From: Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov>

Sent: Wednesday, April 24, 2019 8:55 AM

**To:** Steve Zeug

**Cc:** barbara.byrne@noaa.gov; Gregg.Ellis@icf.com

**Subject:** Fwd: salvage density model question

Hi Steve --

Please see the question that Barb forwarded to me, below. Can you answer this for us?

Thanks! Cathy

## **Cathy Marcinkevage**

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## Begin forwarded message:

**Date:** April 23, 2019 at 5:16:06 PM PDT

In the Salvage Density analysis file, the fall-run, late fall-run, and spring-run workbooks have "nonnormalized" in the filename, while the winter-run workbook says "normalized".

There seems to be escapement data in all files, but haven't chased down all the formulas to try to figure out what is being used or not. Do either of you know whether the annual summaries by water year type (see, e.g. the table in cells N30:T38 on the "W Tables" tab of the winterrun file) are different for winter-run than for the other Chinook runs?

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## **Barb Byrne**

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