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Call to Order

Board of Directors Workshop - Policy
Thursday, August 13, 2020

Chairperson – Director Longville
Vice-Chair – Director Kielhold



NOTICE REGARDING (COVID-19)

Before public comments are considered, the record will reflect that pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 19, 2020, this meeting will be conducted by teleconference only.



Introductions

Following the introduction of Directors and District staff, participants may use this time to state their name and agency/affiliation in order to be included in the formal record of attendees.

Public Comment

Any person may address the Board on matters within its jurisdiction.

- *Please use the chat feature on the Zoom toolbar or digitally raise your hand to let the moderator know you would like to make a comment.*



Summary of Previous Meeting (Pg. 3)

Board of Directors Workshop – Policy – July 9, 2020



Presentation

Ms. Chris Austin – Author, Maven’s Notebook

Maven’s Notebook

Staff Recommendation

This is an informational item only.

MAVEN'S NOTEBOOK

San Bernardino Valley MWD



MAVEN'S NOTEBOOK

California water, verbatim.

www.MavensNotebook.com

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WHO AM I NOT?



I am not the next
Erin Brockovich ...



I'm not looking to
sling mud ...



And I don't
want to publish
secret
documents.



Maven @MavensNotebook
15 hours ago

Coming up on [MavensNotebook.com](#). it's Delta smelt week! Get ready to read [@realDeltaSmelt](#) #ca

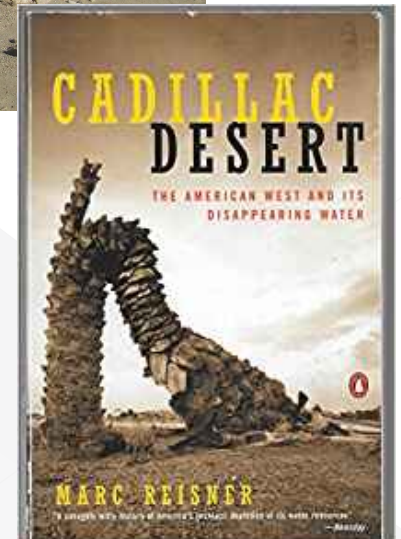
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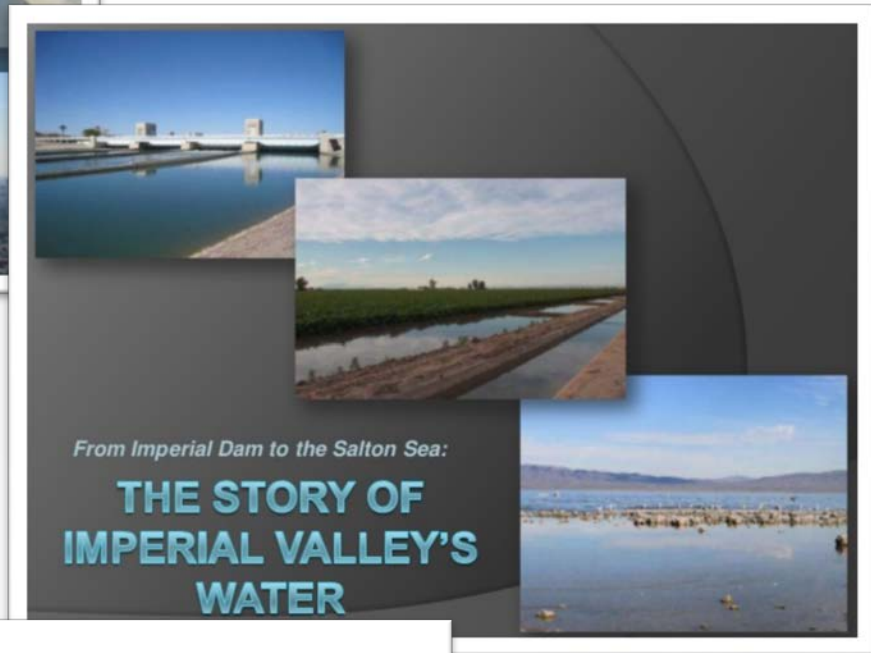
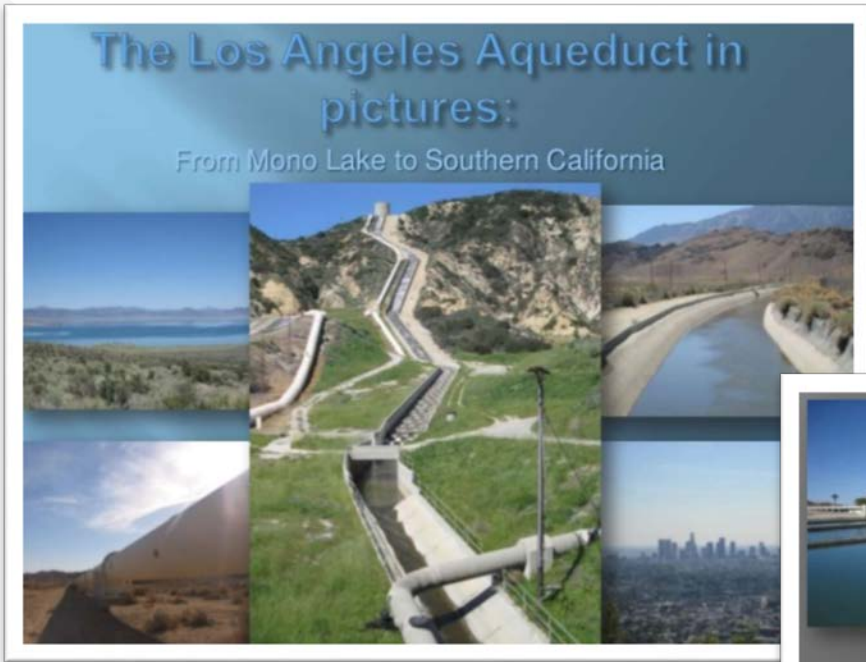
- [@BarbaraBarrigan](#)
- [@8thGenCA](#)

Maven @Maven
17 hours ago

Dr. Peter Gleick: The (past, present, and) future

HOW I BECAME INTERESTED IN CALIFORNIA WATER





ENVIRONMENTAL

Understanding California's Bay Delta in 63 Photos

Chris Austin | March 30, 2015

[f](#) [t](#) [e](#) [+](#) [m](#)



GSA SUMMIT: SETTING SUSTAINABLE MANAGEMENT CRITERIA: IT'S EASY, ISN'T IT?

▲ Maven ● July 22, 2020 ● 393



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CALIFORNIA WATER NEW FROM AROUND THE STATE

DAILY DIGEST, 8/11: Groundwater



DAILY DIGEST, 8/10: Scientists say- expect more rainfall variability for CA; Decline in hydropower hampered by drought will impact utility costs; SGMA and the Human Right to Water; and more ...

▲ Maven ● August 10, 2020 ● 552



DAILY DIGEST, weekend edition: Predicting drought in the American West just got much more difficult; No snow in the Southwest largely a no-show; New winery wastewater regulations 'untenable for small wineries'; Poseidon's desalination

Looking for something in particular?



CHECK OUT THE **KEYWORD INDEX**



CALIFORNIA WATER EVENTS CALENDAR



DAILY DIGEST

CALIFORNIA WATER NEWS FROM AROUND THE STATE

IN THIS POST ... [Click for table of contents](#)

On the calendar today ...

- **ONLINE MEETING: CA Environmental Planners Workgroup meets from 10am to 2pm.** Agenda items include CFP Business document, the California Natural Planners Web Tool, Drought preparations, and an update on the San Juan Project. [Click here for the agenda.](#)
- **SGMA Watershed Coordinator Grant Program Workshop from 1pm to 2pm.** The Department of Conservation will host a workshop to answer potential applicants' questions about the SGMA Watershed Coordinator Program application. Please RSVP to wp@calconservation.ca.gov to register.

In California water news today ...

Groundwater sustainability moves from planning to implementation

"The recent completion of [groundwater sustainability plans](#) for California's most over-pumped basins was a major step toward bringing basins into long-term balance, as mandated by the Sustainable Groundwater Management Act (SGMA). As these plans move through the state approval process, the next stage is implementation. We talked to Trevor Joseph—the first SGMA employee at the Department of Water Resources (DWR), and now a member of a groundwater sustainability agency in the Sacramento Valley—about next steps and possible pitfalls. PPC: You've been involved with SGMA since its inception. What has surprised you the most about how it has unfolded? TREVOR JOSEPH: I've personally surprised that SGMA has gone relatively well to date. ..." [Read more from the PPC team](#) as groundwater sustainability moves from planning to implementation.

A warming California sets the stage for future floods

"By the 2070s, global warming will increase extreme rainfall and reduce snowfall in the Sierra Nevada, delivering a double whammy that will likely exacerbate California's resources and heighten the risk of flooding in much of the state, according to a new study by UCLA climate scientists. Warmer temperatures will increase rainfall during heavy winter precipitation events and reduce snowpack that usually melts throughout the spring and summer. This means mountain reservoirs that currently catch the snow could be overwhelmed in the winter and dry in summer, said Sreyang Hwang, who led the study as a postdoctoral researcher at the Center for Climate Science in the UCLA Institute of the Environment and Sustainability. The research is published in *Biogeosciences Letters*. ..." [Read more from UCLA here.](#) A warming California sets the stage for future floods.



Focus on COVID might hamper state's push against rising sea

"The state will suffer dire long-term consequences if lawmakers set aside concerns about rising seas to focus solely on COVID-19, the new position Legislative Analyst's Office issued Monday. Sea level rise will likely cost at least \$8 billion in property underwater by 2100, and could affect tens of thousands of jobs and billions in gross domestic product, according to studies cited by the office. "Because the most severe effects of sea level rise likely will manifest decades in the future, taking actions to address them now may seem less pressing compared to the immediate pandemic-related challenges currently facing the state," says the new report from the office. ..." [Read more from the OC Register here.](#) Focus on COVID might hamper state's push against rising sea.

➔ [Click here to view/download the L&O report.](#)

Essential water projects to help the nut industry

"Congressman Josh Hawley represents the Shasta area that is surrounded by almonds and walnut orchards. And he's very keen to those growers needs. He bill for Water Resources Act passed the House recently with a vote of 217 to 181, providing billions of dollars. "The Projects are essential for almonds, walnuts, other nut growers across the Central Valley. We need to focus on projects that get consensus, the 80% of projects that people can agree on," said Hawley. ..." [Read more from Ag Net West here.](#) Essential water projects to help the nut industry.

IN THIS POST ...

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- In California water news today ...
 - Groundwater sustainability moves from planning to implementation
 - A warming California sets the stage for future floods
 - Focus on COVID might hamper state's push against rising sea
 - Essential water projects to help the nut industry
 - A warmer second half of August, and some tropical moisture in the mix? Plus: thoughts about (a dry?) autumn.
 - Class action lawyers sue over PFAS without needing to prove it is hazardous
 - The best lakes in California
- In regional water news and commentary today ...
 - Court rules in favor of Klamath Irrigation District, state water rights
 - Purple urchin has overrun kelp forests, commercial divers and conservationists have joined forces to restore the North Coast's marine ecosystem
 - Dead fish found in Marin Civic Center lagoon
 - Pinecrest lake can drop lower during drought years
 - Santa Barbara: Desalination is not the panacea, says Kira Redmond
 - Council to review sea-level rise plan
 - Groups challenge restoration plan for Ballona wetlands
 - Border wall construction trumps Jacumba Wilderness Area
- Today's featured articles ...
 - BLOG ROUND-UP: Markets and SGMA; Conflict to collaboration; Poseidon's problems; and more ...
- Also on Maven's Notebook today ...
 - FUNDING OPPORTUNITY: USDA to Invest up to \$360 Million in Partner-Driven Conservation
 - NOTICE: California Water Data Consortium Now Accepting Nominations and Applications for Inaugural Steering Committee Members
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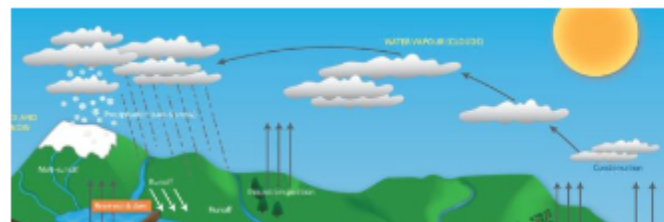


GSA SUMMIT: Setting Sustainable Management Criteria: It's easy, isn't it?

