creek campground, approximately 5.6 river miles.

Weather and water clarity good. H&L 2 BLC (18"-20") and 1 WCT at 10". Saw 3 other BLC "follows". Observed 7 adult BLC holding in pool between Minnie Meadows and Grey Cr Campground.

Stretch has some braiding, with good spawning habitat.

No Redds or false redds observed.

08/31/93 0920 EA Y52Y53 TIETON R SF (UPPER SECT) SECTION ABOVE GREY CR CAMP TO FALLS ABOVE BEAR CR.

DEFINITE REDDS	4
PROBABLE REDDS	1
POSSIBLE REDDS	0
ADULT SPAWNERS	12

H&L samples (TLcm)		
female BLC	41.5	45.5
male BLC	29.5	42.0 43.1

Record#	MUCODE	DATE	INITIALS	WATEMP	ONREDD	OFFREDD	TOTLIVE	DEAD	CAUSE	REDDS	FALSE
631	Y52Y53	09/20/90	WDW	46F	0	0	11	0		16	0
632	Y52Y53	10/01/90	WDW	44F	0	0	0	0		32	0
1102	Y52Y53	08/20/93	EA	50F	0	1	1	0		0	0
1103	Y52Y53	08/31/93	EA	45F	0	0	0	0		0	0
1099	Y52Y53	08/19/93	EA	50F	0	9	9	0		0	0
1100	Y52Y53	08/31/93	EA	45F			12	0		5	0
1101	Y52Y53	09/08/93	EA	46F			5	2	POACHERS	38	4

Record#	MUCODE	DATE	INITIALS	WATEMP	ONREDD	OFFREDD	TOTLIVE	DEAD	CAUSE	REDDS	FALSE
30	Y58Y59	09/08/84	JS		6	140	146	1	CLUBBED	3	6
29	Y58Y59	09/15/84	JS	11C	20	25	45	0		29	22
1111	Y58Y59	09/12/85	JS				90	FALSE	IN CLUDED	69	INC
547	Y58Y59	09/17/85	JS				62	0		37	18
1112	Y58Y59	09/13/86	JS				45	PARTIAL	SURVEY	16	8
1113	Y58Y59	09/12/87	JS				20	FALSE	IN CLUDED	35	INC
584	Y58Y59	09/02/88	EA	43F			25	0		8	0
585	Y58Y59	09/09/88	EA	45F			25	0		22	0
586	Y58Y59	09/16/88	EA	48F	0	0	23	1	unknown	25	0
587	Y58Y59	09/26/88	EA	43F	0	0	0	0		25	0
588	Y58Y59	09/14/89	EA	?	0	0	36	0		30	0
589	Y58Y59	09/28/89	EA	47F	0	0	5	0		39	0
590	Y58Y59	09/25/90	EA	45F	0	0	27	0		69	21
591	Y58Y59	09/13/91	JLC	45F	0	0	61	FALSE	IN CLUDED	108	INC
592	Y58Y59	10/01/91	EA	46F	0	0	15	FALSE	IN CLUDED	123	INC
1045	Y58Y59	09/04/92	JLC	42F	LOTS	LOTS		NONE	NO COUNT	UNK	UNK
1041	Y58Y59	09/09/92	CWU				40	0		78	0
1043	Y58Y59	09/14/92	EA	46F			37	0		125	13
1042	Y58Y59	09/15/92	CWU				30	0		135	6
1044	Y58Y59	09/25/92	CWU				0	0		142	2
1104	Y58Y59	09/09/93	EA	47F	46	7	53	0		95	13
1105	Y58Y59	09/21/93	EA	46F			16	0		133	2
1106	Y58Y59	10/01/93	EA	46F	1	2	3	0		140	0

