Mill Creek Diversion Dam

Special Report on Fish Passage

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Introduction

Fish passage at the Mill Creek Diversion Dam (aka Bennington Diversion Dam, hereafter referred to as the Diversion Dam) has been an issue of concern to area fishery managers (Mendel et. al. 2002, Contor and Sexton 2003). Limited radio telemetry data and redd counts in 2003 seemed to indicate that few steelhead were able to pass the ladder. It was postulated that if steelhead were having difficulty passing the dam, it would be nearly impossible for weaker swimmers, such as bull trout, to pass.

In February 2003 an underwater camera and time-lapse VCR were installed at the Diversion Dam ladder to determine if any fish were passing. Only one rainbow trout (moving downstream) was distinguished on the video from mid-February to May 2003, further supporting the conclusion that the ladder was inadequate for fish passage. However, the camera had been placed in turbulent water making it very difficult to see, so it is unknown if fish were actually passing the dam.

A similar effort was undertaken in 2004, but the camera was installed directly upstream of the ladder exit where visibility was generally good. The results of the 2004 effort showed that several fish species were able to pass the dam at various flows.

Location and Description

The Diversion Dam is located at Mill Creek river mile 11.5 near Walla Walla, Washington. Mill Creek is a tributary of the Walla Walla River. The Diversion Dam was constructed in 1942 by the Corps of Engineers (Corps) as part of a project to protect the city of Walla Walla from flooding. No, or very limited, upstream fish passage (USACE 1981) was provided past the dam from 1942 until 1982 when the present fish ladder was constructed. Fish passage improvements were also made upstream from Roosevelt Street and at the Corps Division Dam in 1982.

The Diversion Dam fish ladder is 6.5 feet wide and 86 feet long and is designed to pass flows up to 42 cubic feet per second (cfs) at a forebay elevation of 1256 feet (msl). The downstream invert elevation is 1245 feet and the upstream invert elevation is 1250.5 feet. The operational range is between forebay elevations 1253 and 1256 feet, but in recent years an automated control was installed and the normal operation is now between 1254.5 and 1255.5, keeping the flow through the ladder relatively stable (approximately 30 to 35 cfs). The adjacent sluiceway, or low flow outlet, can pass a maximum of 400 cfs. Once Mill Creek flows exceed 400 cfs, the low flow outlet is closed and the forebay rises until water starts to flow over the spillway at 1261 feet. When flows exceed 400 cfs (or when the forebay is above 1261) the ladder exit (upstream) is partially closed so that the ladder is not overtopped. Flow velocities through the submerged exit are likely too high for fish to pass (because of excessive head over the exit). In 2004 flows were above 400 cfs (or

the forebay was above 1261, limiting fish passage) for a total of about 12 days (January 30-31, February 18, May 29-June 1, and June 10-14).

A temporary fishway, made out of concrete blocks, was installed below the Diversion Dam ladder on February 25, 2004. This fishway was intended to improve ladder entrance conditions. The blocks were extended further downstream than a similar temporary fishway constructed in 2003.

The ladder's upstream exit is designed to function as an open slot and has a 24-inch-wide by 81-inch high slide gate. Downstream flow passes through seven weirs with 12-inch wide vertical slots with head differentials varying from 10 to 22 inches depending on the forebay elevation. The ladder is over 50% shaded from above largely due to a walkway grating. When natural flows in Mill Creek are 42 cfs or less, all water is passed through the fish ladder (except for the flow that leaks past the low-flow outlet gate). The ladder is briefly dewatered for debris removal twice monthly from February to May and at least once a month at other times. Additional debris checks are made several times each week during the late winter and spring and less frequently at other times. When the ladder is "dewatered" some water remains within each level of the ladder where fish remain until flow is routed back through the ladder.

Materials and Methods

An AquaView¹ underwater camera was installed in front of the upstream exit of the Diversion Dam ladder on February 4, 2004. The camera was placed such that about the upper two-thirds of the exit could be seen at forebay elevation 1254.5. The camera was positioned perpendicular to the exit, approximately 30 inches from the center of the exit (Figure 1). The wide-angle lens allowed for a field of view that extended back into the ladder. This helped to show if fish were actually exiting the ladder, or just swimming near the exit.

¹ The use of trade names does not constitute endorsement by the U.S. Army Corps of Engineers.

Figure 1. Overhead view of the Mill Creek Diversion Dam fish ladder exit. The underwater camera was attached to the pipe on the left side of the photo and a water quality monitor was located in the white pipe on the right side of the photo.



After installation, a ruler was moved in front of the camera at varying distances to determine the approximate scale of a fish if it passed either through the far, middle, or near side of the exit so that length estimates could be made.

The camera unit was connected to a time-lapse video recorder set to record at four frames per second. This enabled at least 24 hours of video to be recorded on one standard 120 minute VHS tape. Date and time were recorded on the video. The camera was cleaned as needed, however the frequency of cleanings increased to once per week by mid May. Part way though the season, the original video recorder malfunctioned and was replaced with a similar recorder. The replacement recorder utilized high-density recording that allowed approximately 75 hours of video to be recorded on one standard 120 minute VHS tape. However, in most cases, only 24 hours of video was recorded per tape.

Tapes were changed and viewed daily. An initial viewing was performed using a standard VCR, which allowed the 24 hours of tape to be viewed in about 1.5 to 2.5 hours. Periods of darkness were not viewed. Time, direction of travel, and initial species identification were noted during the initial viewing. The standard VCR could only be stopped on every other video frame, which sometimes made positive identification of species difficult. Once the times for each fish were noted, a second viewing was performed using a time-lapse VCR. The time-lapse VCR enabled every frame to be viewed. Length estimates were made by comparing the fish images to the scale mentioned previously. Length estimates for rainbow trout were discontinued in late May due to time constraints (30 to 95 fish were seen passing the ladder in one day). When possible, length estimates for other species were made. Any adipose fin clips or other markings were also noted.

Flow data from the USGS stream gage "Mill Creek at Walla Walla" (14015000) was recorded at the time a fish appeared on the video. Flow data from this gage was used until June 30 when all flows were diverted into Yellowhawk/Garrison Creeks (one mile

downstream from the Diversion Dam), leaving the gage dry. At that point the "Mill Creek near Walla Walla" (14013000) was used. The "Mill Creek at Walla Walla" gage is typically 20 to 40 cfs lower than the amount passing the Diversion Dam, because that amount is diverted into the Yellowhawk/Garrison channels just upstream from the gage. The "Mill Creek near Walla Walla" gage is similar to flows past the Diversion Dam during the summer. Blue Creek empties into Mill Creek below the gage, but Titus Creek and other irrigation withdrawals remove some flow prior to reaching the Diversion Dam.

Water temperature data at the Diversion Dam ladder exit were recorded with a GreenSpan¹ water quality monitor until June 9 when the instrument was removed. A Hobo stowaway temperature logger was installed in the ladder on June 26 and was left in place until after the video recording was terminated on July 10. Water temperatures at the time fish appeared on the video were recorded.

Second Camera

A second underwater camera was installed from April 5 to 14. This camera was placed on the opposite side of the exit and lower than the first camera. This camera was connected to the time-lapse recorder with high-density recording mentioned earlier. The time was synchronized with the first unit. The frame frequency was inadvertently set to about 12 frames per second. The tapes were viewed with a standard VCR to quantify the number of fish observed exiting the ladder below the view of the first camera. The fish passage times from the second camera were compared to the passage times from the first camera to note duplications. Because of the VCR setting of 12 frames per second, these tapes took approximately 3.5 hours to view 24 hours of tape (minus periods of darkness).

Results

The video monitoring revealed approximately 1,187 fish apparently passing up the ladder between February 4 and July 10, 2004. In general most of the fish appeared on less than six frames. Therefore, they passed through the camera's field of view in less than 1.5 seconds. Table 1 summarizes data for the most abundant species observed on the videos. The fish species observed passing upstream on the videos include, (851) rainbow trout and (51) adult steelhead (*Oncorhynchus mykiss*), (93) suckers (*Catostomus sp.*), (68) chinook salmon (*O. tshawytscha*), (20) bull trout (*Salvelinus confluentus*), (8) Red-side shiner (*Richardsonius balteatus*), and (2) mountain whitefish (*Prosopium williamsoni*). It was sometimes difficult to distinguish between large rainbow trout and steelhead, which could affect the reported numbers. Approximately 94 unidentifiable fish were also seen. A majority of the unidentified fish were likely rainbow trout. In addition to fish species, a river otter, muskrat, beaver, and a bullfrog tadpole were also seen on the video. The complete data record is included in Appendix A. Example photos of the various species taken from the videos are included in Appendix B.

Species	Number	Date Range	Temperature Range (C)	Flow Range (cfs)**
Rainbow trout	851	Feb. 8 to July 10*	3.6 - 23.1	13 - 225
Steelhead	51	Feb. 16 to Apr. 23	5.7 - 12.9	49 - 213
Sucker	93	Apr. 29 to July 8*	12.7 - 22.7	14 - 187
Chinook	68	May 6 to July 8*	11.0 - 22.0	21 - 237
Bull trout	20	Apr. 16 to June 30*	10.6 - 22.2	15 - 85

Table 1. Summary Data for Fish Passage at the Mill Creek Diversion Dam Fish Ladder,2004.

* Fish of this species were observed by snorkeling downstream from the dam after the last one was observed on the video.

** The actual flow at the Diversion Dam was likely 20 to 40 cfs higher than the "Mill Creek at Walla Walla" gage because of diversions into Yellowhawk/Garrison Creek.

Length estimates were made for many of the observed fish. The length estimates are available in the data tables in Appendix A. There was a wide range (3 to 6 inches) in the length estimates because it was impossible to determine how far a fish was from the camera lens.

Fish were observed exiting the ladder at all daylight hours, but were most abundant in the afternoon (Figures 2 and 3). Typically only a few fish were seen per day, but as water temperatures warmed in mid June, the number recorded per day increased to a peak of 95 on June 27. Less than ten fish per day were being seen as of July 10 when the video monitoring was terminated.

Figure 2. Rainbow Trout Passage Time by Hour of the Day for the Mill Creek Diversion Dam Fish Ladder.

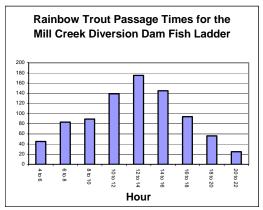
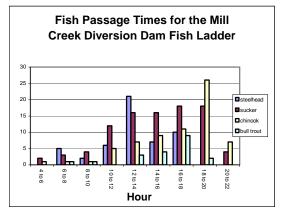


Figure 3. Fish Passage Times by Hour of the Day for the Mill Creek Diversion Dam Fish Ladder.



Second Camera

A second underwater camera, placed to determine the number of fish exiting the ladder beneath the first camera, was installed for eight days in April. During this period a total of 89 fish were observed exiting the ladder. Of these 89 fish, 62 were recorded on the first camera. For this period in April, 1.44 times more fish passed the ladder during daylight hours than were recorded on camera 1.

	Cam1 &	Cam1	Cam2	Total	Total		
Date	Cam2	only	only	Cam1	both	Ratio	Notes
5-Apr	7	1	5	8	13	1.63	one steelhead (seen by both cameras)
6-Apr	9	4	5	13	18	1.38	two steelhead (seen by both cameras)
7-Apr	8	2	5	10	15	1.50	three steelhead (seen by both cameras)
8-Apr	12	1	3	13	16	*	*Debris may have caused fish to alter their exit paths
9-Apr	9	2	0	11	11	*	*Debris may have caused fish to alter their exit paths
10-Apr	4	0	3	4	7	1.75	
11-Apr	4	0	2	4	6	1.50	
12-Apr	6	3	5	9	14	1.56	one possible sthd on Cam2
13-Apr	7	3	1	10	11	1.10	
14-Apr	3	1	1	4	5	1.25	
15-Apr							Too turbid
			Totals	62	89	1.44	

Table 2. Data from the Second Underwater Camera Placed at the Fish Ladder Exit, Mill Creek Diversion Dam, 2004.

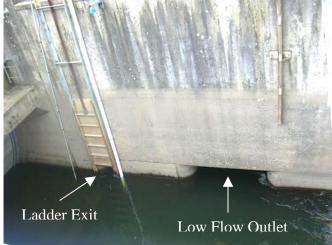
*Data from April 8-9 was not used in the totals because debris in the exit may have caused fish to alter their normal exit paths.

Discussion

The underwater camera was functional for most of the time during the monitoring effort. There were a few days when the equipment malfunctioned or the water turbidity was too high to see more than a few inches. The reported numbers of fish are likely lower than the actual number of fish that passed the ladder. Some fish traveled through the exit beneath the view of the camera. During an eight-day period in April, 1.4 times more fish exited the ladder during daylight hours than were recorded with the main underwater camera. In addition to the space beneath the camera, nighttime passage was not monitored. Three of five radio-tagged fish (two steelhead and three chinook) passed the exit during darkness. Only one of the five (a chinook) was captured on the video (Mahoney 2004).

Nighttime passage was monitored at Nursery Street Bridge on the Walla Walla River. In the East ladder approximately 40% (151 of 376) of the steelhead, 27% (29 of 109) of the chinook, and 36% (12 of 33) of the bull trout exited the ladder during darkness (Bronson, 2004 preliminary data). The West ladder was also monitored, but a fish trap was also operated in the ladder, which may have affected fish exit times (Barrows et. al., 2004). Faurot and Kucera (2002) measured between 39 to 94% nighttime movement of adult chinook salmon past a counting station on Lake Creek in Idaho from 1998 through 2002.

It is possible that some fish recorded at the Diversion Dam were counted more than once. Fish could reenter the ladder below the view of the camera or travel back downstream through the low flow outlet. The low flow outlet is only a few feet away from the ladder exit as shown in Figure 4. Estimates for the total number of steelhead and chinook salmon that may have passed the dam are presented in the following sections. Figure 4. Mill Creek Diversion Dam Low Flow Outlet Entrance (right side of photo) and Fish Ladder Exit (left side of photo).



Steelhead

A total of 51 steelhead were captured on video exiting the Diversion Dam ladder between February 16 and April 23. Some steelhead might have already traveled upstream of the dam prior to initiating the video monitoring on February 4, as a steelhead was observed below the dam on February 2.

Flow during this early spring period can vary dramatically. When flows exceed 400 cfs, fish are not able to move past the Diversion Dam. Flows are typically above 400 cfs for at least a few days every year. In some years, flows can remain above 400 cfs for a week or longer. Figure 5 shows the "Mill Creek at Walla Walla" hydrograph for 2004 (broken red line) and the average over the last 61 years (solid blue line).

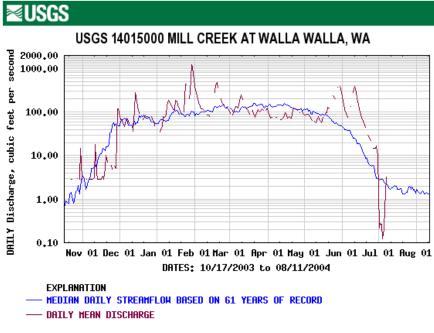


Figure 5. Hydrograph for Mill Creek at Walla Walla.

Provisional Data Subject to Revision

Two radio-tagged steelhead made it up to and past the Diversion Dam in 2004 (Mahoney 2004). Both of these fish exited the ladder without being captured on the video. One (#39) exited the ladder during darkness (00:59), the other (#21) exited in the early afternoon (12:24).

I estimate the total number of steelhead that might have passed the Diversion Dam in 2004 between 61 and 78 fish. This is based on 51 captured on the video, an estimated 1.1 times the number that were seen on the video that might have exited beneath the camera, and an estimated 10 to 40% that might have exited the ladder during darkness. No fish with apparent adipose fin clips were seen, however not all of the steelhead exited so that their adipose fins were visible.

Bull Trout

A total of 20 bull trout were captured on video exiting the Diversion Dam ladder between April 16 and June 30. It is likely that other bull trout might have passed beneath the view of the camera and during darkness. An estimated 26 to 32 bull trout might have exited the ladder during the monitoring period. This estimate is based on an estimated 1.2 times the number that were seen on the video that might have exited beneath the camera and the possible 10 to 35% that may have exited during darkness.

One bull trout was observed by snorkeling below the Diversion Dam on July 3, 2004. As with all the other species, most bull trout exited the ladder in the afternoon hours (Figure 3). Bull trout passed the ladder at lower flows than the other salmonids. Flows at the "Mill Creek at Walla Walla" gage read between 15 and 85 cfs when bull trout exited the

ladder. The actual flows past the Diversion Dam during the bull trout exit times were likely 35 to 125 cfs.

Chinook Salmon

In recent years, the Confederated Tribes of the Umatilla Indian Reservation began chinook salmon reintroduction efforts in the Walla Walla Basin, including Mill Creek. In 2000 about 105 pre-spawn, spring chinook were released into upper Mill Creek. Forty redds were later observed. In 2001, 150 pre-spawn chinook were released into upper Mill Creek. Fifty were released in 2002 (Contor and Sexton 2003). Until 2004 it was unknown how many adults, if any, would return to the upstream locations to spawn.

A total of 68 chinook were recorded on video exiting the Diversion Dam ladder between May 6 and July 8, 2004. At least five other adult chinook were observed below the Diversion Dam after July 8. There were still at least three holding below the Diversion Dam on August 10, 2004.

At least three radio-tagged chinook made it past the Diversion Dam in 2004. One (#26A) exited the ladder during daylight (4:55), the other two (#51 and #55) exited during darkness (22:42 and 23:31). Fish #26A made it through the ladder in about three hours. Fish #51 made it through the ladder in 42 minutes. Fish #55 made it completely through the ladder in 22 minutes (Mahoney 2004).

I estimate the total number of chinook that might have passed the Diversion Dam in 2004 between 81 and 96 fish. This is based on 68 captured on the video, an estimated 1.1 times the number that were seen on the video that might have exited beneath the camera, and an estimated 10 to 30% that might have exited the ladder during darkness. No fish with apparent adipose fin clips were seen, however not all of the chinook exited so that their adipose fins were visible.

Unlike typical years, 2004 had high flows late in the season (Figure 5). In a typical year flows drop below 40 cfs at the Diversion Dam (20 cfs at the "Mill Creek at Walla Walla" gage) around mid June. In 2004 fifty chinook had been captured on video passing the Diversion Dam by June 15. This represented almost 75% of the total number observed passing the dam. Some chinook were stranded and perished in the Mill Creek channel even with the unusually late high flows of 2004 (Mendel personal communication, Tice personal observation 1). It is likely that in "normal" or below normal flow years, 25 to 50% or more of the returning chinook adults will find it difficult to reach the Diversion Dam and may perish prior to spawning.

Based on the numbers of chinook that returned to Mill Creek in 2004 and the adult chinook releases from 2000 to 2002, more chinook are expected to return in 2005 and 2006. One sub-adult chinook (approximately 20 inches) was observed below the Diversion Dam on July 6, 2004 (Tice, personal observation 2).

Other species

A total of 851 rainbow trout, 93 suckers, eight shiners, and two whitefish were also captured on video exiting the Diversion Dam ladder in 2004. Rainbow trout likely use the ladder throughout the entire year and some are able to pass at flows up to at least 225 cfs (Mill Creek at Walla Walla). Suckers began using the ladder near the end of the steelhead run and continued into the summer when the video monitoring was terminated.

Recommendations and Future Monitoring

It is not clear whether the concrete blocks placed as a temporary fishway channel below the Diversion Dam ladder improved passage conditions, but they certainly did not make passage worse at most flows. The fishway leading up to the ladder entrance visually looked more conducive to passage. At the beginning of July when flows were low, the flow through the low flow outlet and flow escaping beneath the concrete blocks may have made it more difficult for some fish to find the ladder entrance. Once this situation was noticed the forebay was adjusted to operate six inches higher, which closed the low flow outlet and routed all of the flow through the ladder. The largest holes under the blocks were also plugged. These measures appeared to improve attraction flows leading to the ladder. Another problem could have been that two of the three 1100 pound concrete blocks that had been placed in the fishway to break up the flow in the fishway slid down into the pool below the entrance channel during the high flow event that ended June 14. It is recommended that a fishway similar to the temporary structure installed in 2004 is left in place or is reinstalled in future years. A permanent fishway may be warranted. Figure 6 shows the temporary fishway created in 2004.

There are several improvements that could be made to the video monitoring effort in future years. Digital video recorders are currently being tested for use at the Diversion Dam in 2005. The digital video recorders are able to detect motion and could save time enumerating passing fish. Also a more accurate length measurement system would be beneficial. A system using lasers that project two beams a known distance apart (similar to Faurot and Kucera 2002) is being considered.

Two complete video systems are being planned for use in 2005 to monitor the Diversion Dam exit. Placing one camera high and one low should allow close to 100% coverage of the exit. A lighting system so that nighttime passage can be assessed is also being considered.

Plans are also being made to install a video monitoring system at the Yellowhawk/Garrison Creek Diversion in 2005. Comparing passage results for this location and the Diversion Dam ladder would help quantify the total number of adult steelhead and chinook using Yellowhawk Creek and the Mill Creek channel through Walla Walla. The Tri-State Steelheaders and the Washington Department of Fish and Wildlife operate a fish trap on Yellowhawk Creek. However, the trap is in a location that cannot capture all of the fish that may be using Yellowhawk Creek as the channel splits downstream from the trap then rejoins upstream from the trap. In 2004 a total of 35 steelhead were caught in the trap between February 1 and April 21 (Geidl, personal communication). Since 50 steelhead were seen on the underwater video monitor at the Diversion Dam by April 14, some steelhead had either migrated above the trap prior to February 1, some steelhead used the other available Yellowhawk Creek channel, or some steelhead migrated through the concrete Mill Creek channel through Walla Walla.

Figure 6. Looking upstream at the Mill Creek Diversion Dam. The concrete blocks below the ladder (on the right side of the creek) were placed to create a temporary fishway leading to the ladder entrance. The two lower small blocks in the fishway slid downstream during high flows in mid June.