👤 Maven 🕒 July 22, 2020 👁 393



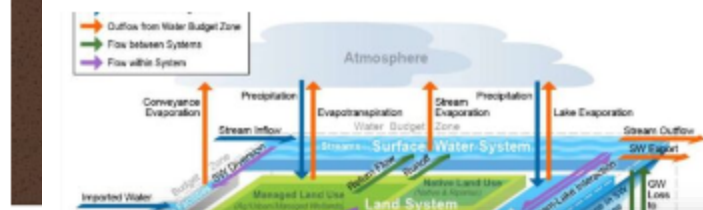
TIM QUINN: Forty Years of California Water Policy: What Worked, What Didn't, and Lessons for the Future



GROUNDWATER 101: The basics

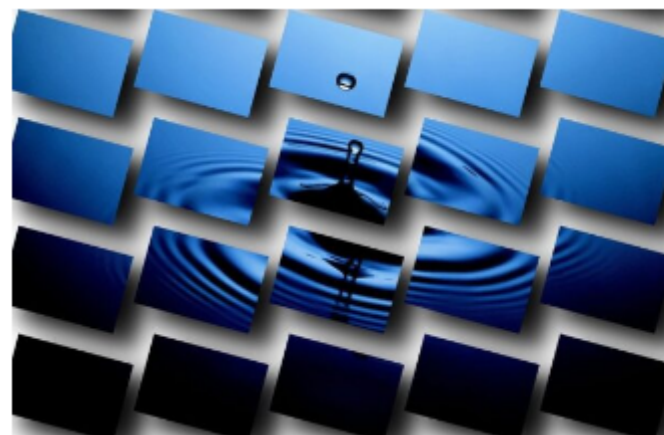
👤 Maven 🕒 June 24, 2020 👁 648

Dr. Thomas Harter provides a basic understanding of



WATER RESOURCES MANAGEMENT: Developing a water budget

👤 Maven 🕒 May 13, 2020 👁 556



ACWA CONFERENCE: Secretary Wade Crowfoot highlights the principles and priorities of the Water Resilience Portfolio

👤 Maven 🕒 August 4, 2020 👁 341

Wade Crowfoot has been the Secretary of the California Natural Resources Agency since January 2019 and oversees an agency of 19,000 employees charged with protecting and

ANNOUNCEMENTS & NOTICES

More —

NOTICE: California Water Data Consortium Now Accepting Nominations and Applications for Inaugural Steering Committee Members

Maven August 11, 2020

The California Water Data Consortium, a nonprofit organization that supports data-informed water management decisions in... [READ MORE...](#)

NOTICE: Deadline for comment on perchlorate rulemaking extended

Maven August 8, 2020 48

The comment deadline has been extended to 12:00 p.m. (noon) on August 18, 2020. Access all relevant documents on this p... [READ MORE...](#)

HARMFUL ALGAL BLOOM (FHAB) reports updated in last 7 days

Maven August 7, 2020 73

... [READ MORE...](#)

WATER PLAN eNEWS: ~~Water Data~ Tribal Conference~ Draft PSP~ Annual Report~ Water Presentation~ Forest Stewardship~ Valley Infrastructure ~~

Maven August 6, 2020 71

FUNDING OPPORTUNITIES

More —

FUNDING OPPORTUNITY: USDA to Invest up to \$360 Million in Partner-Driven Conservation

Maven August 11, 2020

Application period has opened for the Regional Conservation Partnership Program USDA's Natural Resources Conservation S... [READ MORE...](#)

FUNDING OPPORTUNITY: Draft Prop 68 Sustainable Groundwater Management Implementation proposal solicitation package open for public comment

Maven August 1, 2020 74

From the Department of Water Resources: DWR has released for public comment, the DRAFT Proposition 68 SGM Grant Program... [READ MORE...](#)

SGMA FUNDING OPPORTUNITY: Department of Conservation SGMA Watershed Coordinator Grant Program Workshops Announced

Maven July 22, 2020 84

The Department of Conservation will host two workshops to answer potential applicants' questions about the SGMA Watershe... [READ MORE...](#)

NOTICE: Deadline for comment on perchlorate rulemaking extended

ew Edit Post

The comment deadline has been extended to 12:00 p.m. (noon) on August 18, 2020. Access all relevant documents on this page.

The screenshot shows a public notice from the State Water Resources Control Board. The notice is titled "REVISED - COMMENT DEADLINE EXTENDED" and concerns the "NOTICE OF PUBLIC AVAILABILITY OF CHANGES TO PROPOSED REGULATIONS REGARDING PERCHLORATE DETECTION LIMIT FOR PURPOSES OF REPORTING (DLR) (SBDDW-20-001)". It specifies that the comment deadline has been extended to 12:00 p.m. (noon) on August 18, 2020. The notice also includes information about the written comment period and submittal of comments, such as electronic mail, fax, postal mail, and hand delivery. The footer of the notice provides contact information for the State Water Resources Control Board, including the address: 1001 I Street, Sacramento, CA 95814.

Calendar of California Water Events

Conference
Posterboard

Public Meetings &
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Legislative
Hearings

Lectures &
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Month ▶

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| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | <p>Legislature reconvenes from summer recess</p> | <p>LEG HEARING: Assembly Committee on Water, Parks, and Wildlife 10:00 am</p> | <p>LEG HEARING: Senate Committee on Natural Resources and Water 9:00 am</p> <p>PUBLIC HEARING: Proposed Statewide Suction Dredge Mining General Permit 9:30 am</p> <p>WEBINAR: Groundwater Quality Data in California's Uncertain Future 12:00 pm</p> | <p>FREE WEBINAR: Stormwater Matters: Increasing Water Supplies While Reducing Pollution 10:16 am</p> <p>ONLINE MEETING: Delta Model User Group 1:00 pm</p> <p>SGMA Watershed Coordinator Grant Program Workshop 2:30 pm</p> | <p>VIRTUAL TOUR: Orange County's Groundwater Replenishment System 10:00 am</p> | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | <p>FREE WEBINAR: Funding Water Infrastructure for the San Joaquin Valley, Part 1 10:00 am</p> <p>PUBLIC MEETING: Environmental Flows Workgroup 10:00 am</p> <p>SGMA Watershed Coordinator Grant Program Workshop 1:00 pm</p> | <p>LEG HEARING: Senate Committee on Natural Resources and Water 9:00 am</p> <p>FREE WEBINAR: Funding Water Infrastructure for the San Joaquin Valley, Part 2 10:00 am</p> <p>FREE WEBINAR: The San Joaquin Valley Blueprint 12:00 pm</p> | <p>MEETING: Delta Independent Science Board 9:00 am</p> <p>FREE WEBINAR: Funding Water Infrastructure for the San Joaquin Valley, Part 3 10:00 am</p> <p>FREE WEBINAR: Advancing Evidence-Based GSI Decision Making 12:00 pm</p> <p>MEETING: Central Valley Regional Water Quality Control Board 4:00 pm</p> | <p>ONLINE CONFERENCE: BIA Southern California Water Conference 7:30 am</p> <p>Delta Independent Science Board 9:00 am</p> <p>MEETING: Central Valley Regional Water Quality Control Board 9:00 am</p> | |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | | | <p>WEBINAR: Understanding PFAS in our Water Cycle: Sources, Regulations, and Mitigation Solutions 10:00 am</p> <p>WEBINAR: SWRCB/CPUC/CWA Lunch and Learn Series 12:00 pm</p> <p>WEBINAR: Pure Water Oceanside 12:00 pm</p> <p>ONLINE EVENT: AWWA's Water Education Seminar (WES) 8:00 pm</p> | <p>ONLINE CONFERENCE: CA Water Data Summit: Solutions</p> <p>WEBINAR: SWRCB/CPUC/CWA Lunch and Learn Series 12:00 pm</p> <p>MEETING: Delta Conveyance Design and Construction Authority, Board of Directors Meeting 2:00 pm</p> | | |



CA WATER 101

The basics, explained

California Water Infrastructure



Where does California's water come from? Most of us remember learning the water cycle, and so can understand easily enough that it's the rain and snow that is the ultimate source of our water supply. But what most Californians might not realize is vast the state's water infrastructure is that irrigates the farmland and delivers the water to our faucets, and how profoundly that infrastructure has remade the California that we know today. [Click here to learn more about California's water infrastructure systems.](#)

Groundwater



Groundwater in California has received a lot of attention lately, and for good reason: We use a lot of it. So much so, California has been identified as the heaviest groundwater user in the United States, with approximately 16% of the nation's groundwater supplies being extracted from the state's [aquifers](#).

[Click here to learn more about California's groundwater.](#)

Beginner's Guide to the Delta



Whether you have no idea what or where the Sacramento-San Joaquin Delta is or you work in Delta-related science or policy and want to take a moment to step back and look at this system anew, this was written for you. This platform will begin with the basics of what the Delta is, where it is, and why it's important. Following that are sections on its history, its people, and the animals and plants as well as some of the environmental challenges and how agencies and managers are trying to manage them. This Guide was created by Heidi Williams as fulfillment of a California Sea Grant fellowship at the Delta Stewardship Council. [Click here to begin exploring the Delta.](#)

Delta and Statewide Planning Processes



Currently, there are three major planning processes focused exclusively on the Delta, two broader statewide plans, and multitudes of smaller plans and programs that affect the Delta in some way. Some plans are in the implementation stage while others are still in the planning stages. What are all these different plans and processes? [This page will help sort them all out for you.](#)

A Guide to California water rights



California water law is a complex subject. It is governed by both state and federal law, and is part property law and part environmental law. This topic has important historical roots, based in common law concepts of private rights to water, but is now dominated by federal legislation aimed at achieving environmental purposes. Adding to this complexity is the existence of a large number of federal, state and local agencies which play a role in the allocation and management of the state's water resources.

This research guide, written by Tobe Liebert, explains the basic concepts a researcher needs in order to begin understanding the current legal regime that controls the water of California. The guide covers a wide variety of resources, both print and online, some of which are freely available but others only through paid subscriptions. The greater emphasis is on California statutes, cases and regulations, but the secondary sources discussed will provide the necessary explanation of how federal law applies. [Click here to download the guide.](#)

SCIENCE ON THE NOTEBOOK



BROWN BAG SEMINAR: From Measurements, Models and Maps to Management

Maven June 11, 2020 109

The USGS and the Delta Stewardship Council are recruiting the next Delta Lead Scientist who is appointed by the Council based on a recommendation from the Delta Independent Science Board. As part of the process... [READ MORE...](#)



BROWN BAG SEMINAR: Predicting, Detecting, Understanding: Science to Inform Decision Making

Maven June 4, 2020 139

The USGS and the Delta Stewardship Council are recruiting the next Delta Lead Scientist who is appointed by the Council based on a recommendation from the Delta Independent Science Board. As part of the proces... [READ MORE...](#)



UPCOMING SCIENCE EVENTS

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Thu

9:00 am MEETING: Delta Independent Scien...

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Fri

9:00 am Delta Independent Science Board

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Tue

9:00 am Fish predation on a landscape scale

AUG
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9:00 am WEBINAR: Failing Forward and Les...

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[all-day](#) ONLINE WORKSHOP: Sacramento Rive...

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12:00 pm FREE WEBINAR: How eDNA and popul...

SEP
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[all-day](#) 2022-2026 Science Action Agenda:...

OCT
14
Wed

[all-day](#) WORKSHOP: San Joaquin River Rest...