Deep Creek

Record#	MUCODE	DATE	INITIALS	WATEMP	ONREDD	OFFREDD	TOTLIVE	DEAD	CAUSE	REDDS	FALSE
581	Z16Z17	09/29/89	EA		0	0	0	2	ANGLERS?	17	0
582	Z16Z17	09/24/90	EA	47F	0	0	0	0		15	5
583	Z16Z17	09/10/91	EA	44F	0	8	8	1	UNKNOWN	84	3
1046	Z16Z17	09/01/92	EA	47F			21	4	POACHERS	77	8
1047	Z16Z17	09/10/92	EA	46F			3	0		78	7
1107	Z16Z17	08/13/93	EA	47F	0	0	0	0		0	0
1108	Z16Z17	08/24/93	EA	44F	9	0	9	0		15	2
1109	Z16Z17	09/02/93	EA	45F	13	0	13	3	2FM, 1STR	37	9
1110	Z16Z17	09/10/93	EA	46F	0	0	0	1	STRANDED	45	9

March 1, 1994

GOLD CREEK BULL TROUT SPAWNING SURVEYS

YEAR	LOWER CREEK (INCLUDING POND)		UPPER CREEK (ABOVE POND)	
	Total Redds Counted	Most Adult Bull Trout Observed	Total Redds Counted	Most Adult Bull Trout Observed
1984	2	(2)	no data	
1985	2	(2)	no data	
1986	21	(13)	no data	
1987	15	(7)	no data	
1988	12	(6)	no data	
1989	2	(4)	no data	
1990	2	(0)	9	(2)
1991	6	(16)	10	(20)
1992	3	(0)	11	(0)
1993	2	(2)	9	(17)

lgb

Larry Brown, Area Fish Biologist
Washington Department of Fish and Wildlife

FL = Fork Length

All info in
fork length unless
otherwise indicated.

RATTLE SNAKE DRAINAGE

HINDOO CR FROM TRAIL CROSSING UP 100 METERS
T15N R13E S14 SE 1/4

Temps - 11 ^o C	Time - 1300	DATE - 8-22-90
" 9.5 ^o C	" 1250	" 9-18-90
" 9 ^o C	" 1330	" 9-18-90

Fork Length

FL DV: 148, 144
BLK

CT: 102, 234

~~Reds Found~~
~~9-18-90~~
~~11~~

SCULPINS - 11 TOTAL

METERS CHECKED - 100 / CLICKS 000 - 494

COMMENT: CLEAR, CLEAN STREAM WITH
PLENTY OF SPAWNING HABITAT. NO
REDS FOUND IN SURVEY. IMPASSE 1 HR
10 MIN UP STREAM. TWO 10 FT FALLS

DOG CR 1/3 UP FROM MOUTH WE WALKED 1 HR
TO IMPASSE. IMPASSE IS 20 YDS ABOVE
LOOK OUT CR. T15N R13E S14 NW 1/4

TEMP - 9^oC TIME - 1558 DATE 9-18-90

COMMENTS: TWO BULL TR REDS, SMALL
STREAM, CLEAN, CLEAR; TRIB TO
HINDOO, CONFLUENCE IS ABOUT 1/2 MILE
ABOVE MOUTH OF HINDOO.

FL = Fork Length

All info in
Fork length unless
otherwise indicated.

RATTLE SNAKE DRAINAGE

HINDOO CR FROM TRAIL CROSSING UP 100 METERS
T15N R13E S14 SE $\frac{1}{4}$

Temps - 11 ^o C	Time - 1300	DATE - 8-22-90
" 9.5 ^o C	" 1250	" 9-18-90
" 9 ^o C	" 1330	" 9-18-90

Fork Length

FL DV: 148, 144
BLK

CT: 102, 234

SCULPINS - 11. TOTAL

METERS CHECKED - 100 / CLICKS 000 - 494

COMMENT: CLEAR, CLEAN STREAM WITH
PLENTY OF SPAWNING HABITAT. NO
REDS FOUND IN SURVEY. IMPASSE 1 HR
10 MIN UP STREAM. TWO 10 FT FALLS

