From: Garwin Yip - NOAA Federal <garwin.yip@noaa.gov>

Sent: Thursday, May 30, 2019 3:16 AM

To: Barbara Byrne Cc: j.stuart@noaa.gov

Subject: What does "population" mean?

I was talking to Brian this afternoon about one of Reclamation's comments on the WR I&S section. Specifically population is typically used for the entire species, so for WR, that would be the combination of 3 cohorts. So, when we say that a PA component would affect 100% of the population, it should be 100% of each cohort or life stage.

That got me thinking about the population context that we use for the course screening of loss at the pumps. We should be explicit in the context that we are using, and to clarify that the population of juveniles that we are using (e.g., Nobriga and Cadret) are indeed from a single cohort.

-Garwin-

Garwin Yip

Water Operations and Delta Consultations Branch Chief NOAA Fisheries West Coast Region U.S. Department of Commerce California Central Valley Office 650 Capitol Mall, Suite 5-100 Sacramento, CA 95814

Office: 916-930-3611 Cell: 916-716-6558 FAX: 916-930-3629

www.westcoast.fisheries.noaa.gov

