

THE DEPARTMENT OF WILDLIFE

Indian Creek (Cummins) 9-13-91
Bull Trout

| | | Totals | |
|-------------|------|--------|------|
| N. F (44°F) | | Redds | Fish |
| Redds | Fish | 108 | 61 |
| 31 | 9 | | |

| S. F (39°F) | |
|-------------|------|
| Redds | Fish |
| 12 | 12 |

| Mainstem above S.F. Mouth. (46°F) | |
|-----------------------------------|------|
| Redds | Fish |
| 36 | 19 |

| Small Tris above S.F. (41°F) | |
|------------------------------|------|
| Redds | Fish |
| 11 | 3 |

| Mainstem N.F. mouth to S.F. Mouth. (45°F) | |
|---|------|
| Redds | Fish |
| 17 | 8 |

| Mainstem N.F. up down 1/4 mile (Did not survey down to highway bridge) | |
|---|------|
| Redds | Fish |
| 1 | 10 |

| |
|---|
| 1 |
| 9 |
| 9 |
| 1 |

THE DEPARTMENT OF WILDLIFE

Indian Creek Bull Trout Survey 10/1/91
Anderson + Cummins

N.F. Spring (45°F)

| Old Redds | New Redds | Fish |
|-----------|-----------|------|
| 31 | 8 | 0 |

S.F. Spring

| | | |
|----|---|---|
| 12 | 0 | 0 |
|----|---|---|

Highway Bridge to N.F. Spring (46°F)

| | | |
|---|----|-----------------------------|
| 1 | 7* | 0 - several hundred Kokanee |
|---|----|-----------------------------|

N.F. Spring to S.F. Spring - Mainstem

| | | |
|----|---|---|
| 17 | 0 | 0 |
|----|---|---|

S.F. Spring to falls - Mainstem

| | | |
|----|---|---|
| 36 | 0 | 0 |
|----|---|---|

Upper S.F. Spring

| | | |
|----|---|--|
| 11 | 0 | |
|----|---|--|

Totals 108

15

Season Total

123 Redds

* Majority of this section was not surveyed on 9/13/91

574 09/18/91 1000

AS4AS5 BOX CANYON CR

No access problem to Peek-a-boo falls this year as the log jam below was blown-out in last November's floods. Found entrails of one large male bull trout in Peek pool by camp area. No telling how many fish have been "eliminated" over the past couple of months here. Creek flow quite low, but lake level highest I've ever seen, with no access problem for late running fish. No spawning activity yet. No fish visible in usual bedrock pool as in past years. Lots of worm containers, egg jars, beer and pop cans and other assorted garbage along stream. No 4x4 tracks in creek bed this year. Peek falls pool is over a foot lower in elevation, making passage here doubtful at best.

575 09/26/91 1030 LGB

AS4AS5 BOX CANYON CR

All spawning activity and adults sighted were just above the box canyon in the lower gradient, gravelly zone. Lots of cutthroat seen in quiet pools, more than usual. Most CTs were 7-10 inches.

Found a pair of jockey briefs (size 34) with skid marks and a lot of garbage at head of first bedrock pool where a pair of fish were sighted last week. The fish were gone. Met two USFS techs coming down to Peek Falls with a picnic cooler and two landing nets. They said they were concerned that a female observed the day before (first bedrock pool) had no male handy. They intended to capture a male and transport him downstream (about a mile, no less), releasing him in the pool with the poor single female. These people must be watching too many bambi movies. I informed them that I do not want anyone "messing" with this endangered stock of fish. Discussed ways USFS might assist in the poaching vandalism problem (signs, etc.). They said that they had observed two large bull trout heads while snorkeling Peek Pool a week or so earlier.

579 10/02/91 1045 LGB

AS4AS5 BOX CANYON CR

Lone female in first bedrock falls pool. Small test dig against right bank about halfway down pool in quiet water 3' deep. Two CTs cruising pool. New redd under logs at head of box canyon just below large redd obs last week. Lone female at same location as last week below SS-1-3 site. Male was not at usual place along big rock in pool center. No digging. DAMN, found the entrails of spent female in SS-1-3 pool. Spent ovaries, esophagus and liver. At least she spawned before the bastard got her. Redd activity above SS-1-3 where creek splits under a log jam. Two small redds and two false redds near old log where channels rejoin. One redd in tail of first pool below Peek Falls Pool and one apparent redd in bedrock crevice gravel/sand patch outlet of Peek Falls pool (about 4' depth here). Looks like they are about done. No males sighted anywhere today. The have either left or fallen victim to poachers. Very discouraging trip.

1031 09/15/92 1200 BDB

AS4AS5 BOX CANYON CR

FIRST SURVEY OF 1992. CREEK SUBTERRANEAN ABOUT 300 YDS BELOW CAMPGROUNDS. OBS 8 ADULT BULLS IN 1ST LG BEDROCK POOL WITH WIDE GRAVEL TAILOUT. LOTS OF CEREMONIAL AGITATION, CIRCLING, ETC. SEVERAL WERE SEEN TRYING THE SMALL RIVULET ON LEFT BEDROCK FROM MAIN PLUNGE FALLS. ALL TURNED BACK TO MAIN POOL AFTER A WHILE. NO FISH IN 2ND BEDROCK POOL ABOUT 1/3 MI UPSTREAM. QUIT AFTER REACHING FLAT GRAVELLY

Stream Lake Fish Database
Box Canyon 1991

| Year | Wa nam | Date | Temp | New Redds | False_redds | Total_visible |
|------|---------------|-----------|------|-----------|-------------|---------------|
| 1991 | BOX CANYON CR | 9/18/1991 | 9 | 0 | 0 | 0 |
| 1991 | BOX CANYON CR | 9/26/1991 | 10 | 3 | 3 | 3 |
| 1991 | BOX CANYON CR | 10/2/1991 | 8 | 6 | 4 | 9 |

1
9
9
1

615 11/19/89 WNW AR3AR4 COOPER R
639 10/11/91 NTS

NATAPOC TIMBER SERVICES CONTRACTED BY USFS.
50F @1115, 52F @1300. LOTS OF BEDROCK,
GRAVEL LIMITED. 7 HOUR SURVEY FROM MOUTH
TO COOPER LAKE.

581 09/29/89 1155 EA Z16217 DEEP CR

BELOW ROAD 1800: 5 REDDS, 0 ADULTS LIVE, ENTRAILS
OF ONE BULL TROUT OBSERVED. ABOVE ROAD 1800
(ABOUT 1 MILE): 12 REDDS, NO LIVE BULL TROUT AND
ONE CARCASS OF A LARGE BULL TROUT.

582 09/24/90 1155 EA Z16217 DEEP CR

FROM BRIDGE ON USFS RED 1800 TO ABOUT 3 MILES
UPSTREAM (2.7 MILES UP FROM Y INTERSECTION OF
ROADS 1800 AND 1808). SLOUGH AREA BY RD 1808
WHERE I CAME OUT. WENT TO APPARENT BLOCKAGE
CAUSED BY LOW FLOW AND SUBTERRANEAN FLOW. MAY
HAVE BEEN FISH ABOVE THIS POINT BY EARLIER
MIGRATION TIMING; WILL CHECK IT OUT NEXT YEAR.
NO BULL TROUT SEEN. SUSPECT SPAWNING IN EARLY TO
MID-SEPTEMBER. WILL START 1991 SURVEYS EARLIER.

Alcadesa entered

583 09/10/91 1155 EA Z16217 DEEP CR

FROM RD 1800 UPSTREAM 3 MILES JUST PAST SMALL POND
BY ROAD 1808: 76 REDDS, 3 FALSE, 2 ADULTS (APPROX.
16"). TEMP 44F. LOW FLOW BLOCKAGE AS FLOW GOES
SUBTERRANEAN. ELECTROFISHING SHOWED ONE ADULT
BULL TROUT (445mm F) TRAPPED IN POOL, 8 JUVENILE
BULL TROUT FROM 72-131mm, 1 BROOK TROUT 92mm, AND
LOTS OF SCULPINS. FROM ROAD 1800 DOWNSTREAM TO
LAKE: 8 REDDS, 6 ADULTS (MOSTLY KELTED), AND ONE
CARCASS OF 690mm BULL TROUT (otoliths taken).

STAFF GAUGE ABOVE DOUBLE CULVERT ON RD 1800 READ
1.98 (feet?).

1046 09/01/92 1000 EA Z16217 DEEP CR

SPAWNING APPEARED 80-90 PERCENT COMPLETE, NEED TO
START SURVEYS IN MID-AUGUST IN THIS STREAM. STAFF
GAUGE 1.90 (WAS 1.98 LAST YR)

LOW FLOW CONDITIONS CAUSED STREAM TO DRY UP ABOUT
1.7 MILES FROM MOUTH. FOUND 2 ADULT BLC HEADS FROM
POACHING AND 2 ADULT BLC MORTS. ALSO OBS. 2 LIVE
AND 1 DEAD BLC JUV 6-8" AND ABOUT 25 LIVE BLC FRY
OF 1-2". 6 OF THE 25 ADULT BLCs WERE IN LG POOL
BELOW RD 1800 AND NOT ON REDDS.