~~Reds Found~~
~~9-18-90~~
~~11~~

DOG CR $\frac{1}{3}$ UP FROM MOUTH WE WALKED 1 HR
TO IMPASSE. IMPASSE IS 20 YDS ABOVE
LOOK OUT CR. T15N R13E S14 NW $\frac{1}{4}$

Temp - 9^oC Time - 1555 DATE 9-18-90

COMMENTS: TWO BULL TR REDS, SMALL
STREAM, CLEAN, CLEAR; TRIB TO
HINDOO, CONFLUENCE IS ABOUT $\frac{1}{2}$ MILE
ABOVE MOUTH OF HINDOO.

FL = Fork Length

All info in
Fork length unless
otherwise indicated.

RATTLE SNAKE DRAINAGE

HINDOO CR FROM TRAIL CROSSING UP 100 METERS
T15N R13E S14 SE $\frac{1}{4}$

Temps - 11 ^o C	Time - 1300	DATE - 8-22-90
" 9.5 ^o C	" 1250	" 9-18-90
" 9 ^o C	" 1330	" 9-18-90

Fork Length

FL DV: 148, 144
BLK

CT: 102, 234

SCULPINS - 11. TOTAL

METERS CHECKED - 100 / CLICKS 000 - 494

COMMENT: CLEAR, CLEAN STREAM WITH
PLENTY OF SPAWNING HABITAT. NO
REDS FOUND IN SURVEY. IMPASSE 1 HR
10 MIN UP STREAM. TWO 10 FT FALLS

~~Reds Found~~
~~9-18-90~~
~~11~~

DOG CR $\frac{1}{3}$ UP FROM MOUTH WE WALKED 1 HR
TO IMPASSE. IMPASSE IS 20 YDS ABOVE
LOOK OUT CR. T15N R13E S14 NW $\frac{1}{4}$

TEMP - 9^oC TIME - 1555 DATE 9-18-90

COMMENTS: TWO BULL TR REDS, SMALL
STREAM, CLEAN, CLEAR; TRIB TO
HINDOO, CONFLUENCE IS ABOUT $\frac{1}{2}$ MILE
ABOVE MOUTH OF HINDOO.

Tieton R. S.F.

Record#	MUCODE	DATE	INITIALS	WATEMP	ONREDD	OFFREDD	TOTLIVE	DEAD	CAUSE	REDDS	FALSE
631	Y52Y53	09/20/90	WDW	46F	0	0	11	0		16	0
632	Y52Y53	10/01/90	WDW	44F	0	0	0	0		32	0
1102	Y52Y53	08/20/93	EA	50F	0	1	1	0		0	0
1103	Y52Y53	08/31/93	EA	45F	0	0	0	0		0	0
1099	Y52Y53	08/19/93	EA	50F	0	9	9	0		0	0
1100	Y52Y53	08/31/93	EA	45F			12	0		5	0
1101	Y52Y53	09/08/93	EA	46F			5	2	POACHERS	38	4

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1113	Y58Y59	09/12/87	JS				20	FALSE	IN CLUDED	35	INC
584	Y58Y59	09/02/88	EA	43F			25	0		8	0
585	Y58Y59	09/09/88	EA	45F			25	0		22	0
586	Y58Y59	09/16/88	EA	48F	0	0	23	1	unknown	25	0
587	Y58Y59	09/26/88	EA	43F	0	0	0	0		25	0
588	Y58Y59	09/14/89	EA	?	0	0	36	0		30	0
589	Y58Y59	09/28/89	EA	47F	0	0	5	0		39	0
590	Y58Y59	09/25/90	EA	45F	0	0	27	0		69	21
591	Y58Y59	09/13/91	JLC	45F	0	0	61	FALSE	IN CLUDED	108	INC
592	Y58Y59	10/01/91	EA	46F	0	0	15	FALSE	IN CLUDED	123	INC
1045	Y58Y59	09/04/92	JLC	42F	LOTS	LOTS		NONE	NO COUNT	UNK	UNK
1041	Y58Y59	09/09/92	CWU				40	0		78	0
1043	Y58Y59	09/14/92	EA	46F			37	0		125	13
1042	Y58Y59	09/15/92	CWU				30	0		135	6
1044	Y58Y59	09/25/92	CWU				0	0		142	2
1104	Y58Y59	09/09/93	EA	47F	46	7	53	0		95	13
1105	Y58Y59	09/21/93	EA	46F			16	0		133	2
1106	Y58Y59	10/01/93	EA	46F	1	2	3	0		140	0