Summary

Many more fish were observed passing the Diversion Dam ladder than was expected. It is not known if recent modifications at the Diversion Dam improved passage, but the video monitoring results seem to indicate that fish passage may no longer be as poor as it appeared to be in the past. It is still unknown precisely how many fish might be delayed or blocked from passing the dam.

References

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Tice, B. Personal observation 2. Approximately 20-inch chinook with severe head fungus observed in Mill Creek below the Mill Creek Diversion Dam on July 6, 2004. Corps of Engineers. Walla Walla, Washington.

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Appendix A

Underwater Video Monitoring Data

Mill Creek Diversion Dam

2004

	Fish sight	inas from u	nderw	ater ca	mera at the Mill	Creek Div	ersion Dam	Ladder 2	004				1
i i		rted on 2/4/		ator ou		Olook Bil	oloion Bain	Edddol 2			Count going upstream		
	Flow from									es to YH, between the dam and the gauge.	Steelhead	51	
	Date	Video Time	AcTy	/pe	Est. Size (inches)	Ad Clipped	Direction	Flow cfs	Temp C	Notes (any times indicated are camera time)	Chinook	68	
	2-Feb			Sthd	20 to 22	?				1 Sthd caught and released below the spillway when flows receded.	Bull trout	20	
1	8-Feb			RBT	8 to 10	No	upstream	97	5.85	high in exit	suckers	93	
2	10-Feb	8:17:28		RBT	4 to 5	No	neutral	85	4.13		whitefish	2	
3	10-Feb	16:39:25	#	RBT	14 to 18	No	upstream	83		may be a steelhead, high in exit	Rainbows	851	territoria de la
	12-Feb	8:30:44	#	DDT	12 to 16	?	neutral	76	3.72	Seen in background	Unidentified Redeide abinor	94	trout and f
	12-Feb 14-Feb	8:42:47		RBT RBT	13 to 16	No No	neutral	76	3.62 6.12	high in ouit	Redside shiner	8 1187	
4	14-Feb 16-Feb			Sthd	7 to 9 18 to 22	No	upstream upstream	68 78	5.67	high in exit Stream gauge problem, high in exit	Total seen passing upstream	110/	
	10-1 60	17.33.35	<i>"</i>	Striu	101022		upsiream	10	5.07	Camera offline - cables cut 2-17 to 2-21			
2	22-Feb	14:41:05	#	Sthd	14 to 18	No	upstream	183	6.05	Moved camera further back, high in exit			
5	23-Feb			RBT	7 to 9	?	upstream	149	5.48				
6	23-Feb	15:55:26		RBT	6 to 8	No	upstream	143	7.43				
7	23-Feb	16:02:16		RBT	7 to 9	No	upstream	143	7.43	possibly same fish?, high in exit			
8	23-Feb		#	RBT	7 to 9	No	upstream	143	7.43	possibly same fish?, high in exit			
	24-Feb			RBT	4 to 5	No	neutral	134	5.2				
3	24-Feb	13:43:19		Sthd	16 to 20	No	upstream	137	6.25	low in exit, maybe RBT (spotting pattern)			
	25-Feb									River Otter ~ 8:02 and 8:13, Measurement test w/ruler ~ 15:45. Installed blocks at entrance.			
4	27-Feb	8:51:36		Sthd	20 to 22	No	upstream	119	5.91	pointed snout			
	27-Feb			RBT	4 to 6	No	neutral	72	6.22	good size constrast w/ last fish. (Shows the problem w/ size estimation.)			
9	27-Feb			RBT	5 to 7	No	upstream	124	6.64				
5	28-Feb	12:07:33		Sthd	18 to 22	No	upstream	102	6.64	Forebay level dropped below camera, 21:15 to 10:15			
10	28-Feb			RBT	8 to 12	No	upstream	102	6.64	Forebay level dropped below camera, 9:25 to 10:45			
11	28-Feb	15:41:09		RBT	11 to 13	No	upstream	102	7.58				
12	28-Feb	17:43:34		RBT	6 to 8	No	upstream	102	7.44				
13	29-Feb	14:57:19		RBT	10 to 12	No	upstream	93	7.88				
14	29-Feb 1-Mar	15:32:57	#	RBT	10 to 12	No	upstream	93	7.88	Forebay layed drapped below camera 5:47 to 10:20			
15	1-Mar 1-Mar	17:34:30	#	RBT	12 to 14	No	unstroom	85	6.78	Forebay level dropped below camera, 5:47 to 10:30			
15	2-Mar	17:34:30		RBT	9 to 12	No	upstream upstream	85 79	7.8	Forebay level dropped below camera, 10:30 to 11:15	1		
10	2-iviar 3-Mar	10.20.40	TT I		51012	140	apacitaril	13	1.0	Camera off-line, power problem	1		
\vdash	4-Mar	1	+-			1				Forebay level dropped 1:10 to 11:30	1		1
6	4-Mar	16:21:09	#	Sthd	20 to 22	No	upstream	100	6.41	Forebay level dropped 23:45 to 0:30			
	4-Mar	16:25:41				No	neutral	100	6.41	Same fish as previous			
	5-Mar	7:51:13		RBT	4 to 6	No	?	121	4.7				
17	6-Mar	14:37:45	#	RBT	12 to 14	No	upstream	116	7.25	Forebay level dropped, 1:00 to 1:30, 5:00 to 5:30, 6:15 to 13:30			
18	6-Mar	15:20:35	#	RBT	11 to 14	No	upstream	113	7.25				
19	7-Mar	9:28:49	#	RBT	12 to 14	No	upstream	110	6.1				
	7-Mar	15:17:16	#	RBT	11 to 14	?	?	107	9.29	Tail only seen @ 15:17:01			
20	7-Mar	15:43:44	#	RBT	11 to 14	No	upstream	107	9.29				
21	7-Mar	16:13:11		RBT	11 to 13	No	upstream	107	9.29				
22	7-Mar	16:46:42		RBT	11 to 13	No	upstream	107	9.46				
23	7-Mar	17:17:19		RBT	7 to 11	No	upstream	107	9.46				
24	7-Mar	17:54:43		RBT	14 to 17	No	upstream	107	9.27	Possible Sthd			
25	7-Mar	18:18:55		RBT	14 to 18	No	upstream	107	9.27	Possible Sthd			
/	8-Mar 8-Mar	10:44:00		Sthd RBT	16 to 18	possibly	upstream	127	6.88	Forebay level dropped 3:55 to 9:50, and 13:55 on, Cleaning ladder ~ 15:10 (sthd spotting pattern)			
26 27	8-Mar 8-Mar	16:22:06 16:53:58		RBT	12 to 13 6 to 10	No No	upstream	120 100	10 10	Forebay level back up @ 15:55			
21	9-Mar	7:50:49		Sthd	20+	?	neutral	194	10	High turbidity (snow melt), may have missed some fish			
8	9-Mar	7:51:05		Sthd	20+	No	upstream	194		rightablaity (show meit), may have missed some lish			
9	9-Mar	8:48:50		Sthd	20	?	upstream	198					
28	9-Mar			RBT	12 to 13	No	upstream	187					
	9-Mar	14:08:16	#	?	12	?	upstream	194		Likely RBT			
29	9-Mar	14:28:01	#	RBT	12 to 13	No	upstream	194					
	9-Mar	14:32:48	#	?	12	?	upstream	194		Likely RBT			
30	10-Mar	13:41:19		RBT	12 to 14	No	upstream	213		High turbidity (snow melt), may have missed some fish			
10	10-Mar	15:15:29	#	Sthd	18 to 22	No	upstream	213					
31	10-Mar	16:15:52		RBT	10 to 12	No	upstream	213					
F-1	10-Mar	16:58:46		RBT	6 to 8	No	neutral	229					
32	12-Mar	14:00:58		RBT	8 to 10	No	upstream	134	9				
33	13-Mar	18:11:39		RBT	8 to 12	No	upstream	113	8.3	Forebay level dropped below camera 11:00 to 11:30			
34	15-Mar	13:01:07		RBT	12 to 14	No	upstream	89	8	Forebay low until 8:30, High turbidity 12:15 to 13:30 (inwater work upstream?)			
11	15-Mar 16-Mar	13:03:18	#	RBT Sthd	12 to 14	No No	?	89	8	Same fish as previous?			
35	16-Mar 16-Mar	13:25:27 15:09:25		RBT	22 to 26 12 to 18	No	upstream upstream	85 85	9.1 10.4		1		
36	16-Mar	15:48:40		RBT	6 to 8	No	upstream	89	10.4		1		
37	17-Mar	7:23:44		RBT	10 to 13	No	upstream	89	7.2	seen again @ 7:24:05, 7:24:41, 7:25:11	1		
38	17-Mar	9:02:17		RBT	11 to 13	No	upstream	89	7.4		1		
12	17-Mar	9:13:01		Sthd	20+	No	upstream	93	7.4		1		1
39	17-Mar			RBT	6 to 8	No	upstream	93	9.8		1		
40	17-Mar			RBT	?	?	upstream	93	9.8				
41				RBT	8 to 12	No	upstream			seen again @ 14:48:41			
	17-Mar	15:00:08	#	?	?	?	neutral	93	10.1	seen in background			
	17-Mar			RBT	6 to 10	No	?	89	10.6				
13	17-Mar			Sthd	22 to 26	No	upstream	95	10.6				
	17-Mar			RBT	10 to 13	?	upstream	95	10.6				
42	18-Mar	7:50:39		RBT	8 to 12	No	upstream	93	7.6	seen again@ 7:51:55			
43		8:44:15		RBT	14 to 16	No	upstream	102	7.7				
43 44	18-Mar			RBT	10 to 14	No	upstream	102	7.7				
43 44 45	18-Mar	8:52:08		RBT		No	upstream	102	7.9		1		
43 44 45 46	18-Mar 18-Mar	10:15:20			13 to 16			05	0				
43 44 45 46 47	18-Mar 18-Mar 18-Mar	10:15:20 14:09:42	#	RBT	10 to 12	No	upstream	95	9				
43 44 45 46 47 48	18-Mar 18-Mar 18-Mar 18-Mar	10:15:20 14:09:42 14:12:36	# #	RBT RBT	10 to 12 11 to 13	No No	upstream upstream	95	9	replaced estimate @ 45:00			
43 44 45 46 47 48 49	18-Mar 18-Mar 18-Mar 18-Mar 18-Mar	10:15:20 14:09:42 14:12:36 14:37:07	# # #	RBT RBT RBT	10 to 12 11 to 13 8 to 12	No No No	upstream upstream upstream	95 95	9 9	replaced camera @ 15:00			
43 44 45 46 47 48 49 50	18-Mar 18-Mar 18-Mar 18-Mar 18-Mar 18-Mar	10:15:20 14:09:42 14:12:36 14:37:07 16:17:15	# # #	RBT RBT RBT RBT	10 to 12 11 to 13 8 to 12 8 to 14	No No No	upstream upstream upstream upstream	95 95 97	9 9 9.6	replaced camera @ 15:00			
43 44 45 46 47 48 49	18-Mar 18-Mar 18-Mar 18-Mar 18-Mar 18-Mar 18-Mar	10:15:20 14:09:42 14:12:36 14:37:07 16:17:15 17:23:58	# # # #	RBT RBT RBT	10 to 12 11 to 13 8 to 12	No No No	upstream upstream upstream	95 95	9 9	replaced camera @ 15:00			

