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**From:** Ann Marie Osterback - NOAA Affiliate <annmarie.osterback@noaa.gov>  
**Sent:** Wednesday, May 22, 2019 9:59 AM  
**To:** Eric Danner - NOAA Federal  
**Subject:** Re: Winter-run Life Cycle Model results question

Hey Eric,

Yes, you are correct-- the WRLCM CRR includes age structure.

Ann-Marie

On Wed, May 22, 2019 at 9:21 AM Eric Danner - NOAA Federal <[eric.danner@noaa.gov](mailto:eric.danner@noaa.gov)> wrote:  
Ann-Marie - I think the answer is yes, but wanted to double check with you first.

----- Forwarded message -----

**From:** **Brian Ellrott - NOAA Federal** <[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)>  
**Date:** Wed, May 22, 2019 at 9:16 AM  
**Subject:** Winter-run Life Cycle Model results question  
**To:** Eric Danner - NOAA Federal <[eric.danner@noaa.gov](mailto:eric.danner@noaa.gov)>

Does the model provide true cohort replacement rate (i.e., with age structure) or just assume all fish return as 3 year olds?

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