

**BOARD OF WATER SUPPLY
KA 'OIHANA WAI
CITY AND COUNTY OF HONOLULU**

630 SOUTH BERETANIA STREET • HONOLULU, HAWAII 96843
Phone: (808) 748-5000 • www.boardofwatersupply.com

RICK BLANGIARDI
MAYOR
MEIA

ERNEST Y. W. LAU, P.E.
MANAGER AND CHIEF ENGINEER
MANAKIA A ME KAHU WILIKI

ERWIN KAWATA
DEPUTY MANAGER
HOPE MANAKIA



NĀ'ĀLEHU ANTHONY, Chair
JONATHAN KANESHIRO, Vice Chair
BRYAN P. ANDAYA
LANCE WILHELM
KĒHAULANI PU'U
EDWIN H. SNIFFEN, Ex-Officio
GENE C. ALBANO, P.E., Ex-Officio

July 22, 2025

NOTICE

The Board of Water Supply, City and County of Honolulu, Regular Meeting will be held on Monday, July 28, 2025, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843.

Limited seating will be available for in-person testifiers in the Boardroom. The public may also view the livestream of the meeting from the lobby of the Board of Water Supply, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843.

Public parking for this meeting is available in the Public Service Building customer parking lot.

TESTIMONY

Testimony may be submitted as follows:

- **Written testimony** should include the submitter's address, email address, and phone number. Testimony should be received by Monday, July 28, 2025, at noon. Submit written testimony by:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimony
 - Mail to Board of Water Supply, 630 South Beretania Street, Honolulu, HI 96843
 - Fax to (808) 748-5079
- **Oral testimony** will be accepted remotely and in person during the meeting. Pre-registration is encouraged to facilitate as much remote and in-person testimony as reasonably possible during the time allotted. Testifiers should also consider submitting a written version of their oral testimony.
 - To testify remotely by phone or video using the Zoom videoconferencing platform, please submit your request by:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimonyZoom registration instructions, as well as participant guidelines, will be sent to the contact information provided. Once confirmed as registered, testifiers will receive an email containing the links and instructions to join the Zoom session. Submit your request to testify remotely by Friday, July 25, 2025, at noon.
 - To testify in person at the Board of Water Supply, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843, please pre-register by submitting your request by Monday, July 28, 2025:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimony

In-person testifiers should check in with building security and then with testimony staff located in the lobby. Testifiers will be escorted to and from the Board Room. On-site registration will be available for walk-in requests.

Testimony is limited to two (2) minutes and shall be presented by the registered speaker only. Testimony submitted in writing or orally, electronically or in person, for use in the meeting process is public information. All testimony will be included as part of the approved meeting minutes at boardofwatersupply.com/boardmeetings.

MATERIALS AVAILABLE FOR INSPECTION

Meeting materials ("board packet" under HRS §92-7.5) are accessible at www.boardofwatersupply.com/boardmeetings.

VIEWING THE MEETING

The meeting will be viewable via live streaming on the BWS website: www.boardofwatersupply.com/live. Video will appear on screen. You may have to click the arrow on video to start it. You may have to unmute audio, as muted audio tends to be the default setting.

SPECIAL REQUESTS AND ACCOMMODATIONS

If you require special assistance, an auxiliary aid or service, and/or an accommodation due to a disability to participate in this meeting (i.e., sign language interpreter, interpreter for language other than English, or wheelchair accessibility), please call Joy at (808) 748-5172 or email your request to board@hbws.org **at least three business days prior to the meeting date**. If a response is received after the requested three business days before the meeting date deadline, we will try to obtain the auxiliary aid/service or accommodation, but we cannot guarantee that the request will be filled.

Upon request, this notice is available in alternate formats such as large print, Braille, or electronic copy.

The agenda for July 28, 2025, Regular Meeting of the Board of Water Supply is as follows:

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Regular Meeting Held on June 23, 2025
2. Approval of the Minutes of the Special Meeting Held on June 30, 2025

ITEMS FOR INFORMATION

1. Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Recruitment Status
3. University of Hawai'i Economic Research Organization Update on the Economic Forecast
4. Status Update of Groundwater Levels at All Index Stations
5. Water Main Repair Report for June 2025

MINUTES

To watch the recording of this meeting, please click on the following link:
<https://vimeo.com/bwshonolulu/july-28-2025>. Closed captioning is available.

THE REGULAR MEETING OF THE BOARD OF WATER SUPPLY

July 28, 2025

At 2:00 PM on July 28, 2025, in the Public Service Building Board Room at 630 South Beretania Street, Honolulu, Hawai'i, Chair Nā'ālehu Anthony called to order the Regular Meeting.