52	10.11	40.07.00	# DDT	44 4 40			0.5					
50	18-Mar		# RBT	11 to 13	No	upstream	95	9.4				
53	18-Mar		# RBT	12 to 16	No	upstream	95	9.1				
54	19-Mar		# RBT	6 to 12	No	upstream	110	6.9				
55	19-Mar		# RBT	12 to 14	No	upstream	110	7.6				
56	19-Mar		# RBT	12 to 14	No	upstream	113	7.6				
57	19-Mar		# RBT	8 to 10	No	upstream	110	7.6				
15	19-Mar	r 13:21:26	# Sthd	24 to 28	No	upstream	119	8.4				
58	19-Mar	r 13:22:58	# RBT	10 to 12	No	upstream	119	8.4				
59	19-Mar	r 14:10:57	# RBT	11 to 13	No	upstream	113	9.1				
60	20-Mar	r 12:57:51	# RBT	10 to 13	No	upstream	89	7.7	seen again @ 12:59:23, RT sthd (#21) passed @ 12:24 (13:24 video time), not seen on video			
61	21-Mar		# RBT	6 to 8	No	upstream	78	8.1				
62	21-Mar		# RBT	12 to 16	No	upstream	74	10.5				
63	21-Mar		# RBT	5 to 8	No	upstream	72	9.8				
00	22-Mar		# ?	?	?	upstream	78	8				
64	22-Mar		# RBT	10 to 12	No	upstream	78	8	RT sthd (#39) passed @0:59, not seen on video			
65									The still (#39) passed @0.39, for seen of video			
	22-Mar		# RBT	8 to 12	No	upstream	78	8				
16	22-Mar		# Sthd	24 to 28	?	upstream	143	8.8	Forebay level dropped below camera between 11:37 and 11:57. High flow reading caused by release.			
66	22-Mar			5 to 8	No	upstream	91	10.5				
67	22-Mar		# RBT	10 to 12	No	upstream	91	10.5				
68	22-Mar		# RBT	12 to 14	No	upstream	91	10.5				
69	22-Mar		# RBT	12 to 16	No	upstream	91	11.6				
17	22-Mar			20 to 24	No	upstream	91	11.4				
70		r 11:30:57		12 to 16	No	upstream	102	8.4				
18	23-Mar			24 to 32	No	upstream	104	8.7				
71	23-Mar	r 13:02:35	# RBT	6 to 12	?	upstream	107	9.3				
19	23-Mar		# Sthd	?	?	upstream	107	9.3	Fins, Similar mark of later fish			
20	23-Mar		# Sthd	20 to 22	No	upstream	110	9.3				
72	23-Mar			6 to 10	?	upstream	113	9.8				
	23-Mar		# Sthd	?	?	upstream	113	9.8	Several large fish seen at bottom of view, possibly same fish as 13:12:15 and 14:37:24			
	23-Mar		# Sthd	?	No	upstream	113	9.8	· · · · · · · · · · · · · · · · · · ·	1		
21	23-Mar		# Sthd	?	No	upstream	113	9.8				
22	23-Mar			18 to 22	No	upstream	113	9.8	Several large fish seen at bottom of view			
22	23-Mar		# Sthd	20 to 26	No	upstream	113	9.8				
23	23-Mar 23-Mar		# Sthd	201020	2	upstream	113	9.8				
73	23-Mar 23-Mar		# RBT	8 to 12	?		113	9.8			-	
						upstream						
74	23-Mar		# RBT	6 to 8	No	upstream	113	10.1				
75	23-Mar		# RBT	?	?	upstream	113	10.1				
76	23-Mar		# RBT	10 to 12	No	upstream	113	10				
77	23-Mar		# RBT	6 to 8	No	upstream	113	9.8				
78	24-Mar		# RBT	8 to 12	?	upstream	110	8.2				
79	25-Mar	r 11:45:53	# RBT	6 to 10	No	upstream	104	7.6				
80	25-Mar	r 12:12:41	# RBT	12 to 14	No	upstream	107	7.6	Periods of high turbidity			
81	25-Mar	r 13:09:51	# RBT	14 to 20	No	upstream	102	8.5	Possible Sthd			
24	25-Mar	r 14:36:23	# Sthd	24 to 28	possibly	upstream	102	9				
82	25-Mar	r 15:14:25	# RBT	10 to 12	No	upstream	97	9.4				
83	25-Mar		# RBT	6 to 8	No	upstream	97	9.5				
84	25-Mar		# RBT	12 to 16	No	upstream	97	9.3				
85	26-Mar		# RBT	6 to 14	No	upstream	110	6.3	Debris in exit			
00	26-Mar				No	?	110	6.3	Debris in exit			
	26-Mar											
	20 19101		# RBT	6 to 14					Debris in exit			
06	OG Mor	r 8:26:06	# ?	?	?	upstream	110	6.3	Debris in exit			
86	26-Mar	r 8:26:06 r 15:14:01	# ? # RBT	? 8 to 12	? No	upstream upstream	110 104	6.3 9	Debris in exit Debris cleared @ 15:04			
25	26-Mar	r 8:26:06 r 15:14:01 r 15:45:12	# ? # RBT # Sthd	? 8 to 12 22 to 26	? No No	upstream upstream upstream	110 104 97	6.3 9 9				
25 26	26-Mar 26-Mar	r 8:26:06 r 15:14:01 r 15:45:12 r 15:50:26	# ? # RBT # Sthd # Sthd	? 8 to 12 22 to 26 22 to 26	? No No No	upstream upstream upstream upstream	110 104 97 97	6.3 9 9 9	Debris cleared @ 15:04			
25 26 87	26-Mar 26-Mar 27-Mar	r 8:26:06 r 15:14:01 r 15:45:12 r 15:50:26 r 14:35:50	# ? # RBT # Sthd # Sthd # RBT	? 8 to 12 22 to 26 22 to 26 12 to 14	? No No No No	upstream upstream upstream upstream	110 104 97 97 140	6.3 9 9 9 8.9				
25 26 87 88	26-Mar 26-Mar 27-Mar 27-Mar	r 8:26:06 r 15:14:01 r 15:45:12 r 15:50:26 r 14:35:50 r 14:46:05	# ? # RBT # Sthd # Sthd # RBT # RBT	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12	? No No No No	upstream upstream upstream upstream upstream	110 104 97 97 140 140	6.3 9 9 8.9 8.9	Debris cleared @ 15:04			
25 26 87 88 27	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar	r 8:26:06 r 15:14:01 r 15:45:12 r 15:50:26 r 14:35:50 r 14:46:05 r 16:43:51	# ? # RBT # Sthd # Sthd # RBT # RBT # Sthd	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12 22 to 28	? No No No No No	upstream upstream upstream upstream upstream upstream	110 104 97 97 140 140 137	6.3 9 9 8.9 9 11.2	Debris cleared @ 15:04 Debris in exit, possible sthd.			
25 26 87 88 27 89	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 28-Mar	r 8:26:06 r 15:14:01 r 15:45:12 r 15:50:26 r 14:35:50 r 14:46:05 r 16:43:51 r 16:49:26	# ? # RBT # Sthd # Sthd # RBT # RBT # RBT	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18	? No No No No possibly	upstream upstream upstream upstream upstream upstream upstream	110 104 97 97 140 140 137 137	6.3 9 9 8.9 9 11.2 11.2	Debris cleared @ 15:04			
25 26 87 88 27 89 90	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 28-Mar 29-Mar	8:26:06 15:14:01 15:45:12 15:50:26 14:35:50 14:46:05 16:43:51 16:49:26 12:27:11	# ? # RBT # Sthd # RBT # RBT # RBT # RBT # RBT # RBT	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14	? No No No No No possibly	upstream upstream upstream upstream upstream upstream upstream upstream	110 104 97 97 140 140 137 137 102	6.3 9 9 8.9 9 11.2 11.2 8.5	Debris cleared @ 15:04 Debris in exit, possible sthd.			
25 26 87 88 27 89 90 91	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 28-Mar 29-Mar 29-Mar	8:26:06 15:14:01 15:50:26 14:35:50 14:46:05 16:43:51 16:49:26 12:27:11 15:46:58	# ? # RBT # Sthd # RBT # RBT # RBT # RBT # RBT # RBT # RBT	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14 10 to 14	? No No No No possibly No No	upstream upstream upstream upstream upstream upstream upstream upstream	110 104 97 97 140 140 137 137 102 97	6.3 9 9 8.9 9 11.2 11.2 8.5 11.8	Debris cleared @ 15:04 Debris in exit, possible sthd. seen again @ :35, possible sthd			
25 26 87 88 27 89 90 91 92	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 28-Mar 29-Mar 29-Mar 29-Mar	8:26:06 15:14:01 15:50:26 14:35:50 14:46:05 14:46:05 16:49:26 12:27:11 15:46:58 16:32:56	# ? # RBT # Sthd # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14 10 to 14 6 to 10	? No No No No possibly No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	110 104 97 140 140 137 137 102 97 97	6.3 9 9 8.9 11.2 11.2 8.5 11.8 11.8	Debris cleared @ 15:04 Debris in exit, possible sthd. seen again @ :35, possible sthd seen again @ 16:33:22, seen feeding @ 16:34:02			
25 26 87 88 27 89 90 91 92 93	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 28-Mar 29-Mar 29-Mar 29-Mar 29-Mar 29-Mar	8:26:06 15:14:01 15:50:26 14:35:50 14:35:50 14:35:50 14:46:05 16:43:51 16:49:26 12:27:11 15:46:58 16:49:26 12:27:11 15:46:58 16:32:56 17:41:15	# ? # RBT # Sthd # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14 10 to 14 6 to 10 ?	? No No No No possibly No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	110 104 97 97 140 140 137 137 102 97 97 97	6.3 9 9 8.9 11.2 11.2 8.5 11.8 11.8 11.8	Debris cleared @ 15:04 Debris in exit, possible sthd. seen again @ :35, possible sthd seen again @ 16:33:22, seen feeding @ 16:34:02 Possible sthd			
25 26 87 88 27 89 90 91 92 93 94	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 29-Mar 29-Mar 29-Mar 29-Mar 29-Mar 29-Mar	8:26:06 15:14:01 15:50:26 14:35:50 14:36:50 14:46:05 16:49:26 12:27:11 15:46:58 16:32:56 16:32:56 17:31:15	# ? # RBT # Sthd # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14 10 to 14 6 to 10 ? ?	? No No No No possibly No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	110 104 97 140 140 137 102 97 97 97 93 102 97 97 97 97 97 97 95	6.3 9 9 8.9 9 11.2 8.5 11.8 11.8 11.8 11.8	Debris cleared @ 15:04 Debris in exit, possible sthd. seen again @ :35, possible sthd seen again @ 16:33:22, seen feeding @ 16:34:02			
25 26 87 88 27 89 90 91 92 93	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 28-Mar 29-Mar 29-Mar 29-Mar 29-Mar 29-Mar 30-Mar	8:26:06 15:14:01 15:50:26 14:35:50 14:35:50 14:46:05 16:43:51 16:43:51 15:46:58 16:32:56 17:15:46:58 16:32:58 17:27:11 15:32:29 7:28:14	# ? # RBT # Sthd # Sthd # RBT # RBT	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14 10 to 14 10 to 14 6 to 10 ? 2 to 26 14 to 18	? No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	110 104 97 140 140 137 102 97 97 97 102 97 97 97 97 97 97 97 97 95 104	6.3 9 9 9 11.2 11.2 8.5 11.8 11.8 11.8 11.4 8.1	Debris cleared @ 15:04 Debris in exit, possible sthd. seen again @ :35, possible sthd seen again @ 16:33:22, seen feeding @ 16:34:02 Possible sthd			
25 26 87 88 27 89 90 91 92 93 94	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 29-Mar 29-Mar 29-Mar 29-Mar 29-Mar 29-Mar	8:26:06 15:14:01 15:45:12 15:50:26 14:35:50 14:46:05 16:43:51 16:49:26 12:27:11 15:46:58 16:32:56 17:41:15 19:33:29 7:28:14	# ? # RBT # Sthd # Sthd # RBT # RBT	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14 6 to 10 ? ? 22 to 26 ? ? ? ? ? ? ? ? ? ?	? No No No No possibly No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	110 104 97 140 140 137 102 97 97 97 93 102 97 97 97 97 97 97 95	6.3 9 9 8.9 9 11.2 8.5 11.8 11.8 11.8 11.8	Debris cleared @ 15:04 Debris in exit, possible sthd. seen again @ :35, possible sthd seen again @ 16:33:22, seen feeding @ 16:34:02 Possible sthd			
25 26 87 88 27 89 90 91 92 93 94	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 28-Mar 29-Mar 29-Mar 29-Mar 29-Mar 29-Mar 30-Mar	8:26:06 1 </td <td># ? # RBT # Sthd # Sthd # RBT # RBT</td> <td>? 8 to 12 22 to 26 12 to 14 8 to 12 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14 10 to 14 6 to 10 ? 22 to 28 ? 22 to 26 ? ?</td> <td>? No No</td> <td>upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream</td> <td>110 104 97 140 140 137 102 97 97 97 102 97 97 97 97 97 97 97 97 95 104</td> <td>6.3 9 9 9 11.2 11.2 8.5 11.8 11.8 11.8 11.4 8.1</td> <td>Debris cleared @ 15:04 Debris in exit, possible sthd. seen again @ :35, possible sthd seen again @ 16:33:22, seen feeding @ 16:34:02 Possible sthd After dark</td> <td></td> <td></td> <td></td>	# ? # RBT # Sthd # Sthd # RBT # RBT	? 8 to 12 22 to 26 12 to 14 8 to 12 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14 10 to 14 6 to 10 ? 22 to 28 ? 22 to 26 ? ?	? No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	110 104 97 140 140 137 102 97 97 97 102 97 97 97 97 97 97 97 97 95 104	6.3 9 9 9 11.2 11.2 8.5 11.8 11.8 11.8 11.4 8.1	Debris cleared @ 15:04 Debris in exit, possible sthd. seen again @ :35, possible sthd seen again @ 16:33:22, seen feeding @ 16:34:02 Possible sthd After dark			
25 26 87 88 27 89 90 91 92 93 94	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 28-Mar 29-Mar 29-Mar 29-Mar 29-Mar 29-Mar 30-Mar 30-Mar	8:26:06 15:14:01 15:30:26 14:35:50 14:46:05 16:49:26 12:27:11 15:46:58 16:32:56 17:41:15 19:33:29 7:28:14 10:40:16 11:05:04	# ? # RBT # Sthd # Sthd # RBT # ? # ? # ? # ? # ?	? 8 to 12 22 to 26 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14 6 to 10 ? ? 22 to 26 ? ? ? ? ? ? ? ? ? ?	? No No No No possibly No ?	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	110 104 97 97 140 137 102 97 97 97 102 97 97 97 97 97 97 97 97 97 95 104 113	6.3 9 9 8.9 9 11.2 11.2 8.5 11.8 11.8 11.8 11.4 8.1 9.2	Debris cleared @ 15:04 Debris in exit, possible sthd. seen again @ :35, possible sthd seen again @ 16:33:22, seen feeding @ 16:34:02 Possible sthd After dark Possible Sthd			
25 26 87 88 27 89 90 91 92 93 94	26-Mar 26-Mar 27-Mar 27-Mar 28-Mar 29-Mar 29-Mar 29-Mar 29-Mar 29-Mar 30-Mar 30-Mar 30-Mar	8:26:06 15:14:01 15:50:26 14:46:05 14:46:05 16:43:51 16:49:26 15:50:26 12:27:11 15:46:58 16:49:26 17:44:15 19:33:29 7:28:14 10:40:16 11:05:04 11:17:03	# ? # RBT # Sthd # Sthd # RBT # Sthd # ? # ? # ? # ?	? 8 to 12 22 to 26 12 to 14 8 to 12 22 to 26 12 to 14 8 to 12 22 to 28 14 to 18 10 to 14 10 to 14 6 to 10 ? 22 to 28 ? 22 to 26 ? ?	? No ? ? ? ?	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream neutral	110 104 97 140 140 137 102 97 97 97 97 95 104 113 100	6.3 9 9 8.9 9 11.2 11.2 8.5 11.8 11.8 11.8 11.4 8.1 9.2 9.2	Debris cleared @ 15:04 Debris in exit, possible sthd. seen again @ :35, possible sthd seen again @ 16:33:22, seen feeding @ 16:34:02 Possible sthd After dark Possible Sthd seen in background			
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		12:37:48	# ?			?	78	11				
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111		12:39:57	# RBT	8 to 12	No	upstream	78	11				
112		12:49:31	# RBT	6 to 10	No	upstream	78	11.9	same fish seen several times in next few hours?			
112		13:27:05	# RBT	01010	110	2	78	11.9				
		13:27:28	# RBT	5 to 8	No	?	78	11.9				
		13:35:50	# RBT	5 to 8	No	?	78	11.9				
		13:38:02	# RBT	5 to 8	No	?	78	11.9				
		13:38:41	# RBT	5 to 8	No	?	78	11.9				
		13:44:23	# RBT	5 to 8	No	neutral	78	12.5				
		15:23:28	# RBT			neutral	74	12.9				
		15:23:57	# RBT	5 to 8	No	?	74	12.9				
		16:16:03	#		No	?	78	13	background			
		18:50:56	# RBT			?	74	11.7	×			
113	4-Apr	19:07:32	# RBT	8 to 12		upstream	74	11.7				
	5-Apr	7:59:04	# ?	6 to 12		upstream		8.1				
114	5-Apr	8:57:15	# RBT	8 to 12	No	upstream		8.4				
	5-Apr	9:24:47	# RBT	6 to 12	No	?		8.4				
	5-Apr		# RBT	5 to 8	No	?		9	fish seen several times through 10:07			
		10:13:45	#?			?		9				
115		10:14:16	# RBT	5 to 8	No	upstream		9	fish seen several times through 10:17			
116		15:19:14	# RBT	6 to 10	No	upstream		10.7				
117		15:39:18	# RBT	6 to 10		upstream		10.7				
118		16:46:10	# RBT	14 to 20	No	upstream	6-		possible Sthd			
119		10:10:57	# RBT	8 to 12	No	upstream	85	8.8				
33		11:04:03	# Sthd	18 to 22	No	upstream	85	9.8	Fire and a line weight @ 40.05			
100		13:09:50	# 007	R 4- 40	NI-	?	81	11.6	Fins only, High turbidity @ 13:05			
120		13:10:14	# RBT	6 to 10	No	upstream	81	11.6				
121 122		13:19:14	# RBT	6 to 10	No	upstream	81	11.6		1		
122		13:46:07 14:36:20	# RBT # RBT	6 to 10 5 to 8	No	upstream ?	81 81	12.2 12.2				
		16:18:00	# RBT	5 to 8		?	81	12.2				
123		16:18:39	# RBT	6 to 10	No	upstream	81	12.7				
34		17:13:54	# Sthd	20 to 26	?	upstream	81		very large fish			
04		17:21:11	# ?	201020	1	upstream	81	12.5	very large non			
		17:22:27	#?			upstream	81	12.5				
124		17:26:50	# RBT	10 to 14		upstream	81	12.5	beaver seen at 19:04:51			
125		9:51:21	# RBT	8 to 12	No	upstream	81	9.3	Aquaview monitor died. Used constantly for 20 days. Still provides video output to VCR.			
126		10:00:51	# RBT	10 to 14	No	upstream	81	9.3				
127		10:30:19	# RBT	10 to 14	?	upstream	81	9.3				
128		13:36:31	# RBT	?		upstream	74	11.9				
35		14:14:57	# Sthd	?	No	upstream	78	12.3	large size confirmed on cam 2			
			# RBT	5 to 8	1	neutral	78	12.3				
36		15:26:10	# Sthd	18 to 22	No	upstream	78	12.5				
129	7-Apr	15:28:55	# RBT	6 to 10	No	upstream	78	12.5				
130	7-Apr	17:21:16	# RBT	5 to 8		upstream	74	12.2				
	7-Apr	19:14:33	# ?			upstream	74	11.3				
131		8:34:31	# RBT	6 to 10	No	upstream	74	8.2				
132	8-Apr		# RBT	12 to 16	No	upstream	74	8.7				
	8-Apr		# Sthd		No	neutral	66		Debris blocked 80% of view @ 9:42, data verified by cam 2			
133		11:08:12	# RBT			upstream	85	10.2	possible Sthd			
37	8-Apr	12:12:04				upstream	81		all but two of these next several fish verified on camera 2			
38		12:24:51				upstream	81	11.1				
39		12:47:13				upstream	81	11.8				
40 41		13:12:32 13:18:34				upstream	81 91	11.8		1		
41		13:18:34 13:36:18				upstream upstream	81 79	11.8 11.8		1		
42		13:59:55				upstream	79	12.4				
			# RBT		1	neutral	79	12.4				
44		17:01:35	# Sthd	1	1	upstream	78	12.5				
134		17:50:31	# RBT	5 to 8	No	upstream	72	12		1		
135		18:17:57	# RBT		1	upstream	74	12		İ		
45		13:53:52	# Sthd	18 to 24	No	upstream	74	12.4	Debris in exit			
		13:55:36	# ?	5 to 8	No	upstream	74	12.4				
136		13:55:44	# RBT	5 to 8		upstream	74	12.4				
		14:35:26	# ?			upstream	74	12.8				
137	9-Apr	14:47:38	# RBT	5 to 8	No	upstream	74	12.8			 	
		14:53:56	# ?	5 to 8		upstream	74	12.8				
	0 Apr	15:19:54	#?			upstream	74	12.8				
	3-Api		# RBT	6 to 10	1	upstream	74	12.9				
138	9-Apr	15:50:37						12.2		1		
139	9-Apr 9-Apr	15:50:37 18:10:20	# RBT	5 to 8		upstream	72					
139 140	9-Apr 9-Apr 10-Apr	15:50:37 18:10:20 9:35:26	# RBT # RBT	8 to 12	No	upstream	72	8.5				
139	9-Apr 9-Apr 10-Apr 10-Apr	15:50:37 18:10:20 9:35:26 12:14:59	# RBT # RBT # RBT		No No	upstream upstream	72 70	8.5 11.2	possible Sthd			
139 140 141	9-Apr 9-Apr 10-Apr 10-Apr 10-Apr	15:50:37 18:10:20 9:35:26 12:14:59 12:46:18	# RBT # RBT # RBT # RBT	8 to 12 14 to 20		upstream upstream neutral	72 70 70	8.5 11.2 12.1	possible Sthd			
139 140	9-Apr 9-Apr 10-Apr 10-Apr 10-Apr 10-Apr	15:50:37 18:10:20 9:35:26 12:14:59 12:46:18 16:55:09	# RBT # RBT # RBT # RBT # Sthd	8 to 12 14 to 20 20 to 24		upstream upstream neutral upstream	72 70 70 68	8.5 11.2 12.1 12.9				
139 140 141 46	9-Apr 9-Apr 10-Apr 10-Apr 10-Apr 10-Apr 11-Apr	15:50:37 18:10:20 9:35:26 12:14:59 12:46:18 16:55:09 13:40:03	# RBT # RBT # RBT # RBT # Sthd # ?	8 to 12 14 to 20 20 to 24 5 to 8		upstream upstream neutral upstream upstream	72 70 70 68 66	8.5 11.2 12.1 12.9 12.9	possible Sthd dirty lens			
139 140 141 46 142	9-Apr 9-Apr 10-Apr 10-Apr 10-Apr 10-Apr 11-Apr 11-Apr	15:50:37 18:10:20 9:35:26 12:14:59 12:46:18 16:55:09 13:40:03 13:54:35	# RBT # RBT # RBT # RBT # Sthd # ? # RBT	8 to 12 14 to 20 20 to 24 5 to 8 5 to 8	No ?	upstream upstream neutral upstream upstream	72 70 70 68 66 65	8.5 11.2 12.1 12.9 12.9 12.9				
139 140 141 46 142 143	9-Apr 9-Apr 10-Apr 10-Apr 10-Apr 11-Apr 11-Apr 11-Apr 11-Apr	15:50:37 18:10:20 9:35:26 12:14:59 12:46:18 16:55:09 13:40:03 13:54:35 13:58:58	# RBT # RBT # RBT # RBT # Sthd # ? # RBT # RBT	8 to 12 14 to 20 20 to 24 5 to 8 5 to 8 8 to 12		upstream upstream upstream upstream upstream upstream	72 70 70 68 66 65 65	8.5 11.2 12.1 12.9 12.9 12.9 12.9				
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139 140 141 46 142 143	9-Apr 9-Apr 10-Apr 10-Apr 10-Apr 10-Apr 11-Apr 11-Apr 11-Apr 11-Apr 12-Apr	15:50:37 18:10:20 9:35:26 12:14:59 12:46:18 16:55:09 13:40:03 13:54:35 13:58:58 16:20:02 6:40:50	# RBT # RBT # RBT # Sthd # ? # RBT # RBT # RBT # RBT # Sthd	8 to 12 14 to 20 20 to 24 5 to 8 5 to 8 8 to 12	No ?	upstream upstream upstream upstream upstream upstream upstream	72 70 68 66 65 65 65 66 68	8.5 11.2 12.1 12.9 12.9 12.9 12.9 12.9 13.5 8.5	dirty lens also seen on cam 2 to verify it was a large fish			
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139 140 141 46 142 143 144 47 47 48	9-Apr 9-Apr 10-Apr 10-Apr 10-Apr 10-Apr 11-Apr 11-Apr 11-Apr 12-Apr 12-Apr 12-Apr 12-Apr	15:50:37 18:10:20 9:35:26 12:14:59 12:46:18 16:55:09 13:40:03 13:54:35 13:58:58 16:20:02 6:40:50 12:19:27	# RBT # RBT # RBT # RBT # Sthd # ? # RBT # RBT # RBT # Sthd # ? # Sthd	8 to 12 14 to 20 20 to 24 5 to 8 5 to 8 8 to 12 6 to 10 ?	No ?	upstream upstream neutral upstream upstream upstream upstream upstream upstream	72 70 70 68 66 65 65 65 66 68 46	8.5 11.2 12.1 12.9 12.9 12.9 12.9 13.5 8.5 11.9	dirty lens also seen on cam 2 to verify it was a large fish Reduced flow because of ladder exit cleaning			

