

Salmon Monitoring Team (SaMT) Weekly Meeting
Conference call: 5/19/20 at 9:00 a.m.

Executive Summary:

- The Assessment analyzed Old and Middle River (OMR) flows ranging from -1,000 cfs to -1,500 cfs during the period 5/19/20 to 5/25/20.
- No Delta performance measures have been exceeded.
 - The Delta Performance threshold with the highest potential for exceedance is the 50% of single year natural steelhead loss threshold for the period of April 1 through June 15.
 - Preliminary estimate indicates that current (through 5/18/20) steelhead loss (321 fish) is approximately 41% of the threshold (776 fish) set between April 1 and June 15.
- SaMT did not have any recommendations or advice for Water Operations Management Team (WOMT) to change Delta Operations.

Objective: Provide information to the WOMT, the U.S. Bureau of Reclamation (Reclamation) and California Department of Water Resources (DWR) on measures to reduce adverse effects from Delta operations of the Central Valley Project (CVP) and the State Water Project (SWP) on salmonids and green sturgeon. SaMT notes and other meeting materials (e.g., weekly outlook and assessment) will be accessible on [Reclamation's web page](#).

- **California Department of Fish and Wildlife (CDFW):** Adam Chorazyczewski, Kristal Davis-Fadtke, Kyle Griffiths, Sheena Holley, Ken Kundargi, Duane Linander, Jessica Jimenez, Jason Julienne, Paige Uttley, Johnathan Williams
- **DWR:** Chris Cook, Brittany Davis, Bryant Giorgi, Tracy Pettit, Kevin Reece, Marcia Scavone, Mike Ford
- **Kearns & West:** Matt Marvin
- **National Marine Fisheries Service (NMFS):** Kristin Begun, Jeff Stuart
- **Reclamation:** Towns Burgess, Elissa Buttermore, Suzanne Manugian, Tom Patton
- **State Water Resources Control Board (SWRCB):** Erin Foresman, Michael Macon, Stanley Mubako, Alessia Sclari, Craig Williams, Chris Carr
- **US Fish and Wildlife Service (USFWS):** Geoff Steinhart, Katherine Sun

Agenda Items:

1. Introductions
Purpose: Provide an accurate record of who is attending these calls.
2. Relevant Actions and Triggers
Purpose: Review of relevant actions and triggers status and discuss any changes.
3. Outlook, Current Operations, and Weather Forecast
Purpose: Review operations and weather sections on Weekly Outlook. Discuss Delta operations to consider context for evaluating Assessment questions about Delta operation effects.

4. Review of Environmental Data
Purpose: Review environmental data to consider context for evaluating Assessment questions about Delta operations effects.
5. Fish Abundance and Distribution
Purpose: Review fish monitoring data to inform fish distribution estimates, fish exposure, and behaviour cues that is part of the next section.
 - a. Hatchery Releases
 - b. Historical Fish Monitoring Data
 - c. Fish Monitoring: RSTs/trawls/seines
 - d. Fish Monitoring: Salvage
 - e. Migration Status: Estimates of Fish Distribution
6. Fish Exposure and Behavioural Cues
Purpose: Assist in assessing entrainment risk of Delta operations on salmonids and sturgeon. Complete Evaluation section questions of the Assessment. Review draft Assessment.
 - a. Historical Patterns (Comparison of abundance, timing, and loss to prior years)
 - b. Current Conditions (DSM2, Entrainment Models)
 - c. Sensitivity to Operational Actions - review Assessment document
7. Other Topics
Purpose: Identify additional topics that are not in the regular agenda.
8. Additional Considerations for WOMT
Purpose: Highlight information that SaMT would like WOMT to consider related to changes to Delta water operations.
9. Next SaMT Meeting

Agenda Item 2.

Relevant Actions and Triggers Review

Delta Cross Channel (DCC) Gate Operations

- DCC gates are currently closed per operations described in the SWRCB's D-1641, and Reclamation's Proposed Action section 4.10.5.3 and are expected to remain closed until 5/22/20.
- DCC gates will be opened 5/22/20 for 4 days over the Memorial Day weekend and then closed on 5/26/20. Gates will then be cycled opened and closed for weekend openings until 6/15/20.

