

DEC 2020

# DELTA PLAN PERFORMANCE MEASURES

2020 YEAR IN REVIEW

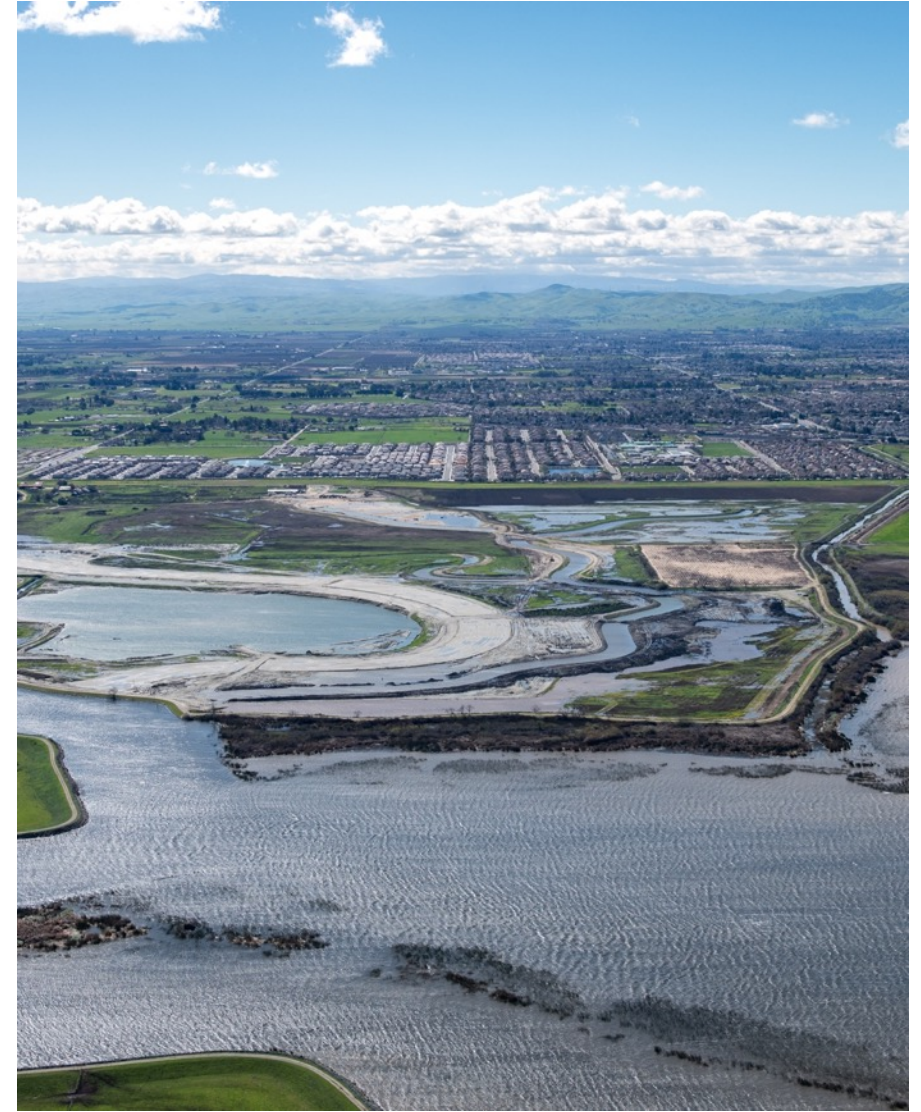


**Delta  
Stewardship  
Council**

A CALIFORNIA STATE AGENCY

# Presentation Outline

- Performance Measures Introduction
- Performance Measures Dashboard
- Performance Data Updates:
  - Water Supply
  - Functional Flows: Yolo Bypass Inundation
  - Terrestrial and Aquatic Invasive Species
  - Harmful Algal Blooms (HABs)
  - Delta Tourism
- 2021 Next Steps



# Performance Measures

- Track progress towards goals and objectives
- Set numeric targets, dates, and baselines
- Use science and monitoring data
- Based on Delta Plan strategies and recommendations



# Performance Measures

[www.viewperformance.council.ca.gov](http://www.viewperformance.council.ca.gov)

By the numbers:

154

Delta Plan performance measures to track environmental and administrative changes

32

Quantitative performance measures with numeric targets and timelines to achieve these targets

122

Administrative measures for implementation status of Delta Plan strategies, polices and recommendations