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1 No. Pictor Vielon No.									Debris in exit				
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23 Adv 72331 7 100 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 10000 10000 10000 10000 10000 10000 10000 100000 $1000000000000000000000000000000000000$?			periodic camera problems on 22nd.				
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Ifele 22-Apr 132-K18 # RBT	165												
Info 24-Apr 133320 # RET 6 to 10 upstream 116 11.77 Info 24-Apr 134326 # RET 6 to 10 upstream 116 12.4 Info 24-Apr 134365 # RET 0 upstream 116 12.4 24-Apr 135054 # RET 0 neutral 116 12.4 24-Apr 135054 # RET 6 to 10 neutral 116 12.4 24-Apr 135054 # RET 6 to 10 neutral 116 12.4 24-Apr 153052 # RET 6 to 10 neutral 116 12.4 24-Apr 153712 # RET 6 to 10 neutral 116 12.7 24-Apr 153712 # RET 0 to 10 upstream 104 13.80 22-Apr 154582 # RET 5 to 8 upstream 104 12.86 neutral 104 12.86 neutral 104 12.86 neutral 104 1				18 to 24									
IfeB 2x-Apr 13x4328 # RBT 8 to 12 upptream 116 12.4 12x - Apr 13x473.3 # RBT 3 to 12 neutral 116 12.4 2x-Apr 13x473.3 # RBT 8 to 12 neutral 116 12.4 2x-Apr 13x473.4 # RBT 8 to 12 neutral 116 12.4 2x-Apr 14x073.6 # RBT 8 to 12 neutral 116 12.4 2x-Apr 14x073.6 # RBT 5 to 8 ? 116 12.4 2x-Apr 14x35.16 # RBT 5 to 8 ? 116 12.4 2x-Apr 14x35.16 # RBT 5 to 8 ? 116 12.4 2x-Apr 15x37.1 # RBT 5 to 8 ? 116 12.4 2x-Apr 15x37.8 # RBT 5 to 8 ? 116 12.4 2x-Apr						upstream							
160 24-Apr 13-4658 # RBT Upstem 116 12.4 24-Apr 13-4058 # RBT 8010 neutral 116 12.4 24-Apr 13-0504 # RBT 80101 neutral 116 12.4 24-Apr 14-2564 # RBT 80101 neutral 116 12.4 24-Apr 14-2564 # RBT 80101 neutral 116 12.4 24-Apr 14-2564 # RBT 80102 1 116 12.4 24-Apr 14-5516 # RBT 81001 1 12.4 24-Apr 145516 # BBT 50.8 10.16 1 12.4 24-Apr 145516 # BBT 50.8 upstem 104 13.88 24-Apr 15438 # BT 50.08 upstem 104 13.88 25-Apr 153308 # 16010	167	24-Apr 13:33:30	# RBT	6 to 10		upstream	116	11.77					
160 24-Agr 13-4658 $ RBT w upstream 16 12.4 24-Agr 13-5054 RBT 801 0 neutral 116 12.4 24-Agr 13-5054 RBT 810-12 neutral 116 12.4 24-Agr 14-2364 RBT 810-12 7 116 12.4 170 24-Agr 14-2364 RBT 510.8 7 116 12.4 170 24-Agr 14-3346 RBT 510.8 9 116 12.4 24-Agr 16-371.2 RBT 510.8 9 116 12.4 24-Agr 16-372.2 8 116 12.4 12.7 24-Agr 154-38 $	168	24-Apr 13:43:28	# RBT	8 to 12		upstream	116	12.4					
2 + Apr 13 + Ar38 <i>P</i> PBT 8 to 12 neutral 116 12.4 2 + Apr 13 + 07.5 # <i>P</i> RBT 6 to 10 neutral 116 12.4 2 + Apr 14 + 07.56 # <i>P</i> RBT 6 to 10 neutral 116 12.4 2 + Apr 14 + 325.6 # <i>P</i> RBT 5 to 8 - 116 12.4 2 + Apr 14 + 355.6 # <i>P</i> 116 12.4 -	169		# RBT				116	12.4					
2 - A.p. 13:50:54 #				8 to 12									
2-Apr 14.07.30 # RBT 6 to 10 nutral 116 12.4 2-Apr 14.23.68 # RBT 5 to 2 ? 116 12.4 17 14.55.15 # RBT 5 to 8 ? 116 12.73 2-Apr 15.37.12 # RBT 5 to 8 ? 116 12.73 2-Apr 15.37.12 # RBT 5 to 8 ? 116 12.73 2-Apr 15.37.12 # RBT 5 to 8 .upstem 104 13.88 171 25-Apr 154.63.89 # RBT 6 to 1 upstem 104 13.88 172 25-Apr 134.25.58 # 0 to 1 upstem 101 12.58 ewothers in background													
24.Apr 14/23.68 # RBT 8 lo 12 ? 116 12.4 24.Apr 143.343 # RBT 5 lo 8 uptream 116 12.73 24.Apr 145.551 2 # RBT 5 lo 8 uptream 116 12.73 24.Apr 16.032 1 # RBT 5 lo 8 uptream 116 12.73 24.Apr 16.052 1 # RBT 5 lo 8 uptream 104 13.68 172 25.Apr 15.465.9 # RBT 10 12.36 172 25.Apr 15.465.9 # RBT 10.4 13.68 122.5Apr 15.45.95 # RBT 10.4 13.68 125.Apr 15.35.55 # RBT 10.4 12.58 # 10.4 12.58 26.Apr 16.30.58 # 7 8 lo 12 Nu uptream 10.4 12.54 27.Apr				6 to 10									
2 2 4 1 5 1 0 1	\vdash												
170 24-Apr 14-55.15 # RBT 5 to 8 upstream 116 12.73	\vdash												
24-Apr 153-25 # RBT 56.8 ? 116 12.73	h												
24-Apr 16:02:21 # RBT Sto8 upsteam 104 13.68	170												
171 25-Apr 1548.59 # RBT 5 to 8 upstream 104 13.68				5 to 8									
171 25-Apr 1548.59 # RBT 5 to 8 upstream 104 13.68													
122 25-Apr 18-330 # RBT 5 to 8 upstream 102 1.25 Image: Constraint of the constr		25-Apr 15:46:59				upstream							
1 25-Apr 19:37:01 # whitelish 10:016 upstream 10:2 12:35 173 26-Apr 15:33:55 # ? 6 to 12 upstream 93 14:74	172	25-Apr 15:48:38					104						
173 26-Apr 11:42:5 # # RBT 6 to 10 upstream 104 12:89 a lew others in background	1				·								
26-Apr 15:33:55 # ? 6 to 12 upstream 93 14:74 26-Apr 16:13:08 # ? 8 to 12 No upstream 93 14:74	173								a few others in background				
26-Apr 161:308 # 7 8 to 12 No upstream 93 14.88													
2b-Apr 17.58:10 # 7 8 to 12 upstream 93 14.7 27-Apr 10:24:46 ? 6 to 10 upstream 93 14.7 <td>++</td> <td></td> <td></td> <td></td> <td>No</td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td> </td>	++				No								
27-Apr 10.24:46 # 7 6 to 10 upstream 102 11.88 mean	++				140								
27-Apr 122:51 # 7 5 to 8 ? 95 12.63 * Example () (
* 27-Apr 14:25:06 # Stude 26:03:4 No upstream 93 12:56 "Exclode tail, possibly already spawned ()				0 10 10									
29-Apr 10:27:33 # Sthd 18 to 24 No upstream 97 9.73 See angain @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39. Image: Control of the space of the							95		-				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		27-Apr 12:52:51											
1 29-Apr 14:38:11 # sucker 8 to 12 upstream 97 12.71	*	27-Apr 12:52:51 27-Apr 14:25:06	# Sthd	26 to 34		upstream	93						
1 29-Apr 14:38:11 # sucker 8 to 12 upstream 97 12.71	*	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33	# Sthd # Sthd	26 to 34 18 to 24	No	upstream	93 97	9.73					
175 29-Apr 14:58:11 # RBT 12 to 16 No upstream 91 13.8	* * 174	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19	# Sthd # Sthd # RBT	26 to 34 18 to 24	No	upstream upstream	93 97 97	9.73 10.78					
176 30-Apr 1557:42 # BCT 8 to 12 upstream 85 14.77 3 1.4May 13:58:34 # Bull Toru 12 to 16 upstream 85 15.04 2 1.4May 14:09:36 # Bull Toru ? 85 15.04 2 1.4May 14:30:06 # sucker 10 to 14 upstream 85 15.04 177 1.4May 14:30:06 # sucker 10 to 14 upstream 85 15.04 178 1.4May 15:45:49 # RBT 8 to 12 upstream 85 15.04 1.4May 15:45:44 ? ? 85 15.53 1.4May 15:46:44 ? ? 83 15:53 1.4May 16:45:29 # BUI Toru 15:53 1.4May 16:45:27 # Bull Toru 15:29 1.4May 16:42:27 # Bull Toru 15:29 1.4May 16:42:44 % ? 10:14 upstream 81 15:29 1.4May 18:49:14 # ? 10:1	* * 174 1	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19	# Sthd # Sthd # RBT	26 to 34 18 to 24 8 to 12	No	upstream upstream upstream	93 97 97	9.73 10.78					
3 1-May 13-88-53 # Buil Trout 12 to 16 upstream 85 15.04 1-May 14:30:06 # sucker 10 to 14 upstream 85 15.04 <td< td=""><td>1</td><td>27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 12:43:51</td><td># Sthd # Sthd # RBT # sucker</td><td>26 to 34 18 to 24 8 to 12 8 to 12</td><td>No No</td><td>upstream upstream upstream upstream</td><td>93 97 97 97</td><td>9.73 10.78 12.71</td><td></td><td></td><td></td><td></td><td></td></td<>	1	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 12:43:51	# Sthd # Sthd # RBT # sucker	26 to 34 18 to 24 8 to 12 8 to 12	No No	upstream upstream upstream upstream	93 97 97 97	9.73 10.78 12.71					
1-May 14.09:36 #Bull Trout ? 85 15.04	1 175	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 12:43:51 29-Apr 12:43:51 29-Apr 14:58:11	# Sthd # Sthd # RBT # sucker # RBT	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16	No No	upstream upstream upstream upstream	93 97 97 97 97 91	9.73 10.78 12.71 13.8					
2 1-May 14:30:06 # sucker 10 to 14 upstream 85 15.04 177 1-May 14:30:06 # RBT 8 to 12 upstream 85 15.04	1 175 176	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 12:43:51 29-Apr 14:58:11 30-Apr 15:57:42	# Sthd # Sthd # RBT # sucker # RBT # RBT	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12	No No	upstream upstream upstream upstream upstream	93 97 97 97 97 91 85	9.73 10.78 12.71 13.8 14.77					
177 1-May 14:39:07 # RBT 8 to 12 upstream 85 15.44 178 1-May 15:46:44 # ? ? 85 15.44 1-May 15:46:44 # ? ? 85 15.53 1-May 16:05:29 # ? ? 83 15.53 1-May 16:42:47 # ? ? 83 15.53 1-May 16:42:47 # ? ? 83 15.29 1-May 16:42:44 # ? 1.40:18 upstream 81 15.29 1-May 17:24:29 # RBT 6 to 10 upstream 81 15.29 1-May 17:49:14 # ? 10 to 14 upstream 81 15.29 2-May 19:49:44 # ? 10 to 14 upstream 81 14 2-May 19:49:44 # R 10 to 14 upstream 81 14	1 175 176	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 12:43:51 29-Apr 14:58:11 30-Apr 15:57:42 1-May 13:58:53	# Sthd # Sthd # RBT # sucker # RBT # RBT # Bull Trout	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12	No No	upstream upstream upstream upstream upstream upstream	93 97 97 97 91 85 85	9.73 10.78 12.71 13.8 14.77 15.04	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
178 1.May 145.49.4 # BT 8.01 No upstream 85 15.43 1.May 15.46.4 7 7 85 15.53 1.May 163.527 # Pull Tout 14 to 18 upstream 83 15.53 1.May 16.4327 # Pull Tout 14 to 18 upstream 83 15.29 1.May 17.242.9 # RBT 6 to 10 upstream 81 15.29 1.May 17.242.9 # RBT 6 to 10 upstream 81 14 2.May 19.492.14 # 7 10 to 14 upstream 81 14 2.May 19.492.14 # RBT 8 to 12 down 81 13.92	1 175 176 3	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 12:43:51 29-Apr 14:58:11 30-Apr 15:57:42 1-May 13:58:53	# Sthd # Sthd # RBT # sucker # RBT # RBT # Bull Trout # Bull Trout	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12 12 to 16	No No	upstream upstream upstream upstream upstream upstream 2	93 97 97 97 91 85 85 85	9.73 10.78 12.71 13.8 14.77 15.04 15.04	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
1-May 15.48:44 # ? ? 85 15.53	1 175 176 3 2	27-Apr 12:52:51 27-Apr 12:52:56 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 12:43:51 29-Apr 12:43:51 30-Apr 15:57:42 1-May 13:58:53 1-May 14:09:36 1-May 14:30:36	# Sthd # Sthd # RBT # sucker # RBT # RBT # Bull Trout # Bull Trout # sucker	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12 12 to 16 10 to 14	No No	upstream upstream upstream upstream upstream upstream ? upstream	93 97 97 97 91 85 85 85 85 85	9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
1-May 15.46:44 # ? % 15.53 Tallonly 1-May 16:05:29 # ? % 15.53 Tallonly 6 6 6 6 1-May 16:05:29 # RBT 4 14May 16:43:27 # BUIl Tout 14 to 18 upstream 83 15.29 6	1 175 176 3 2 177	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 14:58:11 30-Apr 15:57:42 1-May 13:58:53 1-May 14:09:36 1-May 14:31:07	# Sthd # Sthd # RBT # RBT # RBT # Bull Trout # Bull Trout # Sucker # RBT	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12 12 to 16 10 to 14 8 to 12	No No	upstream upstream upstream upstream upstream upstream ? upstream upstream	93 97 97 91 85 85 85 85 85 85	9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
1-May 16:05:29 # 7 83 15:53 Tail alory Comparison	1 175 176 3 2 177	27-Apr 12:52:51 27-Apr 14:52:06 29-Apr 10:27:33 29-Apr 10:77:39 29-Apr 12:73:31 29-Apr 14:58:11 30-Apr 15:57:42 1-May 14:58:53 1-May 14:30:06 1-May 14:30:06 1-May 14:36:49	# Sthd # Sthd # RBT # sucker # RBT # Bull Trout # Bull Trout # sucker # RBT # RBT	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12 12 to 16 10 to 14 8 to 12	No No	upstream upstream upstream upstream upstream vpstream upstream upstream upstream	93 97 97 91 85 85 85 85 85 85 85 85 85	9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04 15.44	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
4 1-May 16:43:27 # Buil Trout 14 to 18 upstream 83 15:29 179 1-May 17:24:29 # BBT 6 to 10 upstream 81 15:29 1-May 18:49:14 # 7 10 to 14 upstream 81 15:29 2-May 18:49:14 # 7 10 to 14 upstream 81 14 2-May 19:49:26 # RBT 8 to 12 down 81 13:92 <td>1 175 176 3 2 177</td> <td>27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:77:33 29-Apr 12:43:51 29-Apr 14:58:11 30-Apr 15:57:42 1-May 13:58:53 1-May 14:30:06 1-May 14:30:06 1-May 14:30:49 1-May 14:30:49 1-May 14:58:49</td> <td># Sthd # Sthd # RBT # sucker # RBT # Bull Trout # Bull Trout # sucker # RBT # RBT # RBT # ?</td> <td>26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12 12 to 16 10 to 14 8 to 12</td> <td>No No</td> <td>upstream upstream upstream upstream upstream upstream upstream upstream apstream upstream upstream aps</td> <td>93 97 97 91 85 85 85 85 85 85 85 85 85</td> <td>9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04 15.44 15.53</td> <td>Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.</td> <td></td> <td></td> <td></td> <td></td>	1 175 176 3 2 177	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:77:33 29-Apr 12:43:51 29-Apr 14:58:11 30-Apr 15:57:42 1-May 13:58:53 1-May 14:30:06 1-May 14:30:06 1-May 14:30:49 1-May 14:30:49 1-May 14:58:49	# Sthd # Sthd # RBT # sucker # RBT # Bull Trout # Bull Trout # sucker # RBT # RBT # RBT # ?	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12 12 to 16 10 to 14 8 to 12	No No	upstream upstream upstream upstream upstream upstream upstream upstream apstream upstream upstream aps	93 97 97 91 85 85 85 85 85 85 85 85 85	9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04 15.44 15.53	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
179 1-May 1724:29 # RBT 6 to 10 upstream 81 15.29 1-May 18:49:14 # ? 10 to 14 upstream 81 14 </td <td>1 175 176 3 2 177</td> <td>27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:77:33 29-Apr 12:43:51 29-Apr 14:58:11 30-Apr 15:57:42 1-May 13:58:53 1-May 14:30:06 1-May 14:30:06 1-May 14:30:49 1-May 14:30:49 1-May 14:58:49</td> <td># Sthd # Sthd # RBT # sucker # RBT # Bull Trout # Bull Trout # sucker # RBT # RBT # RBT # ?</td> <td>26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12 12 to 16 10 to 14 8 to 12</td> <td>No No</td> <td>upstream upstream upstream upstream upstream upstream upstream upstream apstream upstream upstream aps</td> <td>93 97 97 91 85 85 85 85 85 85 85 85 85</td> <td>9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04 15.44 15.53</td> <td>Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.</td> <td></td> <td></td> <td></td> <td></td>	1 175 176 3 2 177	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:77:33 29-Apr 12:43:51 29-Apr 14:58:11 30-Apr 15:57:42 1-May 13:58:53 1-May 14:30:06 1-May 14:30:06 1-May 14:30:49 1-May 14:30:49 1-May 14:58:49	# Sthd # Sthd # RBT # sucker # RBT # Bull Trout # Bull Trout # sucker # RBT # RBT # RBT # ?	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12 12 to 16 10 to 14 8 to 12	No No	upstream upstream upstream upstream upstream upstream upstream upstream apstream upstream upstream aps	93 97 97 91 85 85 85 85 85 85 85 85 85	9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04 15.44 15.53	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
1-May 18:49:14 # ? 10 to 14 upstream 81 14 2-May 19:49:26 # RBT 8 to 12 down 81 13.92	1 175 176 3 2 177 178	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:77:19 29-Apr 12:74:51 29-Apr 14:58:11 30-Apr 15:57:42 1-May 14:59:36 1-May 14:30:07 1-May 14:30:07 1-May 15:46:44 1-May 16:05:29	# Sthd # Sthd # RBT # sucker # RBT # Bull Trout # Bull Trout # Bull Trout # Sucker # RBT # RBT # RBT # ?	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12 12 to 16 10 to 14 8 to 12 8 to 12	No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream ? upstream ? ?	93 97 97 91 85 85 85 85 85 85 85 85 85 85 85 83	9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04 15.44 15.53 15.53	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
2-May 19:49:26 # RBT 8 to 12 down 81 13:92	1 175 176 3 2 177 178 4	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 14:58:11 30-Apr 15:57:42 1-May 13:56:53 1-May 14:30:06 1-May 14:30:06 1-May 14:30:07 1-May 15:46:44 1-May 15:46:44 1-May 16:45:29	# Sthd # Sthd # RBT # sucker # RBT # Bull Trout # Bull Trout # sucker # RBT # RBT # RBT # ? # Bull Trout # Sthd	26 to 34 18 to 24 8 to 12 12 to 16 8 to 12 12 to 16 10 to 14 8 to 12 8 to 12 12 to 16 10 to 14 8 to 12 8 to 12	No No	upstream upstream upstream upstream upstream upstream upstream upstream ? upstream ? upstream ? upstream	93 97 97 91 85 85 85 85 85 85 85 85 85 85 83 83	9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04 15.04 15.53 15.53 15.29	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
2/mg/ 19:56:20 /ff Nor 0 /0 / 2 00/12 00/11 3.92	1 175 176 3 2 177 178 4	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 14:58:11 30-Apr 15:57:42 1-May 14:93:66 1-May 14:93:66 1-May 14:31:07 1-May 14:58:49 1-May 14:58:49 1-May 16:46:44 1-May 16:46:44 1-May 16:46:42 1-May 16:46 1-May 16:46 1-M	# Sthd # Sthd # RBT # RBT # Sucker # Bull Trout # Bull Trout # Sucker # RBT	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 8 to 12 12 to 16 10 to 14 8 to 12 8 to 12 14 to 18 6 to 10	No No	upstream upstream upstream upstream upstream upstream upstream upstream ? ? upstream upstream upstream upstream	93 97 97 97 91 85 85 85 85 85 85 85 85 85 85 83 83 83 83	9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04 15.53 15.53 15.53 15.29 15.29	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
2-May 19:50:20 # (151) ? 81 13.92	1 175 176 3 2 177 178 4	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 12:43:51 29-Apr 14:58:11 30-Apr 15:77:42 1-May 13:58:53 1-May 14:30:06 1-May 14:30:06 1-May 14:30:06 1-May 14:30:06 1-May 16:43:27 1-May 16:43:27 1-May 16:43:27 1-May 16:43:27 1-May 16:43:27 1-May 16:43:27	# Sthd # Sthd # Sthd # Sthd # RBT # RBT # RBT # Bull Trout # Sucker # RBT # RBT	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 10 to 14 8 to 12 12 to 16 10 to 14 8 to 12 8 to 12 14 to 18 6 to 10 10 to 14	No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	93 97 97 97 91 85 85 85 85 85 85 85 85 85 83 83 83 83 81	9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04 15.53 15.53 15.53 15.29 15.29 14	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				
	1 175 176 3 2 177 178 4	27-Apr 12:52:51 27-Apr 14:25:06 29-Apr 10:27:33 29-Apr 10:57:19 29-Apr 14:38:11 30-Apr 15:57:42 1-May 13:58:53 1-May 14:30:06 1-May 14:30:06 1-May 14:30:06 1-May 14:30:44 1-May 16:05:29 1-May 15:46:44 1-May 16:43:27 1-May 17:24:29 1-May 18:49:14	# Sthd # Sthd # RBT # sucker # sucker # Bull Trout # Bull Trout # Sucker # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT	26 to 34 18 to 24 8 to 12 8 to 12 12 to 16 10 to 14 8 to 12 12 to 16 10 to 14 8 to 12 8 to 12 14 to 18 6 to 10 10 to 14	No No	upstream upstream upstream upstream upstream upstream upstream upstream vpstream upstream upstream upstream upstream upstream upstream	93 97 97 91 85 85 85 85 85 85 85 85 85 85 83 83 83 83 81 81	9.73 10.78 12.71 13.8 14.77 15.04 15.04 15.04 15.04 15.04 15.53 15.29 15.29 14 13.92	Seen again @ 10:45:20, 10:45:38, 10:51:48, 10:55:09 Likely spawned out tagged fish # 39.				

-	3-May	11,51,07	1.4	2	10 to 15	1	upotroom	80	14.48	Describle hull trout		1	
	3-May	11:51:37 11:55:57	#	?	12 to 15		upstream neutral	89 89	14.48	Possible bull trout			
5	3-May	16:54:01		Trout	16 to 20		upstream	85	15.84				
6		15:27:52			10 to 14		upstream	85		also unknown fins seen @ 17:04:23			
180		13:27:51			10 to 14		upstream			other neutral fish seen @ 16:18:22 and 16:43:10			
1 181	6-May	18:01:52		CH	31 to 45	No	upstream	68	12.82	nariadia tana malfunationa			
182		18:38:04 10:19:14		BT	5 to 8 6 to 10	No No	upstream upstream	68 15 see not		periodic tape malfunctions periodic tape malfunctions, cleaning ladder @ 9:30			
2	7-May	15:36:01		СН	31 to 38	No	upstream	63	15.36				
		18:49:08		BT	4 to 6		neutral	54		similar fish seen several times over next hour			
183	8-May	6:44:40	# R	BT	10 to 14	No	upstream	65	10.82				
184	8-May	12:33:27		BT	4 to 6		upstream	63	13.59				
7	8-May	15:25:28	# Bull		10 to 14		upstream	65		A 14 inch bull trout was observed by Brian Mahoney while snorkeling below ladder on 5-7-04.			
3		18:35:10 14:31:32		CH	8 to 12 30 to 36	No No	neutral upstream	63 61	14.69	Two seen together several times, some tape malfunctions			
3		17:49:10			10 to 14	NU	upstream	58	14.39				-
4	9-May	18:50:30		CH	32 to 40	No	upstream	58	13.73				
185		15:11:09		BT	10 to 14	No	upstream	59		Tape malfunction almost whole day. Only about 2 hours good tape. Replaced VCR.			
186	13-May	10:46:14	# R	BT	10 to 14	No	upstream		11.63				
187	13-May	14:10:22		BT	8 to 12	No	upstream		14.22				
188 189	13-May 13-May	15:13:45		BT	6 to 10	No	upstream		14.4				
5	13-May	19:23:36 19:33:00		BT	6 to 8 26 to 34	No	upstream upstream		12.9 12.9				
190		13:31:52		BT	2010-04		upstream		14.36	Debris in exit			
	14-May		#							Several juveniles seen periodically 16:04 to 18:06			
	15-May		#							Debris in exit (active beaver in forebay)			
191	16-May	6:23:51		BT	8 to 12		upstream	78	9.88				
	16-May	15:06:39		BT			?	~75	11.44				∣
192	17-May	14:28:20		BT	10 to 14	1	upstream	74		Beaver seen @ 5:15:08, debris in exit @ ~ 7:00			───
8	17-May 17-May	16:13:10 16:55:19	# Bull		10 to 14 10 to 14		upstream upstream	74 74	15.73 15.37				├───┤
-		19:59:02		?	101014		upstream	74		Muskrat seen @ 20:06:37			<u> </u>
193		14:18:36		BT	12 to 16		upstream	89		Debris in exit all day until ~ 15:00			
6	18-May	19:08:37	# (СН	30 to 40	No	upstream	110	11.85	dirty lens			
		10:13:27		out	8 to 12	No	upstream	91	11.72	some debris early, cleared by more debris @ 5:36:13, cleaned lens @ 11:20			
194	19-May	15:40:57		BT	6 to 10	No	upstream	97	14.36				
195	19-May	15:54:06		BT	8 to 12	No	upstream	66		2 trout			
8	19-May 19-May	17:54:02 18:45:47		CH CH	30 to 36	No No	upstream upstream	87 85	13.79 13.13	3 small notches in tail, small white on dorsal, notch in pectoral no noticable markings			
9		10:41:10		СН		No	upstream	124		high turbidity			
10		11:14:33		СН		No	upstream	121		CH seen again 11:16:41, 11:17:20, 11:17:59, 11:23:59			
	20-May	16:36:10		out	8 to 12		upstream	124	15.05				
	20-May	17:37:42		out	10 to 14		upstream	124	14.81				
11	20-May	18:02:12		СН		No	upstream	124	14.23				
196 197	21-May 21-May	7:30:02 13:53:40		BT	10 to 14 6 to 10	No	upstream upstream	127 124	10.71 13.26				
198	21-May	15:10:01		BT	16 to 20	No	upstream	124	13.89				
12	21-May	16:02:28		СН	32 to 38	No	upstream	124	14.24				
	22-May	8:17:38		?	6 to 10		upstream	124	10.01				
199	22-May	8:34:50		BT	8 to 12	No	upstream	124	10.01				
200	22-May	12:00:04		BT	10 to 14	No	upstream	159	10.88				
13	22-May 23-May	13:22:21	# (CH		No	upstream	166	11.27	ladder blocked by log around 12:00, ladder cleaned @ 13:40 (yes, Sunday) also cleaned lens			-
		14:46:48	# tr	out			neutral	237	13.41	high turbidity			
14	24-May	15:46:39		СН		No	upstream	237	12.84				
15		15:59:26		СН		No	upstream	233	12.84				
16		16:36:05		СН		No	upstream	233	12.84				
201	25-May 25-May	12:16:46 16:54:10		CH		No	upstream upstream	225 205	12.57 13.7	high turbidity sore on rt side (possible lamprey mark)			───
202		18:06:13		BT			upstream		13.22				<u> </u>
18	25-May	18:49:40		СН		No	upstream	202	12.69				
19	25-May	18:53:18	# C	СН		No	upstream	202		seen again @ 18:58:29			
20		19:20:35		СН			upstream	202	12.69			_	
21		19:35:26		CH	0.45.10	No	upstream	202	12.69	history and the			4 <u> </u>
203 204	26-May 26-May	13:31:06 14:43:21		BT	6 to 10 8 to 12	No	upstream	187 187	11.8 12.04	high turbidity			───
204	26-May 26-May	14:43:21 17:07:45		CH	0 IU 12	No	upstream upstream	187 198	12.04				┼──┤
23		17:14:29		СН		No	upstream	202	11.77				
24	26-May	17:58:13		СН		No	upstream	209	11.58				
25	26-May	18:07:34	# C	СН		No	upstream	209	11.58				
26		19:24:22		СН			upstream	233	11.42				
27		19:56:18		CH DT		No	upstream	237	11.22	high truckidity			<u> </u>
205 28		11:37:22 12:18:11		CH		1	upstream		12.24	high turbidity			───
	27-May						upstream		12.53				<u> </u>
	27-May			СН			upstream		11.87				
30	27-May	18:10:54	# C	СН		No	upstream		11.87				
31		18:37:57		CH		No	upstream		11.87			_	
\vdash		18:38:16		CH		N'-	?		11.87	Degged Teil			<u> </u>
	27-May 29-May	18:38:20	# C	сн		No	?		11.87	Ragged Tail Flows spilling over dam, ladder open			l
	29-May 30-May		#	-						Flows spilling over dam, ladder open Flows spilling over dam, ladder open			<u> </u>
	31-May	5:17:29	#	?			?	241	9.51	Flows spilling over dam, ladder open			
207	1-Jun	12:52:07	# R	BT			upstream	202	13.51	Forebay lowered around 10:00, 5 chinook in stilling basin			
	1-Jun	12:57:04	# tr	out			upstream	202	13.51				
	1- lun	12:58:55		BT			?	202	13.51				<u> </u>
		40.07.47		СН				198	13.51				1
32 208	1-Jun	13:37:46					upstream						
32 208 5	1-Jun 1-Jun	13:37:46 15:16:46 15:35:02	# R	BT	18 to 24		upstream upstream		14.57 14.57				