Present: Nā'ālehu Anthony, Chair via Zoom
Jonathan Kaneshiro, Vice Chair
Bryan P. Andaya, Board Member via Zoom
Lance Wilhelm, Board Member
Kēhaulani Pu'u, Board Member via Zoom
Gene Albano, Ex-Officio via Zoom

Also Present: Ernest Lau, Manager and Chief Engineer
Erwin Kawata, Deputy Manager
Jennifer, Elflein Program Administrator,
Customer Care via Vimeo
Kathleen Elliott-Pahinui, Information Officer,
Communications Office
Raelynn Nakabayashi, Executive Assistant I,
Executive Support Office
Daniel Lee, Acting Program Administrator,
Field Operations Division
Leanne Matsumoto, Waterworks Controller,
Finance Division
Michele Thomas, Executive Assistant I,
Human Resources Office via Vimeo
Henderson Nu'uhiwa, Program Administrator,
Information Technology Division
via Vimeo
Michael Matsuo, Land Administrator, Land Division
Kirk Iwamoto, Water Quality Laboratory Director,
Water Quality Division
Barry Usagawa, Program Administrator,
Water Resources Division
Pekelo Martin, Acting Program Administrator,
Water System Operations Division
Joyce Lin, Acting Departmental Staff Executive
Assistant, Office of the Manager and
Chief Engineer
Kimberly Kuwaye, Managers Secretary
Joy Cruz-Achiu, Board Secretary

Kathy Mitchell, Administrative Services Officer
via Vimeo
Stella Bernardo, Information Specialist II,
Communications Office via Zoom
Michele Harman, Community Relations Specialist I,
Communications Office via Zoom
Wayne Maria, Information Specialist II,
Communications Office

Others Present: Jessica Wong, Deputy Corporation Counsel
via Zoom

Absent: Edwin H. Sniffen, Ex-Officio
Jeff Lau, Deputy Corporation Counsel
Patrick Chun, Acting Program Administrator,
Capital Projects Division

Chair Nā'ālehu Anthony opened the Board meeting with an 'olelo no'eau:

Aloha mai kākou e nā hoa makamaka mai ka lā hiki a ka lā kau. Welina nui me ke aloha!

Mahalo nui no kēia 'ākoakoa 'ana o kākou no ka pono o ka lāhui, no ka pono o ka 'āina, a no ka pono o ka wai nō ho'i. Eia he 'ōlelo no'eau e kālele ana i ke ko'iko'i o ka wai a me ka 'āina kekahi.

Chair Anthony translated the 'olelo no'eau: Aloha from the rising to the setting sun Thank you all for coming together today for the people, the land, and the water. Here is a short Hawaiian Proverb that helps us remember the importance of fresh water and land.

'Ōlelo: E kanu i ka huli 'oi hā'ule ka ua.

Chair Anthony translated 'ōlelo: Plant the taro stalks while there is rain. Do your work when opportunity affords.

Chair Anthony welcomed everyone to the July 28, 2025, Regular Meeting of the Board of Water Supply (BWS). He stated that the Board of Water Supply is dedicated to providing safe, dependable, and affordable supply of water now and into the future.

Before continuing the meeting, Chair Anthony stated that a recording would play to share reminders for public participation and virtual meeting regulations required by law.

The recording played: Goals for this meeting under Hawai'i Revised Statutes, Section 92-7.5 are accessible at www.boardofwatersupply.com/boardmeeting. The public may attend this meeting in person at the Public Service building located at 630 South Beretania Street. The public may also view a live stream of today's meeting on our website at www.boardofwatersupply.com/live. We have been accepting written or oral testimony for today's meeting. Instructions and an online submittal form are available at boardofwatersupply.com/testimony. The deadline to submit advance written testimony has passed. Testimony received by noon today has been distributed to the board members. We will continue to accept written testimony today through our online form. Oral testimony in person or remotely will be accepted during today's meeting. To facilitate as much in-person and remote testimony as reasonably possible during the time allotted, preregistration and submittal of a written version of testimony at boardofwatersupply.com/testimony is strongly encouraged. To testify in person, please register using our online form or come to the public service building at 630 South Beretania Street. We have a representative in the lobby to provide intake and further instructions. To request to testify remotely, please complete the online form at boardofwatersupply.com/testimony. Requestors will receive an email containing links and instructions on how to join the Zoom session. Testifiers will have two minutes to state their position. A timekeeper will alert testifiers when there is one minute remaining. Once the two minutes are up, please summarize to allow time for questions from the Board. Then, make room for the next testifier. Board members attending any board meeting remotely must be visible to the public to be considered, present, and meet quorum guidelines. Board members participating remotely must also disclose their location and anyone present at their location during roll call. Meeting participants who are calling or video conferencing in, please mute your microphone when you're not speaking. If you have a question, comment, or wish to enter or second a motion on an action item, please unmute your microphone and identify yourself before continuing to speak. If you encounter technical issues during today's meeting, please use the

Zoom chat to send a direct message to our support team. Their names are listed in the message to all participants. To open the chat window, please click the text Bubble icon on the Zoom Toolbar.

Chair Anthony requested a roll call for the Regular Meeting. He asked those participating remotely to give the appropriate disclosures upon responding.