REDD CLASSIFICATION: DEFINITE 69, PROBABLE 8,
POSSIBLE 8

| NO | DATE | AGENCY | PROJECT | AREA SURVEYED TIME ETC | REDDS | FISH | TEMP |
|-----|----------|--------|------------------|------------------------------------|-------|------|-------|
| 595 | 09/19/89 | WDW | BF8H31 CHIWAHA R | Impasse @ SE1/4 S8 to forks min | 0 | 0 | -- 30 |
| | | | | Forks to Phelps Cr hrs | 1 | 2 | 52F 2 |
| | | | | TOTALS | 1 | 2 | |

Already entered

| NO | DATE | AGENCY | PROJECT | AREA SURVEYED TIME ETC | REDDS | FISH | TEMP |
|-----|----------|--------|------------------|--|-------|------|------|
| 596 | 09/28/89 | WDW | BF8H31 CHIWAHA R | Impasse SE1/4 S8 to forks 1650 30 min | 2 | 1 | 50F |
| | | | | Forks to Phelps Cr 1230 2 hrs | 5 | 8 | 49F |
| | | | | Phelps Cr to SE1/4 S27 1600 35 min | 1 | 1 | 52F |
| | | | | TOTALS | 8 | 10 | |

Already entered

| NO | DATE | AGENCY | PROJECT | AREA SURVEYED ETC | REDDS | FISH | TEMP | TIME |
|-----|----------|--------|------------------|----------------------------------|-------|------|------|------|
| 597 | 10/11/89 | WDW | BF8H31 CHIWAHA R | Impasse SE1/4 S8 to forks | 4 | 0 | | |
| | | | | Forks to Phelps Cr | 16 | 3 | | |
| | | | | Phelps Cr to SE1/4 S27 30 min | 1 | 0 | 46F | 1710 |
| | | | | TOTALS | 21 | 3 | | |

Already entered

| NO | DATE | AGENCY | PROJECT | DESCRIPTION |
|-----|----------|--------|------------------|--|
| 622 | 10/11/90 | WDW | BF8H31 CHIWAHA R | SURVEY FROM IMPASSE @ SE1/4 S8 DOWNSTREAM TO SE1/4 S27 BELOW PHELPS CR. 6 HOURS TO SURVEY. |

| NO | DATE | AGENCY | PROJECT | DESCRIPTION |
|-----|----------|--------|-------------------|---|
| 640 | 10/15/91 | NTS | AQ8A09 CLE ELUM R | NATAPOC TIMBER SERVICES CONTRACTED BY USFS. 44F @1130, 50F @1430. 5 HR SURVEY FROM CAMP CREEK TO FISH LAKE (TUCQUALA LK). |

| Record# | DATE | TIME | INITIALS | WRIA | BASIN | MUCODE | WATYPE | NAME | WATEMP | SP | STRAIN | ONREDD | OFFREDD | TOTLIVE | DEAD | CAUSE | REDDS | FALSE |
|---------|----------|------|----------|------|-------|--------|--------|---------------|--------|----|--------|--------|---------|---------|----------|-----------------|-------|-------|
| 601 | 09/28/89 | 0901 | WDW | 45 | 23 | *ALPIN | R | ALPINE CR | 43F | DV | BULL | | | 7 | 0 | | 2 | 0 |
| 602 | 10/11/89 | 0902 | WDW | 45 | 23 | *ALPIN | R | ALPINE CR | | DV | BULL | | | 0 | 0 | | 3 | 0 |
| 624 | 10/11/90 | | WDW | 45 | 23 | *ALPIN | R | ALPINE CR | | DV | BULL | 0 | 0 | 0 | 0 | | 0 | 0 |
| 636 | 10/09/91 | | NTS | 45 | 23 | *ALPIN | R | ALPINE CR | 45F | DV | BULL | 0 | 0 | 0 | 0 | | 5 | 0 |
| 1020 | 10/18/91 | | WNF | 45 | 23 | *ALPIN | R | ALPINE CR | 40F | DV | BULL | | | 0 | | | 5 | |
| 24 | 09/22/84 | 1200 | JS | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 10.5C | DV | BULL | 2 | 5 | 7 | 1 | BOMB | 5 | 6 |
| 1116 | 09/08/85 | | JS | 38 | | AS4AS5 | R | BOX CANYON CR | | DV | BULL | | | 7 | 0 | | 0 | 1 |
| 545 | 09/14/85 | 0952 | JS | 39 | 21 | AS4AS5 | R | BOX CANYON CR | | DV | BULL | | | 4 | 0 | | 3 | 2 |
| 1117 | 09/15/85 | | JS | 39 | | AS4AS5 | R | BOX CANYON CR | | DV | BULL | | | 13 | 0 | | 6 | 5 |
| 546 | 09/20/85 | 1131 | JS | 39 | 21 | AS4AS5 | R | BOX CANYON CR | | DV | BULL | | | 2 | 0 | | 4 | 3 |
| 5 | 09/22/86 | 1200 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 49.1F | DV | BULL | 0 | 0 | 0 | | | 3 | 0 |
| 20 | 09/17/87 | 1300 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 49.5F | DV | BULL | 0 | 0 | 0 | 0 | | 0 | 0 |
| 551 | 09/15/88 | 1400 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 50F | DV | BULL | 0 | 0 | 0 | 4 | VANDALS | 0 | 0 |
| 554 | 09/22/88 | 1400 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 48F | DV | BULL | 0 | 1 | 1 | 0 | | 0 | 0 |
| 559 | 09/15/89 | 1200 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 50F | DV | BULL | 0 | 5 | 5 | 0 | | 0 | 0 |
| 561 | 09/20/89 | 1300 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 48.5F | DV | BULL | 0 | 0 | 0 | 0 | | 0 | 0 |
| 565 | 09/19/90 | 1000 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 51F | DV | BULL | 0 | 7 | 7 | 0 | | 0 | 0 |
| 567 | 09/27/90 | 1000 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 50F | DV | BULL | 3 | 7 | 10 | 0 | | 5 | 3 |
| 571 | 10/04/90 | 1030 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 48F | DV | BULL | HIGH | WATER | 0 | NO | SURVEY | POSS | 0 |
| 574 | 09/18/91 | 1000 | | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 49F | DV | BULL | 0 | 4 | 4 | 0 | | 0 | 0 |
| 575 | 09/26/91 | 1030 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 50F | DV | BULL | 2 | 2 | 4 | (USFS) 2 | POACHED | 3 | 3 |
| 579 | 10/02/91 | 1045 | LGB | 39 | 21 | AS4AS5 | R | BOX CANYON CR | 47F | DV | BULL | 0 | 2 | 2 | 1 FEMALE | POACHED | 9 | 4 |
| 1031 | 09/15/92 | 1200 | BDB | 39 | | AS4AS5 | R | BOX CANYON CR | 9.5C | DV | BULL | 0 | 8 | 8 | 0 | | 0 | 0 |
| 1032 | 09/24/92 | 1200 | BDB | 39 | | AS4AS5 | R | BOX CANYON CR | 9.2C | DV | BULL | HIGH | WATER | 0 | | CANCELED SURVEY | | |
| 1033 | 09/28/92 | 1230 | BDB | 39 | | AS4AS5 | R | BOX CANYON CR | 7.7C | DV | BULL | 0 | 12 | 12 | 1 JUV | UNKNOWN | 0 | 0 |
| 1034 | 10/02/92 | 1250 | BDB | 39 | | AS4AS5 | R | BOX CANYON CR | 9.6C | DV | BULL | 4 | 4 | 8 | 0 | | 1 | 1 |
| 1035 | 10/08/92 | 1040 | BDB | 39 | | AS4AS5 | R | BOX CANYON CR | 7.5C | DV | BULL | 0 | 0 | 0 | 1 (GUTS) | POACHER | 5 | 1 |
| 1036 | 10/19/92 | 1237 | BDB | 39 | | AS4AS5 | R | BOX CANYON CR | 45F | DV | BULL | 0 | 0 | 0 | 0 | | 5 | 0 |
| 1054 | 09/01/93 | 1300 | LGB | 39 | | AS4AS5 | R | BOX CANYON CR | 53F | DV | BULL | 0 | 6 | 6 | 0 | | 0 | 0 |
| 1060 | 09/14/93 | 1100 | LGB | 39 | | AS4AS5 | R | BOX CANYON CR | 50F | DV | BULL | 0 | 0 | 0 | 0 | | 0 | 0 |
| 1063 | 09/21/93 | 1000 | LGB | 39 | | AS4AS5 | R | BOX CANYON CR | 43F | DV | BULL | 0 | 0 | 0 | 0 | | 0 | 0 |
| 1076 | 09/30/93 | 1030 | LGB | 39 | | AS4AS5 | R | BOX CANYON CR | 48F | DV | BULL | 2 | 0 | 2 | 0 | | 3 | 0 |
| 1082 | 10/18/93 | 1100 | LGB | 39 | | AS4AS5 | R | BOX CANYON CR | 44F | DV | BULL | 0 | 0 | 0 | 0 | | 4 | 0 |
| 598 | 09/19/89 | 1001 | WDW | 45 | 23 | H29H30 | R | BUCK CR | 45F | DV | BULL | | | 18 | 0 | | 10 | 0 |
| 599 | 09/28/89 | 1002 | WDW | 45 | 23 | H29H30 | R | BUCK CR | 44F | DV | BULL | | | 5 | 0 | | 13 | 0 |
| 600 | 10/11/89 | 1003 | WDW | 45 | 23 | H29H30 | R | BUCK CR | | DV | BULL | | | 0 | 0 | | 16 | 0 |
| 623 | 10/11/90 | | WDW | 45 | 23 | H29H30 | R | BUCK CR | 39F | DV | BULL | 0 | 0 | 0 | 0 | | 1 | 0 |
| 637 | 10/09/91 | | NTS | 45 | 23 | H29H30 | R | BUCK CR | 44F | DV | BULL | 0 | 0 | 1 | 0 | | 9 | 0 |
| 1021 | 10/18/91 | | WNF | 45 | 23 | H29H30 | R | BUCK CR | 42F | DV | BULL | | | 0 | | | 9 | |
| 630 | 09/25/90 | | WDW | 38 | 40 | Y81Y82 | R | BUMPING R | 46F | DV | BULL | 0 | 0 | 0 | 0 | | 0 | 0 |
| 609 | 09/26/89 | 1601 | WDW | 45 | 23 | BG3BG4 | R | CHIKAMIN CR | 49F | DV | BULL | | | 11 | | | 24 | |
| 610 | 10/10/89 | 1602 | WDW | 45 | 23 | BG3BG4 | R | CHIKAMIN CR | 6.0C | DV | BULL | | | 0 | 0 | | 39 | 0 |
| 627 | 10/09/90 | | WDW | 45 | 23 | BG3BG4 | R | CHIKAMIN CR | 39F | DV | BULL | 0 | 0 | 0 | 0 | | 22 | 0 |
| 633 | 10/01/91 | | NTS | 45 | 23 | BG3BG4 | R | CHIKAMIN CR | 45F | DV | BULL | 0 | 0 | 5 | 0 | | 48 | 0 |
| 1022 | 10/21/91 | | WNF | 45 | 23 | BG3BG4 | R | CHIKAMIN CR | 39F | DV | BULL | | | 0 | | | 71 | |
| 1069 | 09/17/92 | 1000 | WNF | 45 | 23 | BG3BG4 | R | CHIKAMIN CR | | DV | BULL | | | 1 | 0 | REDD CNT | NO G | OOD |
| 1070 | 09/28/92 | 0900 | WNF | 45 | 23 | BG3BG4 | R | CHIKAMIN CR | | DV | BULL | 0 | 0 | 0 | 0 | | 16 | 4 |
| 1071 | 10/15/92 | 0845 | WNF | 45 | 23 | BG3BG4 | R | CHIKAMIN CR | | DV | BULL | 0 | 0 | 0 | 0 | | 9 | 10 |
| 1088 | 09/15/93 | 1100 | WNF | 45 | | BG3BG4 | R | CHIKAMIN CR | 37F | DV | BULL | 0 | 0 | 5 | | | 11 | 8 |
| 1089 | 09/27/93 | 1100 | WNF | 45 | | BG3BG4 | R | CHIKAMIN CR | 44F | DV | BULL | | | 6 | | | 17 | 15 |
| 1090 | 10/19/93 | 1100 | WNF | 45 | | BG3BG4 | R | CHIKAMIN CR | 41F | DV | BULL | | | 0 | | | 19 | 3 |
| 618 | 10/12/89 | | WDW | 45 | 21 | BA1BA2 | R | CHIWAUKUM CR | 49F | DV | BULL | | | 0 | | | | |
| 595 | 09/19/89 | | WDW | 45 | 23 | BF8H31 | R | CHIWAUA R | 52F | DV | BULL | | | 2 | | | 1 | 0 |
| 596 | 09/28/89 | | WDW | 45 | 23 | BF8H31 | R | CHIWAUA R | 50F | DV | BULL | | | 10 | 0 | | 8 | 0 |
| 597 | 10/11/89 | | WDW | 45 | 23 | BF8H31 | R | CHIWAUA R | 46F | DV | BULL | 0 | 0 | 3 | 0 | | 21 | 0 |
| 622 | 10/11/90 | | WDW | 45 | 23 | BF8H31 | R | CHIWAUA R | 36F | DV | BULL | 0 | 0 | 0 | 0 | | | |
| 640 | 10/15/91 | | NTS | 39 | 30 | AQ8AQ9 | R | CLE ELUM R | 44F | DV | BULL | 0 | 0 | 0 | 0 | | 0 | 0 |
| 615 | 10/09/89 | | WDW | 39 | 20 | *COLD | R | COLD CR | 49F | DV | BULL | | | 0 | | | 0 | 0 |
| 639 | 10/11/91 | | NTS | 39 | 30 | AR3AR4 | R | COOPER R | 50F | DV | BULL | 0 | 0 | 0 | 0 | | 0 | 0 |
| 581 | 09/29/89 | 1155 | EA | 38 | 40 | Z16Z17 | R | DEEP CR | | DV | BULL | 0 | 0 | 0 | 2 | ANGLERS? | 17 | 0 |
| 582 | 09/24/90 | 1155 | EA | 38 | 40 | Z16Z17 | R | DEEP CR | 47F | DV | BULL | 0 | 0 | 0 | 0 | | 15 | 5 |
| 583 | 09/10/91 | 1155 | EA | 38 | 40 | Z16Z17 | R | DEEP CR | 44F | DV | BULL | 0 | 8 | 8 | 1 | UNKNOWN | 84 | 3 |
| 1046 | 09/01/92 | 1000 | EA | 38 | | Z16Z17 | R | DEEP CR | 47F | DV | BULL | | | 21 | 4 | POACHERS | 77 | 8 |

