

In progress draft dated June 2, 2010				
<b>#2 Objective for Winter-run Chinook Salmon - Adult Survival</b>				
<b>Global Goal: Winter- run Chinook salmon will see substantial increases in their 1) abundance, 2) spatial distribution, 3) life history diversity, and 4) population productivity.</b>				
<b>NMFS Recovery Plan Overarching Goal: Increase Productivity of the Sacramento River winter-run Chinook salmon ESU, DPS to support its removal from the Federal List of Endangered and Threatened Wildlife (50 C.F.R. 17.11).</b>				
<p><b>Global Objective (NMFS Population Diversity):</b> In general, viable populations should demonstrate a combination of population growth rate and abundance that produces an acceptable probability of population persistence. Specifically, viable populations should meet the low extinction risk levels for the population decline and population size criteria described in Table 4-1. (See NMFS Draft Recovery Plan for further details). Preliminary estimates of abundance goals by NMFS are: 1. Attainment of the winter-run Chinook salmon global abundance goal will occur by 2060 with achievement of 6-year geometric mean escapement levels of: 20,000 in the mainstem Sacramento River with no year below 5,000; 3,000 in the Battle Creek watershed with no year below 500; and 500 in a third dependent population with no year below 200.</p> <p><b>Preliminary estimates of abundance goals by NMFS are:</b> 1. Attainment of the winter-run Chinook salmon global abundance goal will occur by 2060 with achievement of 6-year geometric mean escapement levels of: 20,000 in the mainstem Sacramento River with no year below 5,000; 3,000 in the Battle Creek watershed with no year below 500; and 500 in a third dependent population with no year below 200.</p>				
<b>BDCP Species Goal</b>	Increase the proportion of each run of <b>adult</b> winter-run Chinook salmon that migrate successfully through the Delta to upstream spawning habitats.			
<b>BDCP Objectives:</b> <i>Note that blank ( ) variables need additional input on appropriate percentages, measurement, and methodologies intervals for the objectives.</i>	Increase immigration survival of adult winter run chinook salmon by __% within 20 years of permit issuance. Maintain passage improvements thereafter.			
<b>Stressors/Limiting Factors:</b> <i>Note: Stressors summarized from NMFS stressor matrix on 6th tab bottom right. Order reflects relative importance.</i>	1) Flow conditions.	2) Short term inwater construction.	3) Passage impediments/barriers.	4) Harvest/ angling impacts.
<b>Sub-objectives:</b> <i>Intended to address highest priority stressors.</i>	1) Maintain through Delta attraction flow conditions for adult winter run salmon in normal, AN, and wet year types and improve through delta attraction flow conditions (by what units?) for adult winter run salmon in BN, dry and CD water years, on 5 water year running average basis, normalized by water year type.	2) Implement construction related BMPs.	3) Improve fish passage through Yolo Bypass by __ % within 10 years of permit issuance.	4) Reduce illegal harvest of adult winter run chinook salmon by __% within __ years of permit issuance. Maintain this reduced illegal harvest rate throughout the permit period.
<b>Conservation Measures:</b> <i>Note new numbers.</i>	CM3: Illegal harvest. CM1. North Delta Diversion with Hood Bypass criteria and other measures; CM14. Fremont Wier/Yolo Bypass Habitat Improvements.			
<b>Expected Outcome:</b>				
<b>Metric:</b>				