Joining via Zoom: Board Member Bryan Andaya responded "aye" and disclosed that he was alone at his location; Board Member Gene Albano responded "aye" and disclosed that he was also alone at his location. In the boardroom, Vice Chair Jonathan Kaneshiro responded "aye," and Board Member Lance Wilhelm responded "e'o." Chair Anthony announced that he was joining the Board meeting via Zoom and was alone at his location. Board Members Edwin Sniffen and Kēhaulani Pu'u were absent.

Chair Anthony introduced those in the Boardroom: Manager Ernest Lau, Deputy Manager Erwin Kawata, Board Secretary Joy L. Cruz-Achui, Manager Secretary Kimberly Kuwaye, and Information Specialist II Wayne Maria. Deputy Jessica Wong joined via Zoom from the City and County Corporation Counsel.

REGULAR MEETING

APPROVAL OF
MINUTES

Approval of the Minutes of the Regular Meeting Held June 23, 2025

MOTION
TO APPROVE

The motion to approve was unclear; therefore, the June 23, 2025, minutes will go before the Board for approval at the August Board Meeting.

APPROVAL OF MINUTES

Approval of the Minutes of the Special Meeting Held June 30, 2025 May 27, 2025.

MOTION TO APPROVE

Bryan Andaya and Gene Albano motioned and seconded, respectively, to approve the Minutes of the Special Meeting Held on June 30, 2025

Ms. Cruz-Achui conducted a roll call: Vice Chair Jonathan Kaneshiro, abstained; Board Member Bryan Andaya, aye; Board Member Lance Wilhelm, aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Ms. Cruz-Achui announced that the motion passed with four ayes. Board Members Kēhaulani Pu'u and Edwin Sniffen were absent.

THE MINUTES OF THE SPECIAL MEETING HELD ON JUNE 30, 2025, WERE APPROVED AT THE JULY 28, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO			ABSTAIN
BRYAN P. ANDAYA	X		
LANCE WILHELM	X		
KĒHAULANI PU'U			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

At 2:08 PM, Board Member Kēhaulani Pu'u joined the Board meeting via Zoom.

ITEM FOR INFORMATION NO. 1

“July 28, 2025

UPDATE ON
THE BOARD OF
WATER SUPPLY'S
RESPONSE TO
THE POTENTIAL
IMPACTS OF
RED HILL FUEL
CONTAMINATION

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Update on the Board of Water Supply's Response to the
Potential Impacts of the Red Hill Fuel Contamination

Joyce Lin, Acting Departmental Staff Executive Assistant, Office of the
Manager and Chief Engineer, will give an Update on the Board of Water
Supply's Response to the Potential Impacts of the Red Hill Fuel
Contamination.

Respectfully Submitted,

/s/ ERNEST Y. W. LAU, P.E
Manager and Chief Engineer

Attachment”

The foregoing was for information only.

DISCUSSION:

Joyce Lin, Acting Departmental Staff Executive Assistant, Office of the
Manager and Chief Engineer, gave the report.

Vice Chair Jonathan Kaneshiro inquired if there have been any updates
on the University of Hawaii (UH) Red Hill Tracer Study.

Ms. Joyce Lin replied that the BWS and the UH Red Hill Tracer Study
Group met for their June update, during which it was mentioned that there
were some detections that require further analysis to provide a
conclusion. The July update is scheduled to occur this week.

Manager Ernest Lau expressed his appreciation to the UH and Dr. Don
Thomas for providing the BWS with updates. The last update indicated
that the UH detected dye tracer in the Red Hill area.

Chair Anthony recognized that Board Member Kēhaulani Pu'u joined the
Board Meeting at 2:08 PM via Zoom and asked that she make the
appropriate disclosures.

Board Member Kēhaulani Pu'u stated that she was alone at her location.

Chair Anthony asked if Manager Lau or Ms. Lin could provide some
feedback on the meeting they attended at the Legislature regarding the
discrepancies that the Navy reported.

Ms. Lin responded that several statements made during the Legislative House Special Committee on Red Hill information briefing meeting held on July 14, 2025, were false. However, since the Legislative Special meeting did not allow for testimony or comments, the BWS was unable to correct any statements made. Therefore, used the BWS Board meeting as an opportunity to clarify some of the statements made during the House Special Committee meeting.

Manager Lau mentioned that one of the Navy officials stated that the BWS was involved in the development of the long-term monitoring (LTM) and extended monitoring drinking water plan for the Navy's water system serving the Joint Base Pearl Harbor-Hickam. He stated that the BWS was neither involved in nor consulted on any of the plans as they were being developed. The plans were developed strictly amongst the Navy, the Department of Health (DOH), and the United States (US) Environmental Protection Agency (EPA).

Manager Lau also shared that the BWS, the Commission of Water Resource Management (CWRM), the United States Geological Survey (USGS), and the UH have been invited to participate in a remediation roundtable to discuss the remediation, the hydro-geology issues, and groundwater modeling. However, the BWS has been excluded from participating in discussions on hydrology and groundwater models. The BWS has been able to provide comments when asked; however, it has not been given the same access privileges to review any information as the Navy, the DOH, the EPA, and their experts. The BWS has always been open to provide feedback if access to the same information were allowed. However, the condition to access this information requires the BWS to sign the Navy's non-disclosure agreement, which the manager has refused to sign. He stated that as a public agency, the community should be aware of what is happening to its water resources. The remediation roundtable meetings occur once every quarter.