look for these

look for these

9.5C



1/2 9/85

09/29/89 1155 EA

Z16Z17 DEEP CR

BELOW ROAD 1800: 5 REDDS, 0 ADULTS LIVE, ENTRAILS OF ONE BULL TROUT OBSERVED. ABOVE ROAD 1800 (ABOUT 1 MILE): 12 REDDS, NO LIVE BULL TROUT AND ONE CARCASS OF A LARGE BULL TROUT. FROM BRIDGE ON USFS RD 1800 TO ABOUT 3 MILES UPSTREAM (2.7 MILES UP FROM Y INTERSECTION OF ROADS 1800 AND 1808). SLOUGH AREA BY RD 1808 WHERE I CAME OUT. WENT TO APPARENT BLOCKAGE CAUSED BY LOW FLOW AND SUBTERRANEAN FLOW. MAY HAVE BEEN FISH ABOVE THIS POINT BY EARLIER MIGRATION TIMING; WILL CHECK IT OUT NEXT YEAR. NO BULL TROUT SEEN. SUSPECT SPAWNING IN EARLY TO MID SEPTEMBER. WILL START 1991 SURVEYS EARLIER.

09/24/90 1155 EA

Z16Z17 DEEP CR

Alcady entered

09/10/91 1155 EA

Z16Z17 DEEP CR

FROM RD 1800 UPSTREAM 3 MILES JUST PAST SMALL POND BY ROAD 1808: 76 REDDS, 3 FALSE, 2 ADULTS (APPROX. 16"). TEMP 44F. LOW FLOW BLOCKAGE AS FLOW GOES SUBTERRANEAN. ELECTROFISHING SHOWED ONE ADULT BULL TROUT (445mm F) TRAPPED IN POOL, 8 JUVENILE BULL TROUT FROM 72-131mm, 1 BROOK TROUT 92mm, AND LOTS OF SCULPINS. FROM ROAD 1800 DOWNSTREAM TO LAKE: 8 REDDS, 6 ADULTS (MOSTLY KELTED), AND ONE CARCASS OF 690mm BULL TROUT (otoliths taken).

STAFF GAUGE ABOVE DOUBLE CULVERT ON RD 1800 READ 1.98 (feet?).

09/01/92 1000 EA

Z16Z17 DEEP CR

SPAWNING APPEARED 80-90 PERCENT COMPLETE, NEED TO START SURVEYS IN MID-AUGUST IN THIS STREAM. STAFF GAUGE 1.90 (WAS 1.98 LAST YR) LOW FLOW CONDITIONS CAUSED STREAM TO DRY UP ABOUT 1.7 MILES FROM MOUTH. FOUND 2 ADULT BLC HEADS FROM POACHING AND 2 ADULT BLC MORTS. ALSO OBS. 2 LIVE AND 1 DEAD BLC JUV 6-8" AND ABOUT 25 LIVE BLC FRY OF 1-2". 6 OF THE 25 ADULT BLCs WERE IN LG POOL BELOW RD 1800 AND NOT ON REDDS. REDD CLASSIFICATION: DEFINITE 69, PROBABLE 8, POSSIBLE 8

09/10/92 0900 EA

Z16Z17 DEEP CR

REDD CLASSIFICATION: DEFINITE 77, PROBABLE 1, POSSIBLE 7.

08/13/93 0845 EA

Z16Z17 DEEP CR

Initial or preliminary trip. No spawning activity and no adult bull trout observed. Several small fry were observed. Unlike last year, the channel above 1.7 miles from mouth has considerable flow. Last year the channel was dried up above that point.

Staff gauge at FSRD1800 bridge at 2.00

08/24/93 0900 EA

Z16Z17 DEEP CR

Eric calls this one his "first pass"

Water 44F at FSRD1800 bridge, BOR staff gauge at 2.00

09/29/89 1155 EA

Z16Z17 DEEP CR

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SPAWNING APPEARED 80-90 PERCENT COMPLETE, NEED TO START SURVEYS IN MID-AUGUST IN THIS STREAM. STAFF GAUGE 1.90 (WAS 1.98 LAST YR)

LOW FLOW CONDITIONS CAUSED STREAM TO DRY UP ABOUT 1.7 MILES FROM MOUTH. FOUND 2 ADULT BLC HEADS FROM POACHING AND 2 ADULT BLC MORTS. ALSO OBS. 2 LIVE AND 1 DEAD BLC JUV 6-8" AND ABOUT 25 LIVE BLC FRY OF 1-2". 6 OF THE 25 ADULT BLCs WERE IN LG POOL BELOW RD 1800 AND NOT ON REDDS.

