

**From:** Brandon Chockley

**Sent:** Monday, June 21, 2021 8:02 AM

**Subject:** [Non-DoD Source] Real-time GBT Reports - June 21, 2021

Attached, please find the latest Real-time GBT reports for the Salmonid and Non-salmonid GBT monitoring programs, with data through batch date of June 21<sup>st</sup>.

The Salmonid GBT Report (gbtsumbybatchdate\_realtime.pdf) has new data from BON (batch date 6/20) and LGS (batch date 6/21).

The Non-Salmonid GBT Report (NS\_gbtsumbybatchdate\_realtime.pdf) does not have new data since the version distributed Thursday afternoon, as no new samples have been conducted since Thursday (June 17).

**Brandon R. Chockley**

Data Analyst/Fishery Biologist

Fish Passage Center

## Gas Bubble Monitoring Program Two Week Salmonid GBT Monitoring Report

Date 6/21/2021 7:15:53 AM

Page 1 of 4

### LOWER GRANITE DAM

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/11/2021	CH1	2	0	0	0.00 %	0.00 %	0	0	0	0
06/18/2021	ST	1	0	0	0.00 %	0.00 %	0	0	0	0

### LITTLE GOOSE DAM

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/14/2021	CH0+ST	100	7	7	7.00 %	0.00 %	7	0	0	0
06/21/2021	CH0+ST	78	2	2	3.00 %	0.00 %	2	0	0	0

Samples highlighted in yellow indicate that the sample size criteria of 50 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT. Therefore, making management decisions based on these small of sample sizes is inadvisable.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

## Gas Bubble Monitoring Program Two Week Salmonid GBT Monitoring Report

Date 6/21/2021 7:15:53 AM

Page 2 of 4

### LOWER MONUMENTAL DAM

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/16/2021	CH0+CH1+ST	40	3	3	8.00 %	0.00 %	3	0	0	0

### McNARY DAM

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/12/2021	CH0+CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0
06/16/2021	CH0+CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0
06/18/2021	CH0+CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0



Samples highlighted in yellow indicate that the sample size criteria of 50 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT. Therefore, making management decisions based on these small of sample sizes is inadvisable.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

## Gas Bubble Monitoring Program Two Week Salmonid GBT Monitoring Report

Date 6/21/2021 7:15:53 AM

Page 3 of 4

### BONNEVILLE DAM

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/13/2021	CH0+CH1+ST	100	0	0	0.00 %	0.00 %	0	0	0	0
06/16/2021	CH0+ST	94	0	0	0.00 %	0.00 %	0	0	0	0
06/20/2021	CH0+ST	100	0	0	0.00 %	0.00 %	0	0	0	0

### ROCK ISLAND DAM (ALL FISH)

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/10/2021	CH0+CH1+ST	81	6	6	7.00 %	0.00 %	5	1	0	0
06/15/2021	CH0+ST	13	0	0	0.00 %	0.00 %	0	0	0	0
06/17/2021	CH0+ST	46	2	2	4.00 %	0.00 %	1	1	0	0

Samples highlighted in yellow indicate that the sample size criteria of 50 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT. Therefore, making management decisions based on these small of sample sizes is inadvisable.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

## Gas Bubble Monitoring Program Two Week Salmonid GBT Monitoring Report

Date 6/21/2021 7:15:53 AM

Page 4 of 4

### ROCK ISLAND DAM ("TRADITIONAL" EXAMS ONLY)

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/10/2021	CH0+CH1+ST	63	5	5	8.00 %	0.00 %	4	1	0	0
06/15/2021	CH0+ST	12	0	0	0.00 %	0.00 %	0	0	0	0
06/17/2021	CH0+ST	42	2	2	5.00 %	0.00 %	1	1	0	0

### ROCK ISLAND DAM ("FRESH" EXAMS ONLY)

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/10/2021	CH0+ST	18	1	1	6.00 %	0.00 %	1	0	0	0
06/15/2021	ST	1	0	0	0.00 %	0.00 %	0	0	0	0
06/17/2021	CH0+ST	4	0	0	0.00 %	0.00 %	0	0	0	0



Samples highlighted in yellow indicate that the sample size criteria of 50 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT. Therefore, making management decisions based on these small of sample sizes is inadvisable.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

## Gas Bubble Monitoring Program Two Week GBT Non-Salmonid Monitoring Report

Date 6/21/2021 7:16:05 AM

Page 1 of 5

### Non-salmonid Below Bonneville

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/10/2021	CH0+SC+SK+NP	123	0	0	0.00 %	0.00 %	0	0	0	0
06/17/2021	CH0+OT+SC+SK+NP	152	0	0	0.00 %	0.00 %	0	0	0	0

### Electrofishing Below Bonneville

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4



Samples highlighted in yellow indicate that the minimum sample size criteria of 50 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT. Therefore, making management decisions based on these small of sample sizes is inadvisable.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

## Gas Bubble Monitoring Program Two Week GBT Non-Salmonid Monitoring Report

Date 6/21/2021 7:16:05 AM

Page 2 of 5

### Dam Angling at Bonneville Tailrace

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4

### Dam Angling at The Dalles Tailrace

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4



Samples highlighted in yellow indicate that the minimum sample size criteria of 50 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT. Therefore, making management decisions based on these small of sample sizes is inadvisable. The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

## Gas Bubble Monitoring Program Two Week GBT Non-Salmonid Monitoring Report

Date 6/21/2021 7:16:05 AM

Page 3 of 5

### Dam Angling at John Day Tailrace

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/16/2021	NP	7	0	0	0.00 %	0.00 %	0	0	0	0