OMR Flow Management

- Implementation of this action in water year (WY) 2020 began on 1/1/20 under the 2009 NMFS Long Term Operations (LTO) biological opinion and was superseded by Reclamation's Proposed Action section 4.10.5.10 (OMR Management) on 2/18/20

following the signing of the Record of Decision, and requires that OMR flow be no more negative than -5,000 cfs. OMR flows are reported weekly with the OMR index and the tidally filtered U.S. Geological Survey (USGS) gauges at the daily, 5-day and 14-day running averages.

- On 5/11/20, a preliminary injunction required the CVP to operate to the San Joaquin River inflow to export (I:E) ratio of 2:1 required in the 2009 NMFS Biological Opinion reasonable and prudent alternative action IV.2.1 for a dry water year type.
- On 3/27/20, NMFS provided a revised winter-run Chinook salmon juvenile production estimate (JPE) letter ([Revised JPE letter](#)) to Reclamation reflecting updated hatchery information. The revised JPE letter provides the Reclamation with the revised JPE and incidental take limit (ITL) for hatchery origin juvenile Sacramento River winter-run Chinook salmon for WY 2020 based on the estimated number of hatchery fish released.
 - The revised incidental take for juveniles released from Livingston Stone National Fish Hatchery into the Sacramento River is **923 hatchery-produced (adipose fin clipped)** winter-run Chinook salmon.
 - The revised incidental take of juveniles released into Battle Creek is **622 hatchery produced (adipose fin clipped and left ventral fin clipped)** winter-run Chinook salmon.
- Refer to the weekly operations and fish outlook for more triggers relevant to the CDFW Incidental Take Permit (ITP) and the 2019 ROC Proposed Action (see Agenda Item 3).
- DWR's ITP was signed on 3/31/20 and can be found online here: [Incidental Take Permit for Long Term Operations of the State Water Project](#)

Agenda Item 3.

Weekly Fish and Water Operations Outlook.

SaMT reviewed the Outlook document. The Outlook document will be posted to the [WOMT web page](#).

Operations

Operations Category	Location	Operations on 5/12/20	Operations on 5/19/20
Clifton Court Inflow	Clifton Court Forebay	600 cfs and will hold through 5/17/20 or 5/18/20, at which time an outage will occur at the Banks facility for annual maintenance, which will last no longer than 5/23/20. Water may be taken into Clifton Court Forebay during the maintenance period but will not be exported.	600 cfs continuing through end of May. Banks and Skinner offline from evening of 5/17/20 through evening of 5/23/20 (6 – 7 days).
SWP Reservoir Releases	Feather – Oroville	Increased on 5/11/20 from 1,550 cfs to 2,050 cfs and will likely hold for the immediate future. Potential increases in releases for Delta water quality over the coming weeks.	2,050 cfs. Releases will potentially decrease this week.
SWP Reservoir Storage	San Luis (SWP)	934 TAF	928 TAF
SWP Reservoir Storage	Oroville	2,454 TAF	2,438 TAF
Environmental Parameters	Sacramento River at Freeport	8,260 cfs. May increase to 9,000 cfs – 10,000 cfs over coming days.	12,600 cfs
Environmental Parameters	San Joaquin River at Vernalis	1,730 cfs, may increase by upwards of 200 cfs to meet water quality requirements.	1,720 cfs
Environmental Parameters	Delta Outflow Index	6,900 cfs, will likely increase over coming days	11,800 cfs
Environmental Parameters	E:I (14-day)	13% (14-day avg.)	8% (14-day average)

Operations Category	Location	Operations on 5/12/20	Operations on 5/19/20
Environmental Parameters	X2	>81 km	> 81 km but close to 81 so potential to move with tides
CVP Exports	Jones Pumping Plant	1,000 cfs and scheduled to reduce to 900 cfs on 5/12/20 at 1700 hours to comply with Court issued Preliminary Injunction. Exports will comply with the 2:1 I:E ratio through the end of May.	900 cfs and holding.
CVP Reservoir Releases	American – Nimbus	1,250 cfs, ramping up to 1,750 cfs on 5/13/20	1,750 cfs. Scheduled to decrease to 1,500 cfs on 5/19/20 and then to 1,250 cfs on 5/20/20. Hold at 1,250 cfs for immediate future
CVP Reservoir Releases	Sacramento – Keswick	9,500 cfs and holding	8,500 cfs. Scheduled to drop to 8,250 cfs on 5/20/20, 8,000 cfs on 5/21/20. Will hold at 8,000 cfs for immediate future
CVP Reservoir Releases	Stanislaus - Goodwin	1,000 cfs currently. Potential for small increases should Vernalis flows decrease	1,500 cfs ramped up for Vernalis flows last week. Will hold for immediate future
CVP Reservoir Releases	Trinity - Lewiston	1,100 cfs, continuing with pulse flow	1,000 cfs. Pulse flow continuing
CVP Reservoir Storage	San Luis (CVP)	514 TAF and decreasing storage	481 TAF and decreasing storage
CVP Reservoir Storage	Shasta	3,600 TAF and decreasing storage	3,578 TAF and decreasing (after a small increase from storm last week)