REDD CLASSIFICATION: DEFINITE 69, PROBABLE 8, POSSIBLE 8

09/10/92 0900 EA

Z16Z17 DEEP CR

REDD CLASSIFICATION: DEFINITE 77, PROBABLE 1, POSSIBLE 7.

08/13/93 0845 EA

Z16Z17 DEEP CR

Initial or preliminary trip.

No spawning activity and no adult bull trout observed.

Several small fry were observed. Unlike last year, the channel above 1.7 miles from mouth has considerable flow. Last year the channel was dried up above that point.

Staff gauge at FSRD1800 bridge at 2.00

08/24/93 0900 EA

Z16Z17 DEEP CR

Eric calls this one his "first pass"

Water 44F at FSRD1800 bridge, BOR staff gauge at 2.00

Stream Lake Fish Database
Deep Cr 1991

| Year | Wa_nam | Temp | Date | Time | New Redds | False_redds | Total_visibl | #Fish |
|------|---------|------|-----------|------|-----------|-------------|--------------|-------|
| 1991 | DEEP CR | 6 | 9/10/1991 | 0000 | 76 | 3 | 84 | 2 |
| 1991 | DEEP CR | | 9/11/1991 | 0000 | 8 | 0 | | 6 |

1
9
9
1

09/22/88 1100 LGB

AT3AT4 GOLD CR (LOWER)



KOKANEE YET.
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.

09/20/91 NBRD FG

AT3AT4 GOLD CR (LOWER)

DATA FROM JERRY SHERRID/FRED GOETZ NBRD USFS Performed habitat surveys from lake into wilderness area (some 6.8 miles total) between August 20 and September 20, 1991. Total adult bull trout count was 36-38 fish: 3 in Gold Cr Pond, 13-15 below pond outlet culvert (late), and remainder mostly up into the wilderness. Took measurements on 14 redds out of 16 total redds located: 6 redds just below the pond culvert and most of the rest were up in the

in the wilderness near
Silver Lake trail crossing

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
the season.

Note that he documented the loss of 15 of the 17
adult BLC (88 percent) known to have penetrated
into the upper river, above the pond. Temperature
ranged from 9.6-11.2C from Sept.03-23, 1993.

Two additional redds were located downstream of
the pond outfall (Lower Gold Cr) before
confounding by large numbers of kokanee.

09/13/91 1259 JLC

Y58Y59 INDIAN CR

AREA SURVEYED

TEMP(F) REDDS

FISH

North Fork

44

31

9

South Fork

39

12

12

Mainstem abv SF

46

36

19

Small trib abv SF

41

11

3

Mainstem from NF to SF

45

17

8

Mainstem from NF down 1/4 mile

1

10

(did not go all way to bridge)

--

TOTALS

108

61

10/01/91 1301 EA

Y58Y59 INDIAN CR

AREA SURVEYED

Temp OLD NEW REDDS

FISH

NF spring

45F

31

8

39

0

SF spring

12

0

12

0

Bridge to NF spring

46F

1

7*

8*

0*

Mainstem NF to SF springs

17

0

17

0

Mainstem SF spring to falls

36

0

36

0

Upper SF spring

11

0

11

0

--

TOTALS

108

15

123

0

* most of this section not surveyed on 9/13
* hundreds of kokanee spawners observed (no bull trout)

