

2018 Imnaha River Chinook Salmon and Bull Trout summaries

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Noteable Highlights/Data issues

- Imnaha Weir installation date: **11 June, 2018.**
- 6/11/18: IR5 has not been uploading to PTAGIS since 5/26. Looking into the problem. IR4 & IML are working correctly.

Source Data

The complete PIT tag histories were downloaded from two different files on the PTAGIS ftp server. Tag histories were limited to detections within the Imnaha River Basin. File #1 = Chinook PIT tag detections (maintained by Joseph) and file #2 = Bull trout PIT tag detections (maintained by Ryan). The data for these files is being refreshed daily at about 6:00 a.m. Pacific time on the PTAGIS server. We are using an R-script to download these two files from the PTAGIS ftp server and combine them into a single file. The output file is a simplified tag history with the first and last detection dates on each Node.

Creating the PTAGIS Chinook Complete Tag History report:

- *Tag list #1:* Static Tag list for all Chinook tagged in 2018 and released at BONAFF or LGRLDR.
- *Tag list #2:* Static Tag list for Chinook released into the Imnaha River for MY2015-2017 and detected at a mainstem adult ladder interrogation site in 2018.
- *Event Date:* Between 5/1/2018 and 10/1/2018
- *Event Sites:* IR1, IR2, IR3, IR4, IR5, IML, IMNAHW, BSC, IMNAHR
- *Mark Species:* Chinook
- *Event Type:* Observation, Recapture, Recovery

Creating the PTAGIS Bull Trout Complete Tag History report:

- *Tag list #1:* Static Tag list for
- *Event Date:* Between 1/1/2018 and 10/1/2018
- *Event Sites:* IR1, IR2, IR3, IR4, IR5, IML, IMNAHW, COC, BSC, IMNAHR
- *Mark Species:* Bull Trout
- *Event Type:* Observation, Recapture, Recovery

Unique PIT-tag observations and detection efficiency

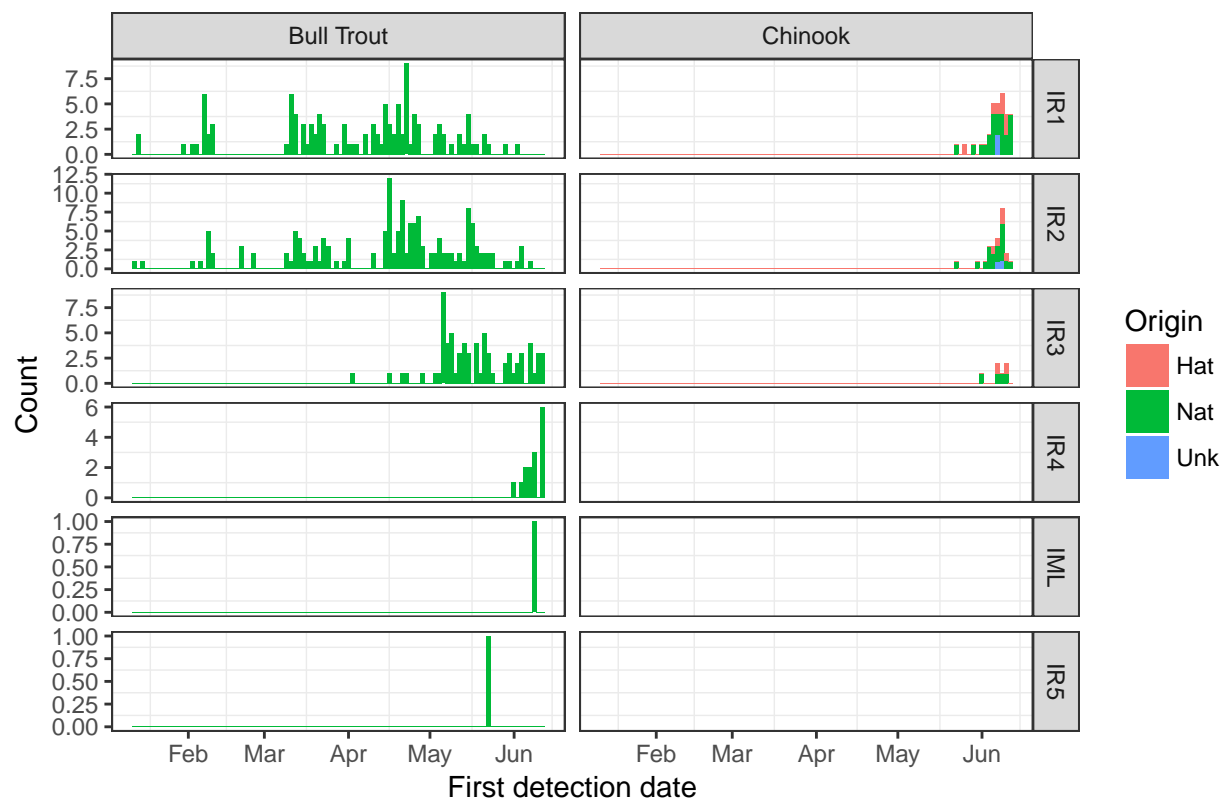
Mark.Species	Node	Unique_tags	Marks	Recaps	det_eff	N_tags	Conversion
Bull Trout	IR1	114	167	109	0.65	174.7	NA
Bull Trout	IR2	158	78	69	0.88	178.6	1.02

Mark.Species	Node	Unique_tags	Marks	Recaps	det_eff	N_tags	Conversion
Bull Trout	IR3B0	47	52	21	0.4	116.4	0.65
Bull Trout	IR3A0	42	16	6	0.38	112	0.96
Bull Trout	IR4B0	5	16	5	0.31	16	0.14
Bull Trout	IR4A0	15	1	0	0	Inf	Inf
Bull Trout	IMLB0	1	0	0	NA	NA	NA
Bull Trout	IR5B0	1	1	1	1	1	0
Bull Trout	IR5A0	1	0	0	NA	NA	NA
Chinook	IR1	31	25	25	1	31	NA
Chinook	IR2	24	6	5	0.83	28.8	0.93
Chinook	IR3B0	6	3	3	1	6	0.21
Chinook	IR3A0	3	0	0	NA	NA	NA

Node	n_tags_node	n_tags_tot	obsEff	obsEff_se
IR1	114	173	0.66	0.04
IR2	158	168	0.94	0.02
IR3B0	47	79	0.59	0.06
IR3A0	42	79	0.53	0.06
IR4B0	5	17	0.29	0.11
IR4A0	15	17	0.88	0.08
IR5B0	1	1	1	0
IR5A0	1	1	1	0
IR1	31	31	1	0
IR2	24	25	0.96	0.04
IR3B0	6	6	1	0
IR3A0	3	6	0.5	0.2
IR4B0	0	0	NA	NA
IR4A0	0	0	NA	NA
IR5B0	0	0	NA	NA
IR5A0	0	0	NA	NA

Unique Tag counts

Figure X. Counts of unique PIT tags



Travel time between sites.

Number of days spent at a site.