There was written testimony submitted:

Meredith Wilson	<i>Submitted written testimony that included multiple questions.</i>
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JULY 2025 RED HILL UPDATES

July 28, 2025

boardofwatersupply.com



RECENT EVENTS

June 26th

- Monthly Meeting with UH Tracer Study Group

July 1st

- Filing of Federal Tort Claims Act Lawsuit

July 3rd

- Red Hill Bulk Fuel Storage Facility Closure Plan Supplemental #4

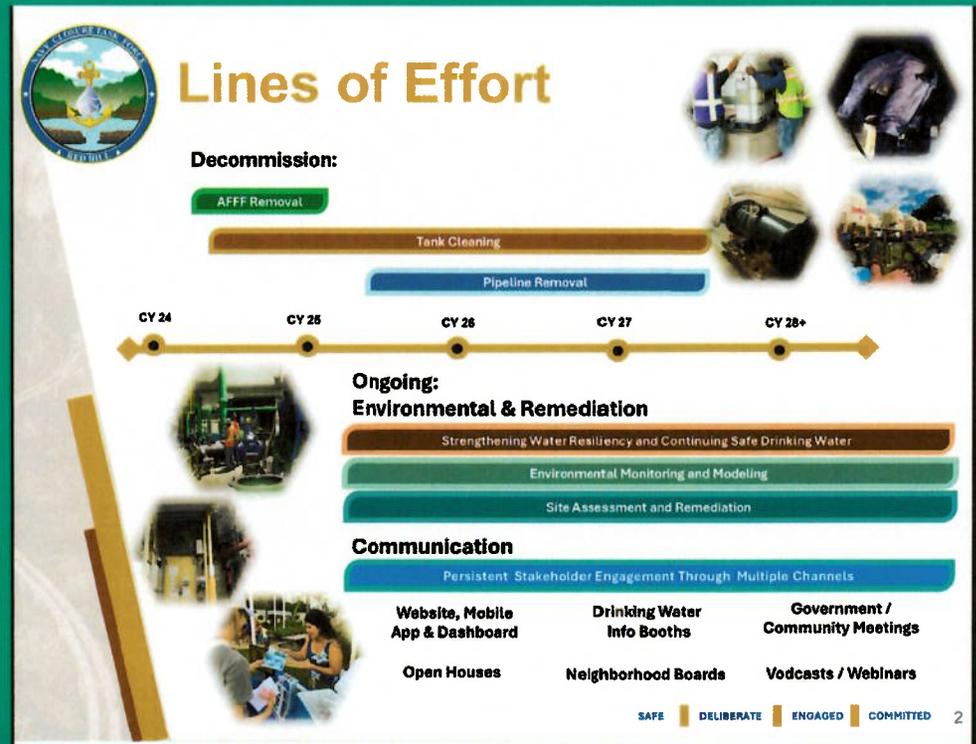
July 14th

- Legislature Information Brief –Update from Navy Closure Task Force –Red Hill



LEGISLATURE INFORMATION BRIEF -JULY 14, 2025

- Rear Admiral Stephen Barnette will be leaving Navy Closure Task Force.
- Per- and polyfluoroalkyl substances (PFAS) Investigation following the 2022 Aqueous Film Forming Foam (AFFF) is ongoing under CERCLA. Information can be found on www.redhillern.com.
- Reactivation of Aiea-Halawa Shaft anticipated this year in coordination with Hawai'i Department of Health (DOH).
- Reactivation of Red Hill Shaft anticipated in 2027 pending installation of treatment system in coordination with DOH.
- Red Hill Facility closure anticipated to complete in 2028. Remediation and monitoring to follow.
- Long term remediation efforts is anticipated to take decades.

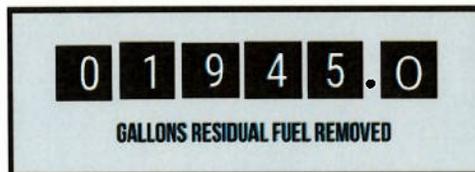


Source: [Navy Closure Task Force - Red Hill](#)



UPDATES FROM NAVY CLOSURE TASK FORCE –RED HILL

SLUDGE AND RESIDUAL FUEL REMOVAL

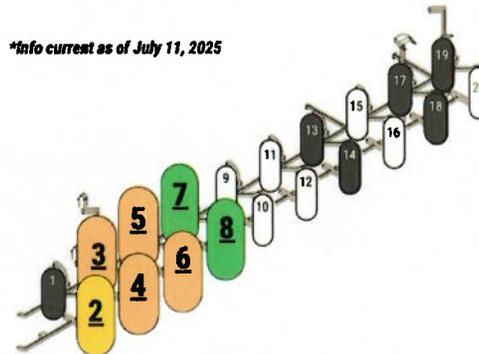


**As of July 11, 2025*



Sludge is removed by lowering personnel to the bottom of the tank where it is manually shoveled out and put into drums. The drums are sealed and sent off the island for disposal at a permitted waste disposal facility on the continental U.S.

