

MEMORANDUM FOR THE RECORD

SUBJECT: 20BON33 CRITFC BI AWS Tube Trap Pacific Lamprey Mortality

On Sunday morning 7/5/2020, CRITFC staff found one Pacific Lamprey mortality in a tube trap deployed in the Bradford Island Fish Ladder AWS. The fish was collected for the CRITFC-Tribal translocation program. The cause of death was not apparent, but the oral disc of the fish showed abrasions and signs of injury. Two healthy lampreys were in the same trap as the mortality at the time of recovery.

- A. Species –
- B. Origin –
- C. Length –
- D. Marks and tags –
- E. Marks and Injuries found on carcass –
- F. Cause and Time of Death –
- G. Future and Preventative Measures –



Sincerely,
Greg Silver
CRITFC &
Project Fisheries

Comments:

CRITFC

-----Original Message-----

From: Tom Lorz [mailto:lorz@critfc.org]

Sent: Monday, July 06, 2020 12:31 PM

To: Kovalchuk, Erin H CIV USARMY CENWP (USA) <Erin.H.Kovalchuk@usace.army.mil>;

Subject: [Non-DoD Source] Re: FPOM: Official Coordination 20BON29-33 MFRs PL Morts

Hey Erin thanks for this. One thing we might add to the MFR is whether the lamprey appears to be fresh or an overwintered animal. I believe light brown color usually indicates overwinter. Can confirm with one that expects, since I am far from that.

Looking at the numbers while this is not unfortunate, not unusual for these over winter fish to struggle to make it past Bonneville and we are just collecting the dam mortalities. By adding weather we think it is a fresh lamprey or one that is been around for quite some time will also help to inform the reader about the potential importance. If we have numerous "fresh" lamprey morts that is going to increase the level of concern than if we have a couple of over winter lamprey morts in a couple of locations. Can talk more at FPOM if needed.

Thanks

Tom Lorz

CRITFC
RESPONSE

-----Original Message-----

From: Ralph Lampman [mailto:lamr@yakamafish-nsn.gov]

Sent: Monday, July 06, 2020 12:52 PM

To: Tom Lorz <lort@critfc.org>

Cc: Kovalchuk, Erin H CIV USARMY CENWP (USA) <Erin.H.Kovalchuk@usace.army.mil>;

Subject: [Non-DoD Source] Re: FPOM: Official Coordination 20BON29-33 MFRs PL Morts

Hi all,

I believe the fresh ones are saved (Greg CRITFC can confirm this).

Color is certainly one indicator as Tom suggested (overwintered are brownish color compared to fresh migrants, which are silverish color).

What I have been suggesting is the measurement of the distance between the two dorsal fins for these morts (best indicator for maturity so we can distinguish fresh migrant vs. overwintered). When they are sexually mature, this gap more or less closes completely (< 7 mm). Freshmigrants typically have a 20-50 mm gap.

I've been looking at these mort photos, but haven't come across any obvious overwintered ones (look like all fresh migrants). Of course, there are some that can overwinter twice once in a while, and those would be harder to tell (dorsal gap may be slightly smaller, but may not be obviously different).

But every year around this time, the temperature gets fairly high and seems like some always succumb to furunculosis (not much that can be done). Temperature stays high all July, but those that die seem to decrease after the early July.

Those that we translocate are transferred to highly oxygenated colder water (rather than being stuck in the BON high temperature), so the chances of survival is likely higher.

Ralph Lampman
COLUMBIA RIVER| Honor. Protect. Restore

Yakama Nation FRMP, Pacific Lamprey Project

lamr@yakamafish-nsn.gov <mailto:lamr@yakamafish-nsn.gov>
509-388-3871
<Blockedhttps://dl.dropbox.com/u/23266283/Yakama%20Fisheries%20Logo_Final_Color.png>

WDFW

-----Original Message-----

From: Morrill, Charles (DFW) [mailto:Charles.Morrill@dfw.wa.gov]
Sent: Monday, July 06, 2020 11:29 AM
To: Kovalchuk, Erin H CIV USARMY CENWP (USA) <Erin.H.Kovalchuk@usace.army.mil>;
Subject: [Non-DoD Source] RE: FPOM: Official Coordination 20BON29-33 MFRs PL Morts

Thanks for the update Erin,

This is really disappointing. Were any of these fresh morts frozen for further inspection for internal disease symptoms ?

Charlie

RESPONSE

-----Original Message-----

From: Greg Silver <gsilver@critfc.org>
Sent: Monday, July 6, 2020 12:07 PM
To: Kovalchuk, Erin H CIV USARMY CENWP (USA) <Erin.H.Kovalchuk@usace.army.mil>; Morrill, Charles (DFW) <Charles.Morrill@dfw.wa.gov>
Cc: Derugin, Andrew G CIV (USA) <Andrew.G.Derugin@usace.army.mil>; Laurie Porter <porl@critfc.org>; Tom Lorz <lorl@critfc.org>
Subject: RE: FPOM: Official Coordination 20BON29-33 MFRs PL Morts

Hello Erin and Charles,

All mortalities were frozen after tissue sampling for genetic analysis. Andrew Derugin has reached out to USFWS regarding possible necropsy on them. I'm not sure if he has heard back on that yet.

Thanks,
Greg