Operations Category	Location	Operations on 5/12/20	Operations on 5/19/20
CVP Reservoir Storage	Folsom	734 TAF and increasing storage	750 TAF and increasing storage
CVP Reservoir Storage	New Melones	1,892 TAF and decreasing storage	1,876 TAF and decreasing storage
CVP	DCC Gates	Closed (Scheduled to open on the Friday before Memorial Day weekend (5/22/20) and remain open for the 3-day weekend, then close). Anticipate gates will be open on weekends through 6/15/20.	Closed. Opening 5/22/20 for Memorial Day weekend. Weekend openings through 6/15/20.

cfs = cubic feet per second

MAF = million acre feet

TAF = thousand acre feet

km = kilometer

Location of X2 measured from the Golden Gate

Factors controlling Delta exports: Controlling factors include Delta water quality criteria that may limit exports [i.e., Emmaton electrical conductivity (EC), Delta outflow, Collinsville EC]. Preliminary injunction (2009 NMFS BiOp) is the controlling regulatory factor for the CVP and DWR's ITP is the controlling factor for SWP limiting combined exports to 1,500 cfs through the end of May (health and safety) due to 2:1 San Joaquin I:E ratio.

Agenda Item 4.

Review of Environmental Data

OMR Index and USGS Tidally Filtered Values are displayed on SacPAS.

http://www.cbr.washington.edu/sacramento/data/delta_loss.html

Approximate OMR gauge data as of 5/15/20

	USGS gauges (cfs)	Index (cfs)
Daily	+100 cfs	-1,200 cfs
5-day	-500 cfs	-1,200 cfs
14-day	-1,200 cfs	-1,200 cfs

Approximate OMRs as of 5/18/20:

	Index (cfs)
Daily	-600 cfs
5-day	-1,000 cfs
14-day	-1,100 cfs

Agenda Item 5.

Fish Abundance and Distribution

Hatchery Releases

On 5/13/20, CDFW released approximately 175,000 brood year 2019 fall-run Chinook salmon from Mokelumne River Fish Hatchery into the Monterey Bay at the Santa Cruz Wharf. This release included 90% adipose fin clip and Coded Wire Tagged (CWT) fish.

On 5/14/20, CDFW released approximately 485,000 brood year 2019 fall-run Chinook salmon from Mokelumne River Fish Hatchery into the San Francisco Bay at Fort Baker. This release included 25% adipose fin clip and CWT fish.

On 5/19/20, CDFW released approximately 450,000 brood year 2019 fall-run Chinook salmon from Mokelumne River Fish Hatchery into San Joaquin River at the Sherman Island Net Pen site. This release included 25% adipose fin clip and CWT fish.

On 5/20/20, CDFW released approximately 160,000 brood year 2019 fall-run Chinook salmon from Mokelumne River Fish Hatchery into Monterey Bay at the Monterey Municipal Wharf. This release included 100% adipose fin clip and CWT fish.

Fish Monitoring

Historical Fish Monitoring Data

Table 1. Average percent of annual emigrating population for each species of interest (based on LAD) captured at the following locations by 5/17 for the years 2005 to 2018. [SacPAS Migration Timing Website](#)

Species	Red Bluff Diversion Dam	Tisdale RST	Knights Landing RST	Sac Trawl (Sherwood)	Chippis Island Trawl	Average Percent Salvaged at SWP and CVP Delta Facilities
Winter-run Chinook salmon	100%	100%	100%	100%	99.9%	99.9%
Spring-run Chinook salmon	99.4%	100%	100%	100%	98.8%	90.6%
Steelhead	18.2%	91.7%	93.2%	98.4%	97.7%	89.8%

Current Fish Monitoring Data

Fish monitoring data summarized over the past week are found on Bay Delta Live. Unless otherwise noted, reported races are based on fork length (LAD).