**Info current as of July 11, 2025*



Step 1 – Preparation (Approx. 2-3 months):

- Isolate tank and disconnect piping
- Install tank ventilation equipment and inject water to soften sludge
- Remove flowable sludge
- Begin tank ventilation with forced air

Step 2 – Remove Solid Sludge (Approx. 2-3 months):

- Inspect and repair central tower and catwalk
- Install center tower elevator; load test tower and catwalk
- Remove solid sludge

Step 3 – Pressure Washing (Approx. 1-2 months):

- Set up pressure washing system and
- Pressure wash with 3% Simple Green
- Rinse, continuously removing rinsate
- Dry tank interior and validate cleanliness; submit cleaning report
- Receive regulatory agency final approval that tank is clean

Step 4 – Tank Decommission (Approx. 1-2 Months):

- Remove booms and infrastructure
- Install permanent lockable steel hatch at the entrance

Black tanks were empty and out of service prior to defueling.





TANK CLOSURE PLAN SUPPLEMENT 4

Detailed Closure Design

May 31, 2025

Table of Contents | 1



SAFE. DELIBERATE. ENGAGED. COMMITTED.

Tank Closure Plan Supplement 4



NCTF-RH is not waiting for 'beneficial re-use' to be established and is proceeding with closing the facility in accordance with regulatory requirements.



RH tanks and surge tanks: interior and exterior tank components will be verified empty and/or clean or removed. Regulator-approved tank cleaning verification plan available online.



RH tanks and surge tanks will be closed in place.



RH tanks will be allowed to passively vent to the upper and lower tunnels.



Drainage from each RH tank will be open to the main sump, and the drainage pathway via the Fuel Oil Reclamation (FOR) line to Tank 311 will be maintained.

4

Source: [Navy Closure Task Force - Rad Hill](#)