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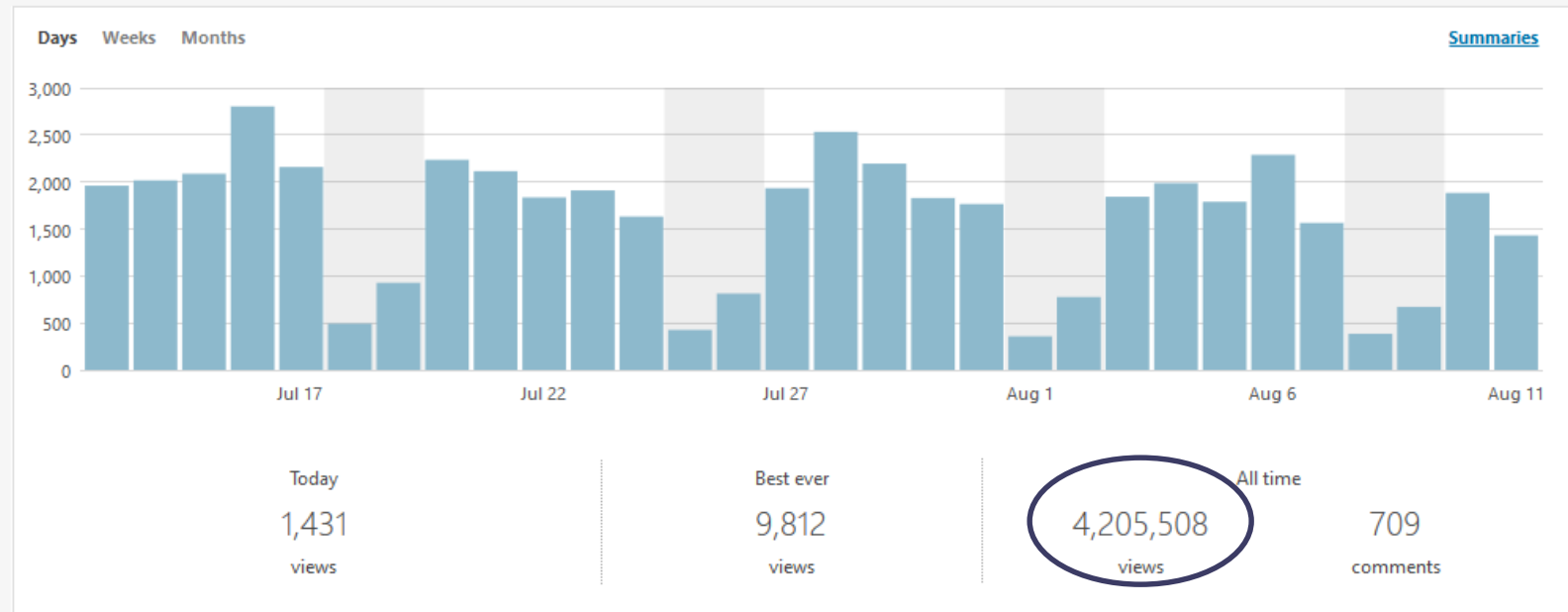
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August 11, 2020, 4:27 pm

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| 2012 | | | | | | | | | | | | 885 | 885 |
| 2013 | 789 | 2,095 | 3,137 | 7,166 | 6,575 | 5,767 | 10,269 | 11,772 | 13,015 | 14,604 | 19,415 | 19,304 | 113,908 |
| 2014 | 29,164 | 33,355 | 38,716 | 35,892 | 33,620 | 30,498 | 37,799 | 45,295 | 40,868 | 41,276 | 39,302 | 41,855 | 447,640 |
| 2015 | 39,066 | 37,595 | 49,501 | 60,795 | 47,640 | 50,591 | 61,360 | 47,521 | 44,724 | 48,165 | 43,756 | 46,512 | 577,226 |
| 2016 | 55,782 | 48,879 | 58,067 | 47,648 | 49,545 | 45,699 | 38,110 | 49,600 | 39,885 | 44,124 | 42,533 | 53,926 | 573,798 |
| 2017 | 56,747 | 89,900 | 58,922 | 46,787 | 37,882 | 40,658 | 47,155 | 41,999 | 45,454 | 52,400 | 40,837 | 33,502 | 592,243 |
| 2018 | 52,068 | 48,715 | 62,007 | 62,745 | 69,787 | 59,779 | 63,249 | 60,648 | 51,422 | 54,411 | 59,656 | 68,315 | 712,802 |
| 2019 | 73,847 | 66,286 | 72,659 | 63,941 | 63,676 | 54,835 | 64,654 | 53,702 | 58,502 | 59,427 | 56,458 | 55,458 | 743,445 |
| 2020 | 65,588 | 72,487 | 60,665 | 65,418 | 66,810 | 48,036 | 49,585 | 14,974 | | | | | 443,563 |

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BROWSE BY REGION

Choose a hydrological region from the map below to see documents associated with that region and its subregions.



- Type
- Topic
- Keywords
- Publisher
- Publication Year
- Hydrologic Region

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“Good Luck Fixing the Problem”: Small Low-Income Community Participation in Collaborative Groundwater Governance and Implications for Drinking Water Source Protection

Society and Natural Resources, Routledge | June 10, 2020...

Summary

There is increasing interest in the potential of source water protection to address chronic challenges with small systems and rural drinking water provision....

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(Commercial/Industrial) Water and Power Rates Request, 2016-2020

Los Angeles Department of Water and Power (LADWP) | July 1, 2015...

Summary

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Future plans for the library ...

- Scanning ACWA documents and other historical documents
- "The History of Delta Conveyance"



Groundwater Exchange

Sharing ideas and resources for successful implementation of the Sustainable Groundwater Management Act.

Groundwater Management Resources

Select Your Group

Choose from a group below to view relevant research tools, useful links, publications, and more.

Introducing SGMA

Learn more about the legislation, what it means, and who it covers.

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Recently Added

[Public input needed for future of Paso Robles groundwater basin](#)

09/25/18

[Marin cedes supervision of water basin to Sonoma County](#)

09/23/18

[Stanislaus County appeals ruling that would make it harder for farmers to dig wells](#)

09/22/18

[Edit view "Recently Added"](#)

Key Pages

Developing A Groundwater Sustainability Plan

[Learn More](#)

Avoiding Undesirable Results

[Learn More](#)

Projects And Actions

[Learn More](#)

Case Studies

[Learn More](#)

My Profile



Welcome back, Maven!

[My Account](#)

[Basin Watchlist](#)

[Forum](#)

Basin Information

Quick Links

Organization and Funding

- I maintain and publish the websites myself
- Web guy (when needed)
- Emily Green (journalist) runs the water library website
- Fiscally sponsored 501c3 (Multiplier)
- Funded by individual donations and organizational sponsorships

THANK
YOU

San Bernardino Valley MWD has been a sponsor since 2016 and is founding sponsor of the CA Water Library!

MAVEN'S FAMILY OF CALIFORNIA WATER WEBSITES



MAVEN'S NOTEBOOK

California water, verbatim.

www.MavensNotebook.com

**CALIFORNIA
WATER
LIBRARY**



www.CAWaterLibrary.net



www.GroundwaterExchange.org

Director Comments and Discussion



**T. Milford
Harrison**
President



**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
Navarro**
Director

Staff Recommendation
This is an informational item only.



Discussion Item 5.1 (Pg. 8)

Cindy Saks, CPA – Chief Financial Officer/Deputy General Manager

Quarterly Investment Portfolio Update with PFM Asset Management and Review of the District's Investment Policy

Staff Recommendation

1. Receive and file the portfolio update report from PFM.
2. Review revised District's Investment Policy and provide further direction.



San Bernardino Valley Municipal Water District

Portfolio Update

Quarter Ending June 30, 2020

Richard Babbe, CCM, Senior Managing Consultant

PFM Asset
Management LLC

601 South Figueroa
Street, Suite 4500
Los Angeles, CA 90017

(949) 230-6896
pfm.com



COVID-19 Impact Update

Health Pandemic

- Confirmed cases exceed 10 million worldwide
- U.S. is leading the world with roughly 25% of cases and deaths
- Recent surge in new U.S. case numbers threatens economic reopening



Effects on the Economy

- Significant negative impact of lockdowns apparent in first and second quarter economic data
- Early signs of rebound have appeared as some states start to reopen

Limited Capacity

Effects on the Financial Markets

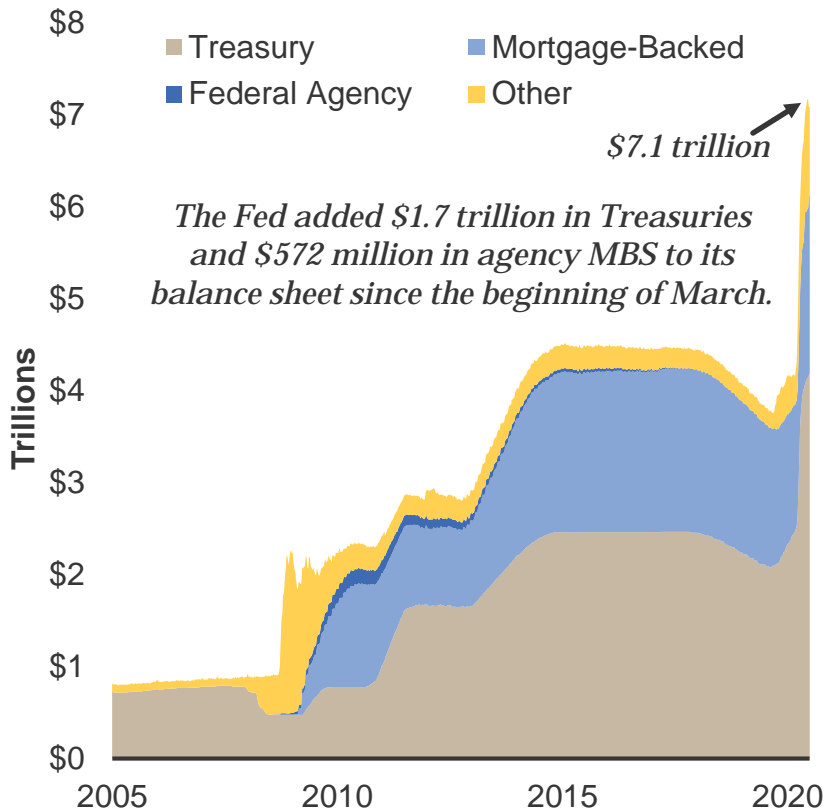
- Yields remain very low and are not expected to move meaningfully over the near term
- Fed support stabilized the bond market and returned liquidity
- Equity markets substantially recovered in second quarter