Location	Feather River RST Eye Channel ^A	Feather River RST Herring ^B	GCID RST ^C	Tisdale RST ^D	Knights Landing RST ^E	LAR RST ^G	Sacramento Trawls ^F	Caswell	Chippis Island Midwater Trawl ^F
Sample Dates	5/11/20-5/17/20	5/11/20-5/17/20	5/14/20-5/18/20	5/11/20-5/17/20	5/11/20-5/18/20	5/12/20-5/14/20	5/10/20-5/12/20, 5/14/20-5/15/20	5/12/20-5/14/20	5/10/20-5/12/20, 5/14/20-5/15/20
Chinook						24 VIE		10 juveniles	
FR Chinook	2,325	223	944 juv	3	1	353	12		563**
SR Chinook			10 juv, 10 smolt				1		71
WR Chinook									
LFR Chinook	13								
Chinook (ad-clip)							2		180
Steelhead (natural)	9		4			5 fry		1 smolt	1
Steelhead (ad-clip)									
Green Sturgeon									
Flows (avg. cfs)	650	2,004.8	1,296	8,431.5	7,426.1				
W. Temp. (avg. °F)	56.3	60.8	59.0	61.7	63.2				
Turbidity (avg. NTU)	1.4	2.4	9.9	5.8	8.0				

^A Feather River RST data from Eye Side Channel sampling period was from 5/11/20 at 9:38 to 5/17/20 at 11:09.

^B Feather River RST data at Herring sampling period was from 5/11/20 at 13:25 to 5/17/20 at 9:40. Note both cones were clogged with debris within the sampling period of 5/11/20 at 13:25 and 5/12/20 at 10:40.

^C GCID RST sampling period was from 5/14/20 to 5/18/20. 5/10/20 RST cone raised due to permit payment processing, 5/13/20 RST cone lowered. RST operating at half cone.

^D Tisdale RST sampling period was from 5/11/20 at 9:45 to 5/17/20 at 9:15. RST operating at full cone.

^E Knights Landing RST sampling period was from 5/11/20 at 10:45 to 5/18/20 at 10:15. RST operating at half cone.

^F DatCall sampling data period was from 5/10/20 to 5/16/20.

^G Lower American River RST sampling period was from 5/12/20 to 5/14/20.

^H Caswell RST sampling period was from 5/12/20 to 5/14/20.

** Large fall-run Chinook salmon catch at Chipps Island Trawl occurred on the same day hatchery fall-run Chinook salmon were released from the Sherman Island net pens – heavy influence from Mokelumne. River Hatchery releases (from last week's notices).

Fish Monitoring Gear Efficiency/Disruptions: COVID-19 impacts.

Monitoring Survey	Status (5/19/20, new edits in green)
Delta	
SWP regular counts, CWT reading, and larval sampling	Ongoing through modified staffing
CVP regular counts, CWT reading, and larval sampling	Ongoing through modified staffing.
Smelt Larval Survey	Suspended temporarily. Completed data analysis ongoing.
20mm Survey	Starting 4/13/20, modified (prioritizing South/Central Delta). Starting on 5/11/20, increased to predominantly an entire survey with 44 of 47 stations representing all strata.
Bay Study	Suspended temporarily
DJFMP - Chipps and Sacrament Trawls	Occurring
DJFMP- Seines	Suspended since 3/17/20
EDSM	Occurring
EMP Continuous	Occurring
EMP Discrete	Suspended temporarily
Mossdale	Suspended since 3/16/20
USGS Flow monitoring	Occurring
Sacramento River	
Acoustic tagging - Battle Creek "Jumpstart" hatchery winter run Chinook	Tagged ~ 250 fish
Acoustic tagging - Offsite Release study of fall run Chinook	Postponed until 2021
Acoustic tagging - Spring run Chinook	CDFW taking on tagging in Butte (14 tagged 5/15/20, 9 tagged 5/18/20) – as fish come into trap and as staff are available
Acoustic tagging - Pulse Flow experiment	One group will be tagged the week of 5/11/20, with future groups possible if pulse flow occurs, or there is interest in late May survival with no Sacramento River pulse
Red Bluff Diversion Dam screw trap	Suspended on 3/26/20 until further notice
Knights Landing screw trap	Ongoing through modified staffing
Tisdale screw trap	Ongoing through modified staffing
Redd dewatering and stranding surveys	Suspended March and April of 2020. Resumed May 2020
Sacramento Carcass and Redd Surveys	Carcass surveys continuing. Redd surveys suspended March and April but resumed and partially in May 2020 Aerial surveys likely to occur this week.
San Joaquin River	
SJRRP CDFW and USFWS Field Monitoring	On hold until further notice
SJRRP USBR Field Monitoring	Ongoing with modified staffing
San Joaquin River Steelhead (Mokelumne Hatchery) acoustic tagging	Cancelled

Green Sturgeon

A juvenile green sturgeon was tagged at Sherman Lake on 5/14/20. Two juvenile green sturgeon were detected on 5/14/20 on the Sacramento River north of Sherman Lake.