5



UPCOMING EVENTS

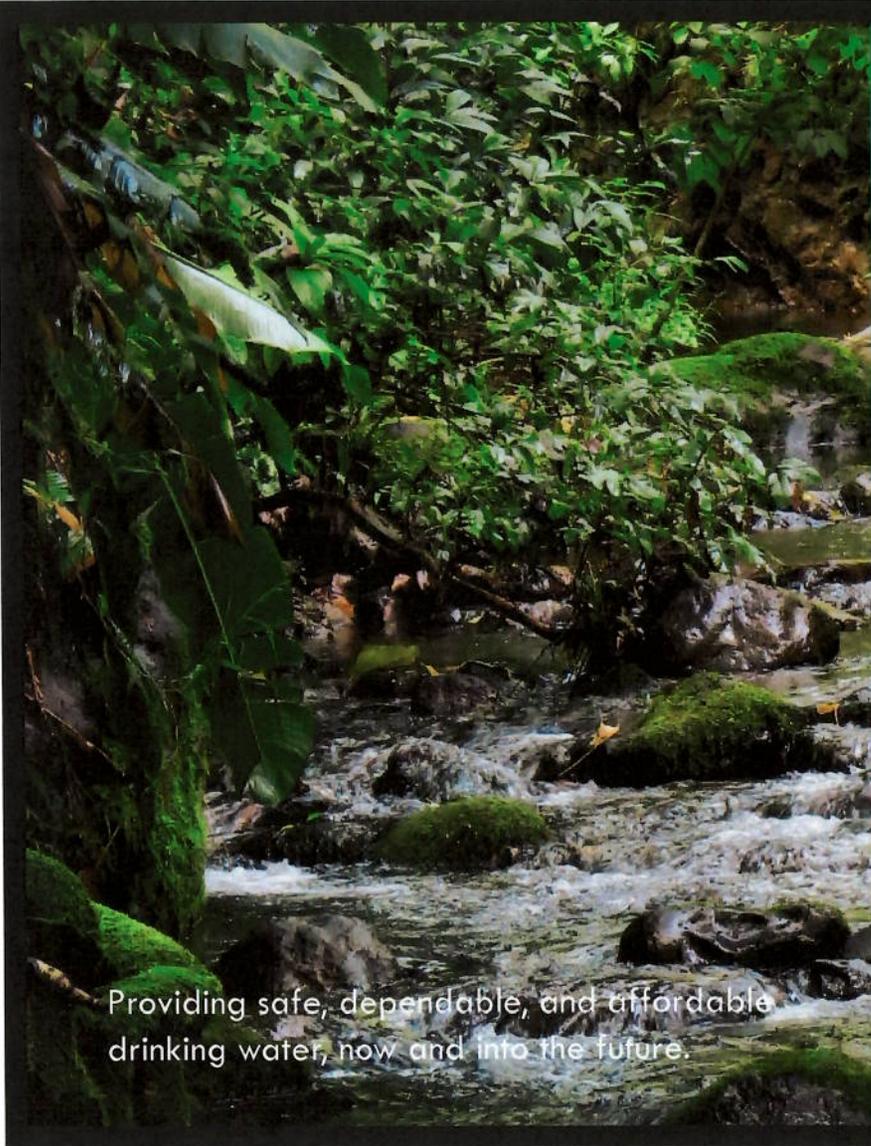
July 31st

- Community Representation Initiative Meeting

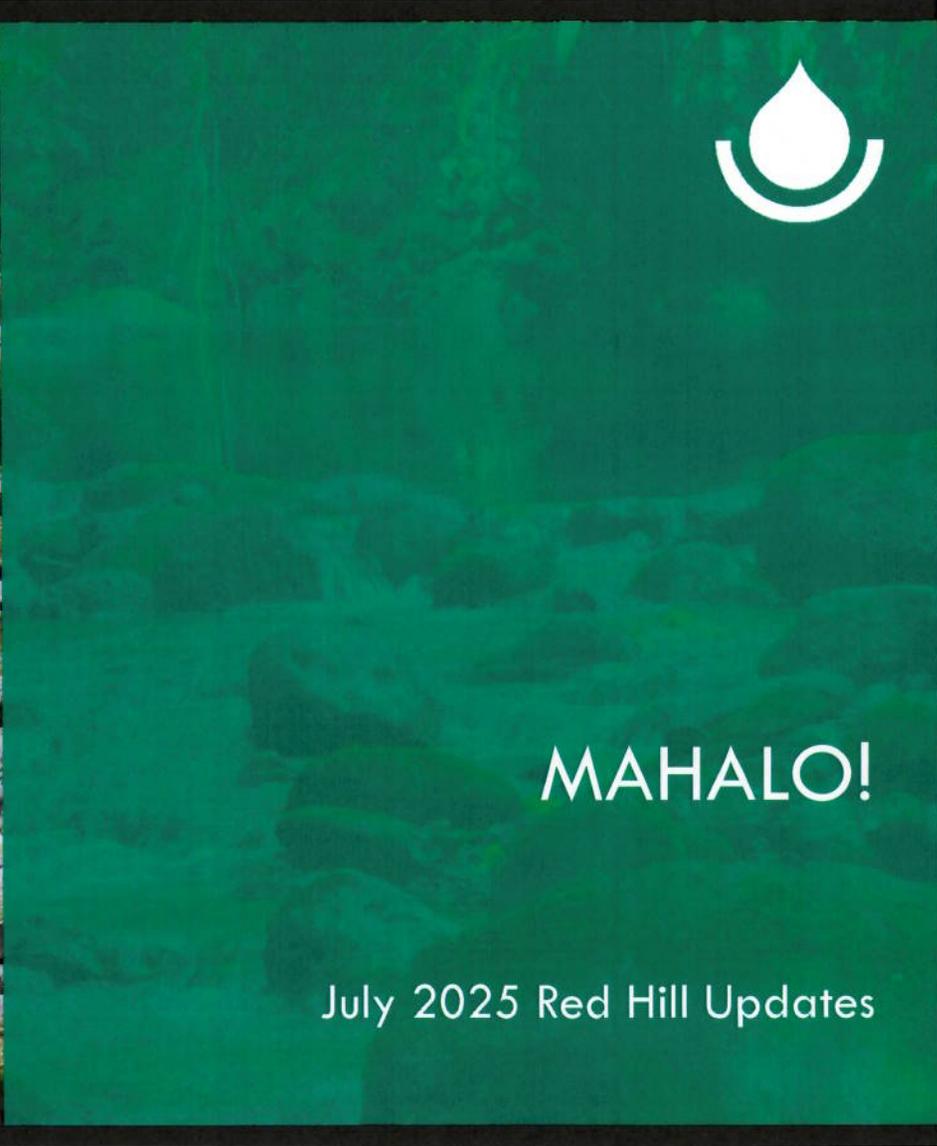
August 20th

- Navy Closure Task Force –Red Hill Open House
Oahu Veteran's Center at 1298 Kukila Street, Honolulu, Hawai'i 96818





Providing safe, dependable, and affordable drinking water, now and into the future.



MAHALO!

July 2025 Red Hill Updates



ITEM FOR INFORMATION NO. 2

"July 28, 2025

RECRUITMENT
STATUS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843
Chair and Members:

Subject: Recruitment Status

Michele L. Thomas, Executive Assistant, Human Resources Office, will be presenting an update on the Recruitment Status for the period of April 2025 to June 2025.