18

Agencies coordinating under the DPIIC to achieve the coequal goals

# Performance Measures Dashboard

[www.viewperformance.deltacouncil.ca.gov](http://www.viewperformance.deltacouncil.ca.gov)



## Water Supply

Urban Water Use  
Alternative Water Supply  
Water Supply Reliability  
Agricultural Water Planning  
Sustainable Groundwater  
Water Exports



## Delta Ecosystem

Functional Flows: Yolo Bypass Inundation  
Functional Flows: Peak Flow  
Functional Flows: Recession Flow  
Functional Flows: In-Delta Flow  
Terrestrial and Aquatic Invasive Species



## Delta as an Evolving Place

Subsidence Reversal and Carbon Sequestration  
Farmland Loss  
Legacy Communities  
Recreation Opportunities  
Delta Tourism  
Delta Economy



## Water Quality

Delta Water Supply  
Salinity  
North Bay Aqueduct  
Protect Groundwater  
Dissolved Oxygen  
Critical Pesticides  
Inorganic Nutrients  
Measurable Toxicity  
Harmful Algal Blooms



## Protect People and Property

Multi-Hazard Coordination Task Force  
Flood Causalities and Damages  
Delta Levies  
Delivery Interruptions  
Sea Level Rise Planning  
Flood Insurance  
Community Ratings



## Administrative Measures

Governance  
Water Supply  
Delta Ecosystem  
Delta as an Evolving Place  
Water Quality  
Protect People and Property  
Funding Principles

# Water Supply

# Water Supply

Performance Measures: Delta Water Exports, Sustainable Groundwater, and Water Supply Reliability



Water exports should match water availability based on water year type.

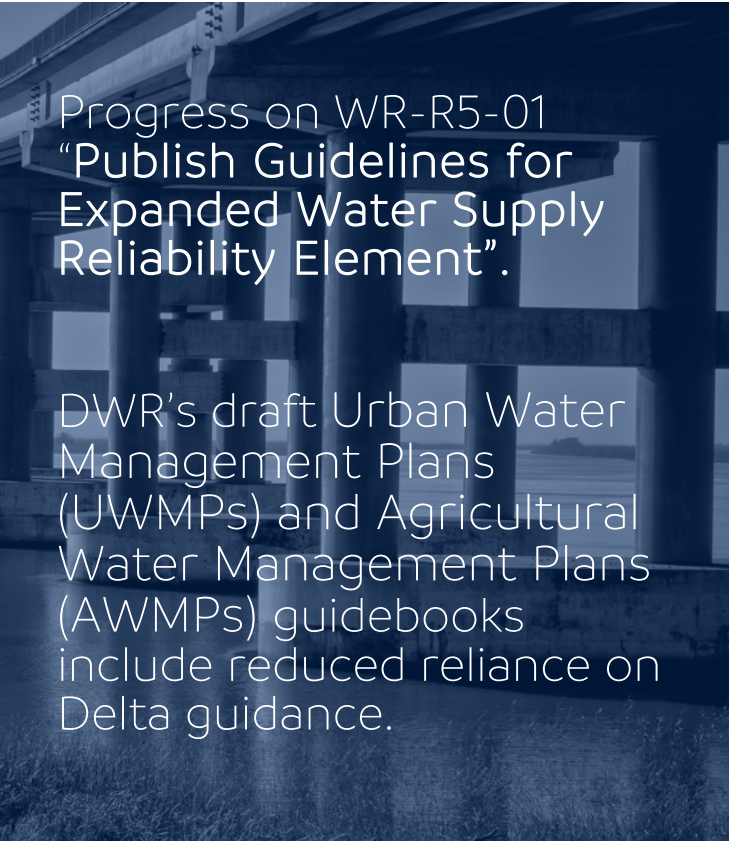
The 2019 water year was wet. The wet year target is set for exports greater than historical exports.

2019 met the target by exporting 5.3 MAF which is above the average historic wet year exports.



The Groundwater performance measure tracks the State's implementation of the Sustainable Groundwater Management Act (SGMA).

In 2020, Groundwater Sustainability Agencies (GSAs) responsible for critically over-drafted submitted 47 Groundwater Sustainability Plans (GSPs) to DWR.



Progress on WR-R5-01 "Publish Guidelines for Expanded Water Supply Reliability Element".

DWR's draft Urban Water Management Plans (UWMPs) and Agricultural Water Management Plans (AWMPs) guidebooks include reduced reliance on Delta guidance.