Federal Reserve Has Provided \$3 Trillion in Monetary Stimulus

Assets of the Federal Reserve



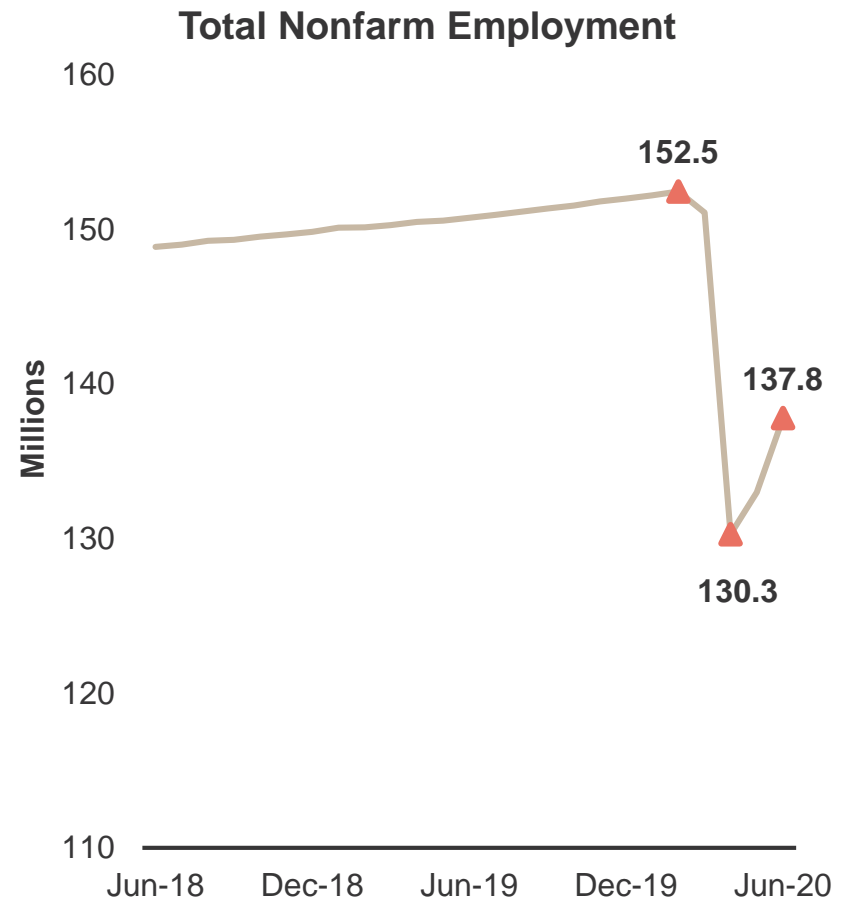
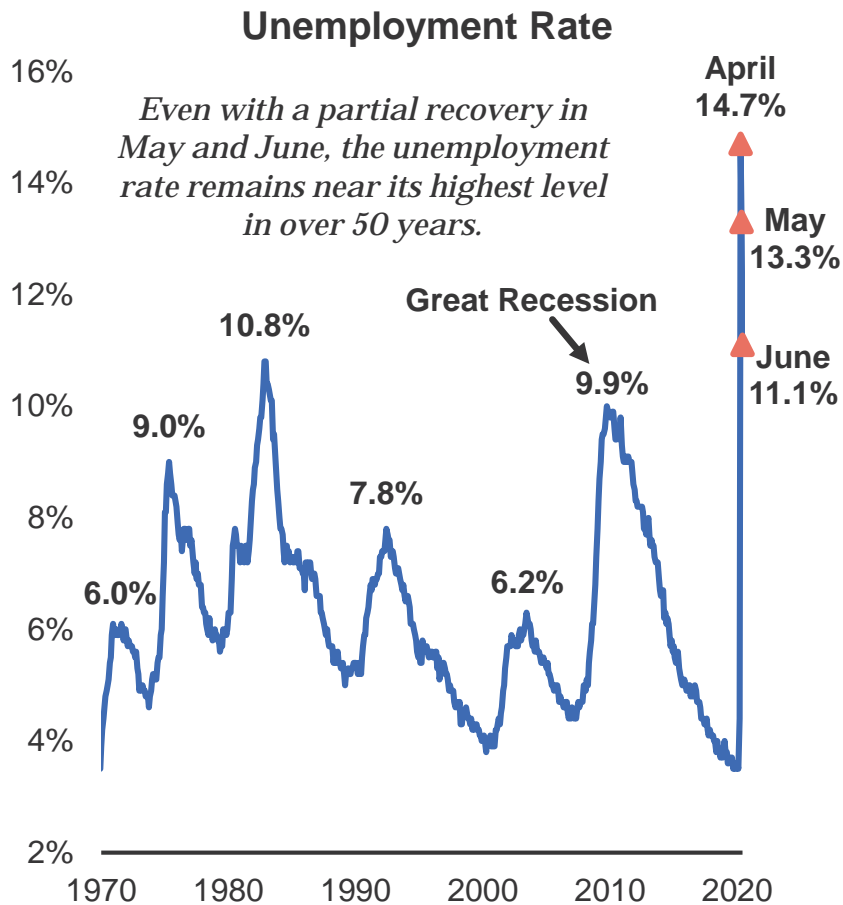
Source: Federal Reserve, as of 6/26/2020.

Amount Allocated to Fed's Liquidity Programs

| Fed Facility | Holdings (billions) |
|--|---------------------|
| Discount Window | \$7.1 |
| Primary Dealer Credit Facility | \$4.0 |
| Money Market Mutual Fund Liquidity Facility | \$23.5 |
| Commercial Paper Funding Facility | \$12.8 |
| Paycheck Protection Program Liquidity Facility | \$59.4 |
| Swap Lines | \$276.7 |
| Repurchase Agreements | \$73.1 |
| Municipal Liquidity Facility | \$16.1 |
| Main Street Lending Facility | \$32.7 |
| Primary Corporate Credit Facility | \$0.0 |
| Secondary Corporate Credit Facility | \$40.0 |
| Term Asset-Backed Securities Loan Facility | \$7.3 |



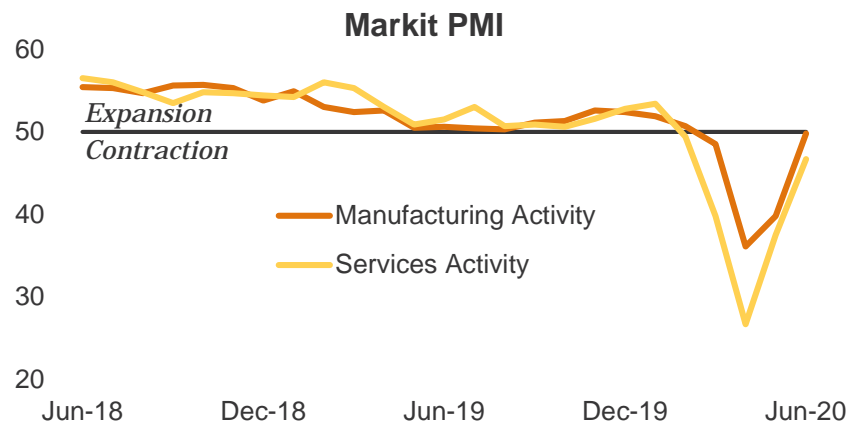
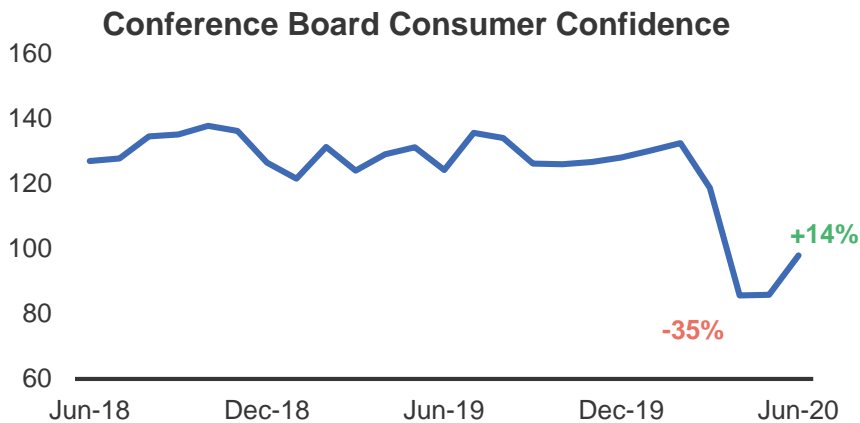
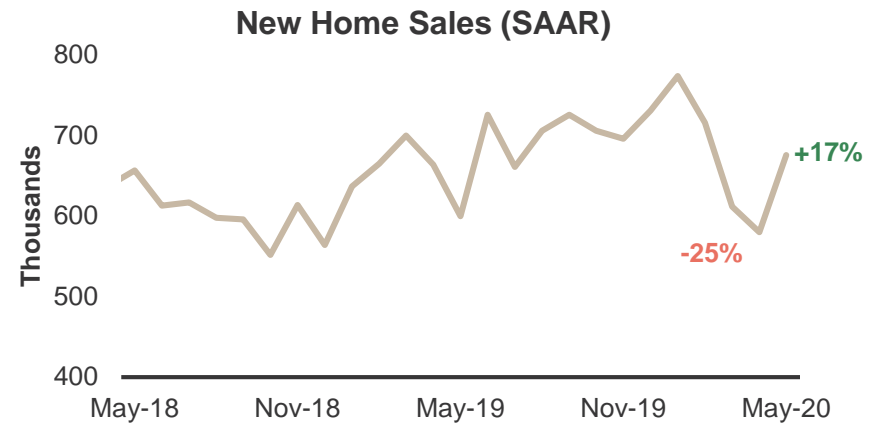
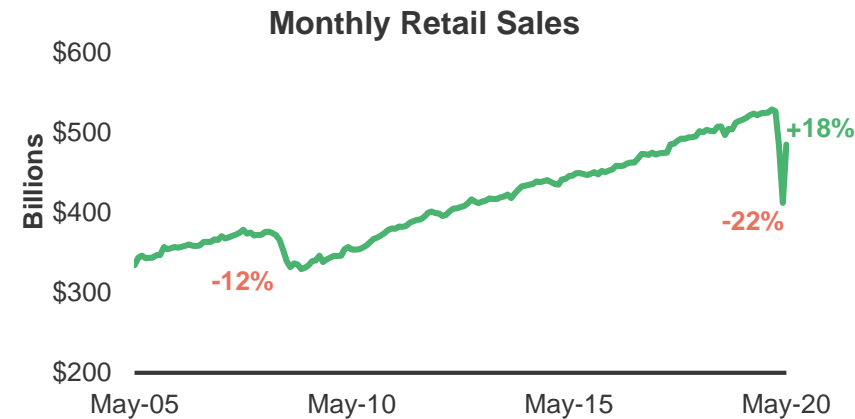
Labor Market Struggling; Early Signs of Recovery Present



Source: Bloomberg, as of 6/30/2020. Data is seasonally adjusted.



Economic Conditions Are Depressed, but Appear to Have Bottomed

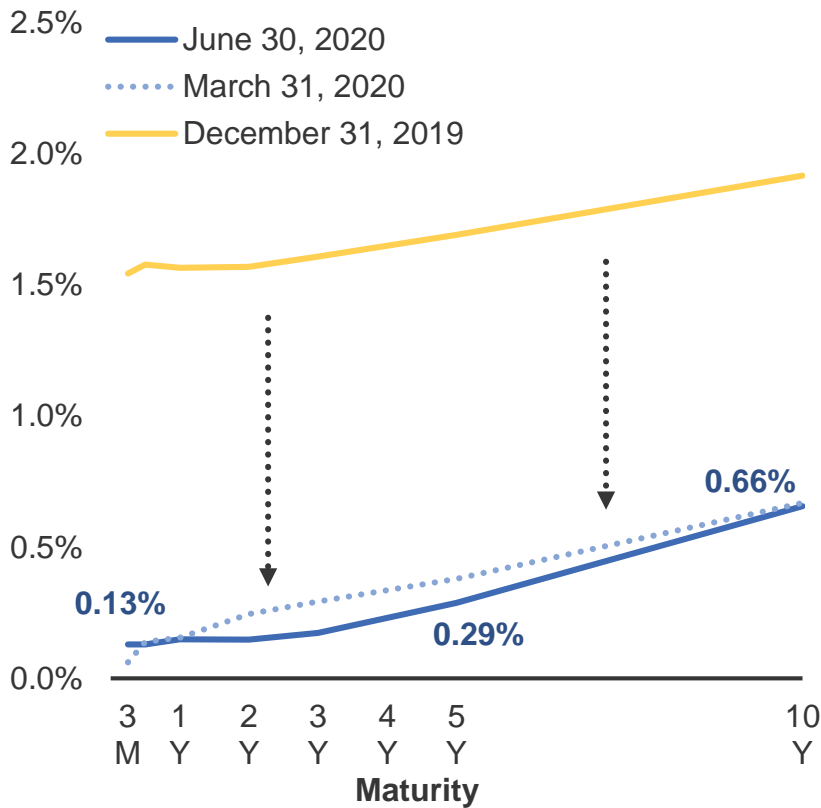


Source: Bloomberg, data available as of 6/30/2020.

