

09/18/89	WDW	45	22	BD6BD7	R	MILL CR	45F	DV	BULL	0	0	0	0	1	0
09/21/89	WDW	45	22	BD6BD7	R	MILL CR		DV	BULL	0	0	0	0	1	0
10/12/89	WDW	45	22	BD6BD7	R	MILL CR		DV	BULL	0	0	0	0	1	0
10/16/91	WNF	45	22	BD6BD7	R	MILL CR	43F	DV	BULL	0	0	1	0	1	0
10/07/80	LGB	39	21	A58A59	R	MINERAL CR		DV	BULL			3	0	0	0
08/15/84	1500 JS	39	21	A58A59	R	MINERAL CR		DV	BULL	0	0	0	0	0	0
09/09/85	1133 JS	39	21	A58A59	R	MINERAL CR		DV	BULL	0	0	0	0	0	0
08/27/86	0900 LGB	39	21	A58A59	R	MINERAL CR		DV	BULL	0	0	0	0	0	0
10/16/91	NTS	39	21	A58A59	R	MINERAL CR	44F	DV	BULL	0	0	0	0	0	0
08/31/93	1045 LGB	39		AS8AS9	R	MINERAL CR	49F	DV	BULL	0	0	0	0	0	0
09/16/93	1400 LGB	39		AS8AS9	R	MINERAL CR	51F	DV	BULL	0	0	0	0	0	0
09/30/93	1330 LGB	39		AS8AS9	R	MINERAL CR	49F	DV	BULL	0	0	0	0	0	0
10/18/93	1405 LGB	39		AS8AS9	R	MINERAL CR	44F	DV	BULL	0	0	0	0	0	0
09/18/84	1200 LGB	45	22	BC9CD1	R	NASON CR		DV	BULL	0	0	0	0	4	0
09/27/83	1200 LGB	45	50	BF4BF5	R	PANTHER CR		DV	BULL	12	2	14	1	POACHER	46
08/18/84	1200 LGB	45	50	BF4BF5	R	PANTHER CR		DV	BULL	0	0	0	0	0	0
09/11/84	1500 LGB	45	50	BF4BF5	R	PANTHER CR	48F	DV	BULL	7	3	10	0	8	7
09/19/84	1100 LGB	45	50	BF4BF5	R	PANTHER CR	48.2F	DV	BULL	8	6	14	0	20	11
09/23/85	1102 JS	45	50	BF4BF5	R	PANTHER CR		DV	BULL	0	0	8	1	POACHER	6
09/09/86	1300 LGB	45	50	BF4BF5	R	PANTHER CR	51.8F	DV	BULL	0	0	0	0	2	1
09/16/86	1230 LGB	45	50	BF4BF5	R	PANTHER CR	48.2F	DV	BULL	0	0	0	0	2	1
08/31/87	1200 LGB	45	50	BF4BF5	R	PANTHER CR	58F	DV	BULL	0	0	0	0	0	0
09/18/87	1030 LGB	45	50	BF4BF5	R	PANTHER CR	47F	DV	BULL	0	3	3	0	0	0
10/05/87	1400 LGB	45	50	BF4BF5	R	PANTHER CR	48F	DV	BULL	0	0	0	0	11	11
09/12/88	1330 LGB	45	50	BF4BF5	R	PANTHER CR	50F	DV	BULL	0	0	0	0	0	0
09/20/88	1200 LGB	45	50	BF4BF5	R	PANTHER CR	46.5F	DV	BULL	7	9	16	0	8	4
09/27/88	1200 LGB	45	50	BF4BF5	R	PANTHER CR	46F	DV	BULL	5	7	12	0	19	3
10/03/88	1100 LGB	45	50	BF4BF5	R	PANTHER CR	49F	DV	BULL	0	0	0	0	32	8
09/13/89	1100 LGB	45	50	BF4BF5	R	PANTHER CR	50F	DV	BULL	2	7	9	0	2	2
09/21/89	1330 LGB	45	50	BF4BF5	R	PANTHER CR	48.5F	DV	BULL	9	6	15	0	27	5
10/03/89	1230 LGB	45	50	BF4BF5	R	PANTHER CR	45F	DV	BULL	2	2	4	0	33	3
09/20/90	1100 LGB	45	50	BF4BF5	R	PANTHER CR	50F	DV	BULL	0	0	0	0	2	0
09/28/90	1200 LGB	45	50	BF4BF5	R	PANTHER CR	50F	DV	BULL	2	0	2	1	UNKNOWN	7
10/04/90	1400 LGB	45	50	BF4BF5	R	PANTHER CR		DV	BULL	HIGH	WATER	0	NO	SURVEY	POSS
09/17/91	1100 LGB	45	50	BF4BF5	R	PANTHER CR	51F	DV	BULL	7	9	16	0	12	3
09/25/91	1100 LGB	45	50	BF4BF5	R	PANTHER CR	50F	DV	BULL	2	3	5	0	31	3
10/01/91	1030 LGB	45	50	BF4BF5	R	PANTHER CR	48F	DV	BULL	4	1	5	?	ROTTEN SMELL	36
10/15/91	0915 LGB	45	50	BF4BF5	R	PANTHER CR	45F	DV	BULL	0	0	0	0	37	2
08/04/92	1200 BDB	45		BF4BF5	R	PANTHER CR		DV	BULL	0	6	6	0	0	0
09/09/92	1000 LGB	45		BF4BF5	R	PANTHER CR	9C	DV	BULL	0	1	1	0	2	0
09/18/92	1030 LGB	45		BF4BF5	R	PANTHER CR	7.5C	DV	BULL	8	7	15	0	21	8
09/23/92	1100 LGB	45		BF4BF5	R	PANTHER CR	10.8C	DV	BULL	1	6	7	0	24	10
10/02/92	0915 LGB	45		BF4BF5	R	PANTHER CR	9.5C	DV	BULL	2	0	2	0	26	12
08/27/93	1000 LGB	45		BF4BF5	R	PANTHER CR	51F	DV	BULL	0	15	15	0	0	0
09/03/93	1000 LGB	45		BF4BF5	R	PANTHER CR	52F	DV	BULL	4	8	12	0	2	2
09/13/93	1200 LGB	45		BF4BF5	R	PANTHER CR	49F	DV	BULL	4	14	18	0	10	3
09/22/93	1100 LGB	45		BF4BF5	R	PANTHER CR	44F	DV	BULL	17	2	19	1	(SKIN) UNKNOWN	37
10/01/93	0900 LGB	45		BF4BF5	R	PANTHER CR	48F	DV	BULL	3	2	5	0	45	8
10/15/93	0945 LGB	45		BF4BF5	R	PANTHER CR	47F	DV	BULL	0	0	0	0	41	12
09/19/89	1401 WDW	45	23	H27H28	R	PHELPS CR		DV	BULL			1	0	0	0

