**Reviewer: 1**

Table 2: Define in caption what percentages are being presented at the bottom of the table.

*Added language*

**Associate Editor**

No abstract was present in the revision that I received.

*It was cut and pasted during the submittal process. Strange.*

Line 7. rkm should probably be defined here on first use

*Definition added*

line 38. of = that?

*Changed*

Line 41. Should migrations be singular, as in ‘migration success’?

*Corrected*

Line 53. I’m not sure I’m convinced that the preceding text has established increasing overshooting in the Columbia, though it is clearly a more common behavior.

*Language has been changed.*

Line 84. Add a comma after rivers. As written, it suggests PRD was constructed in 2003.

*Added*

Line 89, 414. proportion = percentage.

*Changed twice*

Line 91. “steelhead dam count” is an awkward way to say “count of steelhead at the dam”.

*Language changed*

Line 111. Provide rkms for Chief Joseph and Wanapum dams, for consistency.

*Added*

Line 161. Please provide rationale for why transition probabilities were different for the two groups of fish.

*Added*

Kevin I am guess differential harvest rates and or possibly difference in migration timing?

Line 166. Twice or potentially more times, correct?

*Correct. Added language.*

Line 177, 328. Priest Rapids Dam = PRD.

*Changed x 2*.

Line 317. provide = provided.

*Changed*

Line 320. Percentage… was. Match verb.

*Changed*

Line 322. This bit about fishery impacts should perhaps be in methods rather than here.

*Method section was expanded and removed from results.*

Line 325. Mortality… was. Match verb.

*Changed*

Line 331. If the second largest percentage was at the most upstream site, does this mean detection efficiency was poor at the dams in between? Does this affect the analysis of how many dams were passed?

*See methods line 232-233. We grouped PIT tagged fish by the furthest upstream dam they were detected. So most fish only went over one dam (52%) or five dams (20%). This was an observed behavior, not an issue with detection efficiency.*

Line 338. crosses = crossed or passed.

*Changed to passed*

Line 380. Extra (in citation.

*Deleted*

Line 477. A little confusing. Does “only installed” mean only operated one year or “first installed”?

*Changed to first installed*

Line 481. greatest = highest. Twice in the sentence.

*Changed to largest twice.*

Line 495. This paragraph is difficult to follow. The topic sentence does not capture the overall content very well and there is a lot of jargony terminology throughout. Please ensure the message is as intended.

*Language has been revised.*

Line 514. This is the only use of the term “hydrosystem” except in references. Please define.

*Language changed*

Line 531. Insert “past” after downstream.

*Inserted*

Table 2 caption. I don’t recall any description of how detection probability was estimated for these locations. Please clarify here or in the methods.

*Added to the caption that detection probabilities were estimated from the patch occupancy model. In addition, line 193-194 states that the detection probabilities were estimated from the POM.*