| | | | | | | | | | | | | | | | | | | | | |
|------|----------|------|-----|----|----|----------|---|--------------------|-------|----|------|------|------|-----|-----------------|-----------|-----------|-----|------|------|
| 1047 | 09/10/92 | 0900 | EA | 38 | | Z16Z17 | R | DEEP CR | 46F | DV | BULL | | | 3 | 0 | | 78 | 7 | MEMO | |
| 1107 | 08/13/93 | 0845 | EA | 38 | | Z16Z17 | R | DEEP CR | 47F | DV | BULL | 0 | 0 | 0 | 0 | | 0 | 0 | MEMO | |
| 1108 | 08/24/93 | 0900 | EA | 38 | | Z16Z17 | R | DEEP CR | 44F | DV | BULL | 9 | 0 | 9 | 0 | | 15 | 2 | MEMO | |
| 1109 | 09/02/93 | 0900 | EA | 38 | | Z16Z17 | R | DEEP CR | 45F | DV | BULL | 13 | 0 | 13 | 3 | | 2FM, 1STR | 37 | 9 | MEMO |
| 1110 | 09/10/93 | 0830 | EA | 38 | | Z16Z17 | R | DEEP CR | 46F | DV | BULL | 0 | 0 | 0 | 1 | | STRANDED | 45 | 9 | MEMO |
| 1037 | 07/07/92 | 1200 | LGB | 39 | | AT3AT4 | R | GOLD CR | | DV | BULL | MEMO | ONLY | 0 | | | | | | MEMO |
| 27 | 09/25/84 | 1200 | JS | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | 9.5C | DV | BULL | 0 | 2 | 2 | 0 | | | 2 | 1 | memo |
| 28 | 10/05/84 | 1200 | JS | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | 0 | 0 | 0 | 0 | | | 2 | 1 | memo |
| 541 | 09/09/85 | 0833 | JS | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | 0 | 0 | 0 | 0 | | | 0 | 0 | memo |
| 542 | 09/13/85 | 0951 | JS | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | | | 1 | | | | 2 | 0 | memo |
| 1114 | 09/14/85 | | JS | 39 | | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | 0 | 0 | 0 | 0 | | | 0 | 0 | MEMO |
| 543 | 09/20/85 | 0831 | JS | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | | | 0 | 0 | | | 2 | 0 | memo |
| 1115 | 09/30/85 | | JS | 39 | | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | 0 | 0 | 0 | 0 | | | 0 | 0 | MEMO |
| 6 | 09/22/86 | 1500 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | 3 | 9 | 12 | 1 | | SPEARED | 21 | 3 | MEMO |
| 17 | 08/27/87 | 1300 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | 0 | 0 | 1 | 0 | | | 0 | 0 | MEMO |
| 19 | 09/17/87 | 1000 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | 53F | DV | BULL | 0 | 4 | 4 | 0 | | | 1 | 0 | MEMO |
| 22 | 10/05/87 | 1030 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | 52F | DV | BULL | 0 | 7 | 7 | 0 | | | 15 | 43 | MEMO |
| 550 | 09/15/88 | 1200 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | 56F | DV | BULL | 0 | 4 | 4 | 0 | | | 4 | 3 | MEMO |
| 553 | 09/22/88 | 1100 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | 52F | DV | BULL | 0 | 6 | 6 | 0 | | | 12 | 70 | MEMO |
| 558 | 09/15/89 | 0900 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | 52F | DV | BULL | 0 | 4 | 4 | 0 | | | 1 | 0 | MEMO |
| 560 | 09/20/89 | 1000 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | 52F | DV | BULL | 0 | 4 | 4 | 0 | | | 2 | 17 | MEMO |
| 568 | 09/27/90 | 1330 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | 58F | DV | BULL | 0 | 0 | 0 | 0 | | | 2 | 0 | MEMO |
| 573 | 09/13/91 | 1400 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | | | 0 | MEMO | --- | NO COUNT | | | MEMO |
| 593 | 09/20/91 | NBRD | FG | 39 | 20 | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | | | 16 | 0 | | | 6 | 0 | MEMO |
| 1120 | 09/18/92 | from | FRI | 39 | | AT3AT4 | R | GOLD CR (LOWER) | | DV | BULL | | | 0 | | | | 3 | | MEMO |
| 1038 | 09/30/92 | 1017 | BDB | 39 | | AT3AT4 | R | GOLD CR (LOWER) | 51F | DV | BULL | 0 | 0 | 0 | 0 | | | 0 | 5 | MEMO |
| 1040 | 10/20/92 | 1000 | BDB | 39 | | AT3AT4 | R | GOLD CR (LOWER) | 48F | DV | BULL | | | 0 | SURVEY | CANCELLED | RAIN | YUK | | MEMO |
| 1119 | 09/23/93 | 1201 | FRI | 39 | | AT3AT4 | R | GOLD CR (LOWER) | 11.2C | DV | BULL | | | 2 | | | | 2 | 0 | memo |
| 564 | 09/18/90 | 1000 | LGB | 39 | 20 | AT3AT4 | R | GOLD CR (UPPER) | 52F | DV | BULL | 0 | 2 | 2 | 0 | | | 9 | 0 | MEMO |
| 594 | 09/19/91 | CERD | KS | 39 | 20 | AT3AT4 | R | GOLD CR (UPPER) | | DV | BULL | 0 | 0 | 2 | 2 | | ANGLERS | 3 | 0 | MEMO |
| 1025 | 09/20/91 | NBRD | FG | 39 | 20 | AT3AT4 | R | GOLD CR (UPPER) | | DV | BULL | | | 20 | | | | 10 | | MEMO |
| 1121 | 09/18/92 | from | FRI | 39 | | AT3AT4 | R | GOLD CR (UPPER) | | DV | BULL | | | 0 | | | | 11 | 3 | MEMO |
| 1039 | 10/09/92 | 1015 | BDB | 39 | | AT3AT4 | R | GOLD CR (UPPER) | | DV | BULL | | | 0 | | | | 2 | 0 | MEMO |
| 1118 | 09/23/93 | 1200 | FRI | 39 | | AT3AT4 | R | GOLD CR (UPPER) | 8.0C | DV | BULL | 0 | 0 | 0 | 0 | | | 9 | 6 | MEMO |
| 629 | 09/18/90 | | WDW | 38 | 30 | Y74Y75 | R | HINDOO CR | 9.6C | DV | BULL | | | 2 | LOST 15 OF 17 | | | 3 | 0 | MEMO |
| 30 | 09/08/84 | 1200 | JS | 38 | 23 | Y58Y59 | R | INDIAN CR | 48F | DV | BULL | 0 | 0 | 0 | 0 | | | 3 | 0 | MEMO |
| 29 | 09/15/84 | 1200 | JS | 38 | 23 | Y58Y59 | R | INDIAN CR | 11C | DV | BULL | 6 | 140 | 146 | 1 | | CLUBBED | 3 | 6 | memo |
| 1111 | 09/12/85 | | JS | 38 | | Y58Y59 | R | INDIAN CR | | DV | BULL | 20 | 25 | 45 | 0 | | | 29 | 22 | MEMO |
| 547 | 09/17/85 | 0943 | JS | 38 | 23 | Y58Y59 | R | INDIAN CR | | DV | BULL | | | 90 | FALSE IN CLUDED | | | 69 | INC | MEMO |
| 1112 | 09/03/86 | | JS | 38 | | Y58Y59 | R | INDIAN CR | | DV | BULL | | | 62 | 0 | | | 37 | 18 | MEMO |
| 1113 | 09/12/87 | | JS | 38 | | Y58Y59 | R | INDIAN CR | | DV | BULL | | | 45 | PARTIAL SURVEY | | | 16 | 8 | MEMO |
| 584 | 09/02/88 | 1101 | EA | 38 | 23 | Y58Y59 | R | INDIAN CR | | DV | BULL | | | 20 | | | | 35 | | MEMO |
| 585 | 09/09/88 | 1103 | EA | 38 | 23 | Y58Y59 | R | INDIAN CR | 43F | DV | BULL | | | 25 | 0 | | | 8 | 0 | MEMO |
| 586 | 09/16/88 | 1105 | EA | 38 | 23 | Y58Y59 | R | INDIAN CR | 45F | DV | BULL | | | 25 | 0 | | | 22 | 0 | MEMO |
| 587 | 09/26/88 | 1107 | EA | 38 | 23 | Y58Y59 | R | INDIAN CR | 48F | DV | BULL | 0 | 0 | 23 | 1 | | unknown | 25 | 0 | MEMO |
| 588 | 09/14/89 | 1201 | EA | 38 | 23 | Y58Y59 | R | INDIAN CR | 43F | DV | BULL | 0 | 0 | 0 | 0 | | | 25 | 0 | MEMO |
| 589 | 09/28/89 | 1203 | EA | 38 | 23 | Y58Y59 | R | INDIAN CR | ? | DV | BULL | 0 | 0 | 36 | 0 | | | 30 | 0 | MEMO |
| 590 | 09/25/90 | 1207 | EA | 38 | 23 | Y58Y59 | R | INDIAN CR | 47F | DV | BULL | 0 | 0 | 5 | 0 | | | 39 | 0 | MEMO |
| | | | | 38 | 23 | Y58Y59 | R | INDIAN CR | 45F | DV | BULL | 0 | 0 | 27 | 0 | | | 69 | 21 | MEMO |
| 592 | 10/01/91 | 1301 | EA | 38 | 23 | Y58Y59 | R | INDIAN CR | 45F | DV | BULL | 0 | 0 | 61 | FALSE IN CLUDED | | | 108 | INC | MEMO |
| 1045 | 09/04/92 | 1300 | JLC | 38 | | Y58Y59 | R | INDIAN CR | 46F | DV | BULL | 0 | 0 | 15 | FALSE IN CLUDED | | | 123 | INC | MEMO |
| 1041 | 09/09/92 | | CWU | 38 | | Y58Y59 | R | INDIAN CR | 42F | DV | BULL | LOTS | LOTS | 0 | NONE | NO COUNT | UNK | UNK | | MEMO |
| 1043 | 09/14/92 | 0830 | EA | 38 | | Y58Y59 | R | INDIAN CR | | DV | BULL | | | 40 | 0 | | | 78 | 0 | memo |
| 1042 | 09/15/92 | | CWU | 38 | | Y58Y59 | R | INDIAN CR | 46F | DV | BULL | | | 37 | 0 | | | 125 | 13 | MEMO |
| 1044 | 09/25/92 | | CWU | 38 | | Y58Y59 | R | INDIAN CR | | DV | BULL | | | 30 | 0 | | | 135 | 6 | memo |
| 1104 | 09/09/93 | 0915 | EA | 38 | | Y58Y59 | R | INDIAN CR | | DV | BULL | | | 0 | 0 | | | 142 | 2 | memo |
| 1105 | 09/21/93 | 0930 | EA | 38 | | Y58Y59 | R | INDIAN CR | 47F | DV | BULL | 46 | 7 | 53 | 0 | | | 95 | 13 | MEMO |
| 1106 | 10/01/93 | 1000 | EA | 38 | | Y58Y59 | R | INDIAN CR | 46F | DV | BULL | 1 | 2 | | | | | | | MEMO |
| 1019 | 10/18/91 | | WNE | 45 | 23 | *JAMES R | | JAMES CR | 39F | DV | BULL | | | 0 | | | | | | MEMO |
| 51 | 10/07/80 | 1200 | LGB | 39 | 21 | A56A57 | R | KACHESS R | | DV | BULL | 0 | 2 | 2 | 0 | | | 0 | 0 | MEMO |
| 25 | 09/25/87 | 1200 | JS | 39 | 21 | A56A57 | R | KACHESS R | | DV | BULL | 0 | 0 | 0 | 0 | | | 0 | 0 | MEMO |
| 1053 | 08/31/93 | 1200 | LGB | 39 | | AS6AS7 | R | KACHESS R (Upper) | 47F | DV | BULL | 0 | 0 | 0 | 0 | | | 0 | 0 | MEMO |
| 1062 | 09/16/93 | 1500 | LGB | 39 | | AS6AS7 | R | KACHESS R (Upper) | 49F | DV | BULL | 0 | 0 | 0 | 0 | | | 0 | 0 | MEMO |
| 1077 | 09/30/93 | 1430 | LGB | 39 | | AS6AS7 | R | KACHESS R (Upper) | | DV | BULL | | | 0 | 0 | | | 142 | 2 | memo |
| 1083 | 10/18/93 | 1400 | LGB | 39 | | AS6AS7 | R | KACHESS R (Upper) | 48F | DV | BULL | 0 | 0 | 0 | 0 | | | 0 | 0 | MEMO |
| 53 | 09/12/84 | 1100 | LGB | 45 | 40 | BD8BD9 | R | LITTLE WENATCHEE R | 43F | DV | BULL | 0 | 0 | 0 | 0 | | | 0 | 0 | MEMO |