	4 1 1	45 50 44 4 0	1				44.05		1			
		15:56:44 # ?			upstream	187	14.65					
209	1-Jun				upstream	187	14.65					
210	1-Jun	17:51:00 # RB	Г		upstream	176	13.87					
33	1-Jun	18:06:10 # CH	Г. ¹	?	upstream	176	13.87					
34	2-Jun	10:58:58 # CH	l i i i i i i i i i i i i i i i i i i i	No	upstream	169	12.64					
211	2-Jun				upstream	146	13.56					
212	2-Jun				upstream	146	14.47					
6	2-Jun				upstream	137	15.93					
	2-Jun	17:20:16 # RB			neutral	137	15.76					
213	2-Jun	17:59:13 # RB	Г		upstream	134	15.29					
214	3-Jun		Г		upstream	124	10.91					
	3-Jun				?	116	12.55					
	3-Jun				?	116	14.59					
						116	14.59					
045	3-Jun				neutral							
215	3-Jun				upstream	113	16.05					
7	3-Jun				upstream	107	16.4					
35	3-Jun			No	upstream	102	16.06					
36	3-Jun	18:38:56 # CH	l	No	upstream	102	16.06					
37	3-Jun	19:57:25 # CH	l i i i i i i i i i i i i i i i i i i i	?	upstream	102	14.92					
216	4-Jun	11:41:46 # RB	г		upstream	91		mink @ 5:49:13				
2	4-Jun			10 to 14		91	15.98					
217		13:24:38 # RB		101014		89						
					upstream		16.76					
38	4-Jun	13:30:06 # CH		NO	upstream	89	16.76					
8	4-Jun	13:49:49 # suck			upstream	89	17.4					
	4-Jun	14:28:24 # RB			?	87	17.4					
9	4-Jun		er 10 to 14		upstream	85	17.82					
218		16:25:36 # RB			upstream	81	17.98			-		
10	4-Jun	17:22:56 # suck	er 12 to 16		upstream	83	17.82					
39	4-Jun			No	upstream	83	17.82					
11		20:21:20 # suck		INU								I
					upstream	81	16.08					I
9	5-Jun				upstream	81	12.89					
10		9:23:02 # Bull T			upstream	83	13.31					
11	5-Jun	12:05:18 # Bull T	rout 12 to 16		upstream	78	15.63					L 7
12		12:21:47 # Bull T			upstream	78	15.63			-		
219		13:50:54 # RB			upstream	74	15.58					
40	5-Jun			No	upstream	74		cleaned lens, observed chinook near exit @ 16:15				
220		19:03:27 # RB				72		sidando ichis, observed onnook near exit e 10:15				
220		19.03.27 # KD			upstream		14.54					
	6-Jun				?	83	12.41					
221	6-Jun				upstream	78	15.47					
12	6-Jun	13:54:36 # suck			upstream	78	15.6					
222	6-Jun	16:23:09 # RB	Г		upstream	78	15.42					
223	6-Jun	17:34:53 # RB			upstream	79	15.05					
224	7-Jun	14:28:56 # RB	Г		upstream	72	14 91	debris in exit, removed @ 15:05				
13	7-Jun	14:49:32 # Bull T			upstream	72	14.52					
10		15:00:41 # RB			?	72	14.52					
40												
13	7-Jun				upstream	72	14.52					
14		15:57:24 # suck			upstream	72	14.48					
	8-Jun		F		?	173		high turbidity				
	8-Jun	14:49:58 # ?			neutral	173	14.15	high turbidity				
41	8-Jun	14:52:22 # CH	l	No	upstream	173	14.15					
	8-Jun	15:00:01 # CH			neutral	173	14.15					
42	8-Jun			No	upstream	173	14.15					
43		16:55:08 # CH		No	upstream	166		seen again @16:55:25				
44		17:51:20 # CH		No		163	13.41	Seen again 6 10:50:25				
					upstream							
45				No	upstream	163	13.41					
46		18:30:38 # CH										
47				No	upstream	159	13.41					
	9-Jun	13:56:53 # CH			upstream	176		high turbidity				
225		19:26:44 # ?		No		<mark>176</mark> 176		high turbidity Temp probe removed (by other staff)				
				No	upstream	176						
48	9-Jun	19:26:44 # ? 20:03:01 # RB	r	No No	upstream upstream upstream	176 176 176						
48	9-Jun 9-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH	г	No No No	upstream upstream upstream upstream	176 176 176 176						
	9-Jun 9-Jun 9-Jun	19:26:44 # ? 20:03:01 # RB ² 20:15:29 # CH 20:31:56 # CH	г	No No	upstream upstream upstream	176 176 176		Temp probe removed (by other staff)				
48	9-Jun 9-Jun 9-Jun 10-Jun	19:26:44 # ? 20:03:01 # RB' 20:15:29 # CH 20:31:56 # CH # # #	T	No No No	upstream upstream upstream upstream	176 176 176 176 176		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00				
48 49	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun	19:26:44 # ? 20:03:01 # RB' 20:15:29 # CH 20:31:56 # CH # 17:07:22 # 2CH		No No No No	upstream upstream upstream upstream upstream neutral	176 176 176 176 176 176		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling				
48	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB' 20:15:29 # CH 20:31:56 # CH 17:07:22 # 2CH 12:42:24 # CH		No No No	upstream upstream upstream upstream upstream neutral upstream	176 176 176 176 176 180 180		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00				
48 49	9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:31:56 # CH # 17:07:22 # 2CH 12:42:24 # CH 14:06:00 # trou		No No No No	upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 176 180 180 166 169		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling				
48 49 50	9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CF 20:31:56 # CF 20:31:56 # CF 17:07:22 # 2CF 12:24:24 # CF 14:06:00 # trou 14:49:16 # trou		No No No No	upstream upstream upstream upstream upstream neutral upstream upstream upstream	176 176 176 176 176 176 180 180 166 169 140		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CF 20:31:56 # CF # 17:07:22 # 2CF 12:42:24 # CF 14:49:16 # trou 14:49:16 # trou		No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 176 180 180 166 169 140 137		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling				
48 49 50 226 227	9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:31:56 # CH # * CH 17:07:22 # 2Ci 12:42:24 # CH 14:49:16 # trout 15:03:39 # RB 15:43:21 # RB		No No No No	upstream upstream upstream upstream neutral upstream upstream upstream upstream upstream	176 176 176 176 176 180 180 166 169 140 137 140		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CF 20:31:56 # CF # 17:07:22 # 2CF 12:42:24 # CF 14:49:16 # trou 14:49:16 # trou		No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 176 180 180 166 169 140 137		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227	9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:31:56 # CH 17:07:22 # CH 14:06:00 # trou 14:49:16 # trou 15:43:21 # RB 17:11:11 # RB		No No No No	upstream upstream upstream upstream neutral upstream upstream upstream upstream upstream	176 176 176 176 176 180 180 166 169 140 137 140		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227	9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:15:6 # CH 20:31:56 # CH # 20:01 20:42 # 20:01 20:42 # 20:01 20:42 # 20:01 12:42:24 # CH 14:09:16 # Tro: 15:03:39 # RB 15:43:21 # # 7:11:11 # BB # 18:02:26 # RB	4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream vpstream upstream	176 176 176 176 176 180 180 166 169 140 137 140 137		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 229	9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:15:29 # CH 20:15:29 # CH 17:07:22 # 2CI 12:42:24 # CH 14:46:06:00 # troo. 15:43:21 # RB 17:11:11 # RB 18:02:26 # RB 19:01:00 # RB	н н н н н н н н н н н н н н	No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 180 166 169 140 137 140 137 130		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 228 229 230	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:31:56 # CH 17:07:22 # 2CI 12:42:24 # CH 14:406:00 # trou 14:49:16 # trou 15:03:39 # RB 15:02:26 # RB 18:02:26 # RB 20:35:47 # RB	Image: Constraint of the second sec	No No No No	upstream upstream upstream upstream neutral upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 176 180 180 169 140 137 140 137 140 137 130 134		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 229 230 231	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:31:56 # CH 17:07:22 # 2CI 14:40:00 # trou 14:49:16 # trou 15:43:21 # RB 17:11:11 # RB 19:11:00 # RB 20:36:35 # RB		No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 180 180 169 140 137 140 137 140 137 130 134		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 229 229 230 231 232	9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CP 20:15:6 # CP 20:15:6 # CP 20:15:6 # CP 20:15:6 # CP 17:07:22 # 2C 12:42:24 CP CP 14:49:16 # troo 15:03:39 # RB 15:03:39 # RB 15:02:26 # RB 19:01:00 # RB 20:36:47 # RB 20:36:35 # RB	T T T T T T T T T T T T T	No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 176 180 166 169 140 137 140 137 140 137 130 134 134		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 229 230 230 231 232 233	9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:31:56 # CH 12:42:24 # CH 14:49:16 # trou 15:03:39 # RB 15:04:224 # CH 15:03:39 # RB 15:02:26 # RB 19:11:00 # RB 20:36:47 # RB 20:36:47 # RB 11:14:35 # RB 14:43:24 # RB		No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 180 169 140 137 140 137 130 137 130 134 134 136 116		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 230 231 232 233 233 234	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun 15-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CP 20:31:56 # CP 20:31:56 # CP 20:31:56 # CP 17:07:22 # 2CI 12:42:24 CP CP 14:49:16 # trou 15:03:39 # RB 15:03:39 # RB 15:02:26 # RB 20:35:47 # RB 20:36:55 # RB 11:14:35 # RB 15:36:17 # RB		No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 180 169 140 137 140 137 140 137 130 134 134 134 116 113		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 230 231 232 233 234 235	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun 15-Jun 15-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:31:56 # CH 12:42:24 # CH 12:42:24 # CH 14:06:00 # trou 14:30:16 # CH 15:43:21 # RB 17:11:11 # BE 19:11:00 # RB 19:11:00 # RB 11:14:35 # RB 11:14:35 # RB 15:08:39 # RB		No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 180 169 140 137 140 140 137 130 134 134 134 116 116 1115 110		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 230 231 232 233 233 234	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun 15-Jun 15-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:31:56 # CH 12:42:24 # CH 12:42:24 # CH 14:06:00 # trou 14:30:16 # CH 15:43:21 # RB 17:11:11 # BE 19:11:00 # RB 19:11:00 # RB 11:14:35 # RB 11:14:35 # RB 15:08:39 # RB		No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 180 169 140 137 140 140 137 130 134 134 134 116 116 1115 110		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 230 231 232 233 234 235	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun 15-Jun 15-Jun 15-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:31:56 # CH 17:07:22 # 2CI 14:49:16 # trou 15:03:39 # RB 17:11:11 # RB 20:36:35 # RB 19:11:00 # RB 20:36:35 # RB 11:4:32 # RB 15:06:17 # RB 15:4:39:4 # RB 16:53:32 # RB	T	No No No No No No No No No	upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	176 176 176 176 176 176 180 169 140 137 140 140 137 130 134 134 134 134 116 116 1110		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 230 231 232 230 231 232 233 234 235 236 235 236 15	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun 15-Jun 15-Jun 15-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 17:07:22 # 2CH 14:49:16 # trout 15:03:39 # RB 15:03:39 # RB 15:04:32:1 # RB 19:11:00 # RB 20:36:47 # RB 10:33:21 # RB 11:14:35 # RB 15:49:39 # RB 15:49:39 # RB 16:53:32 # RB 16:38:32 # Su	T	No No No No No No No No No	upstream upstream	176 176 176 176 176 169 169 140 137 140 137 140 137 130 134 134 134 134 116 111 110 104		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 230 231 232 233 234 235 236 15	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun 15-Jun 15-Jun 15-Jun 15-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:31:56 # CH 12:42:24 # CH 12:42:24 # CH 14:49:16 # trou 15:03:39 # RB 15:43:21 # RB 19:11:00 # RB 20:36:47 # RB 20:36:55 # RB 15:43:21 # RB 19:11:00 # RB 20:36:47 # RB 15:43:32 # RB 16:53:32 # RB 15:49:39 # RB 16:53:32 # RB 18:47:46 # suck	T -	No No No No No No No No	upstream upstream	176 176 176 176 176 180 166 169 140 137 140 137 130 134 137 130 134 116 116 116 116 110 110		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 20 226 227 228 230 231 233 234 233 234 235 236 15 16 237	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun 15-Jun 15-Jun 15-Jun 15-Jun 15-Jun 16-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 20:15:67 # CH 20:15:67 # CH 20:15:67 # CH 20:15:67 # CH 17:07:22 # 2CH 14:49:16 # troot 15:03:39 # RB 15:03:39 # RB 15:03:39 # RB 19:01:00 # RB 19:01:100 # RB 20:35:47 # RB 19:01:100 # RB 15:06:17 # RB 15:06:17 # RB 15:06:17 # RB 16:53:22 # RB 16:38:39 # suck R4:39 16:38:39 # suck R4:49	T T T T T T T T T T T T T	No No No No No No No No	upstream ups	176 176 176 176 176 180 166 169 140 137 140 137 140 137 130 134 134 134 134 116 113 110 110 104 104 93		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 226 227 228 229 230 230 232 233 233 233 235 236 235 236 16 237 238	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun 15-Jun 15-Jun 15-Jun 15-Jun 15-Jun 15-Jun 16-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 17:07:22 # CH 12:42:24 CH H 14:49:16 # trou 15:03:39 # RB 15:03:26 # RB 19:11:00 # RB 20:35:47 # RB 20:36:47 # RB 15:49:39 # RB 15:49:39 # RB 16:53:32 # RB 18:38:39 * suck 8:47:60 # suck 8:47:50 # RB	T	No No No No No No No No No	upstream ups	176 176 176 176 176 180 166 169 140 137 140 137 140 134 134 134 134 116 113 110 104 104 93		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
48 49 50 226 227 228 231 232 233 234 233 234 235 236 15 16 237 238 17	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun 15-Jun 15-Jun 15-Jun 15-Jun 16-Jun 16-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CP 20:15:59 # CP 20:15:59 # CP 20:15:59 # CP 20:31:56 # CP 17:07:22 # 2C 14:49:16 # trou 14:49:16 # trou 15:03:39 # RB 15:03:22 # RB 15:03:24 # RB 19:11:00 # RB 20:36:35 # RB 15:08:17 # RB 15:08:17 # RB 16:47:46 # suck 18:38:39 # suck 9:07:35 # RB	T T T T T T T T T T T T T T	No No No No No No No No No	upstream ups	176 176 176 176 176 180 169 140 137 140 130 134 134 134 134 134 116 113 110 104 104 93 93 93 81		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
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48 49 50 226 227 228 229 230 231 232 233 235 236 15 16 237 238 15 16 237 238 17 238 239 240	9-Jun 9-Jun 9-Jun 10-Jun 13-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 14-Jun 15-Jun 15-Jun 15-Jun 15-Jun 15-Jun 15-Jun 16-Jun 16-Jun 16-Jun 16-Jun	19:26:44 # ? 20:03:01 # RB 20:15:29 # CH 17:07:22 # 2CH 14:49:66 # trox 14:49:67 # Trox 15:03:39 # RB 15:03:39 # RB 15:03:21 # RB 19:11:00 # RB 20:36:47 # RB 20:36:35 # RB 15:06:17 # RB 15:39:39 # RB 15:39:39 # RB 16:53:22 # RB 9:07:35 # RB 9:07:35 # RB 9:07:35 # RB 9:07:35 # RB 9:07:35	T T T T T T T T T T T T T	No No No No No No No No No	upstream ups	176 176 176 176 176 176 180 160 169 140 140 141 137 130 141 134 134 131 131 131 131 131 133 134 134 133 131 133 134 135 136 110 104 93 93 81 81 81		Temp probe removed (by other staff) too turbid to see after 7:00. Spill started around 16:00 Still spilling Stopped spilling around 9:30. 6 Ch in stilling basin. Cleaned ladder @ 10:30. 2 Ch in ladder.				
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La col												
244		13:13:19	# RBT			upstream	74					
245			# RBT			upstream	68					
246	17-Jun	20:09:53	# RBT			upstream	65					
247	18-Jun	8:49:26	# RBT		u	upstream	91*		Forebay dropped 8:15, debris cleared, up at 8:30. *flow skewed because of operation change.			
248	18-Jun	10:22:11	# RBT		u	upstream	54					
	18-Jun	10:39:52	# RBT			neutral	59					
249	18-Jun	10:53:59	# RBT			upstream	68					
250	18-Jun	12:50:57	# RBT			pstream	59					
251	18-Jun	12:59:12	# RBT			upstream	59					
252	18-Jun	13:36:00	# RBT			upstream	59					
253	18-Jun	14:23:21	# RBT			upstream	59					
254	18-Jun	14:31:48	# RBT		u	upstream	59					
255	18-Jun	14:46:35	# RBT		u	upstream	59					
256	18-Jun	15:06:39	# RBT			upstream	59					
200	18-Jun	15:48:07	# RBT		u	?	59					
057								-				
257	18-Jun	17:06:33	# RBT			upstream	59	_				
258	18-Jun	17:13:05	# RBT			upstream	59					
259	18-Jun	18:31:25	# RBT		u	upstream	58					
52	18-Jun	19:28:28	# CH		. u	pstream	49					
260	19-Jun	5:54:14	# RBT			upstream	53					
261	19-Jun	5:58:34	# RBT			pstream	53					
262	19-Jun	6:21:23	# RBT			upstream	53	1				
263	19-Jun	7:05:15	# RBT			upstream	53	1				
264	19-Jun	7:22:46	# RBT			upstream	53					
	19-Jun	7:37:10	# ?		u	upstream	53					L 7
265	19-Jun	8:37:03	# RBT			pstream	53				-	
266	19-Jun	9:28:02	# RBT			pstream	53					
267	19-Jun	9:30:33	# RBT			upstream	53	1				<u> </u>
								1				
268	19-Jun	9:31:04	# RBT			upstream	53					 I
269	19-Jun	9:58:42	# RBT			upstream	53	1				
270	19-Jun	10:27:07	# RBT		u	upstream	53					
	19-Jun	11:04:47	# RBT			?	53	1				
271	19-Jun	11:20:16	# RBT		u	upstream	53					
272	19-Jun	12:09:41	# RBT			upstream	53	1		1		i [
273	19-Jun	12:15:06	# RBT			upstream	53	1				 <u> </u>
273								1				
	19-Jun	13:12:09	# RBT			upstream	51	_				
275	19-Jun	13:16:02	# RBT			upstream	51	1				
276	19-Jun	13:27:09	# RBT		u	upstream	51					
277	19-Jun	14:13:13	# RBT		u	upstream	51					
278	19-Jun	14:41:38	# RBT			pstream	51					
279			# RBT			pstream	49					
14	19-Jun		# Bull Trout	10 to 14			48		and picture			
						upstream			good picture			
18		17:34:49		8 to 12		pstream	43					
		18:35:46	# sucker			neutral	46					
280			# RBT		u	upstream	46					
53	19-Jun	20:43:52	# CH		u	upstream	46					
53		20:43:52 4:55:10							Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koo	oskooski on 7/30.		
53 54	20-Jun	4:55:10	# CH		u	pstream	46		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	oskooski on 7/30.		
53 54 55	20-Jun 20-Jun	4:55:10 6:11:16	# CH # CH		u u	upstream upstream	46 46		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	oskooski on 7/30.		
53 54 55 281	20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30	# CH # CH # RBT		u u u	upstream upstream upstream	46 46 46		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	oskooski on 7/30.		
53 54 55 281 282	20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30	# CH # CH # RBT # RBT		u u u u	upstream upstream upstream upstream	46 46 46 46		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	oskooski on 7/30.		
53 54 55 281 282 283	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02	# CH # CH # RBT # RBT # RBT		u u u u u u	upstream upstream upstream upstream upstream	46 46 46 46 44		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	oskooski on 7/30.		
53 54 55 281 282 283 284	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05	# CH # CH # RBT # RBT # RBT # RBT		u u u u u u u u	upstream upstream upstream upstream upstream upstream	46 46 46 46 44 44		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	skooski on 7/30.		
53 54 55 281 282 283 284 285	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05 10:24:56	# CH # CH # RBT # RBT # RBT # RBT # RBT		u u u u u u u u u	upstream upstream upstream upstream upstream upstream upstream	46 46 46 46 44 44 46		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	skooski on 7/30.		
53 54 55 281 282 283 284	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05	# CH # CH # RBT # RBT # RBT # RBT		u u u u u u u u u	upstream upstream upstream upstream upstream upstream	46 46 46 46 44 44		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	skooski on 7/30.		
53 54 55 281 282 283 284 285	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05 10:24:56	# CH # CH # RBT # RBT # RBT # RBT # RBT			upstream upstream upstream upstream upstream upstream upstream	46 46 46 46 44 44 46		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	skooski on 7/30.		
53 54 55 281 282 283 284 285 286 286 287	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05 10:24:56 11:42:32 11:50:50	# CH # CH # RBT			upstream upstream upstream upstream upstream upstream upstream upstream upstream	46 46 46 46 44 44 46 46 46		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	skooski on 7/30.		
53 54 55 281 282 283 284 285 286 287 288	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05 10:24:56 11:42:32 11:50:50 11:58:24	# CH # CH # RBT # RBT # RBT # RBT # RBT # RBT # RBT			upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	46 46 46 46 44 44 46 46 46 46		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	skooski on 7/30.		
53 54 55 281 282 283 284 285 286 287 288 289	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05 10:24:56 11:42:32 11:50:50 11:58:24 13:17:06	# CH # CH # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT			upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	46 46 46 44 44 44 46 46 46 46 46 46		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	skooski on 7/30.		
53 54 55 281 282 283 284 285 286 287 288 289 56	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05 10:24:56 11:42:32 11:50:50 11:58:24 13:17:06 13:59:27	# CH # CH # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT # RBT			upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	46 46 46 46 44 44 46 46 46 46 46 46 44		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	skooski on 7/30.		
53 54 55 281 282 283 284 285 286 285 286 287 288 289 56 290	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05 10:24:56 11:42:32 11:50:50 11:58:24 13:17:06 13:59:27 14:03:09	# CH # CH # RBT			upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	46 46 46 44 44 44 46 46 46 46 46 44 44			skooski on 7/30.		
53 54 55 281 282 283 284 285 286 286 287 288 288 289 56 290 15	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05 10:24:56 11:42:32 11:50:50 11:58:24 13:17:06 13:59:27 14:03:09 14:52:09	# CH # CH # RBT	10 to 14		upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	46 46 46 44 44 44 46 46 46 46 46 46 44 44		Radio tagged # 26. Tagged May 21 at YH weir. Large notch missing from lower part of tail. Above Koc	skooski on 7/30.		
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53 54 55 281 282 283 284 285 286 286 287 288 288 289 56 290 15	20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun 20-Jun	4:55:10 6:11:16 6:58:30 7:40:30 9:10:02 9:52:05 10:24:56 11:42:32 11:50:50 11:58:24 13:17:06 13:59:27 14:03:09 14:52:09	# CH # CH # RBT # CH # CH # Bull Trout # Sucker			upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	46 46 46 44 44 44 46 46 46 46 46 46 44 44			skooski on 7/30.		
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52 281 282 282 283 285 286 286 286 286 287 288 56 290 291 299 290 290 290 290 290 290 290 290 290	20-Jun 21-Jun 21-Jun	4:55:10 6:58:30 7:40:30 9:10:02 9:10:02 9:10:02 9:10:02 11:42:32 11:50:50 11:42:32 11:50:50 11:58:24 13:17:06 13:59:27 14:03:09 14:52:09 16:19:07 18:50:42 19:07:17 4:45:45 5:31:26 6:19:50 6:23:37 6:31:54 6:23:37 6:31:54 6:23:37 6:31:54 6:33:55 8:35:35 8:35:35 8:49:55 8:35:35 8:49:55 11:23:02 11:36:66 11:50:24 11:50:25 11:50:25 11:50:24	# CH # CH # CH # CH # RBT # Sucker # RBT # CH # RBT # RBT /# CH	10 to 14 24 to 28 8 to 12 8 to 12 6 to 10 6 to 10 28 to 34 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 8 to 12		Ipstream Ipstream	46 46 46 46 46 44 44 46 46 46 46 46 46 4			skooski on 7/30.		
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53 53 281 282 283 286 284 285 283 286 286 286 287 283 288 286 289 56 290 15 19 9 292 291 292 294 295 296 296 299 298 299 300 58 212 23 301 55 502 302	20-Jun 21-Jun 21-Jun	4:55:10 6:58:30 7:40:30 9:10:02 9:10:02 9:10:02 9:10:02 11:42:32 11:50:50 11:42:32 11:50:50 11:58:24 13:17:06 13:59:27 14:03:09 14:52:09 16:19:07 18:50:42 19:07:17 4:45:45 5:31:26 6:19:50 6:23:37 6:31:54 6:23:37 6:31:54 6:23:37 6:31:54 6:33:55 8:35:35 8:35:35 8:49:55 8:35:35 8:49:55 11:23:02 11:36:66 11:50:24 11:50:25 11:50:25 11:50:24	# CH # CH # CH # CH # RBT # CH # RBT # Sucker # Sucker # Sucker # Sucker # Sucker #	10 to 14 24 to 28 8 to 12 8 to 12 6 to 10 6 to 10 28 to 34 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 8 to 12	U U U U U U U U U U U U U U U U U U U	Ipstream Ipstream	46 46 46 46 46 44 44 46 46 46 46 46 46 4			skooski on 7/30.		
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53 53 281 283 282 283 286 286 287 288 286 290 19 56 291 292 293 296 294 295 298 299 298 299 298 299 298 299 298 3000 58 291 292 293 293 291 294 295 296 291 298 3000 58 302 302 303 303 304	20-Jun 21-Jun 21-Jun	4:55:10 6:58:30 7:40:30 9:52:05 10:24:56 11:42:32 11:42:32 11:58:50 11:58:50 11:58:50 11:58:52 13:59:27 14:03:09 14:52:09 16:19:07 18:50:42 19:07:17 4:45:45 5:31:26 19:50:17 6:19:50 6:23:37 6:19:50 6:23:37 6:33:54 8:35:52 7:06:19 8:07:22 8:25:55 8:49:58 8:49:58 11:08:48 11:30:24 11:30:24 11:30:24 11:30:25 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:30:24 11:30:26 11:	# CH # CH # CH # RBT # CH # RBT # CH # SUCKer # RBT #	10 to 14 24 to 28 8 to 12 8 to 12 6 to 10 6 to 10 28 to 34 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 8 to 12 8 to 32 6 to 10 6 to 10 6 to 10 7 to		Ipstream Ipstream	46 46 46 46 46 46 46 46 46 46 46 46 46 4			skooski on 7/30.		
53 53 281 282 283 282 283 286 284 285 281 289 56 56 57 288 289 289 50 56 57 20 57 20 201 15 57 20 201 202 203 294 295 296 296 299 298 299 209 58 212 29 3001 58 302 303 303 23	20-Jun 21-Jun 21-Jun	4:55:10 6:58:30 7:40:30 9:12:02 9:12:02 11:22:25 12:25 11:25 12:25 11:25 12:25 11:25 12:25 11:25 12:25 11:25 12:25 11:25 12:25 11:25 11:25 12:25 11	# CH # CH # CH # CH # RBT # CH # RBT # RBT # CH # RDT # RET # RET # CH # CH # Sucker # RET # CH # CH # CH <	10 to 14 24 to 28 8 to 12 8 to 12 6 to 10 6 to 10 6 to 10 7 to 10 6 to 10 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 8 to 12 28 to 34 7 to 10 8 to 12 28 to 34 7 to 10 8 to 12 7 to 10 8 to 10		Ipstream Ipstream	46 46 46 46 46 44 44 46 46 46 46 46 46 4			skooski on 7/30.		
53 53 281 282 283 286 286 286 287 288 288 290 15 19 57 292 293 292 294 295 296 297 298 299 3000 3000 59 3001 59 302 3033 303 303 303 303 303 303 303 304 24	20-Jun 21-Jun 21-Jun	4:55:10 6:58:30 7:40:30 9:52:05 10:24:56 11:42:32 11:50:50 11:58:24 13:17:06 13:59:27 14:03:09 14:52:09 14:52:09 16:19:07 14:03:09 14:52:09 16:19:07 18:50:42 19:07:17 4:45:45 5:31:26 6:19:50 6:23:37 6:31:54 6:23:37 6:33:55 8:35:35 8:49:58 11:08:46 11:50:24 11:50:24 11:50:04 11:50:24 11:50:04 11:50:24 11:50:04	# CH # CH # CH # CH # RBT # Sucker # RBT # CH # Sucker # Sucker # RBT #	10 to 14 24 to 28 8 to 12 8 to 12 6 to 10 6 to 10 28 to 34 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 8 to 12 8 to 32 6 to 10 6 to 10 6 to 10 7 to		Ipstream Ipstream	46 46 46 46 46 44 44 46 46 46 46 46 44 44			skooski on 7/30.		
52 281 281 283 283 286 286 286 287 288 9 56 200 15 19 292 293 296 294 295 296 297 298 299 3000 58 291 291 298 3000 58 302 291 291 292 293 3000 58 302 201 592 303 303 23 303 24	20-Jun 21-Jun 21-Jun	4:55:10 6:58:30 7:40:30 9:12:02 9:12:02 11:22:25 12:25 11:25 12:25 11:25 12:25 11:25 12:25 11:25 12:25 11:25 12:25 11:25 12:25 11:25 11:25 12:25 11	# CH # CH # CH # CH # RBT # Sucker # RBT # CH # Sucker # Sucker # RBT #	10 to 14 24 to 28 8 to 12 8 to 12 6 to 10 6 to 10 28 to 34 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 8 to 12 28 to 34 6 to 10 6 to 10 8 to 12 8 to 32 6 to 10 6 to 10 6 to 10 7 to		Ipstream Ipstream	46 46 46 46 46 44 44 46 46 46 46 46 46 4			skooski on 7/30.		