Record#	MUCODE	DATE	INITIALS	WATEMP	ONREDD	OFFREDD	TOTLIVE	DEAD	CAUSE	REDDS	FALSE
581	Z16Z17	09/29/89	EA		0	0	0	2	ANGLERS?	17	0
582	Z16Z17	09/24/90	EA	47F	0	0	0	0		15	5
583	Z16Z17	09/10/91	EA	44F	0	8	8	1	UNKNOWN	84	3
1046	Z16Z17	09/01/92	EA	47F			21	4	POACHERS	77	8
1047	Z16Z17	09/10/92	EA	46F			3	0		78	7
1107	Z16Z17	08/13/93	EA	47F	0	0	0	0		0	0
1108	Z16Z17	08/24/93	EA	44F	9	0	9	0		15	2
1109	Z16Z17	09/02/93	EA	45F	13	0	13	3	2FM, 1STR	37	9
1110	Z16Z17	09/10/93	EA	46F	0	0	0	1	STRANDED	45	9

12/06/93

RIMROCK DRAINAGE

SOUTH FORK TETON RIVER FROM

JAYHAWK FLATS TO CORRAL CR.

(MILE POST 8.5). ^{Jayhawk Flats} T13N R13E S13 NW 1/4 plus sections 14, 15, 22, 21, 28, 29, 32, 31 and ending in T12N R13E S6 NW 1/4 Corral Cr.

TEMPS - 9°C (Time - 0915) to Date - 8/23/90

SL: 4 - 10°C H/L: 106 - 1330 8/23/90

- 10°C (S) - 1308 9/19/90

MAX-MIN: 8/23 - 9/13 41°C - 57°C

- 5°C - 1000 9/20/90

MAX-MIN: 9/13 - 9/20 42°C - 52°C

- 8°C - 1230 9/20/90

- 6.5°C - 0950 9/27/90

MAX-MIN: 9/20 - 9/27 41°C - 51°C

- 10.5°C - 1430 9/19/90

FL: WHITE FISH - 263, 270, 400, 265, 200

9/246, 206, 253, 2350

CORRAL CR. TO FALLS. ON 10/0

RB - 51, 125, 137, 122, 157

GREY CR. C.G. TO CORRAL CR.

DV - 186, 110, 580^{TL}, 480^{TL}

AND HARVESTED 1 BULLTROUT). ADULT

WERE PRESENT ON 8/23/90.

BRIDGE LIP SUCKERS: TOTAL - 5

SCULPINS: TOTAL - 14

RIMROCK DRAINAGE

SOUTH FORK TETON RIVER (CONT)

HARVESTED FEMALE BULLTROUT (8/23/90)

TL: 487

HL: 58

FL: 470

(POST. MARGINAL ORBIT TO OPERCLE)^{END}

SL: 435

HL: 106

(SNOUT TO END OF OPERCLE)

METERS SHOCKED: 700 m / CLICKS: 000-100

1/17/94

COMMENTS: STREAM SURVEY 22 REDDS,

9 STARTS, 4 REDD? ALL REDD

FROM CAMP CREEK TO FALLS

(1.5 ROAD MILES ABOVE BEAR CR.)