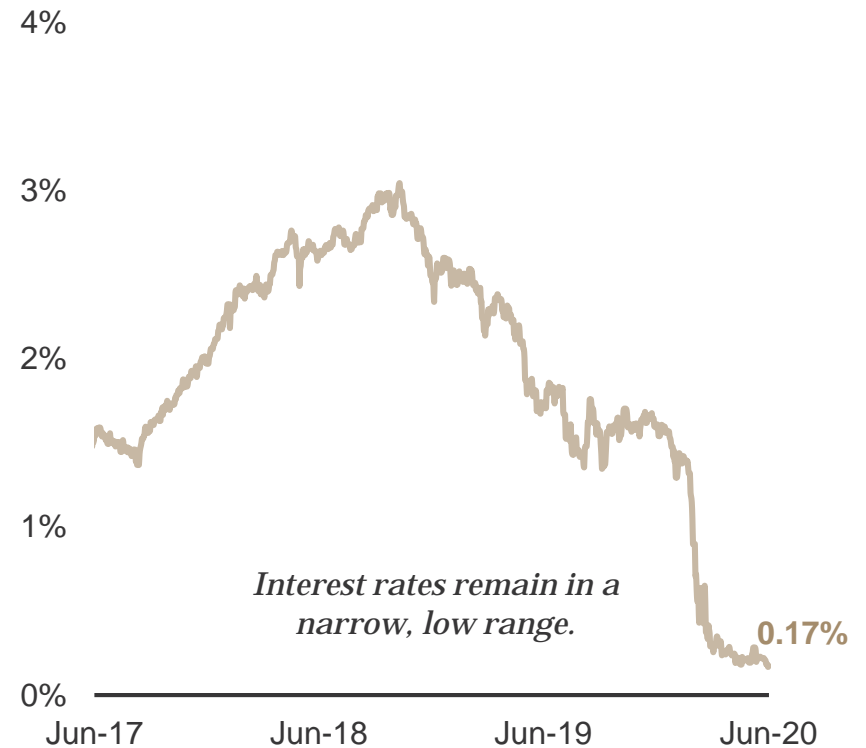


Interest Rates Traded in a Narrow Range During the Second Quarter

U.S. Treasury Yield Curve



3-Year Treasury Yield



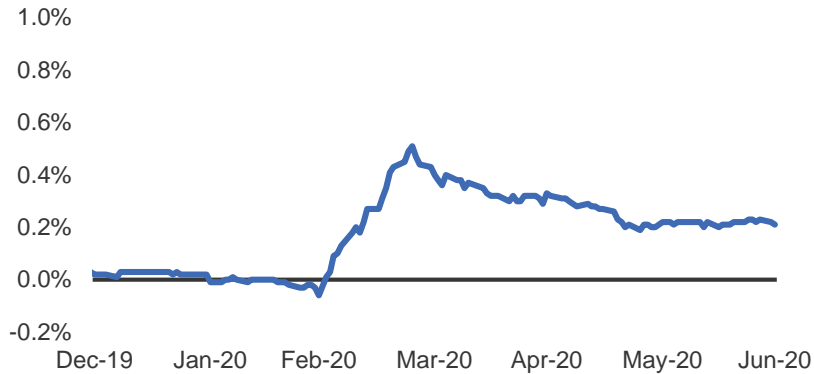
Source: Bloomberg, as of 6/30/2020.



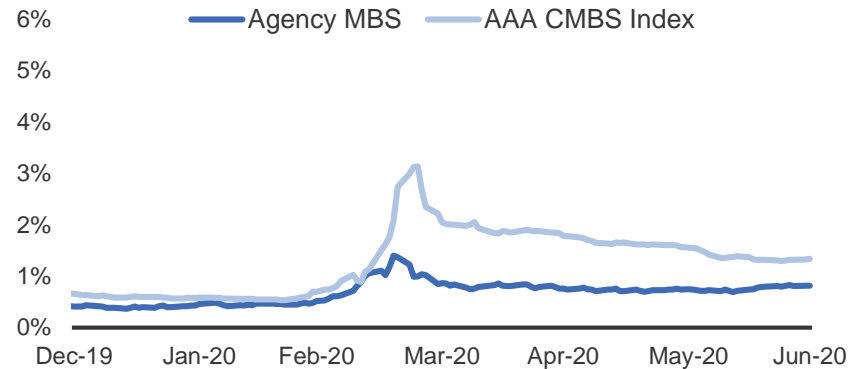
Sector Spreads Tightened Significantly, Moving Toward Pre-COVID Levels

1-5 Year Indices

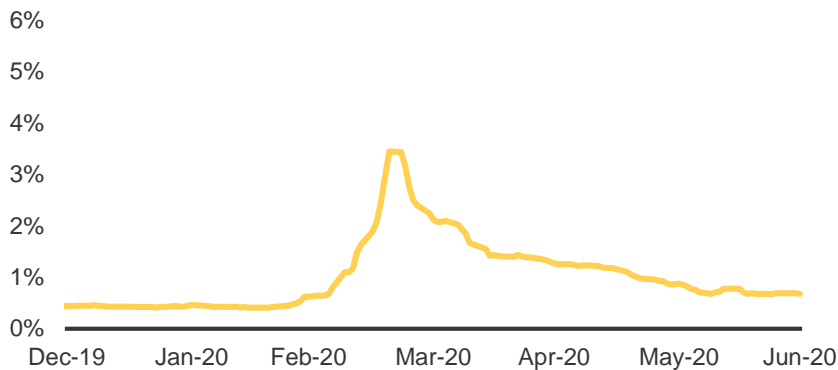
Federal Agency Yield Spreads



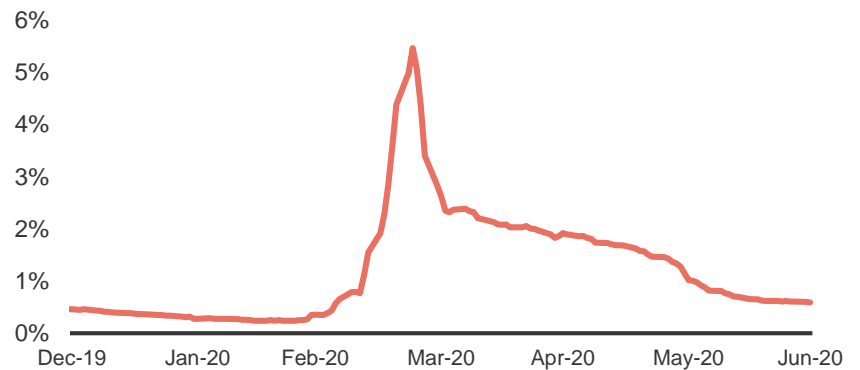
Mortgage-Backed Securities Yield Spreads



Corporate Notes A-AAA Yield Spreads



Asset-Backed Securities Yield Spreads

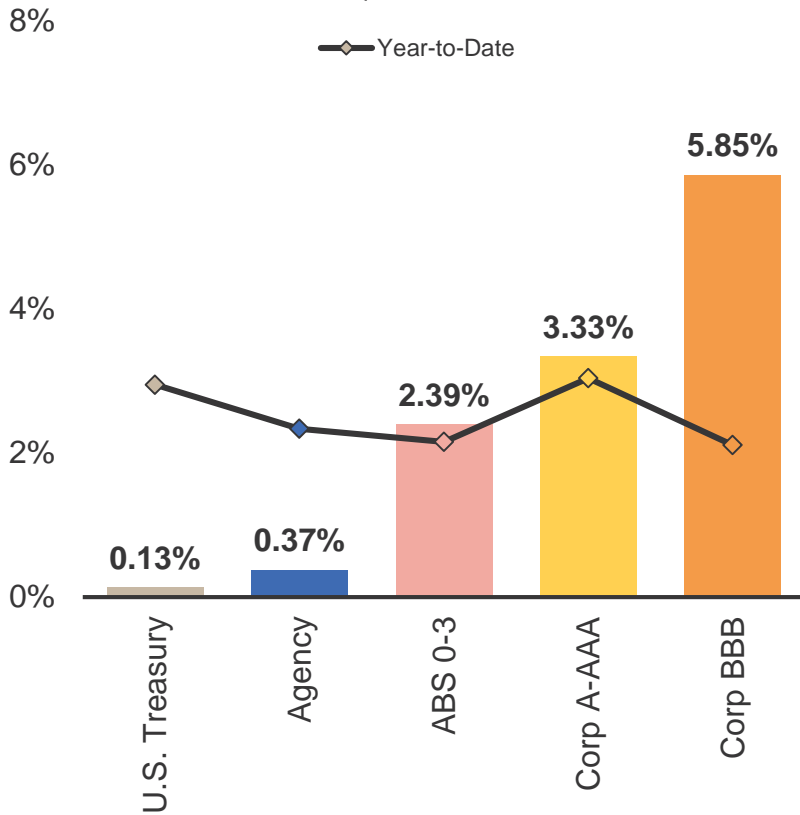


Source: ICE BofAML 1-5 year Indices via Bloomberg, MarketAxess, and PFM, as of 6/30/2020. Spreads on ABS and MBS are option-adjusted spreads of 0-5 year indices based on weighted average life; spreads on agencies are relative to comparable-maturity Treasuries. CMBS is Commercial Mortgage-Backed Securities.