Respectfully Submitted,

/s/ ERNEST Y. W. LAU, P.E
Manager and Chief Engineer

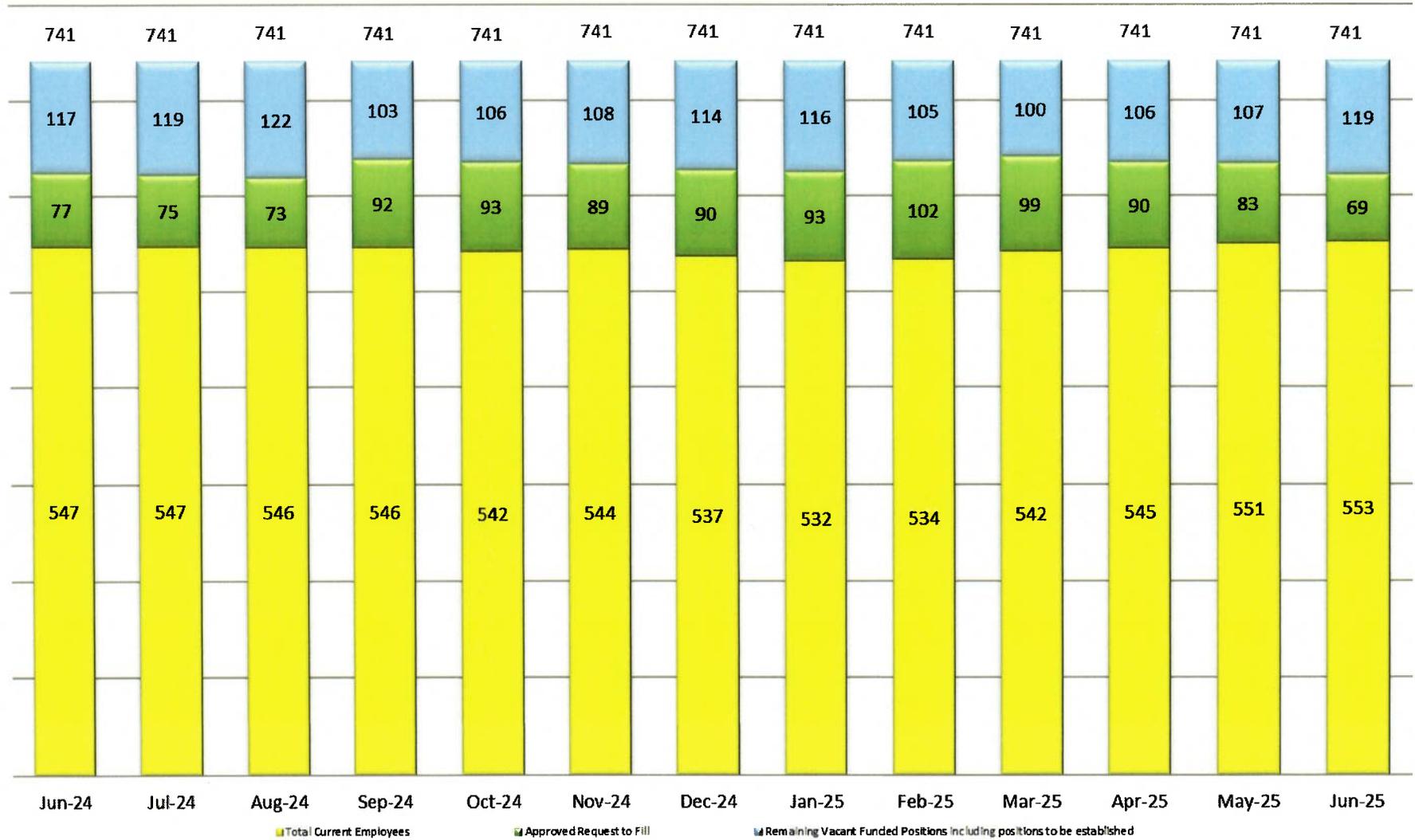
Attachment"

The foregoing was for information only.

DISCUSSION:

Michele Thomas, Executive Assistant I, Human Resources Office, gave the report. There were no comments or discussion.

Positions Filled June 1, 2024 through June 30, 2025



For the period Apr25-Jun25 Actions: 19 New Hires, 16 Promotions, 1 Demotion, 1 Transfer, 8 Separations, 6 Cancelled Requests

BOARD OF WATER SUPPLY

City and County of Honolulu

RECRUITMENT AND SEPARATION STATUS

For Period April 1, 2025 to June 30, 2025

Status of Positions Under Recruitment

	as of		
	4/30/2025	5/31/2025	6/30/2025
Pending DHR Open List (external recruitment)	28	24	16
Pending Internal recruitments	2	6	5
Pending Final Interview Questions	7	9	3
Pending Interviews with Division	28	27	29
Anticipated Starts (pre-employment clearances)	24	14	14
Cancelled Requests	1	3	2
Total Positions Under Recruitment	90	83	69

Filled Positions

Month	Apr-25	May-25	Jun-25
Open list	4	10	5
Internal Promotions	3	5	7
Internal Demotions/Transfers	1	1	0
Reallocations	3	2	2