DOSS Weekly Salvage Update

Reporting Period: May 11-May 17, 2020

Prepared by Kyle Griffiths on May 18, 2020 16:13

Preliminary Results -Subject to Revision

Criteria	11-May	12-May	13-May	14-May	15-May	16-May	17-May	Trend	
Loss Densities									
Wild older juvenile CS	0	0	0	0	0	0	0	→	0.00
Wild steelhead	0	0	0	0	0	0	0	↘	0.00
Exports									
SWP daily export	1,418	1,415	1,408	1,220	1,459	2,266	731	→	1,417
CVP daily export	1,960	1,893	1,776	1,770	1,770	1,765	1,790	↘	1,818
SWP reduced counts	0	0	0	0	0	0	0		
CVP reduced counts	0	0	0	0	0	0	0		

Loss Density = fish lost/TAF; water export = AF; Trend = compared to previous week; wild = adipose fin present

Loss = estimated number of fish lost at the CVP and SWP Delta export facilities based on estimated salvage (see below)

Reduced counts = percentage of time that routine salvage sample time were less than 30 min per 2 hours of salvage and export operations

Yellow highlighted dates indicate TFCF salvage outage occurred

Chinook Salmon Weekly/Season Salvage and Loss

Combined salvage and loss for both CVP and SWP fish facilities

Race determined by size at date of capture; hatchery = adipose fin missing;

Category	Weekly Total			Season Total		Season Total - LAD	
	Salvage	Loss	Trend	Salvage	Loss	Salvage	Loss
Wild							
Winter Run	0	0	→	47	88	107	197
Spring Run	2	9	↘	838	2,456	2261	4164
Late Fall Run	0	0	→	12	8	12	8
Fall Run	21	35	↘	2,365	3,244	882	1428
Unclassified	0	0	→	0	0	0	0
Total	23	43		3,262	5,797	3262	5797
Hatchery							
Winter Run	0	0	↘	18	16	80	94
Spring Run	0	0	↘	1,177	1,595	1048	1473
Late Fall Run	0	0	→	195	153	186	144
Fall Run	0	0	→	49	35	125	88
Unclassified	0	0	→	0	0	0	0
Total	0	0		1,439	1,799	1439	1799

Trend = weekly loss per race; Salvage = estimated number of fish collected by the CVP and SWP fish protective facilities per unit of time

NC = cannot be calculated; hatchery salmon salvage and loss estimates have been corrected using CWT readings when available

Steelhead Weekly/Season Salvage and Loss

Combined salvage and loss for both CVP and SWP fish facilities

Category	Weekly Total			Season Total	
	Salvage	Loss	Trend	Salvage	Loss
Wild	0	0	↘	292	721
Hatchery	0	0	↘	428	659
Total	0	0		720	1,380

State Water Project loss = salvage x 4.33; Central Valley Project loss = salvage x 0.68

- Confirmed loss based on CWT is reported during Agenda Item 3 – the Outlook document.
- Salvage is greater than loss when more salmonids are observed at the CVP than the SWP.
- Additional salvage figures are found in the Assessment (Figures 1-3; pages 18 - 20).
- DNA Results Summary: All Chinook salvaged during this water year that have been analyzed were fall/late fall-run except for 12 winter-run salvaged: on 3/6/20, 3/10/20, 3/16/20, 3/18/20; 3/21/20, 3/24/20, 3/29/20, 3/31/20, 4/21/20, and 4/24/20; and 2 spring-run salvaged on 4/7/20 and 4/20/20.
- SaMT members noted that a portion of fish identified as winter-run Chinook salmon in the Preliminary Genetic Data for CVP/SWP Salvage are at the smaller end of the distribution size range for LAD winter-run Chinook salmon. Additionally, fish initially characterized as spring-run Chinook salmon by LAD were later determined to be winter-run Chinook salmon. This may be outside the typical range from a historical context.
- SaMT members noted that additional loss outside the bounds of salvage report: 1 unclipped SH at CVP 5/18/20. April 1 – June 15 cumulative total: 141 salvage, 321.25 loss, 41.4% of threshold.
- SaMT members suggested considering a workshop this summer to discuss coordinated salmonid genetic monitoring results from different monitoring efforts within the Central Valley.