_									
25	21-Jun	13:50:12 #	sucker	6 to 10		upstream	29		
306	21-Jun				1	upstream	29		
	21-Jun	14:42:30 #				neutral	29		
	21-Jun					neutral	29		seen a few times
26				10 to 14			37		
20	21-Jun			10 10 14		upstream			
	21-Jun					upstream	34		
16	21-Jun	17:01:16 #		t		upstream	34		
	21-Jun	17:27:35 #	?			upstream	32		
27		18:13:17 #		8 to 12		upstream	32		
60	21-Jun			28 to 34	No	upstream	32		large tadpole seen going downstream @ 19:23:40
28		19:24:07 #		6 to 10		upstream	31		inge mer en genig en men en e
29									
		20:06:15 #		6 to 10	1	upstream	31		
307		20:16:25 #				upstream	31		
61	21-Jun	20:27:28 #	CH	26 to 30	No	upstream	27		white patch on head.
62	21-Jun	20:45:12 #	CH	28 to 32	No	upstream	27		
	21-Jun	20:54:11 #	?			?	27		
308	22-Jun	5:11:26 #				upstream	29		
309	22-Jun	5:34:43 #				upstream	29		
310	22-Jun						29		
						upstream			
311	22-Jun	6:04:39 #				upstream	31		
30	22-Jun	6:07:04 #	sucker	8 to 12		upstream	31		
312	22-Jun	6:15:43 #	RBT			upstream	31		seen again @ 6:16:17 or a similar fish.
313	22-Jun	6:31:42 #	RBT			upstream	31		
314	22-Jun	6:56:29 #				upstream	32		
315	22-Jun	8:58:36 #	RBT	1	1	upstream	29		
316	22-Jun	9:23:26 #	RBT	1	1	upstream	29		
				1	1				
317	22-Jun	9:33:43 #	RBT	1		upstream	29		
318	22-Jun	10:10:44 #	RBT		1	upstream	29		
319	22-Jun	10:40:01 #	RBT	1		upstream	29		
320	22-Jun	11:05:27 #	RBT			upstream	29		
321	22-Jun	11:09:28 #		1	1	upstream	29		
31	22-Jun	11:57:42 #	sucker	6 to 10	·	upstream	29		
	22-Jun	12:35:46 #		1		?	29		
322	22-Jun 22-Jun	12:37:36 #		1	1		29		
				1		upstream			
323	22-Jun	13:08:41 #		1	I	upstream	29		
324	22-Jun	13:16:20 #				upstream	29		
325	22-Jun	13:59:41 #	RBT			upstream	29		
326	22-Jun	14:12:24 #	RBT			upstream	29		
32	22-Jun	14:24:01 #	sucker	6 to 10		upstream	29		
327	22-Jun	14:52:50 #			1	upstream	29	1	
328	22-Jun	14:54:07 #	RBT			upstream	29		
329	22-Jun	15:42:19 #					37		
						upstream			
330	22-Jun	16:27:05 #	RBT			upstream	34		
331	22-Jun	16:33:17 #				upstream	34		
332	22-Jun	16:45:34 #	RBT			upstream	34		
33	22-Jun	16:50:22 #	sucker	8 to 12		upstream	34		
333	22-Jun	17:19:22 #	RBT			upstream	32		
334	22-Jun	17:58:18 #	RBT			upstream	32		
335	23-Jun	4:55:42 #	RBT			upstream	27		
	23-Jun	4:56:33 #	trout			upstream	27		
200									
336	23-Jun	5:12:24 #	RBT			upstream	27		
337	23-Jun	5:16:22 #	RBT			upstream	27		
338	23-Jun	5:32:19 #	RBT			upstream	27		
339	23-Jun	6:12:30 #	RBT			upstream	27		
340	23-Jun	6:27:44 #	RBT			upstream	27		
	23-Jun	6:50:41 #	?			upstream	27		
341	23-Jun	6:53:32 #	RBT	1	1	upstream	27		
342	23-Jun	6:59:47 #	RBT	1	1	upstream	27		
343	23-Jun	7:20:25 #	RBT	1	-		27		
				1		upstream			
344	23-Jun	7:46:05 #	RBT	1	I	upstream	27		
345	23-Jun	8:48:57 #	RBT			upstream	24		
346	23-Jun	9:05:18 #		1		upstream	25		
347	23-Jun	9:21:31 #	RBT			upstream	25		
348	23-Jun	10:26:30 #	RBT	1	1	upstream	27		
63	23-Jun	10:53:02 #	СН		No	upstream	27		Fungus on side. Seen again @ 11:08:46, 11:31:39 (and a few more glimpses at times).
349	23-Jun	10:58:05 #				upstream	27		
	23-Jun	13:13:57 #		1	1	?	27		
350	23-Jun	13:46:21 #		1	1	upstream	27		
				1					
351	23-Jun	13:51:56 #		1		upstream	27		
352	23-Jun	14:01:39 #			1	upstream	27		
353	23-Jun	14:29:22 #		1		upstream	27		
354	23-Jun	14:45:01 #				upstream	27		
1	23-Jun					upstream	27		
	23-Jun					neutral	27		
355		15:26:13 #		1	1	upstream	25		
17		17:12:34 #		t 8 to 12	·	upstream	24		
		17:45:46 #		0.012		upstream	24		
++	∠o-Jun	17:45:46 #	UUUL	1					
				1	I	?	24		
		17:54:23 #				upstream	24		
	23-Jun					upstream	24		
356	23-Jun					upstream	21		
357	23-Jun			1	1	upstream	21		
358	23-Jun			1		upstream	21	l	
359		20:11:56 #		1	1	upstream	21		
360	23-Jun			1	1		21		
				1		upstream			Chinack Dadie ton # 55 papaga 20:01, pat agap on video (ofter dadi)
361		20:59:01 #		0.4 10	1	upstream	21	1	Chinook Radio-tag # 55 passes 23:31, not seen on video (after dark).
34		4:49:09 #		8 to 12		upstream	21		
	24 100	4:57:12 #	sucker	10 to 14		upstream	21		
35	24-Juli								
	24-Jun 24-Jun	5:06:53 #	RBT			upstream	21		

363	24-Jun	5:19:51 #	RBT		upstream	21					
364	24-Jun	5:35:37 #	RBT		upstream	21					
365	24-Jun		RBT		upstream	21					
366	24-Jun		RBT		upstream	21					
367	24-Jun		RBT		upstream	21					
307							-				
	24-Jun		RBT		?	21					
	24-Jun		trout		upstream	21	1				L
368	24-Jun	6:38:16 #	RBT		upstream	21					1
369	24-Jun		RBT		upstream	21					
370	24-Jun		RBT		upstream	21					
	24-Jun				upstream	24					
371			RBT								<u> </u>
372	24-Jun		RBT		upstream	24					
373	24-Jun		RBT		upstream	24					
374	24-Jun	9:55:22 #	RBT		upstream	24					
375	24-Jun		RBT		upstream	24					
376		11:51:58 #	RBT		upstream	24					
570							-				<u> </u>
			RBT		?	24	_				<u> </u>
		13:30:49 #	trout		upstream	24					
377	24-Jun	13:45:48 #	RBT		upstream	24					
378	24-Jun	14:04:22 #	RBT		upstream	24					
64	24-Jun	15:30:44 #	CH	24 to 28	No upstream	24		seen again 15:44:44, 15:57:00, 15:59:49			
•••		16:09:58 #	CH	2110 20	No ?	21	1	same fish?			
				01.10			1	same lish:			
36	24-Jun	17:03:16 #	sucker	6 to 10	upstream	21					
2	24-Jun	17:24:45 #	shiner		upstream	21					
- I T	24-Jun	17:50:34 #	shiner		?	21	1				1 1
	24-Jun	18:08:10 #	shiner		?	27					
379	24-Jun	18:14:12 #	RBT		upstream	27	1				
	24 0011	19:21:25 #	DDT				1				I
380		18:21:25 #		40.44	upstream	27	1				<u>⊢</u> I
37		19:12:03 #		10 to 14	upstream	24					L]
65	24-Jun		CH		No upstream	21					
381		20:16:00 #			upstream					-	
66		20:22:13 #		24 to 30	No upstream	21	·				
382		4:56:14 #		211000	upstream	18					<u> </u>
							1				<u> </u>
383	25-Jun		RBT		upstream	18	1				<u> </u>
	25-Jun		trout		upstream	18	1				
384	25-Jun		RBT		upstream	18	1				
	25-Jun		trout		upstream	18					
385	25-Jun		RBT		upstream	18	1				
							1				I
386	25-Jun		RBT		upstream	18	_				<u> </u>
387	25-Jun		RBT		upstream	18					
388	25-Jun		RBT		upstream	18					1
389	25-Jun		RBT		upstream	18				-	
390	25-Jun		RBT		upstream	18	1				
							-				<u> </u>
391	25-Jun		RBT		upstream	18	_				<u> </u>
392	25-Jun		RBT		upstream	18					
393	25-Jun	6:52:03 #	RBT		upstream	18					1
	25-Jun	6:56:00 #	RBT		?	18					
394	25-Jun		RBT		upstream	18					
395	25-Jun		RBT		upstream	18					
							-				
396	25-Jun		RBT		upstream	18					
397	25-Jun		RBT		upstream	18					
38	25-Jun	7:56:38 #	sucker	10 to 14	upstream	18					
	25-Jun	8:04:08 #	RBT		?	18					
398	25-Jun		RBT		upstream	18					
399	25-Jun		RBT		upstream	18					
							-				
400	25-Jun		RBT		upstream	18	_				<u> </u>
401	25-Jun		RBT		upstream	19	1				L]
402	25-Jun		RBT		upstream	19			<u> </u>		
	25-Jun		trout		upstream	19	1				
403	25-Jun		RBT		upstream	19					
404	25-Jun		RBT		upstream	19	1				
404							1				I
	25-Jun		RBT		upstream	19					<u> </u>
406	25-Jun		RBT		upstream	19	1				<u> </u>
407	25-Jun		RBT		upstream	19	1				
408	25-Jun		RBT		upstream	19					
	25-Jun		RBT		?	19	1				
409	25-Jun		RBT		upstream	19					
410	25-Jun		RBT		upstream	19	1				
411	25-Jun		RBT			19	1				<u> </u>
					upstream		1				<u> </u>
412	25-Jun		RBT		upstream	19	1				<u> </u>
	25-Jun		RBT		?	19					
- I T		12:31:15 #	RBT		?	19	1				1 1
413		12:55:34 #	RBT		upstream	19					
39	25-Jun		sucker	8 to 12	upstream	19					
	25 Jun	13:21:22 #	RPT I	01012			1				<u> </u>
413	20-Jun	13.21.22 #	RBT		upstream						<u> </u>
	25-Jun	13:26:29 #	KRI		?	19					I
414	25-Jun	13:28:22 #	RBT		upstream	19					
	25-Jun	13:35:16 #	trout		upstream	19	1				
415	25-Jun	14:07:53 #	RBT		upstream						
40		15:17:02 #		6 to 10	upstream	19	·				
											I
41		15:17:03 #		8 to 12	upstream	19					<u> </u>
42	25-Jun	15:27:52 #	sucker	8 to 12	upstream						
I 1	25-Jun	15:42:13 #	RBT		?	18	1				1 1
416	25-Jun	15:47:10 #	RBT		upstream						
417	25-Jun	15:48:40 #	RBT		upstream		1				
	25-Juli	15:51:40 #	DDT				1				<u> </u>
418	∠o-Jun	15:51:40 #	NDI DOT		upstream						<u>⊢</u> I
419	25-Jun	16:36:03 #	KRI		upstream	18					<u> </u>
	25 Jun	16:42:20 #	?		upstream						
	25-Juli										
43	25-Jun	18:09:08 #	sucker	6 to 10	upstream	16		Deployed temperature logger in ladder.			I I