### Non-salmonid Below McNary

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/14/2021	RS+SC+SK+NP	149	6	5	3.00 %	0.00 %	5	0	0	0



Samples highlighted in yellow indicate that the minimum sample size criteria of 50 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT. Therefore, making management decisions based on these small of sample sizes is inadvisable.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)



## Gas Bubble Monitoring Program Two Week GBT Non-Salmonid Monitoring Report

Date 6/21/2021 7:16:05 AM

Page 4 of 5

### Non-salmonid Below Ice Harbor

Date	Species Examined	Total Fish Examined	Total Fish w/ GBT	Total Fish w/ Fin GBT	Percent Fish w/ Fin GBT	Percent Fish w/ Severe Fin GBT	Number of Fish with Fin GBT - By Rank			
							Rank 1	Rank 2	Rank 3	Rank 4
06/15/2021	SC+NP+SU	65	0	0	0.00 %	0.00 %	0	0	0	0



Samples highlighted in yellow indicate that the minimum sample size criteria of 50 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT. Therefore, making management decisions based on these small of sample sizes is inadvisable.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

## Gas Bubble Monitoring Program Two Week GBT Non-Salmonid Monitoring Report

Date 6/21/2021 7:16:05 AM

Page 5 of 5

Species Code	Description	Species Code	Description	Species Code	Description
BM	Bass, Large Mouth	BS	Bass, Small Mouth	BL	Bluegill and Pumpkinseed
BH	Bullhead	CP	Carp	CC	Channel Cat
CM	Chiselmouth	UM	Chum	CR	Crappie species
LD	Dace - Long Nose	SD	Dace - Speckled	BK	Killifish, Banded
AP	Lamprey Ammocoete (Pacific)	MP	Lamprey Macrophthalmia Pacific	LK	Lamprey Adult (Brook)
LP	Lamprey Adult (Pacific)	LR	Lamprey Adult (River)	MA	Madtom, Tadpole
OT	Other incidental species not listed	PM	Peamouth	PE	Perch
NP	Pike Minnow, Northern	SR	Sand Roller	SC	Sculpin species
SA	Shad Adult	SJ	Shad Juvenile	RS	Shiner Redside
SK	Stickleback	SN	Sturgeon, Green	SG	Sturgeon, White
BU	Sucker - Bridgelip	LU	Sucker - Largescale	MU	Sucker - Mountain
SU	Sucker, Species	TT	Tench	BT	Trout - Brook
NT	Trout - Brown	LT	Trout - Bull	CT	Trout - Cutthroat
RT	Trout - Rainbow	WE	Walleye	WA	Warmouth
LW	Whitefish - Lake	MW	Whitefish - Mountain		



Samples highlighted in yellow indicate that the minimum sample size criteria of 50 fish was not met. The inability to collect an adequate sample precludes the accurate estimation of the percentage of fish with GBT. Therefore, making management decisions based on these small of sample sizes is inadvisable.

The action criteria for interruption of the voluntary spill program is defined as either 15% of examined fish showing signs of GBT in their non-paired fins or 5% of examined fish showing severe signs of GBT in their non-paired fins (severe signs constitute >25% of the surface area of the fin is occluded by gas bubbles, corresponding to Ranks of 3 or 4)

**From:** Brandon Chockley  
**Sent:** Monday, June 21, 2021 11:13 AM  
**Subject:** [Non-DoD Source] End of Real-time GBT Reports

Hello All!

With the start of summer spill at all FCRPS projects, the FPC has transitioned our website to provide the GBT Reports and GBT Web Queries in real-time (i.e., no longer on a 3-day delay). Therefore, the e-mail I sent earlier this morning with the real-time GBT reports was the last e-mail for 2021.

You can use the following links to get real-time GBT data and/or reports:

- **2-Week Salmonid GBT Report -**  
[https://www.fpc.org/currentdaily/gbtsumbybatchdate\\_realtime.pdf](https://www.fpc.org/currentdaily/gbtsumbybatchdate_realtime.pdf). This report is updated throughout the day as new data come in.
- **2-Week Non-Salmonid GBT Report -**  
[https://www.fpc.org/currentdaily/NS\\_gbtsumbybatchdate\\_realtime.pdf](https://www.fpc.org/currentdaily/NS_gbtsumbybatchdate_realtime.pdf). This report is current through the sample conducted below BON on June 17<sup>th</sup>. It will be updated if we receive any new non-salmonid GBT data. However, we not expect to receive new data, as non-salmonid monitoring has ended for 2021.
- **2021 Salmonid GBT Data Query -**  
[https://www.fpc.org/smolt/smolt\\_queries/Q\\_smolt\\_currentyeargbt\\_dataquery.php](https://www.fpc.org/smolt/smolt_queries/Q_smolt_currentyeargbt_dataquery.php). New data are available via this query as soon as received and processed by FPC.
- **2021 Non-Salmonid GBT Data Query -**  
[https://www.fpc.org/smolt/smolt\\_queries/Q\\_smolt\\_nsgbtdataquery\\_dataquery.php](https://www.fpc.org/smolt/smolt_queries/Q_smolt_nsgbtdataquery_dataquery.php). New data will be available as soon as received and processed by FPC but we do not anticipate any new data for 2021, as non-salmonid monitoring has ended for 2021.

**Brandon R. Chockley**  
Data Analyst/Fishery Biologist  
Fish Passage Center