SaMT Estimates of Fish Distribution

SaMT estimates of the current distribution of listed Chinook salmon, as a percentage of the population, are based on recent monitoring data and historical migration timing patterns.

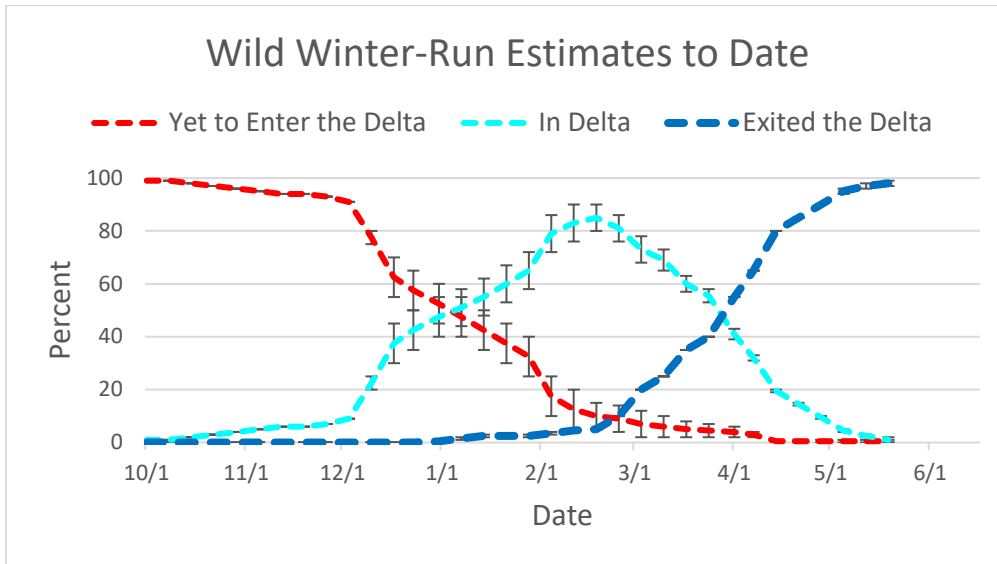
Location	Yet to Enter Delta (Upstream of Knights Landing)	In the Delta	Exited the Delta (Past Chipps Island)
<i>Young-of-year (YOY) winter-run Chinook salmon</i>	0-1% Last week: 0-1%	0-2% Last week: 2-3%	97-99% Last week: 96-98%
<i>YOY spring-run Chinook salmon</i>	0-5% Last week: 5-10%	20-35% Last week: 23-38%	65-75% Last week: 57-62%
<i>YOY hatchery winter-run Chinook salmon</i>	0-1% Last week: 0-1%	0-2% Last week: 4-20%	97-99% Last week: 80-95%
<i>Natural origin steelhead</i>	0-5% Last week: 0-10%	35-55% Last week: 35-55%	50-60% Last week: 45-55%

Rationale for changes in distribution

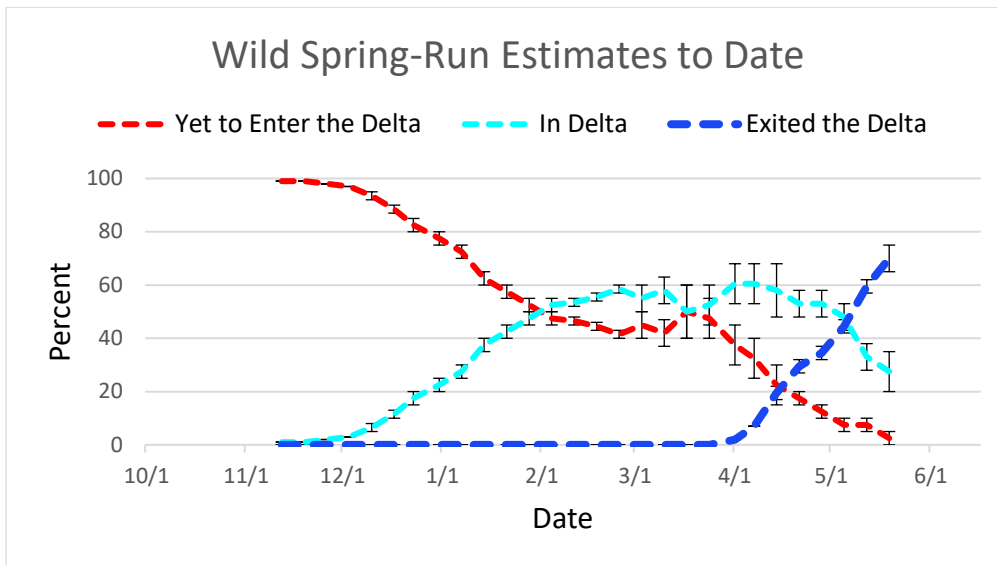
Described in the SaMT’s Assessment document in abundance and distribution sections. A draft Assessment document is sent to SaMT members prior to the weekly call. Final weekly Assessment documents will be posted to the [WOMT web page](#).