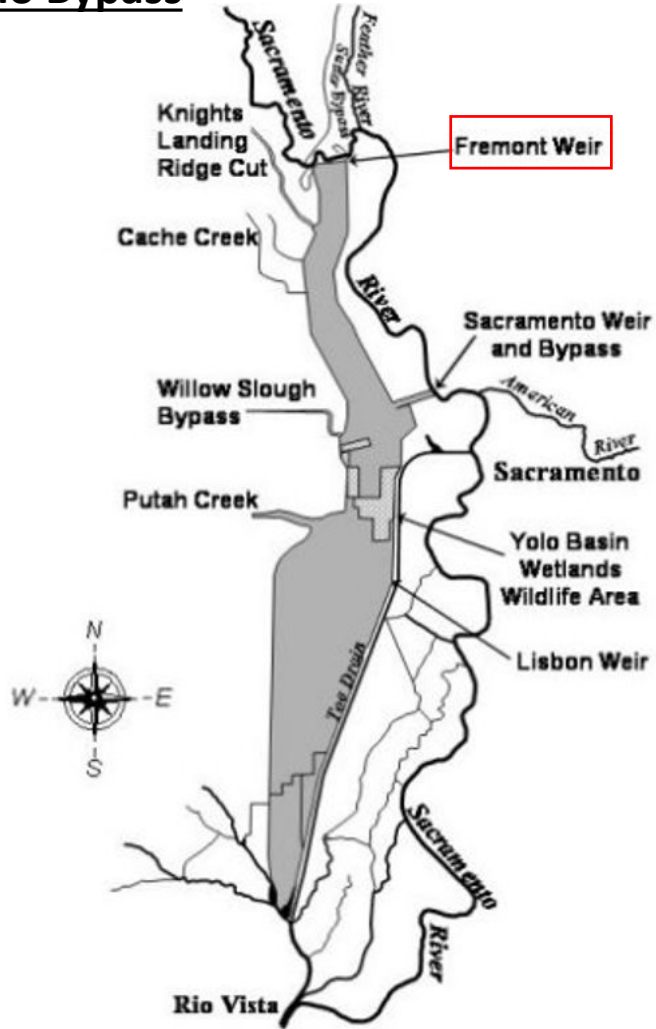
# Delta Ecosystem



# Functional Flows

## Performance Measure: Yolo Bypass Inundation

### Yolo Bypass



- High flows in the Sacramento River overtop the Fremont Weir and inundate the Yolo Bypass.
- Fremont Weir flows of at least 6,000 cfs are needed to meet the target.
- **2019:** Fremont Weir overtopped with sufficient flows and the Yolo Bypass inundated for 30 consecutive days.
- **2020:** Fremont Weir did not overtop; however, target was met because of high flows in 2019.

Water Year	Most consecutive days with at least 6,000 cfs	Target Met: 1 out of 2 years of at least 21 days of at least 6,000 cfs
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2020	0	Yes**
2019	30	Yes
2018	0	Yes**
2017	34	Yes
2016	4	No

\*\* Target was met due to previous year's flows.

# Terrestrial and Aquatic Invasive Species

## Metric: Invasive Fish

- Native fish relative biomass:
  - 2018: 7%
  - 2019: 22%
- Native fish relative abundance:
  - 2018: 6%
  - 2019: 39%
- Abundance target was met in 2019, first time since 2011.
- Increases in 2019 likely due to wet year and high flows.



Photo source: USFWS



Photo source: calfish.ucdavis.edu

# Invasive Species Continued...

## Metric: Invasive Vegetation

- In 2019, Division of Boating and Waterways treated:
  - 2,300 acres of floating aquatic vegetation
  - 2,400 acres of submerged aquatic vegetation
- New introduction of invasive alligatorweed discovered in late-2017 in Suisun Marsh, and actively treated since early 2018.



Image of alligatorweed (top), and Egeria Densa (bottom)  
Photo Source: Cal. State Parks, Div. of Boating and Waterways

# Invasive Species Continued...

## Metric: New Introductions

- No new invasive species introductions to note since nutria established in 2018.
- Count numbers of nutria as of December 02, 2020:

	<b>Count of nutria taken from within the watershed</b>	<b>Count of nutria taken from within the legal Delta</b>
Since March 2017	2, 039	105
Since January 1, 2020	1,183	13



Photo Source: California Fish and Wildlife



Photo Source: US Fish and Wildlife

# Water Quality

# Water Quality

## Performance Measure: Harmful Algal Blooms (HABs)

- Reporting based on the California Cyanobacteria and Harmful Algal Bloom Network's voluntary incident reporting tool.
- In 2020, 28 incidents were reported in Delta waterways.
  - 10 of the 28 incidents with "Danger" advisory level
  - The increase danger advisory levels in 2020 attributed to an increase in sample collection compared to previous years.
- In 2019, the Freshwater and Estuarine Harmful Algal Bloom Program (AB-834) was passed,
  - Establishes a Statewide program for HABs.



