

# PS Rec Advisor Meeting

August 20, 2021



# Meeting Agenda

- MA-10
  - Dockside vs Test Fishing Estimates
- Additional Questions / Concerns



# Estimate Methodology

- Two methods used to calculate the harvest / encounters estimates
  - Dockside sampling
  - Test fishing and/or STRs
- The method used is determined by the proportion of legal-sized and marked encounters
- This is based on the sample size of test fishing data



# Estimate Methodology

- If the coefficient of variation (CV) of that proportion is  $> 20\%$ , dockside sampling data is used
  - This tends to occur early in the season when sample size is low
- If the coefficient of variation (CV) of that proportion is  $\leq 20\%$ , test fishing data is used
  - This tends to occur later in the season when sample size is high

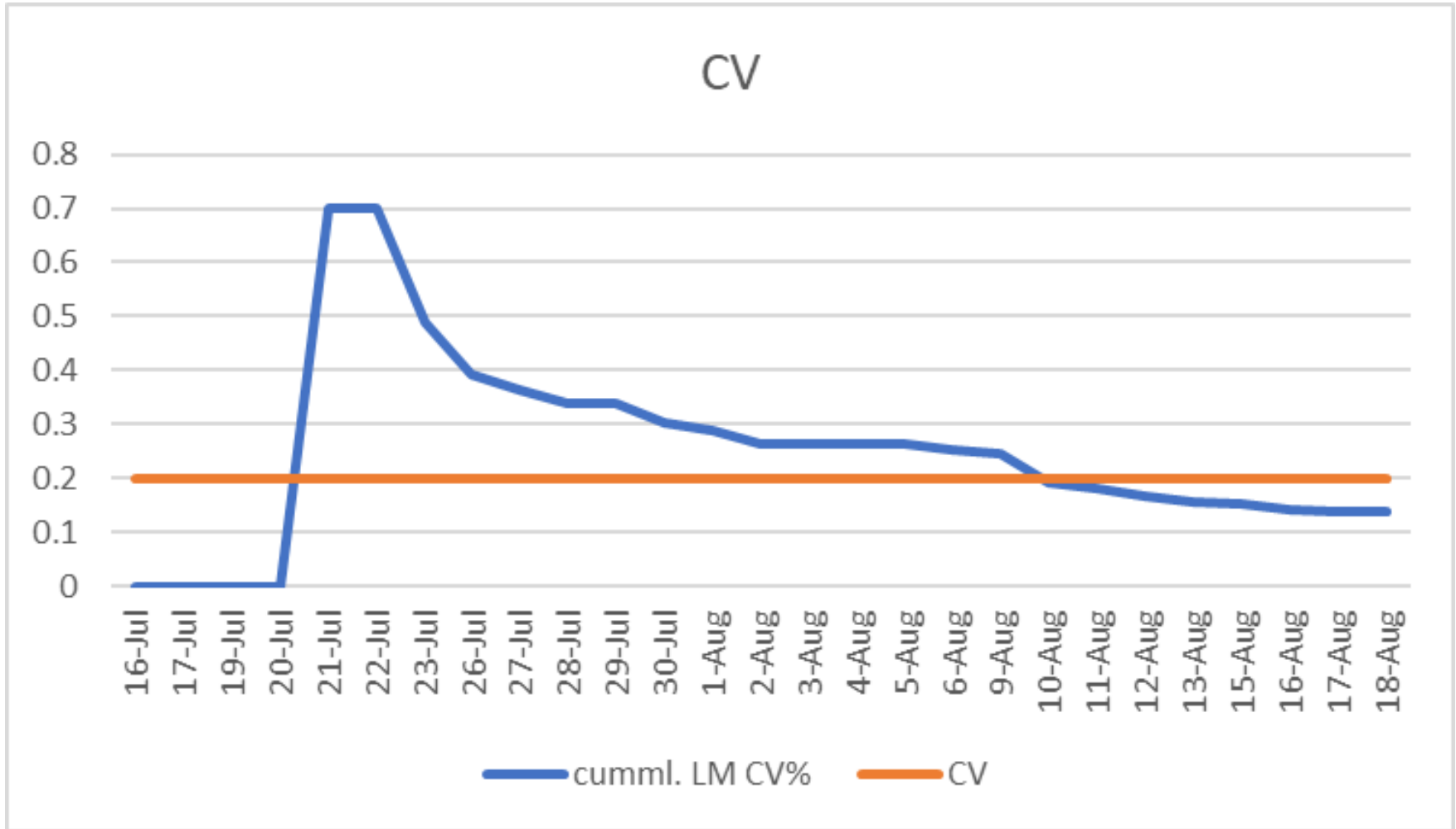


# This Past Week

- Due to an influx of larger fish into MA-10 this past week, the number of legal-sized marked fish increased in the test fishing data
- This increase in the sample size caused the CV of the proportion of legal sized marked fish to drop below 20%