Distribution estimate figures

Distribution estimate figures for wild winter-run and spring-run Chinook salmon as discussed during the SaMT meetings.



WY 2020 natural winter-run Chinook salmon distribution



WY 2020 natural spring-run Chinook salmon distribution

Agenda Item 6.
Fish Exposure and Behavioral Cues:

Historical Patterns

Described in the SaMT’s Assessment document in abundance and distribution sections (Figures 3 and 4; Pages 19, 20-21).

Current Conditions

Entrainment into the Interior Delta:

Described in the SaMT’s Assessment document.

DSM2

DSM2 – Results are provided in the Assessment documents weekly on Mondays and Fridays. SaMT reviewed the latest DSM2 results in Attachment A of the Assessment.

Sensitivity to Operational Actions - SaMT Feedback on Entrainment Risk

SaMT was provided a draft Assessment on the previous Friday. Input that was received on Monday was incorporated into the draft Assessment document that SaMT reviewed during the call on Tuesday morning. This week’s Assessment document will be posted to the [WOMT web page](#).

- DCC gates are scheduled to open on May 22. There is an increased potential for delays in migration and extended migration routes for adult Central Valley Spring-run Chinook salmon.

Agenda Item 7.

Other Topics

SaMT discussed [DWR’s ITP](#) categorization for entrainment, exposure, export, and overall risk.

8.1.5.1.C. Assessment of risk of entrainment into the central Delta and CVP/SWP facilities for winter-run Chinook salmon and spring-run Chinook salmon in the Sacramento River:

8.1.5.1.C.ii. Exposure Risk:	Winter-run Chinook salmon: Low Spring-run Chinook salmon: Medium
8.1.5.1.C.iii. Routing risk:	Winter-run Chinook salmon: Medium Spring-run Chinook salmon: Medium
8.1.5.1.C.iv. Overall Risk:	Winter-run Chinook salmon: Low Spring-run Chinook salmon: Medium

8.1.5.1.D. CVP/SWP facilities entrainment risk for winter-run Chinook salmon and spring-run Chinook in the central Delta over the next week:

8.1.5.1.D.iii. Exposure risk assessments:	Winter-run Chinook salmon: Low Spring-run Chinook salmon: Medium
8.1.5.1.D.iv. Reporting OMR/export risk:	
OMR -1,000 cfs:	Winter-run Chinook salmon: Low Spring-run Chinook salmon: Low
OMR -1,100 cfs:	Winter-run Chinook salmon: Low Spring-run Chinook salmon: Low
OMR -1,500 cfs:	Winter-run Chinook salmon: Low Spring-run Chinook salmon: Low
8.1.5.1.D.v. Overall entrainment risk:	
OMR -1,000 cfs:	Winter-run Chinook salmon: Low Spring-run Chinook salmon: Low-Medium
OMR -1,100 cfs:	Winter-run Chinook salmon: Low Spring-run Chinook salmon: Low-Medium
OMR -1,500 cfs:	Winter-run Chinook salmon: Low Spring-run Chinook salmon: Low-Medium

- CDFW noted it will be providing additional information to ensure all ITP items are addressed. These documents, once finalized, will be submitted to SaMT for consideration.

Agenda Item 8.

Additional Considerations for WOMT

- No advice to change Delta operations

Agenda Item 9.

Next SaMT Meeting is scheduled for Tuesday, 5/26/20 at 9:00 a.m.