SURVEY TO BELOW GREY CR.

CAMPGROUND. NO SPAWNING

ACTIVITY BELOW BLUE SLIDE

ON 9/19, 10 ADULTS SIGHTED

FROM BEAR CR. TO FALLS. ON

9/20, 1 ADULT SIGHTED FROM

CORRAL CR. TO BEAR CR. ON

9/27, 1 ADULT SIGHTED FROM

CORRAL CR. TO FALLS. ON 10/0

NO ADULTS SIGHTED FROM BELOW

GREY CR. C.G. TO CORRAL CR.

(HOWEVER, A HUNTER SIGHTED 6

AND HARVESTED 1 BULLTROUT). ADULT

WERE PRESENT ON 8/23/90.

NOTE: ON 9/19/90,

FALLS AT MOUTH

WAS ~ 15 FT AND

QUESTIONABLY PASSABLE.

ON 9/20/90, FALLS

WAS IMPASSABLE.

BRIDGELIP SUCKERS: TOTAL - 5

SCULPINS: TOTAL - 14

1/17/94

August 19, 1993

1125 hrs.

Anderson

Tieton R SE

comp. 201

* BLC Spawner + Hook and Line Survey

Bear Cr to Grey Cr Campground - 4.2 miles

3 BLC followed lures 16-20"

1 Unknown fish approx. 6" also followed w/ no strike.

7 BLC observed in slack water pool approx. 18-24" between Minnie Meadows and Grey Cr Campground.

No BLC Spawning activity - Appeared to have best spawning habitat.

1100 HRS

* Some data on S+L data form.

1. Location of spawning site on Bear Cr approx. 1.5 miles

down stream of approx. a 40' vertical fall.

2. Date of survey: August 19, 1993

3. Time of day: 11:00 AM - 1:00 PM

4. Surveyor

5. Description of spawning site: 1000-1500 ft

of stream, approx. 1000 ft from one USFS road, the

approx. 1000 ft from the site on Bear Cr - 10 ft fall.

6. Number of survey distance

1 (1/4 mile (1/4 mile))

- No other fish observed

- No other fish observed

Tieton R. SF
Aug. 20, 1993

1100 Hrs

Anderson

Temp. 50°F

BLC Spawner survey and Hook + Line
Grey Cr campground to USFS 1010 Bridge. 4.6 miles
Good water clarity - Overcast skies.

Released 1 BLC 18.5"

Several fry observed - Unknown species.

No BLC spawning activity.

Good spawning habitat in places.

1 Black bear seen on bank 20-25 ft.

Aug. 23, 1993

0900 Hrs

Block to passage of BLC approx. 1.3 miles
above Bear Cr. approx. a 40' vertical falls.

Many large, deep pools + cascades. Good trail
to falls at large turnout below USFS 775 (Phantom
LK turnoff).

Aug. 25, 1993 Hook + Line survey 1030-1500 hrs

Junction of USFS Trail 1120 and USFS Rd. 1060
approx. 1.5 miles above gate on Rd. 1060 - to falls.

3 miles of survey distance.

1 CT 9 3/4" (24.4 cm)

- No fry observed

- No other fish observed

July 26, 1990

Gold Creek - Kittitas County

Selected spawning riffle sites for extended sedimentation sampling.

Creek flowing above ground all channels around gravel pit pond. good flow and nothing to keep bull trout from moving well up into the valley. Will be a good year to see if bull trout do ascend beyond pond for spawning.

Box Canyon Creek - Kittitas County

Preliminary sediment sampling site survey. Probably will only select sites in two reaches (rather than 3).

Little Kachess Lake level is still high, backing water clear into Kachess campground picnic area.

No access problem this year for bull trout, unless ^(maybe) they wait until just before spawning. Visited peek-a-boo Falls & Bomber Falls but no fish observed. Ran-off two anglers unaware of closure at Bomber Falls.