44 45											
	25-Jun	18:26:22	# sucke		ups	stream	14				
		19:03:31				stream	14				
420		20:10:29				stream	14	1			
	25-Jun				ape	?	15				
404								16.20	Labo tomperature legger installed in ledder		
421	26-Jun		# RBT			stream	15		Hobo temperature logger installed in ladder.		
422	26-Jun		# RBT			stream	15	16.38			
423	26-Jun		# RBT			stream	15	16.22			
424	26-Jun	6:04:30	# RBT		ups	stream	15	16.22			
425	26-Jun	6:07:02	# RBT		ups	stream	15	16.22			
	26-Jun	6:12:32	# RBT			?	15	16.07			
426	26-Jun		# RBT		ups	stream	15	16.07			
427	26-Jun		# RBT				15	16.07			
						stream					
428	26-Jun		# RBT			stream	15	15.91			
429	26-Jun		# RBT		ups	stream	15	15.91			
	26-Jun	8:33:42	# RBT			?	15	15.91			
430	26-Jun	8:40:51	# RBT		ups	stream	15	16.07			
431	26-Jun	8:53:19	# RBT			stream	15	16.07			
	26-Jun	9:09:00	# RBT			?	15	16.22			
432	26-Jun	9:26:39	# RBT				15	16.22	(nice picture)		
432					ups	stream ?			(nice picture)		
	26-Jun		# RBT				15	16.22		 	
433	26-Jun		# RBT			stream	15	16.54			
434	26-Jun	9:48:56	# RBT		ups	stream	15	16.54			
435	26-Jun	9:57:29	# RBT			stream	15	16.54			
436	26-Jun	10:48:36	# RBT		ups	stream	15	17.34			
437	26-Jun			1		stream	15	17.82		1	
438	26-Jun		# RBT	1			15	17.82		 1	-
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439	26-Jun		# RBT			stream	15	17.82		 +	
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442	26-Jun	11:46:03	# RBT		ups	stream	15	18.31		<u> </u>	
443	26-Jun					stream	15	18.31		1	1
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46	26-Jun					stream	15	18.31		 1	-
446		11:59:55		+		stream	15	18.31		 +	
447	26-Jun					stream	15	18.31		 1	
448	26-Jun	12:09:24	# RBT		ups	stream	15	18.79			
449	26-Jun	12:13:48	# RBT		ups	stream	15	18.79			
450	26-Jun	12:15:38	# RBT			stream	15	18.79			
451	26-Jun		# RBT			stream	15	18.79			
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47	26-Jun			6 to 10			15				
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48	26-Jun			6 to 10		stream	15	18.79			
453	26-Jun					stream	15	20.24			
454	26-Jun	13:59:09	# RBT		ups	stream	15	20.24			
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455	26-Jun				ups	stream	15	20.57			
456	26-Jun					stream	15	20.57			
457	26-Jun					stream	15	20.57			
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404	27-Jun		RBT	upstream 14					<u> </u>
485	27-Jun		RBT	upstream 14					<u> </u>
486	27-Jun		RBT	upstream 14					<u> </u>
487	27-Jun		RBT	upstream 14					<u> </u>
54	27-Jun		sucker 5 to 8	upstream 1					<u> </u>
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488	27-Jun		RBT	upstream 1		this is not a duplicate			
489	27-Jun		RBT	upstream 1					L
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501		10:01:51 #	RBT	upstream 15					-
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504	27-Jun	10:17:15 #							<u> </u>
			RBT	upstream 1					
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55		10:30:54 #	sucker 5 to 8	upstream 1					<u> </u>
506		10:34:41 #	RBT	upstream 1					───
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508	27-Jun	10:47:45 #	RBT	upstream 1					<u> </u>
509		10:54:23 #	RBT	upstream 1					—
510	27-Jun	10:56:25 #	RBT	upstream 1					L
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56	27-Jun	11:27:06 #	sucker 5 to 8	upstream 15	5 17.5				
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519	27-Jun	11:29:24 #	RBT	upstream 1					
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521		11:40:10 #	RBT	upstream 1					
522	27-Jun	11:54:57 #	RBT	upstream 1					
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524		11:55:06 #	RBT	upstream 1					
525		12:20:20 #	RBT	upstream 1					
526		12:21:31 #	RBT	upstream 1					
527		12:29:36 #	RBT	upstream 1					
528		12:33:21 #	RBT	upstream 1					
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530	27-Jun	13:41:52 #	RBT	upstream 1					
531		13:53:13 #	RBT	upstream 1					
532	27- Jun	13:53:30 #	RBT	upstream 1					
533		14:24:55 #	RBT	upstream 1					-
57	27 Jun	14:25:03 #	sucker 6 to 10	upstream 1					-
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538		15:58:09 #	RBT	upstream 1			l		1
539		16:03:08 #	RBT	upstream 1			1	 	t
540		16:03:39 #	RBT 6 to 10	upstream 1			<u> </u>		t
59	27-Jun	16:08:50 #	sucker 6 to 10	upstream 1					<u> </u>
60		16:19:53 #	sucker 8 to 12	upstream 1					──
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543			RBT	upstream 15					1
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621	29-Jun	14:50:15 #	RBT		upst	ream	16	21.06					
622	29-Jun	15:11:08 #	RBT		upst	ream	16	21.39					
77			sucker	6 to 10		ream	16	21.39					
				0.0.10									
623		15:28:30 #	RBT			ream	16	21.39					
624	29-Jun	15:33:22 #	RBT		upst	ream	16	21.39					
	29-Jun	15:42:51 #	RBT		1	?	16	21.73					
625	29-Jun	15:42:52 #	RBT			ream	16	21.73					
626	29-Jun	15:49:23 #	RBT			ream	16	21.73					
627	29-Jun	15:52:08 #	RBT		upst	ream	16	21.73					
	29-Jun	15:56:14 #	RBT		neu	utral	16	21.73					
628	29-Jun	15:58:10 #	RBT				16	21.73					
						ream							
629	29-Jun	16:19:06 #	RBT	14 to 18	upst	ream	16		big fish				
630	29-Jun	17:13:55 #	RBT		upst	ream	16	21.89					
631	29-Jun	17:25:07 #	RBT		upst		16	21.89					
632			RBT			ream	16	21.89					
19	29-Jun	17:35:20 #	Bull Trout	8 to 14	upsti		16	21.89					
	29-Jun	17:39:56 #	RBT		1	?	16	21.89					
		17:42:17 #				utral	15	21.73					
					1100	?		21.73					
	29-Jun	17:48:14 #	RBT				15						
634	29-Jun	18:34:04 #	RBT		upst	ream	15	21.56					
635	29-Jun	18:38:17 #	RBT	T	upst	ream	15	21.56			Т	Т	г – Т
78	29-Jun	18:39:22 #	sucker	6 to 10		ream	15	21.39					
			?	1 12 10	upst		15	21.39					
		18:54:20 #											
		18:57:43 #				utral	15	21.39					
636	29-Jun	19:05:53 #	RBT	Т	upst	ream	15	21.23			Т	Т	7
637			RBT			ream	15	21.23					
				6 to 10									
79	29-Jun	19:17:14 #		6 to 10		ream	15	21.23					
		19:47:01 #	?		upst	ream	15	21.06					
80	29-Jun	19:47:23 #	sucker	5 to 8		ream	15	21.06					
638		19:50:44 #	RBT	1		ream	15	21.06					
									1	l – – – – – – – – – – – – – – – – – – –			
639		20:06:22 #	RBT			ream	15	20.73					
		20:12:28 #	trout			ream	15	20.73					
I T	29-Jun	20:15:11 #	?	Т	1	?	15	20.73			Т	Т	г – Т
		20:49:59 #	sucker			utral	15	20.73					
640													
640	30-Jun	4:57:17 #	RBT			ream	14	17.18					
641	30-Jun	5:15:20 #	RBT			ream	13	17.18					
I T	30-Jun	5:22:19 #	RBT	Т	1	?	13	17.18			Т	Т	7
	30-Jun	5:25:38 #	?		upst	ream	13	17.18					
642	30-Jun	5:46:27 #	RBT			ream	13	17.02					
643	30-Jun	6:01:44 #	RBT			ream	13	17.02					
644	30-Jun	6:14:48 #	RBT		upst	ream	13	17.02					
	30-Jun	6:39:48 #	trout		upst	ream	13	16.86					
645	30-Jun	9:35:16 #	RBT			ream	0.6	17.34	All flow diverted to YH. This is downstream from ladder. Flows ~25-35 cfs at ladder.				
									*Flow readings from Mill Creek Near Walla Walla (USGS 14013000)				
646													
646	30-Jun	9:45:34 #	RBT		upst		32*						
646 647	30-Jun	9:55:12 #	RBT		upst	ream	32*	17.66					
647	30-Jun 30-Jun	9:55:12 # 10:15:21 #	RBT RBT		upst	ream ?	32* 32*	17.66 17.98					
	30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 #	RBT		upst	ream	32* 32* 32*	17.66 17.98 18.31					
647	30-Jun 30-Jun	9:55:12 # 10:15:21 #	RBT RBT		upsti upsti	ream ?	32* 32*	17.66 17.98					
647 648	30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 #	RBT RBT RBT trout		upsti upsti upsti	ream ? ream ream	32* 32* 32* 32*	17.66 17.98 18.31 18.79					
647 648 649	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 # 12:57:24 #	RBT RBT RBT trout RBT	5 to 8	upsti upsti upsti upsti upsti	ream ? ream ream ream	32* 32* 32* 32* 32*	17.66 17.98 18.31 18.79 20.24					
647 648	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 # 12:57:24 # 12:58:04 #	RBT RBT trout RBT sucker	5 to 8	upsti upsti upsti upsti upsti upsti	ream ? ream ream ream ream	32* 32* 32* 32* 32* 32*	17.66 17.98 18.31 18.79 20.24 20.24					
647 648 649 81	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 # 12:57:24 # 12:58:04 # 13:20:23 #	RBT RBT trout RBT sucker ?	5 to 8	upsti upsti upsti upsti upsti upsti upsti	ream ? ream ream ream ream	32* 32* 32* 32* 32* 32* 32* 32*	17.66 17.98 18.31 18.79 20.24 20.24 20.73					
647 648 649 81 650	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 # 12:57:24 # 12:58:04 # 13:20:23 # 14:23:47 #	RBT RBT trout RBT sucker ? RBT	5 to 8	upsti upsti upsti upsti upsti upsti upsti	ream ? ream ream ream ream ream	32* 32* 32* 32* 32* 32* 32* 32* 32* 32*	17.66 17.98 18.31 18.79 20.24 20.24 20.73 21.56					
647 648 649 81	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 # 12:57:24 # 12:58:04 # 13:20:23 #	RBT RBT trout RBT sucker ?	5 to 8	upsti upsti upsti upsti upsti upsti upsti	ream ? ream ream ream ream	32* 32* 32* 32* 32* 32* 32* 32*	17.66 17.98 18.31 18.79 20.24 20.24 20.73					
647 648 649 81 650 651	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 # 12:57:24 # 12:58:04 # 13:20:23 # 14:23:47 # 14:37:41 #	RBT RBT trout RBT sucker ? RBT RBT	5 to 8	upsti upsti upsti upsti upsti upsti upsti upsti upsti	ream ream ream ream ream ream ream ream	32* 32* 32* 32* 32* 32* 32* 32* 31* 31*	17.66 17.98 18.31 18.79 20.24 20.24 20.73 21.56 22.06					
647 648 649 81 650 651 652	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 # 12:57:24 # 13:20:23 # 14:32:47 # 14:23:47 # 14:37:41 # 14:40:01 #	RBTRBTtroutRBTsucker?RBTRBTRBTRBTRBT	5 to 8	upsti upsti upsti upsti upsti upsti upsti upsti upsti upsti	ream ? ream ream ream ream ream ream ream	32* 32* 32* 32* 32* 32* 32* 32* 31* 31* 31*	17.66 17.98 18.31 18.79 20.24 20.24 20.73 21.56 22.06 22.06					
647 648 649 81 650 651 652 3	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 # 12:57:24 # 13:20:23 # 14:23:47 # 14:37:41 # 14:40:01 #	RBT RBT trout RBT sucker ? RBT RBT RBT RBT shiner	5 to 8	upsti upsti upsti upsti upsti upsti upsti upsti upsti upsti	ream ? ?ream ream ? ream ? ream ? ream ? ream ? ream ? ream ?	32* 32* 32* 32* 32* 32* 32* 31* 31* 31* 31*	17.66 17.98 18.31 18.79 20.24 20.24 20.73 21.56 22.06 22.06 22.06					
647 648 649 81 650 651 652 3 653	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 # 12:57:24 # 12:57:24 # 13:20:23 # 14:23:47 # 14:37:41 # 14:40:01 # 14:48:19 # 14:49:02 #	RBT RBT trout RBT sucker ? RBT	5 to 8	upst upst upst upst upst upst upst upst	ream ream ream ream ream ream ream ream ream ream	32* 32* 32* 32* 32* 32* 31* 31* 31* 31* 31* 31*	17.66 17.98 18.31 18.79 20.24 20.24 20.73 21.56 22.06 22.06 22.06 22.06					
647 648 649 81 650 651 652 3	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 11:56:28 # 12:57:24 # 13:20:23 # 14:23:47 # 14:37:41 # 14:40:01 #	RBT RBT trout RBT sucker ? RBT RBT RBT RBT shiner	5 to 8	upst upst upst upst upst upst upst upst	ream ? ?ream ream ? ream ? ream ? ream ? ream ? ream ? ream ?	32* 32* 32* 32* 32* 32* 32* 31* 31* 31* 31*	17.66 17.98 18.31 18.79 20.24 20.24 20.73 21.56 22.06 22.06 22.06 22.06 22.06					
647 648 649 81 650 651 652 3 653	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 12:57:24 # 12:58:04 # 13:20:23 # 14:23:47 # 14:37:41 # 14:40:01 # 14:49:02 # 14:49:22 #	RBT RBT RBT sucker ? RBT RBT RBT Shiner RBT RBT RBT	5 to 8	upsti upsti upsti upsti upsti upsti upsti upsti upsti upsti upsti	ream ? ream ream ream ream ream ream ream ream	32* 32* 32* 32* 32* 32* 32* 32* 31* 31* 31* 31* 31* 31* 31*	17.66 17.98 18.31 18.79 20.24 20.24 20.73 21.56 22.06 22.06 22.06 22.06 22.06					
647 648 649 81 650 651 652 3 653 654	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 12:57:24 # 12:57:24 # 12:57:24 # 13:20:23 # 14:23:47 # 14:37:41 # 14:40:01 # 14:49:02 # 14:58:28 # 15:18:02 #	RBT RBT trout RBT Sucker ? RBT RBT RBT RBT RBT RBT RBT RBT	5 to 8	upst upst upst upst upst upst upst upst	ream ? ream ream ream ream ream ream ream ream	32* 32* 32* 32* 32* 32* 32* 32* 31* 31* 31* 31* 31* 31* 31* 31*	17.66 17.98 18.31 18.79 20.24 20.24 20.73 21.56 22.06 22.06 22.06 22.06 22.06 22.06 22.06					
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647 648 649 81 650 651 652 3 653 655 655 655	30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun 30-Jun	9:55:12 # 10:15:21 # 11:00:48 # 12:57:24 # 12:58:04 # 13:20:23 # 14:23:47 # 14:37:41 # 14:48:19 # 14:48:19 # 14:48:28 # 15:19:21 # 15:19:21 #	RBT RBT RBT trout RBT Sucker ? RBT RBT RBT RBT RBT RBT RBT RBT RBT	5 to 8	upsti upsti	ream ream	32* 32* 32* 32* 32* 32* 32* 32* 31* 31* 31* 31* 31* 31* 31* 31* 31*	17.66 17.98 18.31 18.79 20.24 20.24 20.73 21.56 22.06 22.06 22.06 22.06 22.06 22.06 22.06 22.03 22.23					
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647 648 649 81 650 651 652 33 654 655 656 655 656 657 82 658 856 650 657 82 660 660 660 661 662 663 665	30-Jun 30-Jun	9:55:12 # 10:15:21 # 10:04:6 # 11:50:28 # 12:57:24 # 12:57:24 # 12:57:24 # 12:57:24 # 12:57:24 # 14:23:47 # 14:23:47 # 14:42:347 # 14:42:347 # 14:42:347 # 14:42:347 # 14:42:347 # 14:42:347 # 14:42:347 # 14:48:02 # 15:92:1 # 15:20:21 # 15:20:21 # 15:20:21 # 15:20:21 # 15:30:27 # 15:52:27 # 15:52:27 # 15:52:27 # 16:00:48 # 16:00:48 # 16:00:56 # 16:22:07 #	RBT RBT RBT RBT Sucker ? RBT	8 to 12	Upst: Upst:	ream -	32' 32' 32' 32' 32' 32' 32' 32' 32' 32'	17.66 17.98 18.31 18.79 20.24 20.73 21.56 22.06 22.06 22.06 22.23 22.23 22.23 22.23 22.23 22.23 22.23 22.23 22.25 22.56 22.56 22.56					
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747 2-Jul 19:09:16 # RBT upstream 28* 21:89	732 733 733 734 736 736 737 738 739 740 741 741 742 743 744 88	2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji	ui 15:11:01 ui 15:11:52 ui 15:44:15 ui 15:59:42 ui 16:33:51 ui 16:45:21 ui 16:45:21 ui 16:45:21 ui 16:45:21 ui 16:45:21 ui 16:45:26 ui 16:45:53 ui 16:45:54 ui 16:45:21 ui 16:45:54 ui 16:45:52 ui 17:58:55 ui 17:58:55 ui 18:11:34 ui 18:31:44	# F # SL # SL # F # F # F # F # F # F # F # F # F # F # F # F # F # F # F # F # F # F # # # F # # # # # # # # # # # # # # # # # #	niner Jcker RBT RBT RBT RBT RBT RBT RBT RBT RBT RBT			upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	28* 28* 28* 28* 28* 28* 28* 28* 28* 28*	22.23 22.39 22.39 22.39 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.39 22.23 22.23	Raised forebay 6" to create better attraction flow. At least 4 chinook below dam.			
	732 7 87 733 734 735 736 737 738 739 740 741 741 742 743 744 8 8 744 8 8 745	2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji	ui 15:11:01 ui 15:44:15 ui 15:44:15 ui 15:59:42 ui 16:30:51 ui 16:40:51 ui 16:45:21 ui 16:45:21 ui 16:45:21 ui 16:46:22 ui 16:46:22 ui 16:46:22 ui 16:46:22 ui 16:56:48 ui 17:68:55 ui 18:11:34 ui 18:19:18 ui 18:31:44 ui 18:31:44	# F # SL # SL # F	niner Joker RBT RBT RBT RBT RBT RBT RBT RBT RBT RBT			upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	28* 28* 28* 28* 28* 28* 28* 28* 28* 28*	22.23 22.39 22.39 22.39 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.39 22.23 22.23 22.23 22.23	Raised forebay 6" to create better attraction flow. At least 4 chinook below dam.			
1/40 2-Juli 13:34:40 #1 RD1 UpStream 25 21:30	732 7 87 733 734 735 736 737 738 739 740 741 742 743 744 88 745 746	2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji	ul 15:11:01 ul 15:11:52 ul 15:42:11:52 ul 15:42:11:52 ul 15:59:42 ul 16:43:51 ul 16:43:51 ul 16:45:31 ul 16:45:31 ul 16:45:31 ul 16:46:02 ul 16:56:44 ul 77:06:13 ul 18:11:23 ul 18:11:24 ul 18:31:44 ul 18:31:44 ul 18:51:42	# F # SL # SL # SL # F # # # # # # # #	niner Joker RBT RBT RBT RBT RBT RBT RBT RBT RBT RBT			upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	28* 28* 28* 28* 28* 28* 28* 28* 28* 28*	22.23 22.39 22.39 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.39 22.23 22.23 22.23 22.23 22.23	Raised forebay 6" to create better attraction flow. At least 4 chinook below dam.			
	732 7 87 733 734 735 736 737 738 739 740 741 742 743 744 88 745 745 745	2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji 2-Ji	ul 15:11:01 ul 15:11:52 ul 15:59:42 ul 15:59:42 ul 16:45:21 ul 17:58:52 ul 17:58:52 ul 18:11:34 ul 18:11:34 ul 18:42:55 ul 18:51:42 ul 19:00:91:61	# F # SL # SL # F # # # # # # # # # # # # # # # # # #	niner Jocker RBT RBT RBT RBT RBT RBT RBT RBT			upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	28* 28* 28* 28* 28* 28* 28* 28* 28* 28*	22.23 22.39 22.39 22.39 22.56 22.56 22.56 22.56 22.56 22.56 22.56 22.23 22.23 22.23 22.23 22.23 22.23 22.23 22.23 22.23	Raised forebay 6" to create better attraction flow. At least 4 chinook below dam.			