Live Dead

Redds False

See also 2531

002668

2668

| | | | | | | | | | | | | | | | | |
|------|----------|----------|----|----|----------|---------------------------|-------|---------|------|-------|----|----|----------------|------|------|------|
| 611 | 10/05/89 | WDW | 46 | 11 | BH7BH8 R | MAD R | | DV BULL | | 7 | | 15 | | MEMO | | |
| 612 | 10/16/89 | WDW | 46 | 11 | BH7BH8 R | MAD R | 44F | DV BULL | | 1 | | 15 | 0 | MEMO | | |
| 628 | 10/16/90 | WDW | 46 | 11 | BH7BH8 R | MAD R | 32F | DV BULL | 0 | 0 | 2 | 0 | 17 | 0 | MEMO | |
| 641 | 10/17/91 | WNF | 46 | 11 | BH7BH8 R | MAD R | 43F | DV BULL | 0 | 0 | 1 | 0 | 21 | 0 | MEMO | |
| 1048 | 10/01/92 | 1500 WNF | 46 | | BH7BH8 R | MAD R (partial 1 of 3) | 47F | DV BULL | 0 | 0 | 0 | 0 | 6 | 0 | MEMO | |
| 1049 | 10/02/92 | 1300 WNF | 46 | | BH7BH8 R | MAD R (partial 2 of 3) | 47F | DV BULL | 0 | 0 | 0 | 0 | 2 | 0 | MEMO | |
| 1050 | 10/09/92 | 1400 WNF | 46 | | BH7BH8 R | MAD R (partial 3 of 3) | 41F | DV BULL | 0 | 0 | 0 | 0 | 8 | 2 | MEMO | |
| 1094 | 09/09/93 | 1300 WNF | 46 | | BH7BH8 R | MAD R (partial, level I) | 52F | DV BULL | | | 0 | 0 | 2 | 0 | MEMO | |
| 1095 | 09/14/93 | 1300 WNF | 46 | | BH7BH8 R | MAD R (partial, level I) | 47F | DV BULL | | | 0 | 0 | 1 | 0 | MEMO | |
| 1096 | 09/22/93 | 1300 WNF | 46 | | BH7BH8 R | MAD R (partial, level II) | 39F | DV BULL | | | 0 | 0 | 2 | 0 | MEMO | |
| 1097 | 10/19/93 | 1300 WNF | 46 | | BH7BH8 R | MAD R (partial, level II) | 41F | DV BULL | | | 0 | 0 | 0 | 0 | MEMO | |
| 1098 | 10/20/93 | 1300 WNF | 46 | | BH7BH8 R | MAD R (partial, level II) | 39F | DV BULL | | | 0 | 0 | 5 | 0 | MEMO | |
| 616 | 09/29/89 | WDW | 39 | 20 | *MEADO R | MEADOW CR | 52F | DV BULL | | | 0 | | | | memo | |
| 619 | 09/18/89 | WDW | 45 | 22 | BD6BD7 R | MILL CR | 45F | DV BULL | 0 | 0 | 0 | 0 | 1 | 0 | MEMO | |
| 620 | 09/21/89 | WDW | 45 | 22 | BD6BD7 R | MILL CR | | DV BULL | 0 | 0 | 0 | 0 | 1 | 0 | memo | |
| 621 | 10/12/89 | WDW | 45 | 22 | BD6BD7 R | MILL CR | | DV BULL | 0 | 0 | 0 | 0 | 1 | 0 | memo | |
| 642 | 10/16/91 | WNF | 45 | 22 | BD6BD7 R | MILL CR | 43F | DV BULL | 0 | 0 | 1 | 0 | 1 | 0 | MEMO | |
| 643 | 10/07/80 | LGB | 39 | 21 | A58A59 R | MINERAL CR | | DV BULL | | | 3 | 0 | 0 | 0 | MEMO | |
| 26 | 08/15/84 | 1500 JS | 39 | 21 | A58A59 R | MINERAL CR | | DV BULL | 0 | 0 | 0 | 0 | 0 | 0 | memo | |
| 544 | 09/09/85 | 1133 JS | 39 | 21 | A58A59 R | MINERAL CR | | DV BULL | 0 | 0 | 0 | 0 | 0 | 0 | memo | |
| 1 | 08/27/86 | 0900 LGB | 39 | 21 | A58A59 R | MINERAL CR | | DV BULL | 0 | 0 | 0 | 0 | 0 | 0 | MEMO | |
| 638 | 10/16/91 | NTS | 39 | 21 | A58A59 R | MINERAL CR | 44F | DV BULL | 0 | 0 | 0 | 0 | 0 | 0 | MEMO | |
| 1052 | 08/31/93 | 1045 LGB | 39 | | AS8AS9 R | MINERAL CR | 49F | DV BULL | 0 | 0 | 0 | 0 | 0 | 0 | MEMO | |
| 1061 | 09/16/93 | 1400 LGB | 39 | | AS8AS9 R | MINERAL CR | 51F | DV BULL | 0 | 0 | 0 | 0 | 0 | 0 | memo | |
| 1078 | 09/30/93 | 1330 LGB | 39 | | AS8AS9 R | MINERAL CR | 49F | DV BULL | 0 | 0 | 0 | 0 | 0 | 0 | MEMO | |
| 1084 | 10/18/93 | 1405 LGB | 39 | | AS8AS9 R | MINERAL CR | 44F | DV BULL | 0 | 0 | 0 | 0 | 0 | 0 | MEMO | |
| 55 | 09/18/84 | 1200 LGB | 45 | 22 | BC9CD1 R | NASON CR | | DV BULL | 0 | 0 | 0 | 0 | 4 | 0 | MEMO | |
| 42 | 09/27/83 | 1200 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | | DV BULL | 12 | 2 | 14 | 1 | POACHER | 46 | 0 | MEMO |
| 50 | 08/18/84 | 1200 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | | DV BULL | 0 | 0 | 0 | 0 | | 0 | 0 | MEMO |
| 52 | 09/11/84 | 1500 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 48F | DV BULL | 7 | 3 | 10 | 0 | | 8 | 7 | MEMO |
| 56 | 09/19/84 | 1100 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 48.2F | DV BULL | 8 | 6 | 14 | 0 | | 20 | 11 | MEMO |
| 548 | 09/23/85 | 1102 JS | 45 | 50 | BF4BF5 R | PANTHER CR | | DV BULL | 0 | 0 | 8 | 1 | POACHER | 6 | 5 | MEMO |
| 2 | 09/09/86 | 1300 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 51.8F | DV BULL | 0 | 0 | 0 | 0 | | 2 | 1 | memo |
| 3 | 09/16/86 | 1230 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 48.2F | DV BULL | 0 | 0 | 0 | 0 | | 2 | 1 | MEMO |
| 18 | 08/31/87 | 1200 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 58F | DV BULL | 0 | 0 | 0 | 0 | | 0 | 0 | MEMO |
| 21 | 09/18/87 | 1030 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 47F | DV BULL | 0 | 3 | 3 | 0 | | 0 | 0 | MEMO |
| 23 | 10/05/87 | 1400 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 48F | DV BULL | 0 | 0 | 0 | 0 | | 11 | 11 | MEMO |
| 549 | 09/12/88 | 1330 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 50F | DV BULL | 0 | 0 | 0 | 0 | | 0 | 0 | MEMO |
| 552 | 09/20/88 | 1200 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 46.5F | DV BULL | 7 | 9 | 16 | 0 | | 8 | 4 | MEMO |
| 555 | 09/27/88 | 1200 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 46F | DV BULL | 5 | 7 | 12 | 0 | | 19 | 3 | MEMO |
| 556 | 10/03/88 | 1100 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 49F | DV BULL | 0 | 0 | 0 | 0 | | 32 | 8 | MEMO |
| 557 | 09/13/89 | 1100 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 50F | DV BULL | 2 | 7 | 9 | 0 | | 2 | 2 | MEMO |
| 562 | 09/21/89 | 1330 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 48.5F | DV BULL | 9 | 6 | 15 | 0 | | 27 | 5 | MEMO |
| 563 | 10/03/89 | 1230 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 45F | DV BULL | 2 | 2 | 4 | 0 | | 33 | 3 | MEMO |
| 566 | 09/20/90 | 1100 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 50F | DV BULL | 0 | 0 | 0 | 0 | | 2 | 0 | MEMO |
| 570 | 09/28/90 | 1200 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 50F | DV BULL | 2 | 0 | 2 | 1 | UNKNOWN | 7 | 3 | MEMO |
| 572 | 10/04/90 | 1400 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | | DV BULL | HIGH | WATER | 0 | NO | SURVEY | POSS | 0 | MEMO |
| 576 | 09/17/91 | 1100 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 51F | DV BULL | 7 | 9 | 16 | 0 | | 12 | 3 | MEMO |
| 577 | 09/25/91 | 1100 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 50F | DV BULL | 2 | 3 | 5 | 0 | | 31 | 3 | MEMO |
| 578 | 10/01/91 | 1030 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 48F | DV BULL | 4 | 1 | 5 | ? | ROTTEN SMELL | 36 | 5 | MEMO |
| 580 | 10/15/91 | 0915 LGB | 45 | 50 | BF4BF5 R | PANTHER CR | 45F | DV BULL | 0 | 0 | 0 | 0 | | 37 | 2 | MEMO |
| 1030 | 08/04/92 | 1200 BDB | 45 | | BF4BF5 R | PANTHER CR | | DV BULL | 0 | 6 | 6 | 0 | | 0 | 0 | MEMO |
| 1026 | 09/09/92 | 1000 LGB | 45 | | BF4BF5 R | PANTHER CR | 9C | DV BULL | 0 | 1 | 1 | 0 | | 2 | 0 | MEMO |
| 1027 | 09/18/92 | 1030 LGB | 45 | | BF4BF5 R | PANTHER CR | 7.5C | DV BULL | 8 | 7 | 15 | 0 | | 21 | 8 | MEMO |
| 1028 | 09/23/92 | 1100 LGB | 45 | | BF4BF5 R | PANTHER CR | 10.8C | DV BULL | 1 | 6 | 7 | 0 | | 24 | 10 | MEMO |
| 1029 | 10/02/92 | 0915 LGB | 45 | | BF4BF5 R | PANTHER CR | 9.5C | DV BULL | 2 | 0 | 2 | 0 | | 26 | 12 | MEMO |
| 1051 | 08/27/93 | 1000 LGB | 45 | | BF4BF5 R | PANTHER CR | 51F | DV BULL | 0 | 15 | 15 | 0 | | 0 | 0 | MEMO |
| 1055 | 09/03/93 | 1000 LGB | 45 | | BF4BF5 R | PANTHER CR | 52F | DV BULL | 4 | 8 | 12 | 0 | | 2 | 2 | MEMO |
| 1059 | 09/13/93 | 1200 LGB | 45 | | BF4BF5 R | PANTHER CR | 49F | DV BULL | 4 | 14 | 18 | 0 | | 10 | 3 | MEMO |
| 1064 | 09/22/93 | 1100 LGB | 45 | | BF4BF5 R | PANTHER CR | 44F | DV BULL | 17 | 2 | 19 | 1 | (SKIN) UNKNOWN | 37 | 6 | MEMO |
| 1079 | 10/01/93 | 0900 LGB | 45 | | BF4BF5 R | PANTHER CR | 48F | DV BULL | 3 | 2 | 5 | 0 | | 45 | 8 | MEMO |
| 1080 | 10/15/93 | 0945 LGB | 45 | | BF4BF5 R | PANTHER CR | 47F | DV BULL | 0 | 0 | 0 | 0 | | 41 | 12 | MEMO |
| 603 | 09/19/89 | 1401 WDW | 45 | 23 | H27H28 R | PHELPS CR | | DV BULL | | | 1 | 0 | | 0 | 0 | MEMO |
| 604 | 09/28/89 | 1402 WDW | 45 | 23 | H27H28 R | PHELPS CR | 47F | DV BULL | | | 12 | 0 | | 18 | 0 | MEMO |
| 605 | 10/11/89 | 1403 WDW | 45 | 23 | H27H28 R | PHELPS CR | 46F | DV BULL | | | 0 | 0 | | 23 | 0 | memo |
| 625 | 10/11/90 | WDW | 45 | 23 | H27H28 R | PHELPS CR | 36F | DV BULL | 0 | 0 | 0 | 0 | | 7 | 0 | MEMO |