# CV - 2021



# Encounters - Dockside

**Number Chinook Encounters by Size and Mark Status sampled and reported dockside**

Data Description	Chinook Encounters by Size/Mark Status <sup>1/</sup>					Legal-size Mark	Overall Mark Rate
	LM	LU	SM	SU	Total		
<b>Kept</b>	966	6	69	17	<b>1058</b>	99.4%	97.8%
<b>Released</b>	33	319	619	335	<b>1306</b>	9.4%	49.9%
<b>Total</b>	999	325	688	352	<b>2364</b>	75.5%	71.4%
<b>Encounter Rates</b>	42.3%	13.7%	29.1%	14.9%	100.0%		
<b>Bias-corrected</b>	37.6%	13.7%	29.1%	19.5%	100.0%		

<sup>1/</sup> LM=Legal size (22 inches total length and larger) and marked; LU=Legal size and unmarked; SM=Sublegal size and marked; SU=Sublegal size and unmarked.

<sup>2/</sup> Conrad, R., T. Garber, and G. Rose. 2020. Draft memo to the co-managers "Assessment of Two Methods for Estimating the Composition of Chinook Encounters Early in the Fishing Season."



# Encounters – Test Fishing

Area 10 Selective Chinook Fishery, July 16 - August 31, 2021							
Number Chinook Encounters by Size and Mark Status in the Test Fishery							
Month	Statistical Week	AREA 10 Chinook Encounters					
		LEGAL <sup>a/</sup>			SUB LEGAL <sup>a/</sup>		
		Mark	Unmark	Total	Mark	Unmark	Total
JUL	29	0	3	3	20	7	27
	30	4	1	5	19	7	26
	31	7	5	12	29	9	38
<b>JUL TOTAL</b>		<b>11</b>	<b>9</b>	<b>20</b>	<b>68</b>	<b>23</b>	<b>91</b>
<b>Percent</b>		<b>10%</b>	<b>8%</b>		<b>61%</b>	<b>21%</b>	
Aug	32	3	2	5	15	3	18
	33	21	2	23	25	9	34
	34	6	1	7	7	0	7
	35			0			0
	36			0			0
<b>AUG TOTAL</b>		<b>30</b>	<b>5</b>	<b>35</b>	<b>47</b>	<b>12</b>	<b>59</b>
<b>Percent</b>		<b>32%</b>	<b>5%</b>		<b>50%</b>	<b>13%</b>	
<b>GRAND TOTAL</b>		<b>41</b>	<b>14</b>	<b>55</b>	<b>115</b>	<b>35</b>	<b>150</b>
<b>Percent</b>		<b>20%</b>	<b>7%</b>		<b>56%</b>	<b>17%</b>	
<b>CV</b>		<b>14.0%</b>					

<sup>a/</sup> Legal-size Chinook were 22 inches and larger in total length, while sublegal-size Chinook were less than 22 inches total length.





# MA-10 - Dockside

\* Through 8/8/21

Marine Area	Retained / Legal Chinook Harvest		Sublegal Encounters		Unmarked Encounters	
10	Harvest Estimate	<b>1,371</b>	Estimate	<b>2,796</b>	Estimate	1,665
	Harvest Quota	<b>3,718</b>	Encounter Limit	<b>6,592</b>	Encounter Limit	2,586
	Percent of Harvest Quota	<b>37%*</b>	Percent of Encounter Limit	<b>42%*</b>	Percent of Encounter Limit	64%

- Last week's updates via Dockside Sampling



# MA-10 - Dockside

\* Through 8/15/21

Marine Area	Retained / Legal Chinook Harvest		Sublegal Encounters		Unmarked Encounters	
10	Harvest Estimate	<b>2,559</b>	Estimate	<b>3,902</b>	Estimate	1,665
	Harvest Quota	<b>3,718</b>	Encounter Limit	<b>6,592</b>	Encounter Limit	2,586
	Percent of Harvest Quota	<b>69% *</b>	Percent of Encounter Limit	<b>59% *</b>	Percent of Encounter Limit	64%

- This week's updates via Dockside Sampling



# MA-10 – Test Fishing

\* Through 8/15/21

Marine Area	Retained / Legal Chinook Harvest		Sublegal Encounters		Unmarked Encounters	
10	Harvest Estimate	<b>1,371</b>	Estimate	<b>10,509</b>	Estimate	1,665
	Harvest Quota	<b>3,718</b>	Encounter Limit	<b>6,592</b>	Encounter Limit	2,586
	Percent of Harvest Quota	<b>37%*</b>	Percent of Encounter Limit	<b>159%*</b>	Percent of Encounter Limit	64%

- This week's updates via Test Fishing
- Based on agreed methodology with co-managers, the drop in CV of test fishing data necessitated the switch to estimates based on test fishing

\* Denotes management control(s)



# Questions/Comments?