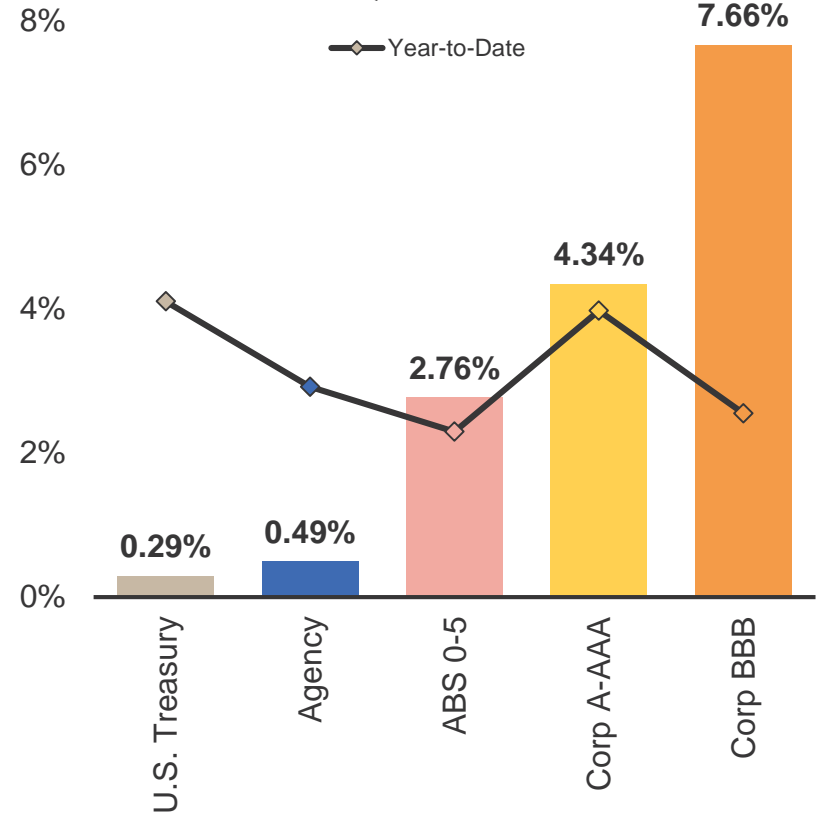


Credit Outperforms in Second Quarter Due to Massive Spread Tightening

1-3 Year Indices Second Quarter Returns



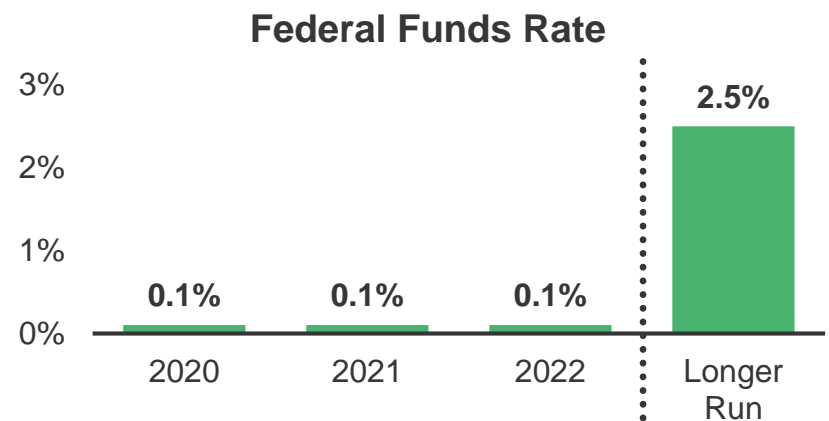
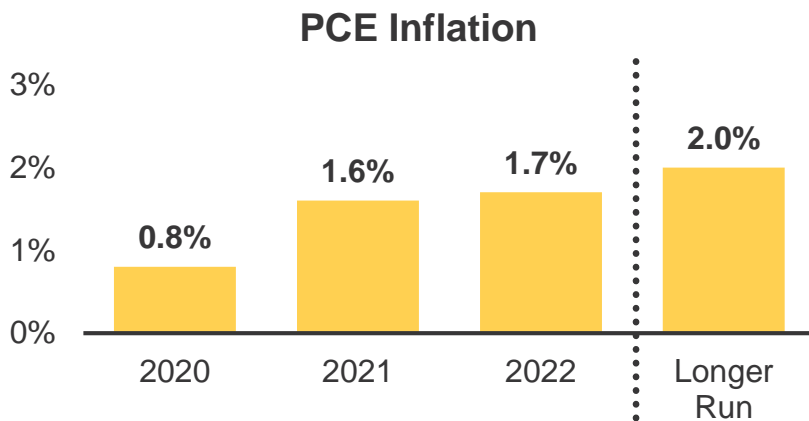
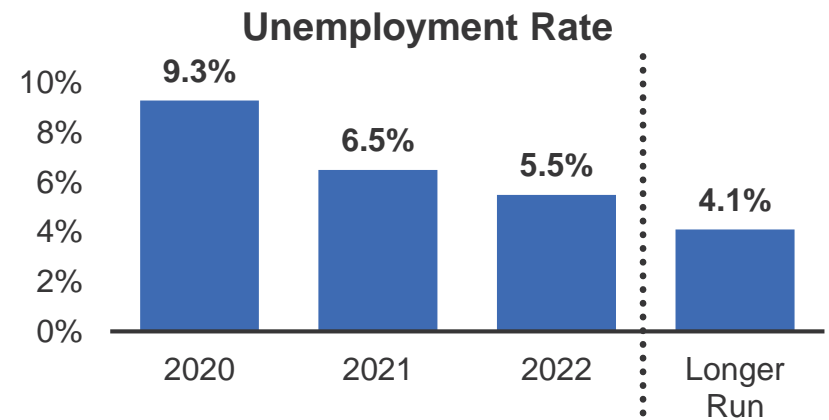
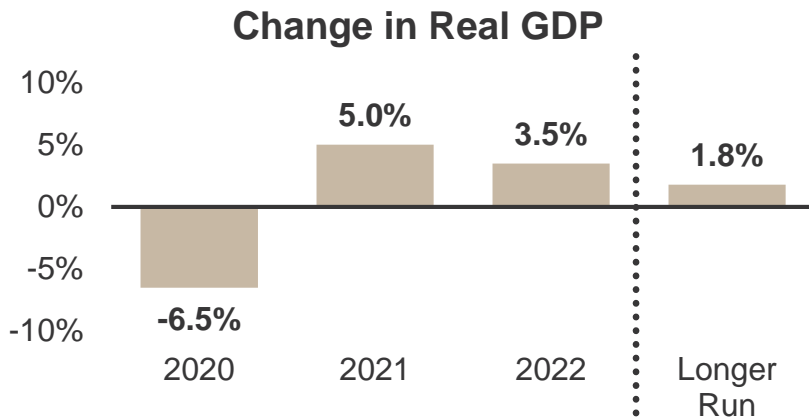
1-5 Year Indices Second Quarter Returns



Source: Bloomberg, as of 6/30/2020



Fed's June Economic Projections Indicate Long Recovery Ahead



Source: Federal Reserve, economic projections as of June 2020.



Combined Portfolio Composition – By Fund

| Fund | March 31, 2020 | June 30, 2020 |
|---------------------------|-----------------------|----------------------|
| General Fund | \$132,718,221 | \$146,214,589 |
| State Water Contract Fund | \$324,740,125 | \$372,479,836 |
| Devil Canyon/Castaic Fund | \$3,397,553 | \$4,114,699 |
| Total | \$460,855,898 | \$522,809,124 |

Individual securities shown at market value including accrued interest. Numbers may not add to total due to rounding.



Combined Portfolio Composition – By Sector

● The portfolio is in compliance with the District’s Investment Policy and the California Government Code.

| Security Type | Market Value as of March 31, 2020 | % of Investments | Market Value as of June 30, 2020 | % of Investments | % Change vs. 3/31/20 | Permitted by Policy | In Compliance |
|-----------------------------|-----------------------------------|------------------|----------------------------------|------------------|----------------------|---------------------|---------------|
| U.S. Treasury | \$224,173,110 | 48.8% | \$200,268,634 | 38.4% | +10.4% | 100% | ✓ |
| Federal Agency | \$17,078,451 | 3.7% | \$42,349,937 | 8.1% | -4.4% | 100% | ✓ |
| Municipal Obligations | \$3,380,553 | 0.7% | \$3,603,834 | 0.7% | +0.0% | 30% | ✓ |
| Negotiable CDs | \$42,255,428 | 9.2% | \$36,509,957 | 7.0% | +2.2% | 30% | ✓ |
| Corporate Notes | \$78,469,762 | 17.1% | \$86,392,742 | 16.6% | +0.5% | 30% | ✓ |
| Securities Sub-Total | \$365,357,305 | 79.6% | \$369,125,105 | 70.9% | | | |
| Accrued Interest | \$1,872,798 | | \$1,852,666 | | | | |
| Securities Total | \$367,230,102 | | \$370,967,771 | | | | |
| LAIF | \$61,084,663 | 13.3% | \$69,362,914 | 13.3% | - | \$75 Million | ✓ |
| Money Market Fund | \$245,865 | 0.1% | \$101,319 | <0.1% | +0.0% | 20% | ✓ |
| CAMP | \$32,305,268 | 7.0% | \$82,367,121 | 15.8% | -8.8% | 50% | ✓ |
| Total Liquidity | \$93,635,796 | 20.4% | \$151,831,353 | 29.1% | | | |
| Total Investments | \$460,865,898 | 100.0% | \$522,809,124 | 100.0% | | | |

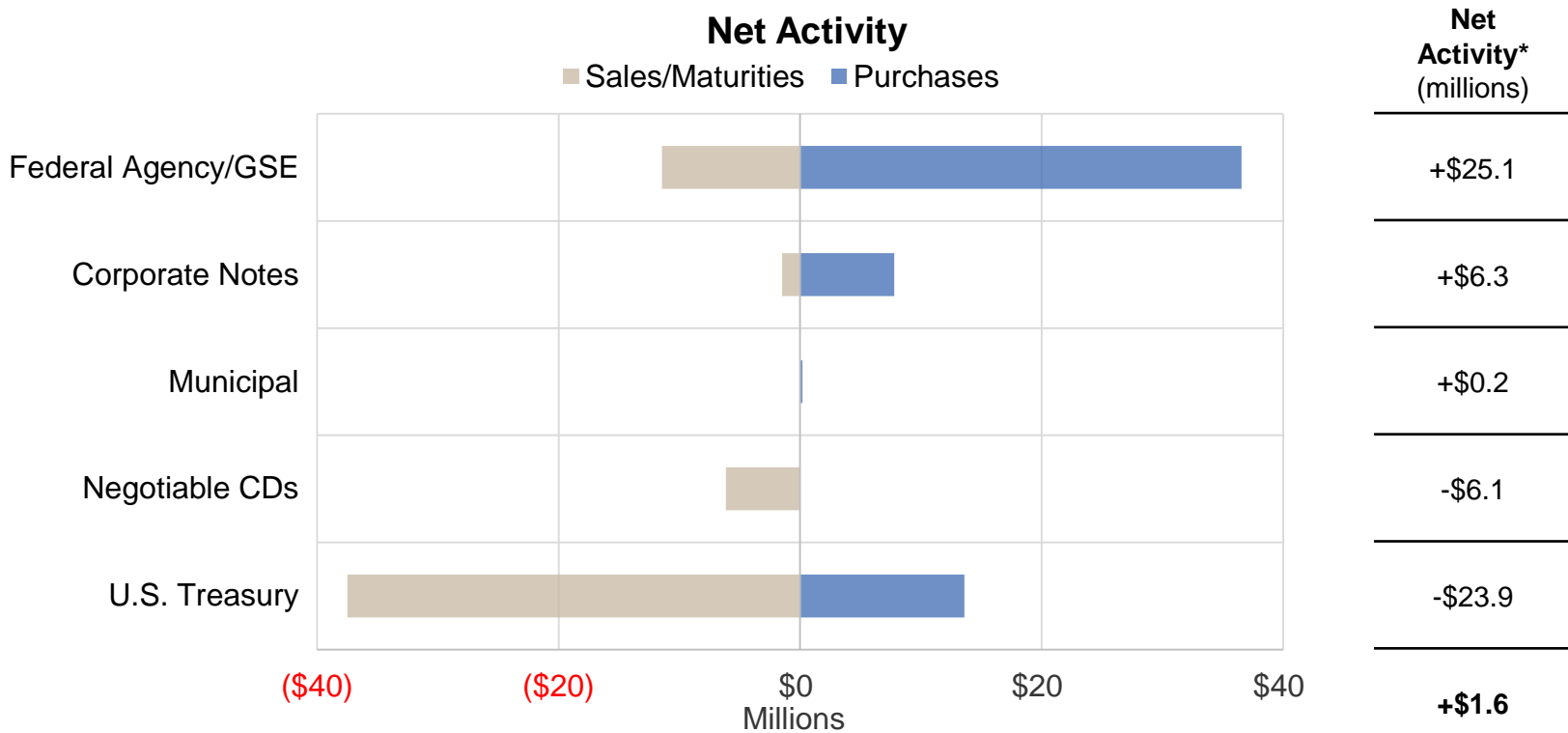
Market values, excluding accrued interest.

As of June 30, 2020, the portfolio had \$8.7 million in unrealized gains (General Fund: \$2,770,765 and General Fund: \$5,954,489).

Numbers may not add to total due to rounding. Current investment policy as of January 2012.



Summary of Second Quarter Trade Activity

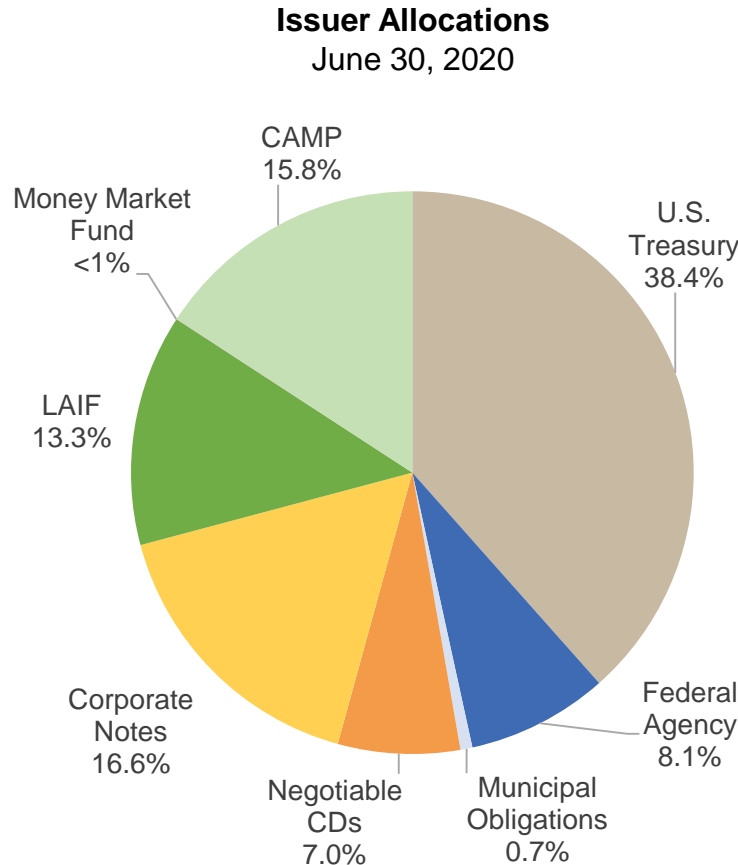


*Combined trade activity in the General Fund and State Water Contract Fund for the quarter ended 6/30/20. Numbers may not add to total due to rounding.