10/16/1991

10/16/91

how to enter ask lang

002669

2669

| | | | |
|----------|----------|--|---|
| 10/07/80 | LGB | A58A59 MINERAL CR LISTED AS AS8AS9 IN MUDF | SHOCKER SURVEY WITH JUDITH PARSONS, CLE ELUM RD. FOUND 3 LARGE MALES (21, 28, 26 INCHES TL) FROM KACHESS RIVER TO APPARENT IMPASSE IN CATARACTS. ALSO SAMPLED 3 JUVENILE BULL TROUT 8-10 INCHES. NO SIGN OF ANY FEMALES OR REDDS. THIS IS THE FIRST RECORDS OF AFLUVIAL BULL TROUT HERE. NOTED THAT LOWER KACHESS CHANNEL GOES SUBTERRANEAN ANNUALLY NEAR TRAIL CROSSING, OFTEN STRANDING ADULT BULL TROUT IN THE FALL. |
| 08/15/84 | 1500 JS | A58A59 MINERAL CR | |
| 09/09/85 | 1133 JS | A58A59 MINERAL CR | |
| 08/27/86 | 0900 LGB | A58A59 MINERAL CR | Surveyed Kachess R and Mineral Cr. No adult bull trout found. Flows very low. Goes dry within 300 yds of leaving forested area and flowing across alluvial plain. Fished Mineral Cr from barrier falls to alluvium area. Caught 3 CT 16,17,19 cm and 2 DV 19,15 cm. Observed fry from 1-2" from Mineral Cr to where goes intermittent (about 500 yds.) |
| 10/16/91 | NTS | A58A59 MINERAL CR | NATAPOC TIMBER SERVICES UNDER CONTRACT W/USFS. SURVEYED FROM MOUTH TO IMPASSE ABOUT 2000 FT. FLOW INTERRUPTS NEAR WILDERNESS BNDRY. 5 HOUR SURVEY. 44F @1245. |
| 08/31/93 | 1045 LGB | AS8AS9 MINERAL CR | SET UP NEW SPAWNING INDEX AREA FROM MOUTH OF MINERAL CREEK TO IMPASSABLE VERTICAL 20ft FALLS ABOUT 1/2 MILE UPSTREAM. |
| 09/16/93 | 1400 LGB | AS8AS9 MINERAL CR | |
| 09/30/93 | 1330 LGB | AS8AS9 MINERAL CR | STILL NOTHING IN THIS CREEK OR IN UPPER KACHESS R. |
| 10/18/93 | 1405 LGB | AS8AS9 MINERAL CR | SAW NO ADULT BLC OR REDDS THIS SEASON. |
| | | | THE ONLY CHANCE IS FOR EARLY FALL FAINS TO RE-WATER THE CHANNEL OF KACHESS RIVER, ALLOWING BULL TROUT (AND KOKANEE) ACCESS TO THE SYSTEM FOR SPAWNING. |

Overall 135 5 0 3 (2 on redd, 1 off redd)

| | | | | |
|-----------|-------------------------------|------------|-------------------------------------|--|
| 019 51 | 10/18/91 10/07/80 1200 LGB | WNF LGB | *JAMES JAMES CR A56A57 KACHESS R | Backpack shocker sampling with Judith Parsons (USFS). 2 DV found below Mineral Cr jct. and 3 DV in Mineral Cr itself. All were males, no females in the run this year. Kachess R dried up about 1/4 mi. below the jct with Mineral Cr. (Total lengths were 27, 25, 26, 28, and 21 inches). Lots of DV juveniles in Kachess R below and above Mineral Cr. from fry to 11 inches. Few DV and CT in Mineral Creek itself. Fair no. CT and DV juveniles in old east bank channel, which stays wetted through summer/fall due to influence of beaver dam/ponds. |
| 25 | 09/25/87 1200 JS | JS | A56A57 KACHESS R A56A57 | No redds and no fish found. Earlier shocker survey (8/15/84) produced a number of juvenile bull trout below the barrier falls, but no migratory adults. Stream channel went underground again this year, precluding adult entry. |
| 053 | 08/31/93 1200 LGB | LGB | AS6A57 KACHESS R (Upper) | SET UP NEW SPAWNING INDEX AREA FROM MINERAL CREEK TRAIL CROSSING TO CONFLUENCE WITH MINERAL CREEK, THEN UP KACHESS RIVER TO IMPASSABLE VERTICAL 50 ft FALLS ABOUT 1/2 MILE UPSTREAM. |
| 062 | 09/16/93 1500 LGB | LGB | AS6A57 KACHESS R (Upper) | STILL NOTHING IN THIS CREEK OR IN MINERAL CREEK. SAW NO ADULT BLC OR REDDS ENTIRE SEASON. |
| 077 | 09/30/93 1430 LGB | LGB | AS6A57 KACHESS R (Upper) | |
| 083 | 10/18/93 1400 LGB | LGB | AS6A57 KACHESS R (Upper) | |
| 53 | 09/12/84 1100 LGB | LGB | BD8BD9 LITTLE WENATCHEE R | THE ONLY CHANCE IS FOR EARLY FALL RAINS TO RE-WATER THE CHANNEL AND LET FISH UP FROM KACHESS LAKE. Attempted to find dolly spawners below the falls for about one mile. No fish observed and no spawning activity. |

Tributary of Bumping Lake

9-11-91

P.49

Anderson, Mongolia

TAKHIMT

cc: Commission Mongolia

9T15R12E

1551

216217

Deep CK. Bull Trout Spawning + Electrofishing Survey

(Includes Copper CK.) Surveyed approx. 1/4 mile of Copper CK, above RD. 1804 Bridge - No Fish, No activity. Visual observation only.

Electrofished upper portion of Deep CK. in area where CK. bed begins to dry up (2.8 miles from junction of RD's 1800 + 1808).

Electrofishing Time = 853 Secs.

Electrofishing Controls = Maximum on type VII Smith Root ~~Sh.~~ Shocker due to low conductivity.

Good

Electrofish DATA

Bull Trout Total Length = 72 mm - yay?

99

1 Adult Bull

100

at 445 mm

102

1+?

(Female? good condition)

109

(Possible stranded in pool)

110

8 Bulls (juveniles)

119

2+?

131

1 Adult

Brook Trout

92 mm

Sculpins - fairly abundant

Spawner Survey from Rd 1800 to Lake - both Forks.

Fish

Redds

Carcass

6

8

1 (690 mm - otoliths taken)

Most fish appeared to be spawned out - none on redds.

002073

2073

Trib of
Bumping
Lake

CAK
CO.

9-10-91

Anderson, Mongillo

Deep CK. Bull Trout Spawning Survey

09TISR12E
216217

1

- From Bridge on USFS RD. #1800 upstream approx. 3 miles (2.8 miles from junction of RD's 1800 + 1808 - just past small pond by RD 1808). Block to "bull" passage due to low flow; creek bed dries up except for deep pools.

| Fish | Redds ^(marked) | Test Digs ^(unmarked) |
|------------------|---------------------------|---------------------------------|
| 2 approx. 16" | 76 | 3 |

Water Temp.
44°F

Staff Gauge above double culvert on RD 1800
1.98

- Cascades in this section did not prevent passage.
- Juvenile salmonids (approx. 2") spotted in several pools, suspect bull.
- Suspect most spawning has already occurred. Advise spot checks in Mid-August to Early Sept. in 1992.
- Water temp. cooler this year (44°F) compared to 47°F on Sept. 24 last year. Possible major spawning activity triggered by late summer rains and cooling effect.