# Delta as Place

# Delta as Place

## Performance Measure: Delta Tourism

- In 2020, about 58,000 acres of publicly accessible land available in the Delta (7% of the Delta land area).
- The sale of fishing licenses in Delta counties saw a slight decline from 383,697 licenses sold in 2018 to 377,913 in 2019.
- In 2020, initiated reporting of VisitCADelta website and related social media use.
- Under Prop 68 the Delta Conservancy is now considering projects that support:
  - Recreation and tourism
  - Historic and cultural preservation
  - Environmental education





# Delta as Place

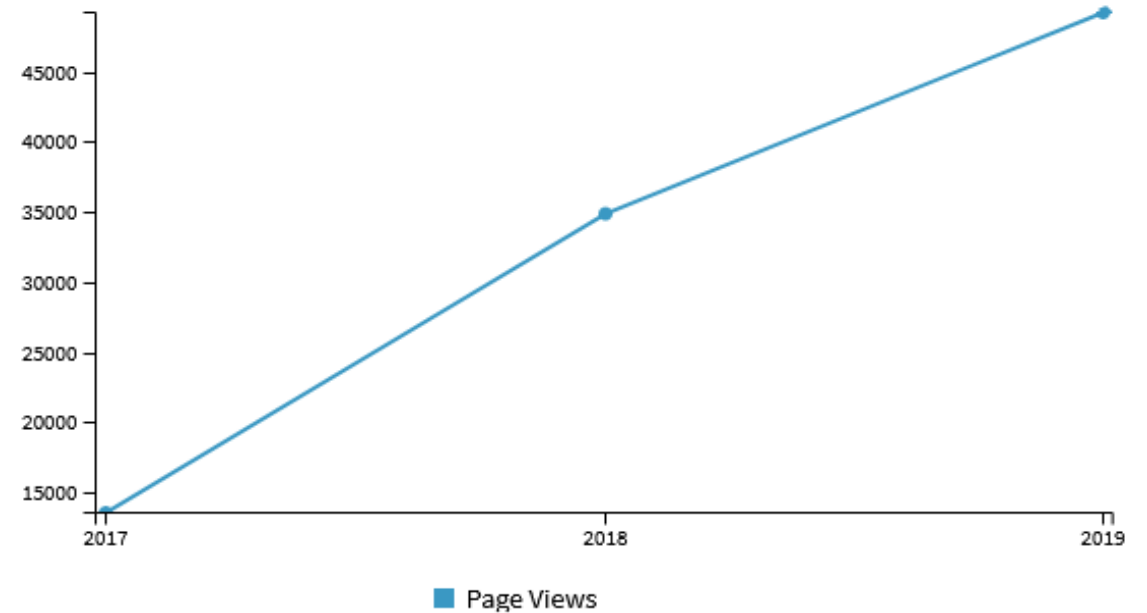
Performance Measure: Delta Tourism



## [VisitCADelta.com](http://VisitCADelta.com)

- Delta tourism website to provide visitors information on events, amenities, restaurants, business, and lodging in the Delta.
- From 2017 to 2019, the VisitCADelta website use increased more than threefold.
- VisitCADelta social media Facebook likes rose by almost 200, since 2017.
- VisitCADelta Twitter impressions increased 78%, in 2019.

## Website Traffic: Visit CA Delta



# Visit the Performance Measures Dashboard

- View latest performance data updates and schedule of upcoming updates.
- Explore baselines, targets and current status and trends.
- Understand how responsible agencies are implementing priority actions.
- Engage with Council on performance measures related science and technical issues.



# 2021 Next Steps

Schedule 2021 performance data updates and reporting features

Initiate newsletter distribution to target audience

Conduct agency and stakeholder outreach to promote understanding



# 2021 Next Steps

Update administrative measures and align with new statutes and executive orders

Incorporate Ecosystem Amendment performance measures when adopted

Support program and project reviews