Field notes say 46

how to enter ask lang

Maverick Saddle as only one (level II?) count was made on Sept. 22nd. This timing is intermediate between counts done on lower sections on 9/9-14 and 10/19-20.

09/29/89	WDW	*MEADO MEADOW CR	
09/18/89	WDW	BD6BD7 MILL CR	SURVEY FROM EAST HWY2 TO SNOW SHELTER TAKES 1 HOUR OR LESS. 45F @1500
09/21/89	WDW	BD6BD7 MILL CR	
10/12/89	WDW	BD6BD7 MILL CR	
10/16/91	WNF	BD6BD7 MILL CR	WENATCHEE NATIONAL FOREST SURVEYS. AREA SURVEYED REDDS FISH TEMP/ETC Mouth to E lanes Hwy2 1 1 43F (Sec.1 abt 1650 ft) Hwy2 upstream 1000 ft 0 0 44F (Sec.2 abt 1000 ft)
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.
09/18/84 1200 LGB		BC9CD1 NASON CR LISTED AS BC9BD1 IN MUDF	Observed the four good redds in the stretch from the mouth of Whitepine Cr upstream for about 3/4 mile. Redds were too small for chinook salmon, and "assumed" dolly redds even though no DV were actually seen.
09/27/83 1200 LGB		BF4BF5 PANTHER CR	9/21/83 call from Rick Hartung (206-772-4898) reporting about 100 fish spawning in Panther Cr about 1/2 mile to 1 mile above the White.

Described as red bellies, orange tails, and white

Sept. 27, 1983 Panther Cr. Survey ✓
(trib. White River) T28N, R15E, Sec. 10/11

Based on report by Rick Hartung (9-21-83)
(206) 772-4898 - Saw about 100 fish
18-24" spawning in creek 1/2 to 1 mile
above confluence w/ White River -
described as red bellies & orange tails
with white edges on paired fins.
Sounded like dollys, so went to see.

Typical high gradient bobble creek
in lower 1/2 mile then changes to
very steep bedrock cataracts with
numerous 3' to 8' falls. Extreme
boulder-zone habitat with gravel
pocketed below bedrock and boulders
plunge pools. Found dolly redds
from about 1/2 mile upstream from
white river all the way through
ataract canyon until stopped
by a 60 foot sheer bedrock falls.
Total spawned area about 3/4 mile.

11 redds below major ataract

35 redds (minimum) within ↑ zone

6 of the redds attended by d.v. pairs
plus 2 d.v. males observed nearby,
= 13 fish obs. (over) all est. at 22"-30"

one ♀ mortality - probably man-caused ✓
as belly slit open (for eggs?)

63 cm total length

badly decomposed, even otoliths

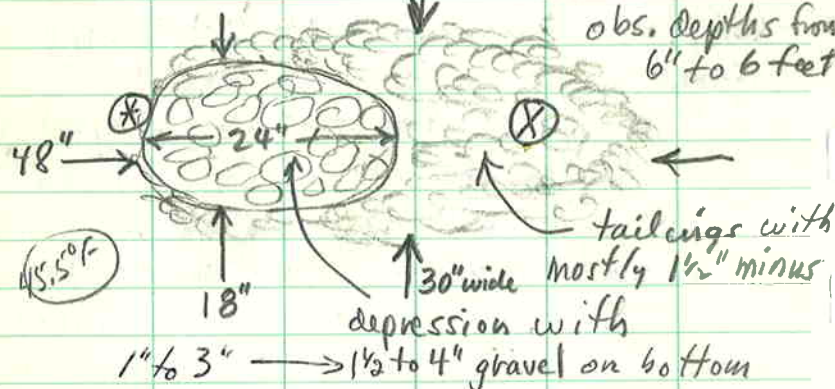
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hook & line samples obtained

1	DV	imm	14.2 cm	♂(♀)	1+
1	RB	mature	18.2 cm	♂	
1	RB	imm	21.8 cm	♂	2+
1	RB	mature	29 cm	♀	4+
1	DV	mort.	63 cm	♀	otoliths disintegrated

"Typical" Redd measurements - except shallower -

obs. depths from 6" to 6 feet



main pocket 18" wide x 24" long

entire redd 30" wide x 48" long

depth at (*) = 11" and (X) = 6"

velocity across redd = 1.0 ft./sec. (obs. up to 2.5 ft./sec.)

water Temp. 7.5°C at 1230 - transparent