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		1 20:34:24 #		?	28*	21.23				
		I 21:03:11 #		?	28*	21.23				
	3-Jul			neutral	30*	17.34				
749	3-Jul	I 5:44:42 #	RBT	upstream	30*	17.18				
750	3-Jul		RBT	upstream		17.18				
751	3-Jul			upstream		17.18				
	3-Jul			neutral	30*	17.18				
	3-Jul			neutral	30*	17.82				
		I 10:50:58 #		neutral	30*	18.14				
752	3-Jul	I 10:55:30 #	RBT	upstream	30*	18.14				
753	3-Jul	I 11:01:08 #	RBT	upstream	30*	18.63				
754	3-Jul	I 11:23:44 #	RBT	upstream		18.63				
755	2. Jul	I 11:26:33 #	RBT	upstream		18.63				
	0-Jul	1 11.20.33 #	DDT							
756	3-Jui	I 11:30:40 #	RBT	upstream		18.63				
757	3-Jul	l 11:44:40 #	RBT	upstream		18.95				
758	3-Jul	l 11:49:17 #	RBT	upstream		18.95				
759	3-Jul	l 11:55:27 #	RBT	upstream	30*	18.95				
760	3-Jul	l 11:53:29 #	RBT	upstream		18.95				
	3-Jul	I 12:02:52 #	CH	neutral	30*	19.27				
761	2. Jul	12:04:47 #	RBT	upstream		19.27				
701	0-Jul	1 12.04.47 #	DDT							
	3-Jui	I 12:06:35 #	RBT	neutral	30*	19.27				
762	3-Jul	l 12:26:48 #	RBT	upstream		19.27				
763	3-Jul	l 12:27:46 #	RBT	upstream		19.27				
764	3-Jul	l 12:35:34 #	RBT	upstream	30*	19.76				
765	3-Jul	I 12:47:38 #	RBT	upstream		19.76				
766	3-Jul	I 12:49:19 #	RBT	upstream		19.76				
89	3-Jul			upstream		20.08				
	2 10	12:16:20 #	DET							
767	3-JUI	I 13:16:28 #	RBT	upstream		20.08				I
768	3-Jul	13:22:55 #	RBT	upstream		20.08				
769	3-Jul	I 13:42:30 #	RBT	upstream		20.57				
770	3-Jul	I 13:45:03 #	RBT	upstream		20.57				1
771	3-Jul	I 13:51:26 #	RBT	upstream		20.57				
772	3-Jul	I 14:19:16 #	RBT	upstream		21.06				
773	3-10	I 14:24:18 #	RBT	upstream		21.00				
	2 1.1	1 14.20.45 #	DDT							
774	3-JUI	I 14:28:45 #	RBT	upstream		21.06				I
775	3-Jul	I 14:32:09 #	RBT	upstream		21.06				
776	3-Jul	I 15:21:17 #	RBT	upstream		22				
777	3-Jul	I 17:19:26 #	RBT	upstream		22.39	Three chinook, one bull trout in pool below dam.		 	
	3-Jul	I 17:56:11 #	sucker	neutral	28*	22.23				
778	3-Jul	I 18:04:04 #	RBT	upstream		22.06				
	3-Jul		suckor	neutral	28*	21.73				
770		1 19.07.39 #	BDT							
779	3-Jui	I 19:09:55 #	RBI	upstream		21.73				
	3-Jul	I 19:11:03 #	RBT	neutral	28*	21.73				
		I 19:14:03 #		neutral	28*	21.73				
LГ		l 20:13:14 #		upstream		21.06				1
						21.06				
	3-Jui			upstream						
	3-Jul 3-Jul	20:23:55 # 20:39:02 #	?	upstream			possible CH			
	3-Jul	l 20:39:02 #	?	upstream	28*	20.73	possible CH			
	3-Jul 3-Jul	I 20:39:02 # I 21:09:34 #	?		28* 28*	20.73 20.24				
700	3-Jul 3-Jul 4-Jul	I 20:39:02 # I 21:09:34 # I 5:03:06 #	?	upstream upstream	28* 28* 30*	20.73 20.24 16.7	possible CH three neutral fish			
780	3-Jul 3-Jul 4-Jul 4-Jul	I 20:39:02 # I 21:09:34 # I 5:03:06 # I 5:04:10 #	? ? RBT	upstream upstream upstream	28* 28* 30* 30*	20.73 20.24 16.7 16.7				
	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul	I 20:39:02 # I 21:09:34 # I 5:03:06 # I 5:04:10 # I 5:27:24 #	? ? RBT RBT	upstream upstream upstream downstrear	28* 28* 30* 30* 1 30*	20.73 20.24 16.7 16.7 16.7				
780	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 1 21:09:34 # 1 5:03:06 # 1 5:04:10 # 1 5:27:24 # 1 8:13:36 #	? ? RBT RBT RBT	upstream upstream upstream downstream upstream	28* 28* 30* 30* 30* 30* 30*	20.73 20.24 16.7 16.7 16.7 16.38				
	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 1 21:09:34 # 1 5:03:06 # 1 5:04:10 # 1 5:27:24 # 1 8:13:36 #	? ? RBT RBT RBT	upstream upstream upstream downstream upstream	28* 28* 30* 30* 30* 30* 30*	20.73 20.24 16.7 16.7 16.7 16.38				
781	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	I 20:39:02 # I 21:09:34 # I 5:03:06 # I 5:04:10 # I 5:27:24 # I 8:13:36 # I 9:21:57 #	? ? RBT RBT RBT shiner	upstream upstream downstrear upstream downstrear	28* 28* 30* 30* 30* 30* 30*	20.73 20.24 16.7 16.7 16.7 16.38 16.7				
781 782	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 1 21:09:34 # 1 5:03:06 # 1 5:04:10 # 1 5:27:24 # 1 5:27:24 # 1 8:13:36 # 9:21:57 # 9:25:09	? RBT RBT RBT Shiner RBT RBT	upstream upstream downstrear upstream downstrear upstream upstream	28* 28* 30* 30* 30* 30* 30* 30*	20.73 20.24 16.7 16.7 16.38 16.7 16.38				
781 782 783	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 21:09:34 # 1 5:03:06 # 1 5:04:10 # 1 5:27:24 # 1 8:13:36 # 9:21:57 # 9:25:09 1 9:25:09 # 1 0:34:17 #	? RBT RBT RBT Shiner RBT RBT RBT	upstream upstream downstrear upstream downstrear upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30*	20.73 20.24 16.7 16.7 16.38 16.7 16.7 16.7 16.7 17.18				
781 782 783 784	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 1 21:09:34 # 1 5:03:06 # 1 5:04:10 # 1 5:27:24 # 1 8:13:36 # 1 9:21:57 # 1 9:25:09 # 1 10:34:17 #	? RBT RBT RBT Shiner RBT RBT RBT RBT	upstream upstream downstrear upstream downstrear upstream upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30* 30*	20.73 20.24 16.7 16.7 16.7 16.38 16.7 16.7 16.7 16.7 17.18 17.66				
781 782 783 784 785	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 1 21:09:34 # 5:03:06 # 5:03:06 1 5:04:10 # 5:04:10 # 1 5:27:24 # 8:13:36 1 9:21:57 # 9:25:09 # 1 10:34:17 # 1 10:48:30 # 1	? RBT RBT RBT RBT RBT RBT RBT RBT	upstream upstream downstrear upstream downstrear upstream upstream upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30* 30* 30*	20.73 20.24 16.7 16.7 16.7 16.38 16.7 16.7 16.7 17.18 17.66 17.98				
781 782 783 784 785 786	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 1 21:09:34 # 1 5:03:06 # 1 5:04:10 # 1 5:27:24 # 1 5:27:24 # 1 9:25:09 # 1 9:25:09 # 1 10:34:17 # 1 11:26:35 # 1 11:30:01 #	? ? RBT	upstream upstream downstrear upstream downstrear upstream upstream upstream upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30	20.73 20.24 16.7 16.7 16.7 16.38 16.7 16.7 17.18 17.66 17.98 17.98				
781 782 783 784 785 786 787	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 21:09:34 # 5:03:06 # 5:03:10 # 5:04:10 # 1 5:02:10 # 1 5:27:24 # 1 5:27:24 # 9:21:57 # 9:25:09 # 1 9:25:09 # 10:34:17 # 10:34:17 # 1 10:34:30 # 11:126:35 # 11:30:01 # 1 11:30:01 # 11:36:23 # 11:56:23 #	? ? RBT	upstream upstream downstrear upstream downstrear upstream upstream upstream upstream upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30	20.73 20.24 16.7 16.7 16.7 16.38 16.7 16.7 16.7 17.18 17.66 17.98 17.98 18.47				
781 782 783 784 785 786 787 788	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 21:09:34 # 5:03:06 # 5:03:06 # 5:04:10 # 1 5:07:24 # 8:13:36 # 9:21:57 # 9:21:57 # 10:33:07 # 10:34:17 # 10:34:30 # 11:26:35 # 11:30:01 # 11:26:35 # 11:30:01 # 12:00:05 # 12:00:05 #	?	upstream upstream downstrear upstream downstrear upstream upstream upstream upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30	20.73 20.24 16.7 16.7 16.38 16.7 16.7 16.7 17.18 17.66 17.98 17.98 17.98 18.47				
781 782 783 784 785 786 787	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 21:09:34 # 5:03:06 # 5:03:06 # 5:04:10 # 1 5:27:24 # # 1:3:36 # 9:21:57 # 9:25:59 # 1:0:34:17 # 1:0:48:30 # 1:0:48:30 # 1:1:26:35 # 1:1:20:35 # 1:1:30:01 # 1:1:56:23 # 1:1:20:05 # 1:2:07:58 # 1:2:17:58 # 1:2:17:58 # 1:2:17:58 #	? ? RBT	upstream upstream downstrear upstream downstrear upstream upstream upstream upstream upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30	20.73 20.24 16.7 16.7 16.7 16.38 16.7 16.7 16.7 17.18 17.66 17.98 17.98 18.47				
781 782 783 784 785 786 787 788 789	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 21:09:34 # 5:03:06 # 5:03:06 # 5:04:10 # 1 5:27:24 # # 1:3:36 # 9:21:57 # 9:25:59 # 1:0:34:17 # 1:0:48:30 # 1:0:48:30 # 1:1:26:35 # 1:1:20:35 # 1:1:30:01 # 1:1:56:23 # 1:1:20:05 # 1:2:07:58 # 1:2:17:58 # 1:2:17:58 # 1:2:17:58 #	? ? RBT	upstream upstream downstrear upstream downstrear upstream upstream upstream upstream upstream upstream upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30	20.73 20.24 16.7 16.7 16.7 16.38 16.7 16.7 17.18 17.66 17.98 17.98 17.98 18.47 18.47 18.95				
781 782 783 784 785 786 786 787 788 789 790	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	1 20:39:02 # 21:09:34 # 5:03:06 # 5:03:06 # 5:04:10 # 5:02:124 # 9:21:57 # 9:22:509 # 10:34:17 # 10:34:17 # 11:26:35 # 11:12:00:05 # 12:21:57 # 12:21:42 #	? ? RBT	upstream upstream downstrear upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30	20.73 20.24 16.7 16.7 16.7 16.7 16.38 16.7 17.18 17.66 17.98 17.98 17.98 18.47 18.47 18.95				
781 782 783 784 785 786 787 788 789	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	20:39:02 # 21:09:34 # 21:09:34 # 5:03:06 # 5:03:06 # 5:03:06 # 5:03:06 # 5:03:06 # 5:03:06 # 5:27:24 # 8:13:36 # 9:25:07 # 10:34:17 # 10:34:17 # 11:26:35 # 11:26:35 # 11:26:35 # 12:20:05 # 12:20:05 # 12:22:54.3 # 12:23:59 #	? ? RBT RBT Shiner RBT RBT <	upstream upstream downstrear upstream downstrear upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30* 30	20.73 20.24 16.7 16.7 16.7 16.7 16.38 16.7 17.18 17.66 17.98 17.98 18.47 18.47 18.95 18.95				
781 782 783 784 785 786 787 788 789 790 791	3-Jul 3-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul 4-Jul	20:39:02 # 21:09:34 # 21:09:34 # 5:03:06 # 5:02:10 # 5:02:11 # 5:02:12 # 9:25:09 # 10:34:17 # 10:34:17 # 11:26:35 # 11:26:35 # 12:00:05 # 12:25:43 # 12:25:43 # 12:25:46 #	? ? RBT	upstream upstream downstrear upstream downstrear upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream upstream	28* 28* 30* 30* 30* 30* 30* 30* 30* 30	20.73 20.24 16.7 16.7 16.7 16.8 16.7 16.7 17.18 17.66 17.98 17.98 17.98 17.98 18.47 18.47 18.95 18.95 18.95				
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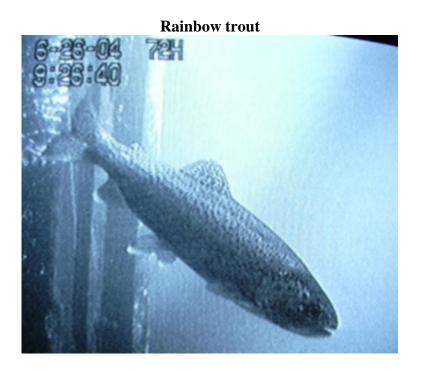
La col			-								
811	5-Jul 12:56:3			upstream	28*	19.76					
	5-Jul 13:01:4	9 # RE	Т	?	28*	20.24					
812	5-Jul 14:48:4	9 # RE	T	upstream	28*	21.73					
813	5-Jul 15:14:0			upstream	28*		At least one chinook below dam. (spot on left side of tail).				
						22.00					
814	5-Jul 15:19:1			upstream	28*	22.06	Log partially blocked exit.				
	5-Jul 15:33:0	4 # RE	Т	downstream	28*	22.06					
	5-Jul 15:42:4	9 # RE	T	neutral	28*	22.23	fish seen several times.				
815	5-Jul 16:37:3			upstream	28*	22.56					
816	5-Jul 18:40:5			upstream	28*	22.39					
	5-Jul 18:44:3	1 # suc	er	?	28*	22.39					
	5-Jul 19:17:4			neutral	28*	22.06					
	5-Jul 20:31:3			neutral	28*	21.56					
	5-Jul 20:47:1	2 # RE	Т	neutral	28*	21.23					
					28*	21.23					
				upstream							
	6-Jul 8:36:1	3 # RE	Т	neutral	30*	17.34	Debris in exit				
817	6-Jul 8:46:3	′# RE	Т	upstream	30*	17.34					
	6-Jul 10:52:0			?	28*	18.47					
		T # IXL									
	6-Jul 11:27:1			upstream	28*	18.79					
818	6-Jul 13:55:4	5 # RE	Т	upstream	35*	20.4					
	6-Jul 13:57:4	4 # RE	Т	?	35*	20.4	Debris removed from exit				
	6-Jul 15:57:1			?	28*	21.56					
90	6-Jul 16:02:0	2 # suc	er 6 to 10	upstream	28*	21.73					
91	6-Jul 16:04:2			upstream	28*	21.73					
8	6-Jul 16:07:1			upstream	28*	21.73					
819	6-Jul 16:16:0	3 # RE		upstream	28*	21.73					L
820	6-Jul 16:18:1	5 # RE		upstream	28*	21.73					
	6-Jul 17:09:4			2 Particular	28*	22.06					1
\vdash						22.00					
	6-Jul 17:18:3			?	28*	22.06					
	6-Jul 17:20:2			downstream	28*	22.06					
821	6-Jul 17:40:4			upstream	28*	22.06					
021						22.00					
	6-Jul 18:27:3			?	28*	21.89					
	6-Jul 18:34:5	9 # RE	Т	?	28*	21.73					
822	6-Jul 19:24:1			upstream	28*	21.56					
022											
823	6-Jul 19:42:1			upstream	28*	21.23	Beaver @ 19:56:29				
	6-Jul 20:22:5		т	?	28*	20.89					
	6-Jul 21:13:1			upstream	28*	20.24					
\vdash											
	7-Jul 5:10:1			neutral	30*		Several sightings, 5:24:52, 5:26:58(2 CH), 5:31:00, several more until about 7:30				
824	7-Jul 8:12:5		т	upstream	30*	16.86					
					30*						
825	7-Jul 8:22:2			upstream		16.86					
826	7-Jul 8:37:1) # RE	Т	upstream	30*	16.7					
827	7-Jul 9:36:2			upstream	30*	17.02			-		1
											1
828	7-Jul 9:55:5			upstream	30*	17.02					
LI	7-Jul 10:49:2			?	28*		Three fish				L
829	7-Jul 12:33:1	3 # RE		upstream	44*	18.63					
830					31*						
030	7-Jul 13:19:5			upstream		19.27					
	7-Jul 14:02:3	7 # RE	Т	?	30*	19.92					
831	7-Jul 14:15:2			upstream	30*	19.92					
832	7-Jul 14:19:4			upstream	30*	19.92					
833	7-Jul 14:38:3	7 # RE	Т	upstream	30*	20.4					
834	7-Jul 15:20:4	4 # RE	Т	upstream	28*	20.73					
835	7-Jul 15:40:5				28*	20.89					
				upstream							
836	7-Jul 16:28:3	0 # RE	Т	upstream	28*	21.06					
837	7-Jul 16:41:0	1 # RE	T	upstream	28*	21.06					
92	7-Jul 17:14:1			upstream	28*	21.06					
52	7-Jul 17.14.1	4 # Suc				21.00					
	7-Jul 19:27:5	2 # C		neutral	28*		Stayed in view of the camera almost constantly until 20:40.				
	7-Jul 20:14:5	2 # RE	Т	neutral	28*	19.59					
838	7-Jul 20:16:3			upstream	28*	19.59					
030				upstream							
	7-Jul 20:54:3			?	28*	19.27					
	8-Jul 4:45:4			neutral	28*	16.07	seen several times.				
839	8-Jul 5:36:4			upstream	28*	15.91					
840	8-Jul 13:23:2			upstream	28*	19.11					
841	8-Jul 14:31:4	9 # RE	т	upstream	28*	19.92				[1
842	8-Jul 14:52:0			upstream	28*	20.24					
68		8 # C				20.89					1
	8-Jul 15:42:2	8 # CI		upstream	28*						
843	8-Jul 15:55:4	8 # RE		upstream	28*	20.89					
93	8-Jul 16:18:5	8 # suc	er 6 to 10	upstream	28*	21.06					
	8-Jul 16:38:4	6 # C		neutral	27*	21.06					
844	8-Jul 18:19:5			upstream	27*	21.06					
845	8-Jul 18:31:2	6 # RE	т	upstream	27*	21.06					1
846	8-Jul 19:25:0			upstream	27*	20.57					
0.40											l
	8-Jul 20:00:1			downstream	27*	20.4					
	8-Jul 20:26:2	4 # C		neutral	28*	20.08					L
	9-Jul 4:58:0	5 # C		neutral	28*	16.07					I
	9-Jul 6:30:1			neutral	28*	15.75					
	9-Jul 10:15:5			neutral	28*	16.7					
847	9-Jul 12:35:2		т	upstream	28*	18.31					
848	9-Jul 14:12:0			upstream	28*	20.08	1 CH below dam (likely missed others in riprap). Also an 18 inch RBT (measured).				1
040	0 1.1 10 17	· // I\C					er este san (incig missed oners in nyrap). Also an to incir tor (incasured).				
	9-Jul 18:48:4			neutral	27*	20.89					
1 T	9-Jul 19:42:4	2 # RE	т	?	27*	20.57					
849	9-Jul 20:59:3	7 # RE		upstream	27*	20.08					
043	J-Jui 20.09.3	, # KC		upsitedIII	21	20.00	2 CH below dom. One with anot on left aide of tail (192-1)				
							3 CH below dam. One with spot on left side of tail (blind), one with smaller mark on left side of tai				1
							hiding in riprap. One with split in upper part of tail, hiding in riprap (This female was found dead below 5	-			1
850	10-Jul 15:36:1	5 # RE	т	upstream	27*	21.23	mile Bridge on July 29).				
	40 141 40.00.1										
851	10-Jul 16:01:4	2 # RE	1	upstream	28*	21.23	Removed Camera. That's all folks!				
	1		i								
++		-+		+ + +							I
				+ + +							
			1	1 1 1			One (likely missed 2 others) CH below dam, smaller mark on left side of tail. One CH 4th weir downstre	eam trom dam, spot on tail, blin	d.		1
	23-Jul										
F	23-Jul 28-Jul						Three CH below dam, all appear healthy.				

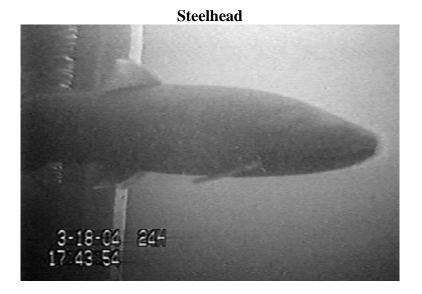
Appendix B

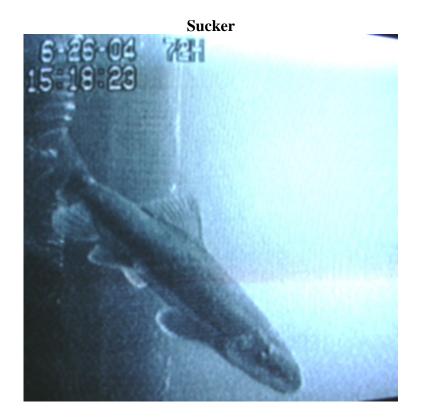
Photographs of Various Species From Underwater Video

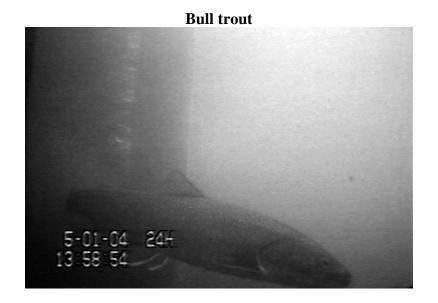
Mill Creek Diversion Dam

2004





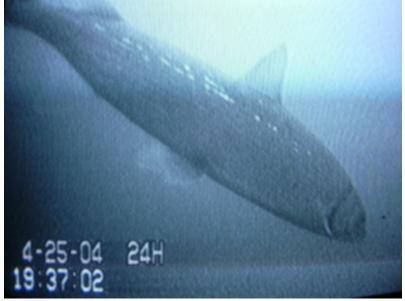


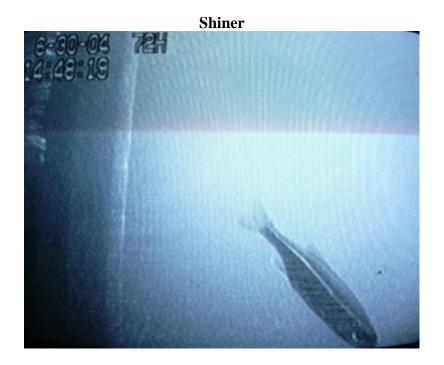


Chinook salmon



Whitefish





River otter