GOLD CR 9/18/90 10 AM

Max 59°F MIN 51°F Wetness 7¹⁵
Hand held 52°F med J.C. Cle Elum

From Frontage Rd up stream
No DV in creek - No DV in channel
One (1) 24"-26" DV cruising Lake

Up to Wilderness Area @ Noon
1/8 mile past 1300 50°F

Wood Sign } then walk creek upstream
on Trail } Rtn 1720 to truck
(left truck @ 1200).

Rtn home 7:30 AM
to SH Club 7:30-9:30 PM

Hours Today 7¹⁵ AM - 9³⁰ PM less 45 min lunch
= 13 1/2 hrs worked

From 1/8 mile into wilderness to mouth of
Alaska Lk outlet about Sec. 25 Np (≈ 1 1/2 mi.)

H&L sampled "here & there" along way
(no special effort)

Redds ♂ 1 25" ♀ 1 20"
4 HT IIII ← 1/2 mile apart →

↑
recount as (6) reds?

side Chan
3 pockets show
(1 ♀?)
counted as 3

Huge dbl pocket
counted as 2

H&L DV 25cm CT 18cm
CT 33cm Beautiful
CT 24cm Brit

J. L. DARLING CORP
TACOMA WASH. U.S.A.

"Rite in the Rain"
WEATHERPROOF

NO. 352

wed 9/19/90 - Box Canyon Creek ✓
lv Wen 0800 } less 1/2 hr lunch
Rtn Wen 1800 } ⇒ 9 1/2 hrs worked
Temp @ 1000 51°F - campground

OB5 → Redds ♂ ♀ TR
H&L → CT 23 26" 20" HHH
CT 21 26" 22" also were 20-25cm
CT 23 24" UNK 26" UNK
DV ♂ 30" (has #2 mepps decorating jaw
on left corner of max.)

Log/debris jam below peekaboo
falls appears impassable.

last adult seen about
50 yards downstream

late PM - walked ~1 mile above - NO DV
& checked 1/4 mile from Culvert
to 15' impassable falls
NO DV to be seen up here

lv for home 4:00 PM
arr Wen 6:00 PM

lake level higher than
prev. 2 yrs - Creek flows all
the way above ground

Thursday 9/20/90 Panther Creek ✓

H=0 Panther Cr. 50°F

@ 1100 White Rv. 48°F

Right Fork NOT flowing this fall, but
small channel between forks has about 20%.

"Double" Redd at mouth of left fork (CK?)

① Redd 70 yds up (DV) left fork (very large)

① Redd Rt Bank tailout Forks pool (DV)

Φ Forks to Rock wall

(New posts of 1 1/2" PVC at trail)

major flood in past year has
rearranged cataract boulders
between Rock Wall and Poacher pool.

Poacher Pool suffered large slide

off right cliffs - much LOD
w/ 24-36" firs in channel - lots
of sand/debris upstream from LOD.

Two cataract spots now fall
on flat rock surfaces - may
prevent passage to Poacher pool.

Φ redds and Φ fish above

Rock wall pool - also LOG FALLS

now has no log. That was a
36" or wedged downstream. (for last byrs.)
Musta
been a real gully washer.

total (No Fish (even tried H&L))
(2 DV Redds)

10 AM 9/27/90 Box Canyon Creek /
 from Campground to Peekaboo falls
 Redd ♂ ♀ unk Comments H₂O 50°C

Footprints in Creek
 - mainly deep pools
 to 1st Bedrock Falls
 (one ♂ last week)
 bottom 1st Flats

(F)
 (E)

Redds below hilly hole
 { mugs decorated ♂
 now gone

1 good small
 1 good large
 2 good large

center long gravel flat
 Quiet bedrock pool
 also 2 Trout 10-12"

(F) about (5) (2)
 24-30" 22-24"