The District's Portfolios are Well Diversified

| Corporate Notes | 16.6% |
|--------------------------|-------|
| 3M Company | 0.5% |
| Adobe | 0.2% |
| American Express | 0.8% |
| Apple | 0.7% |
| Bank of America | 0.4% |
| Blackrock | 0.3% |
| BNSF Railway | 0.2% |
| BNY Mellon | 1.2% |
| Boeing | 0.3% |
| Branch Banking & Trust | 0.6% |
| Caterpillar Financial | 0.6% |
| Charles Schwab | 0.6% |
| Citigroup | 0.5% |
| Goldman Sachs | 0.2% |
| Hershey Co. | 0.2% |
| Home Depot | 0.1% |
| Honda | 0.6% |
| Honeywell International | 0.1% |
| John Deere | 0.6% |
| Johnson & Johnson | 0.1% |
| JP Morgan | 0.8% |
| Merck & Co | 0.2% |
| Morgan Stanley | 0.5% |
| National Rural Utilities | 0.5% |
| Oracle | 0.3% |
| Pcarr Financial | 0.7% |
| Pfizer | 0.4% |
| PNC Financial Services | 0.1% |
| State Street | 0.1% |



| Corporate Notes | |
|-----------------------|------|
| Toyota Motor Credit | 0.8% |
| Unilever | 0.4% |
| United Parcel Service | 0.3% |
| US Bancorp | 0.2% |
| Visa | 0.3% |
| Wal-Mart | 0.6% |
| Walt Disney | 0.2% |
| Amazon | 0.4% |
| Chevron | 0.2% |
| Comcast | 0.2% |
| Pepsi | 0.2% |

| Negotiable CDs | 7.0% |
|-------------------------|------|
| Credit Agricole CIB NY | 0.7% |
| DNB Bank | 0.7% |
| MUFG Bank | 0.6% |
| Nordea Bank NY | 0.7% |
| Royal Canadian Bank NY | 0.7% |
| Skandinaviska Enskilda | 0.7% |
| Société Générale | 0.7% |
| Sumitomo Mitsui Bank NY | 0.6% |
| Swedbank NY | 0.6% |
| Westpac Banking NY | 1.0% |

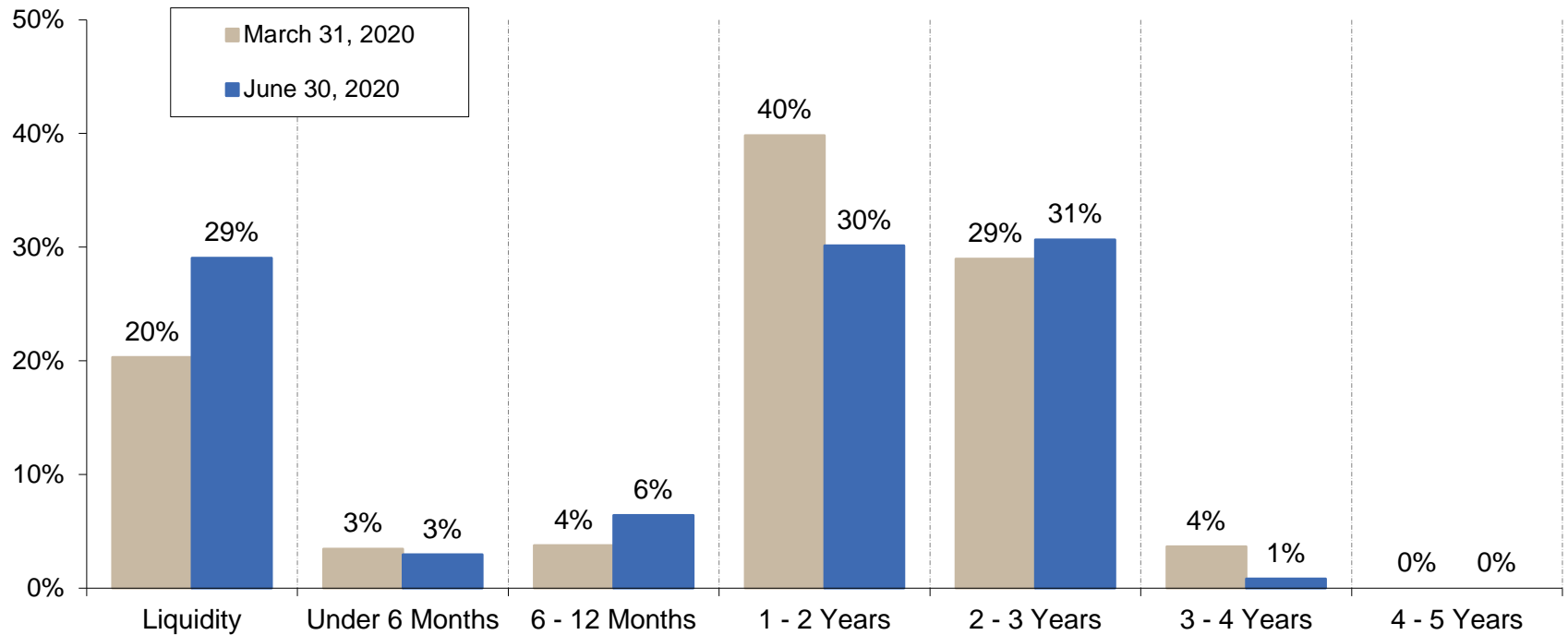
As of June 30, 2020. Numbers may not add to total due to rounding.



Combined Portfolio Maturity Distribution

- We found the most value along the two-year space of the yield curve and continued to maintain a neutral duration stance relative to the benchmark, as we monitor the uncertainty surrounding COVID-19 and the guidance from index vendors regarding future rebalancing.

Portfolio Maturity Distribution
March 31, 2020 vs. June 30, 2020

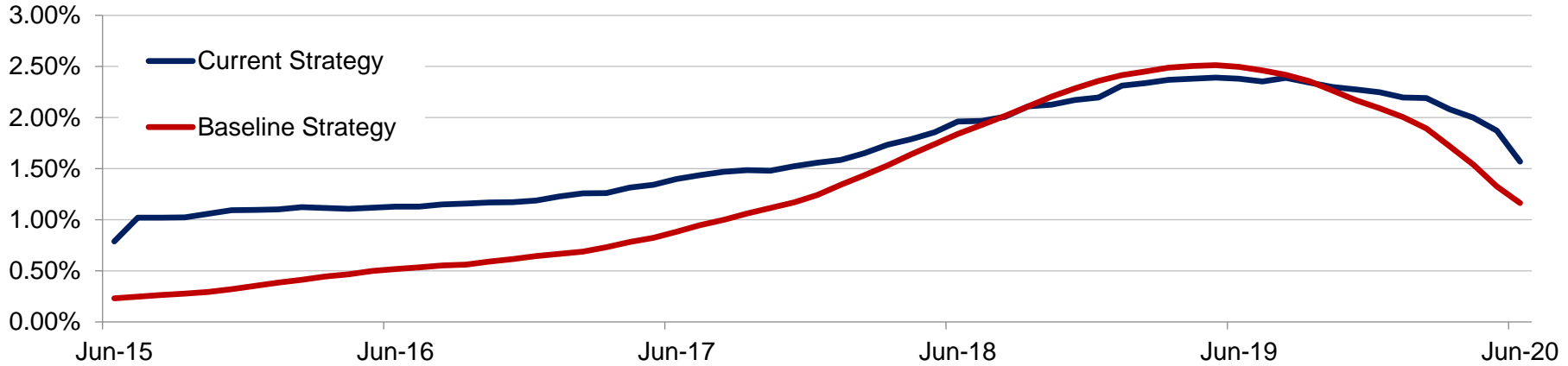


*Numbers may not add to total due to rounding.

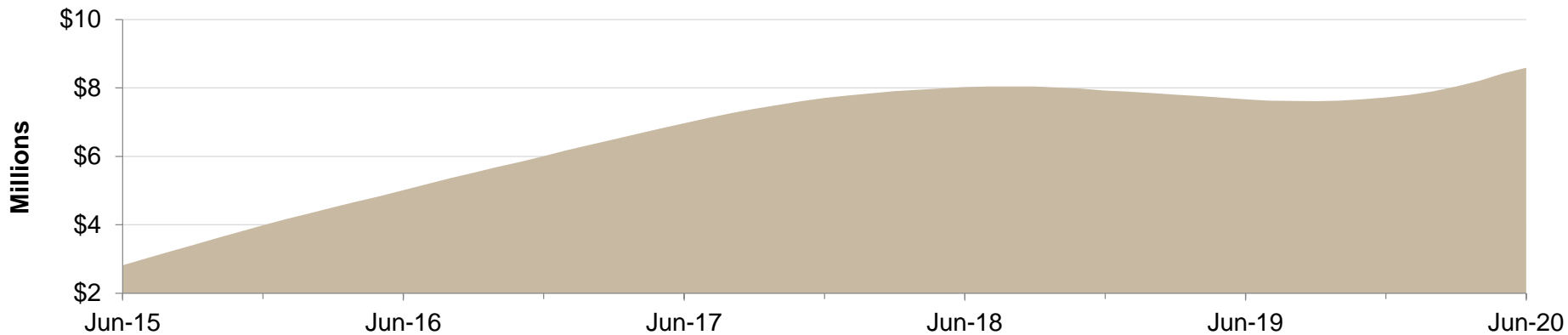


Combined Portfolio Yield and Earnings Comparison

Portfolio Month End Yields - Current Strategy vs. Baseline Strategy June 2015 – June 2020



Estimated Cumulative Incremental Earnings - Current Strategy vs. Baseline Strategy June 2015 – June 2020





Managed Portfolio Total Return Performance

- Total return expresses annualized rate of return over a specified period and takes into account all changes in the portfolio, including market value changes, reinvestment rates, cash flows, and interest earned plus realized gains/losses.

| Periods Ending June 30, 2020 | | | | | |
|---|------------------|--------------|----------------|--------------|-----------------|
| | | | Annualized | | |
| BofAML Indices | Duration (years) | Quarter | Past 12 Months | Past 3 Years | Since Inception |
| State Water Contract Fund | 1.85 | 1.02% | 4.26% | 2.94% | 1.71% |
| General Fund | 1.86 | 0.98% | 4.27% | 2.96% | 1.73% |
| ICE BofAML 1 Year UST Index (GC03) | 0.90 | 0.13% | 2.86% | 2.25% | 1.07% |
| ICE BofAML 1-3 Year UST Index (G1O2) | 1.82 | 0.13% | 4.07% | 2.69% | 1.40% |
| ICE BofAML 1-5 Year UST Index (GVQ0) | 2.58 | 0.16% | 5.23% | 3.23% | 1.75% |

ICE BofAML Indices provided by Bloomberg Financial Markets.

The District's portfolios are not managed on a total return basis, so the indices are shown for information only. Performance on trade-date basis, gross (i.e., before fees), in accordance with the CFA Institute's Global Investment Performance Standards (GIPS).

Periods less than one year are on an unannualized basis. Periods greater than one year are on an annualized basis.