2

Upper CK. - From Deep CK. to bridge ^(about 200 yds) contained no Redds or Fish. Needs further investigation above bridge (RD 1808)

2452

002452

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

Tuesday Sept. 17, 1991 - Panther Creek
 - confer w/ Donald Ellis - chemistick HAA
 - to White River @ 11 AM 50°F

Rt FK Panther is dry at mouth

Panther Cr 51°F @ 1100 - clear, sunny

Hip chain string along channel

Redds False Fish Comments

(1)

1/2 way to jet pool

(1)

2/3 way to jet pool

jet. pool tail filled w/ rock bar - Flood only to Rt

(2) (dbl)

(1)

Jet Pool tailout

channel changed - little flow @ Peak falls

Blew out thru center of NHW

Pool/glide above Peak falls gone - Cut down

(1)

2300' below trail Xing

(2) reach side

(1) in New and Pool below

Rock wall (tailout)

Nothing in Rock Wall Pool

String continues - Lots Footprints

Possible New barrier Falls head Rock wall

Amazing changes / incision of channel

- Huge boulders gone (VW sized)

OOPS NO BARRIER YET

(2) (dbl)

(1) 28'

200' below Poacher

Falls below Poacher near impassable 1990

now easily negotiated

(1)

(1) 12' in redd in interacts - deep

Redds False Fish Comments ✓

- (1) Tailout deep pool below Poacher
- (3?)^{11"} Poacher Tailout
- (1?)^{9"} Poacher Pool
- (1) 1/2 way thru + classic / Poacher
- (1) just below classic
- (1) classic Tailout
- left gravel bar 60W
- (1?)^{22"} classic Pool
- (2?)^{20" 24" 28"}
- (1?)^{22"} Tail "ex" Falls Pool

Passage Now takes 6'-8" 75' Leap

(1?)^{22"} middle of final
Cataract before falls

FINAL ROCK PILE BELOW FALLS ≈ 75'
APPEARS IMPASSABLE

12 Redds
3 False

16 Adult DV obs. (18" to 28")

- 4 unknown sex
- 7 females
- 5 males

Appears spawning just started
- should be peaking in next week or so. TRY for AM count to see more fish on redds.

Wednesday 9-18-91

Box Canyon Creek - 10 AM 49°F
Kachess is highest level since I began surveys. No access problem. Log jam below "Peek" falls blown out. Now appears to be definite impasse.

Box Canyon Creek flow very low.

* Footprints up main channel all the way through.

(2 DV) 20" & 26" unkl sex below 1st bedrock pool w/ Falls - lying on Rt shoreline - quiet flat water over smallish gravel.

No digging yet - No fish in plunge pool - two styro worm containers

No Fish No redds thru rest of box canyon

* did H&H 2 DV juvs 22 & 25 cm

Now begins gravelly section -

A:C under log - (1 DV) "looked" & caught 23 cm CT

21 cm CT 21 cm CT NO DV in 2nd

bedrock pool - (1 DV) 26" against rock quiet

20 yards above SS-1-1 (caught on moose)

Fair No. CTS 16-25 cm observed all there

and a few 3" fry (spp?) -

1. Watched Peek a boo for 4 hr - NO fish

jumped or pecked. Caught 19 cm CT

- more worm containers, egg jars below peek

Beer & pop cans, plastic junk everywhere

1GE DV entrails at peek falls pool (1 mile)

I don't believe peek-a-boo falls are passable, even earlier in the summer with higher flows - pool elevation is at least a foot lower than past years since log jam blown out below. ✓

Judging from the amount of foot traffic and garbage along box canyon, these fish are probably being systematically eliminated by poacher/wandall during July and August.

If not, then the stock is so low it is endangered.

Significant recovery of native cutthroats is occurring in spite of illegal anglers.

Need to POST w/CLOSED WATERS SIGNS

Also PANTHER & GOLD CREEKS

Wed Sept 25, 1991

Panther Creek w/ Cummings

H₂O Temp White 49°F

11 AM Panther 50°F (50 4/10)

| OLD | New | False | Fish |
|--|-------------------|----------|--|
| ① ① (longer) | ① | | ♂ 28" @ Jet Tailout ♂ 28" Below Peak |
| ① (also 2/4) ① | ② ① | 1 | Peak nothing old photo site 150' below Trail |
| | ③ ④ | 1 | @ Trail 20' above Trail |
| ② 1 X (hole) | ① | | 2nd pool below Rockwall |
| ① ① | ③ | | deep tail pocket ♀ 22" 200' below Poacher |
| | ④ | | just below Poacher |
| ② ① | ② | | ♀ 22" Poacher Tail ♀ 26" Blow Classic Classic Tail |
| nothing above classic tailout | | | |
| 12 | ① | 1 false | 1ddy below log Pool |
| 29 Redds | | 5 adults | |

Thursday 9/26

Box Canyon Creek 50°F 10:25 AM

Pair gone from 1st bedrock pool/beds

(2 nice CTs cruising/rising - 8"10")

for 34 Jocky birds & 5 birds & garbage

① Redd - large 5' x 8' classic but lower end of gravel area - top of canyon

② small redd? 100' from first one are possible "false", but ~~seems~~ (starts?) immediately below log where DV "looked" at my Napps last week.① Redd heavy riffle 20" above log large 30' ~~is~~ riffled 100' upstream.① ~~Redd~~ after 100' following \nearrow (leaving up a small redd pocket) - another 50' joined with large F under bank - I dropped back to small redd (just a start?) very visible - vulnerable - locals out.

① false next riffle

2nd Bedrock Pool - No DV, No CT

① 26722 at Rock ^{below} 55-1 No redd starts yet

No Redd starts this pool/fail out

3rd Bedrock Pool 6 to 10 CTs 6"8" rising

3 redds

3 false or starts

4 DV

over

met 2 USFS techs going
down to Peck falls with a
cooler and 2 large landing
nets. were planning to
capture a ♂ DV and take it
downstream to where they
saw a lone female day
before. I dissuaded them.

They have been snorkeling
- found 2 DV heads in
peck pool - saw 10 "males"
and no females from
peck falls down to skid Road.

also - Saw 15 DV in lower
Gold Creek 2 weeks ago
- mostly in "hidy-holes". only
2 Koks then.

Tuesday October 1, 1991

Panther Creek 48°F @ 1030

White River 48°F @ 1030

Redds, false fish Comments

- (3) Below JCT
 (3) (2 sds / 1 dble) JCT tailout
 6 0 0 to old peak falls
 (Dartie) (18" x 27.6" red) (old photo site)
 (1) (1) (old DV photo site)
 (1) 200' below trail
 (1 dble) 150' below trail
 (?) last weeks (redd) at trail
 (1) 20' above trail
 (2)
 (X) (2 dbles) (18" x 26") 2nd Pool below Rock Wall
 (2) (1 dble) seen lot trip - call it (1)
 (1) deep tail pocket (now questionable)
 (1) Cataract Pocket below Poacher
 (1) 200' below Poacher
 Rotten fish odor in air 100' below Poacher Pond
 (4) Just below Poacher
 (4) Poacher tailout
 No more fish odor
 (4) (1) below classic
 (1) classic tailout

Redds false fish Comments ✓

(1)

(1)

(Active)

(24♂ 20♀)

addy to low log pool
log pool tailout

on redd - left bank eddy

(1) (done) 16' upstream (down current) of old log pool
little & very snakey, thin but active - make very active
attending constantly w/ much shivering etc.
Probably same pair on both redds

~~A~~

No sign of uppermost fish from 1st survey
clear to falls - possible redd
where I saw her, ~~lots~~ lots loose, clean
gravel, but seems too much sand also.

(1) reconsidered - call if a redd
will try to locate dead DV at odor spot
below poacher pool on way down
→ this would be highest ever!

Caught odor once very briefly, but
could not locate source

36 Redds
3 false
5 adult DV

"Could" be 39, but
reduced due to
double pocket
redds - ^{Need to} standardize

still just 2 DV redds - white Rt Channel Grass-hopper

Wednesday 10/2/91

Box Canyon Creek 47°F @ 1075

1st Bedrock Fall Pool (1 ♀ DV) scurried for cover as I topped rock pile @ tail (1 false or test) on right against bedrock/gravel interface @ the pool.

3 nice CTs 8-10" cruising around.

? Maybe the bambi mating service woulda worked
Nothing visible in plunge pool

(1 Redd) under Rt end log jam @ top box canyon

(1 Redd) (old large) 20-40 feet above log jam

(2 Redds) small upstream 75' or so (below log)

(1 Redd) center of riffle 20' above log

the small "start" where PR DV were last week is not a redd - ~~was not counted last week~~ (not counted last week)

(1 False) just above pr DV sighting about 75' nothing else to 2nd bedrock pool

(1 ♀²²) lying by root bank on left - Pool below SS within 3' of where she was last wk

open quiet water 12" deep - let me touch her

Male not in his usual spot up 50' by log rock
FOUND FRESH DV entrails (♀ large) ^{live & stored} spent ovaries

BASTARDS! - Pool above SS-1-1

(1 Redd) 100' above SS-1-3 below old log on Rt

(1 False) 20' up and on left of old log

(1 False) 12' up and center channel by log

(1 Redd) small 50' up left channel on left

Nothing in Right channel from under log jam
nothing else to last bedrock pool below Peak ✓

CTH 7-9" raising/cruising in pool
(only 3 where there were 5 last week)

1 Redd tail out 1st pool below Peak (75")
deep redd 24-36" water

Styro bait container also in pool

1 redd? 5' deep in rock crevice outfall
of Peak pool - clean bottom
of sand/light gravel

- 9 Redds
- 4 false redds
- 2 adult DV ♀♀ live
- 1 adult DV ♀ poached

~~Great last week's survey~~
~~1 redd~~

Tuesday Oct. 15, 1991

White R 45°F 0915 } Clear Sunny
Panther Cr 44°F 0920 } Cool AM

Still 2 only redd in White below
mouth of Panther Cr

Panther Creek.

40 Redd pockets

2 Test (false)

42 total "digs" (had 42 "digs" on 10/1)

NO FISH

ALSO

Make count 37 Redds due to
double pockets as found on 10/1

Need standardized approach to
Redd counts - only count redds
clearly separate, not double pocket
redds (which is really only 1)?