♂ ♂ ♂ ♂

4x4 tracks in creek

1 New-attended (4/26 ♂)
 about 75m below 55-1-1

2nd gravel Flat
 garbage everywhere

♂ ♂ ♂ ♂

to base debris jam
 under Peekaboo

(1) (1)
 18" 22"

right under main
 flow from jam - does
 not appear passable

♂ ♂ ♂ ♂

observed peek a boo
 pool for 10 min. Nothing

Totals (10 DV
 5 Redds
 3 False starts)

J. L. BARLING CORP
 TACOMA, WASH. U.S.A.

Write in the Blue
 WEATHERPROOF

NO. 352

Gold Creek 9/27/90 1330 H₂O 58°F
 fm frontage Rd to Lake - DV survey

under Br. { Max 59°F } Reset
 { Min 49°F }

DV	Redd	K Redd	DVs	KoKs	Notes
			2	4	100 yds up fm
				2	Bridge
		1		25	
		5		50	@ 55-1-1
		1 longish		75	Scale Camp pool
		∅		15	4x4 tracks in
		∅		40	center of thalweg
				6	end RipRap
①			∅		50 yds below
					Culvert
①		1	∅	2	Fast run
				4	below Culvert
∅	1	∅	∅	∅	gravelled chan
∅	∅	∅	∅	∅	still chan
∅	∅	∅	∅	∅	Lake shore

about 10-12 mergansers Lake H₂O
 working the lake (CT plant?) 61°F @ 1440
NO DV OBSERVED TODAY

Walked about 1± mile of creek
 above lake - didn't reach the
 Wilderness bdry - No Redds/Fish
 observed - H₂O temp 57°F @ 1630

L. DARLING CORP TACOMA, WASH. U.S.A.
 "Put in the Rain" WEATHERPROOF
 NO. 352

9/28/90 DV Spawning Survey NOON ✓
 PANTHER CREEK 50°F
 WHITE RIVER TEMP 49°F

REDDS	DV	Comments
①	2	pair spawning in White at mouth large ♂ 28" 30" ♀ 22" 22" old CK (?) redd still visible 70 yds above white (red)
1 Old		+20 yds
1 False		Rocks pool tailout
1 Old		+100 yds
1 False		
1 False	1 TR 10"	425 yds
①		tailout peak falls where creek now splits
①		15 yds above peak falls Someone has been turning over a lot of Flat Rocks opened hole in debris jam at split above peak - may have been an impact - 1/2 way from peak to trail more overturned rocks too large for DV testing -
①		50 yds below Rock wall
①		Rt bank gravel bar Tailout R/W
No DV	No Redds	No Nothing above
Rock wall	Pool	(OVER) →

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 TACOMA, WASH. U.S.A.

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(congratulate Cur)
 dead fish odor
 in 4 to 6' air
 old 70' in DV
 skeleton 5 ft 15"

7 Redds
 2 DV

going down - Rt. & left forks ✓
about equal flow - follow
Right fork to see where it
goes now (old mouth dry)

Large debris jams and
alluvium deposits causing
channel splits & change
from last year.

Main flow in brand new
intermediate channel
Newly cut banks and
erosion around tree trunks -
lots of sand and debris -

No sign of fish/beds to white

Thursday 10/4/90 H₂O = 48°F @ 1030 ✓
Box Canyon Creek DV Survey
Park @ Peek-a-boo Falls - hike to Creek
mouth and Survey upstream to Peek.

Redds Adults Comments

Survey not possible - stream is
in heavy freshet - flow has
increased from ~20 cfs to ~200 cfs
- good visibility, but too dangerous
in box canyon - most stream
crossings now too deep/heavy.
mushrooms by the jillions

by Noon

To Panther Creek one day early -
Heavy Rains west from Heavenworth
Wenatchee River is dirty freshet
so I gave up on the survey
idea and returned Wenatchee

J. L. DARLING CORP
TACOMA WASH USA

Write in the Rain
WEATHERPROOF

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