Portfolio inception date as of June 30, 2012



Managed Portfolio Earnings

2-Year Treasury Yields
June 30, 2019 – June 30, 2020



| Period | Q3 19 | Q4 19 | Q1 20 | Q2 20 | 12-Mo. Totals |
|--------------------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| Change in 2-Yr Treasury | -0.13% | -0.05% | -1.32% | -0.10% | -1.61% |
| Market Value Earnings | | | | | |
| Interest Earned | \$2,062,688 | \$2,063,971 | \$1,964,733 | \$1,854,825 | \$7,946,217 |
| Change in Value | \$514,615 | -\$96,447 | \$4,969,835 | \$1,748,848 | \$7,136,851 |
| Portfolio Earnings | \$2,577,303 | \$1,967,524 | \$6,934,569 | \$3,603,672 | \$15,083,068 |
| Accrual Earnings | | | | | |
| Interest Earned | \$2,062,688 | \$2,063,971 | \$1,964,733 | \$1,854,825 | \$7,946,217 |
| Change in Value | \$75,910 | \$122,833 | \$330,777 | \$1,224,606 | \$1,754,127 |
| Portfolio Earnings | \$2,138,598 | \$2,186,804 | \$2,295,511 | \$3,079,431 | \$9,700,343 |

Note: Earnings are for the PFM managed portion of the District's portfolio only. Accrual earnings calculated on a trade date basis. Change in value calculated as the ending period value (market or amortized cost) less the beginning period value, plus net principal activity. Interest earned calculated as the ending accrued interest less beginning accrued interest, plus net interest activity.



Portfolio Yield and Earnings Notes

- **Portfolio Month End Yield**

- The “Baseline Strategy” yield is a weighted average calculated by assuming 29% of the portfolio is invested in LAIF (at the average monthly yield) and the remainder of the portfolio invested in 1-year federal agencies (12-month rolling average of the month-end yield). The Baseline Strategy was reflective of the District’s investment strategy at the time PFM assumed management of the portfolio.
- The “Current Strategy” yield is a weighted average of the current yield of all of the investments in the portfolio. In aggregate, the Current Strategy represents a fundamentally different investment than the Baseline Strategy approach with a different risk profile.

- **Estimated Cumulative Incremental Earnings**

- The earnings are on a yield basis and do not include realized or unrealized market value gains or losses.
- The chart shows an estimate of the cumulative additional earnings being generated by the Current Strategy versus what the Baseline Strategy would have earned over the same period.
- The estimated monthly earnings for each of the strategies is calculated by multiplying the monthly yield of the strategy by the current balance of the overall portfolio.
- The incremental earnings is simply the difference between the Current Strategy estimated monthly earnings and the Baseline Strategy estimated monthly earnings on a cumulative basis over the period shown.
- The estimates are approximations to illustrate differences in investment approaches. The District’s actual earnings will vary.



Disclosures

PFM is the marketing name for a group of affiliated companies providing a range of services. Investment advisory services are provided by PFM Asset Management LLC which is registered with the Securities and Exchange Commission under the Investment Advisers Act of 1940. Additional applicable regulatory information is available upon request.

The views expressed within this material constitute the perspective and judgment of PFM Asset Management LLC at the time of distribution and are subject to change. Any forecast, projection, or prediction of the market, the economy, economic trends, and equity or fixed-income markets are based upon current opinion as of the date of issue and are also subject to change. Opinions and data presented are not necessarily indicative of future events or expected performance. Information contained herein is based on data obtained from recognized statistical services, issuer reports or communications, or other sources believed to be reliable. No representation is made as to its accuracy or completeness. This material is intended for informational purposes only and should not be relied upon to make an investment decision, as it was prepared without regard to any specific objectives or financial circumstances. It should not be construed as an offer to purchase/sell any investment. References to particular issuers are for illustrative purposes only, and are not intended to be recommendations or advice regarding such issuers.

It is not possible to invest directly in an index. The index returns shown throughout this material do not represent the results of actual trading of investor assets. Third-party providers maintain the indices shown and calculate the index levels and performance shown or discussed. Index returns do not reflect payment of any sales charges or fees an investor would pay to purchase the securities they represent. The imposition of these fees and charges would cause investment performance to be lower than the performance shown.

PFM Asset Management LLC has exercised reasonable professional care in the preparation of this performance report. However, information in this report on market indices and security characteristics, as well as information incorporated in the Market Commentary section, is received from sources external to PFM Asset Management LLC.

PFM Asset Management LLC relies on the client's custodian for security holdings and market values. Transaction dates reported by the custodian may differ from money manager statements. While efforts are made to ensure the data contained herein is accurate and complete, we disclaim all responsibility for any errors that may occur.

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August 7, 2020

Memorandum

To: Cindy Saks, C.P.A., Chief Financial Officer - Deputy General Manager
San Bernardino Valley Municipal Water District

From: Richard Babbe, CCM, Senior Managing Consultant
PFM Asset Management LLC

Re: 2020 Investment Policy Review

At your request, we reviewed the San Bernardino Valley Municipal Water District's (the "District") Investment Policy (the "Policy") as part of the District's annual review process. The current Policy is comprehensive and is in compliance with the current California Government Code (the "Code") statutes regulating the investment of public funds.

For consistency, we recommend that the District update the Policy's credit rating language (across all investment types) to reflect current Government Code language. The Code was modified a couple years ago to clarify that the minimum credit ratings listed in the Code refer to the rating category, without regard to "+", "-", or 1, 2, 3 modifiers. This Code change did not revise the Code's (or the Policy's) minimum credit rating requirements.

Although we are not recommending any Policy changes, we wanted to let you know about three recent changes to local agency investment requirements.

Effective January 1, 2020, California State Treasurer Fiona Ma increased the LAIF deposit limit for regular accounts to \$75 million from the previous \$65 million. As the Policy does not list a dollar limit for LAIF, no change to the Policy is required to incorporate this change.

Assembly Bill No. 954, which took effect January 1, 2020, increased the amount that local agencies can invest in placement service deposits (Code Section 53601.8) to 50% from 30%. Unless amended, this revision is repealed as of January 1, 2026. We believe the District should maintain the Policy's current limit to ensure appropriate diversification.

In addition, Assembly Bill No. 857, which took effect January 1, 2020, provides for the establishment of public banks by local agencies. This Bill also added subsection (r) to Code section 53601, which permits local agencies to invest in the commercial paper, debt securities, or other obligations of a public bank. However, we do not recommend that the District add this investment type to the Policy as we are not aware of any public banks that are currently in operation. Furthermore, we would want to review the operational history and credit quality of any public bank before we could recommend investing in its securities.

Please let us know if you have any questions or if you would like to discuss our comments in more detail.

Director Comments and Discussion



**T. Milford
Harrison**
President



**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
Navarro**
Director

Staff Recommendation

1. Receive and file the portfolio update report from PFM.
2. Review revised District's Investment Policy and provide further direction.



Discussion Item 5.2 (Pg. 43)

Heather Dyer, MS, MBA – Chief Executive Officer/General Manager

Update on State and Federal Legislative Program

Staff Recommendation

Receive and file.

State Legislative Highlights

BUDGET

- To hear fewer bills
- Urging members to focus on measures related to COVID
- Session ends August 31



State Legislative Highlights

- AB 1720 Energy/energy storage
- AB 2560 Water Quality Notification and Response Levels
- AB 2800 Climate Change, Infrastructure Planning
- AB 3256 (potential bond measure)
- AB 3030 Resources conservation
- SB 414 Small Water Systems Authority Act of 2019
- SB 625 Central Basin receivership
- SB 1099 Emergency backup generators
- SB 1386 Local Government Assessment Fees

Federal Legislative Highlights

- Two House appropriations package
 - 10 of 12 appr. Bills
 - Includes Seven Oaks Dam language
 - Senate has hit a roadblock in appropriations process
 - Congress will likely pass a continuing resolution
- In July, the Senate released the HEALS Act
- Great American Outdoors Act signed into law 8/4
- New NEPA rule published by Administration
- Next fiscal year begins Oct. 1

Director Comments and Discussion



**T. Milford
Harrison**
President



**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
Navarro**
Director

Staff Recommendation
[Receive and file.](#)



Discussion Item 5.3 (Pg. 74)

Heather Dyer, MS, MBA – Chief Executive Officer/General Manager

Discuss Opportunity to Sponsor the Public Policy Institute of California

Staff Recommendation

Discuss and provide direction to staff.

Background

- The District sponsors a number of programs throughout the year
 - Mavens Notebook
 - Inland Solar Challenge
 - Water Library Archives
 - SAWPA Water Conference
 - Inland Action

Public Policy Institute of California

WHO THEY ARE

- Nonpartisan think tank
- Dedicated to informing and improving public policy in California
- Independent, objective, nonpartisan research

WHAT THEY DO

- Deliver actionable, fact-based research
- Help the state find practical responses to policy challenges
- Develop fact sheets, in-depth reports, blog posts, presentations

PPIC Focus

- Higher Education Center
- Statewide Survey
- Water Policy Institute

Water Policy Institute

- Water Policy Center Sponsorship - **\$10,000**
- Speaker Series on California's (Water) Future - **\$10,000**
- Corporate Circle - **\$1,000 - \$5,000**
- Project Support - **\$25,000+**

Director Comments and Discussion



**T. Milford
Harrison**
President



**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
Navarro**
Director

Staff Recommendation
Discuss and provide direction to staff.



Discussion Item 5.4 (Pg. 76)

Heather Dyer, MS, MBA – Chief Executive Officer/General Manager

Discuss Board Strategic Planning Retreat

Staff Recommendation

Discuss and provide direction to staff.

Strategic Plan

- Began the Strategic Planning process in Fall 2019
- Since then, there have been numerous meetings between the consultant – WSC – and management, staff and the Board of Directors
- We're nearing the final phase in the Planning process
- The next step is a presentation of DRAFT Goals by WSC to the Board of Directors

Strategic Planning Retreat

- October 21-22
- Offsite

| Hotel | Estimated Total |
|--------------------------------------|-----------------|
| Ayres Hotel Redlands | \$4,860 |
| Comfort Suites – Redlands | \$4,220 |
| Omni Rancho Las Palmas | \$3,655 |
| JW Marriott Desert Springs | \$3,655 |
| Renaissance Esmeralda – Indian Wells | \$3,655 |
| Westin Mission Hills | \$3,655 |
| Hilton Garden Inn – San Bernardino | \$3,635 |
| Arrowhead Conference Center | \$5,516 |
| Aloft Hotel – Ontario | \$4,510 |

Attachment: Proposed Venue Options

| Hotel | Address | Room Total Est. | Food Total Est. | Conf Room Fee | Estimated Total |
|------------------------------------|----------------|-----------------|-----------------|---------------|-----------------|
| Hilton Garden Inn | San Bernardino | \$1,185 | \$2,050 | \$400 | \$3,635 |
| Omni Rancho Las Palmas | Rancho Mirage | \$1,605 | \$2,050 | \$0 | \$3,655 |
| JW Marriott Desert Springs | Palm Desert | \$1,605 | \$2,050 | \$0 | \$3,655 |
| Renaissance Esmeralda | Indian Wells | \$1,605 | \$2,050 | \$0 | \$3,655 |
| Westin Mission Hills | Palm Springs | \$1,605 | \$2,050 | \$0 | \$3,655 |
| Comfort Suites | Redlands | \$1,770 | \$2,050 | \$400 | \$4,220 |
| Aloft Hotel | Ontario | 1935 | \$2,050 | 525 | \$4,510 |
| Ayres Hotel Redlands | Redlands | \$2,010 | \$2,050 | \$800 | \$4,860 |
| UCLA Arrowhead Conference Center** | Lake Arrowhead | \$5,516 | \$0 | \$0 | \$5,516 |

NOTES:

1. All cost estimates assume 15 attendees.
2. Hotels' meal cost is based on a catered breakfast and lunch in the meeting room and a per person dinner estimate at a local restaurant. Actual meals costs may differ. Additionally, if the group spends a minimum of \$1,000 on food within the resort, they waive or reduce the meeting room fee (~\$1,000).
3. Arrowhead Conference Center is all-inclusive service including group sit-down meal service for three meals per day, breaktime snacks and beverage service in the meeting room, overnight lodging, and meeting room space.

Director Comments and Discussion



**T. Milford
Harrison**
President



**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
Navarro**
Director

Staff Recommendation
Discuss and provide direction to staff.



Adjournment