Separations

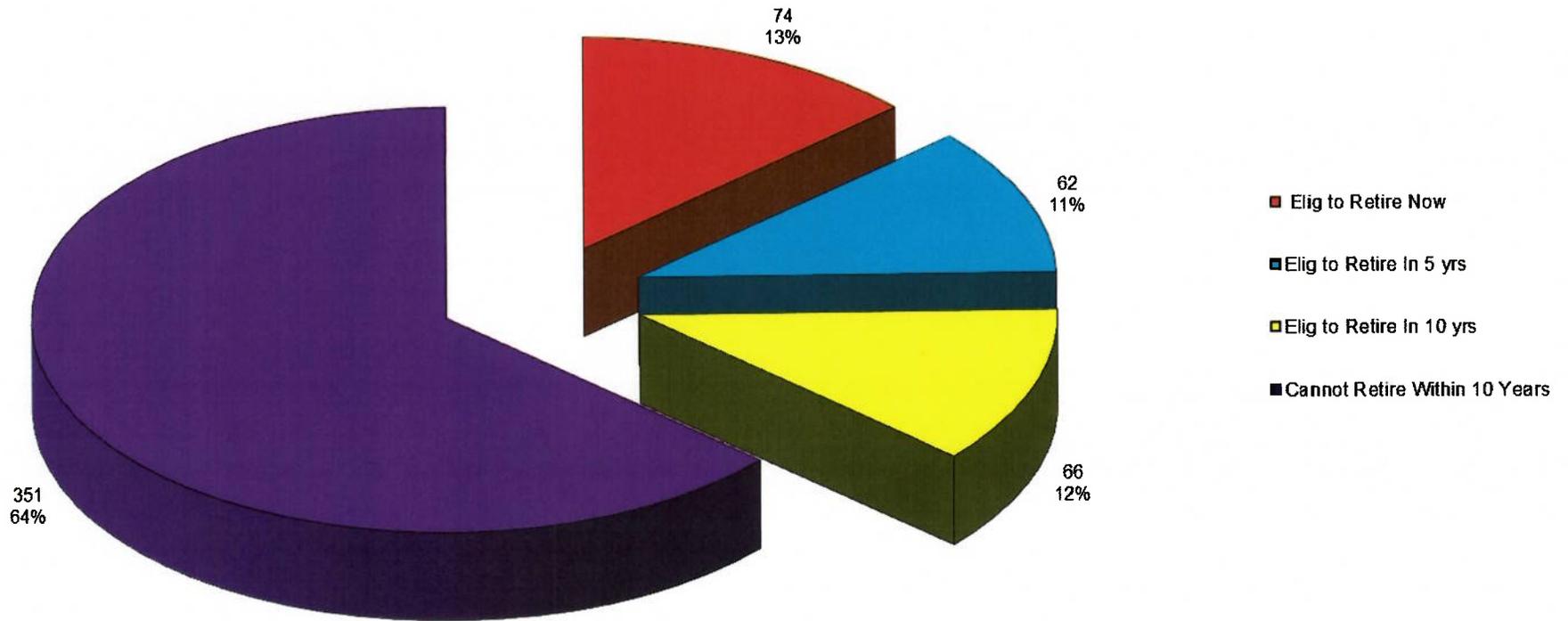
Month	Apr-25	May-25	Jun-25
Retire	0	1	0
Resign/Termination/Other	1	3	3

Legend:

DHR = Department of Human Resources City and County of Honolulu

Reallocation = Employee has demonstrated competency in higher level position and position was adjusted

BWS Retirement Projections As of June 30, 2025





RECRUITMENT STATUS UPDATE

Michele L. Thomas

July 28, 2025

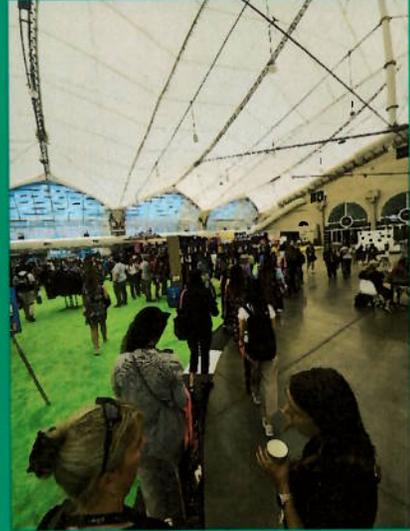
boardofwatersupply.com

BWS RECRUITING ACTIVITIES



**Operation Hire Hawaii
Recruitment Event**
Hawaii Convention Center







NEXT UP...

SAVE THE DATE

July 30, 2025 (Wed)

9am-2pm

Neal Blaisdell Center Exhibition
Hall

Discover new opportunities!



ITEM FOR INFORMATION NO. 3

"July 28, 2025

UNIVERSITY
OF HAWAI'I
ECONOMIC
RESEARCH
ORGANIZATION
UPDATE ON THE
ECONOMIC
FORECAST

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843
Chair and Members:

Subject: University of Hawai'i Economic Research Organization
Update on the Economic Forecast

Carl Bonham, Ph. D., Economics, University of Hawai'i Economics
Research Organization, will give an Update on the Economic Forecast.

Respectfully Submitted,

/s/ ERNEST Y. W. LAU, P.E
Manager and Chief Engineer

Attachment"

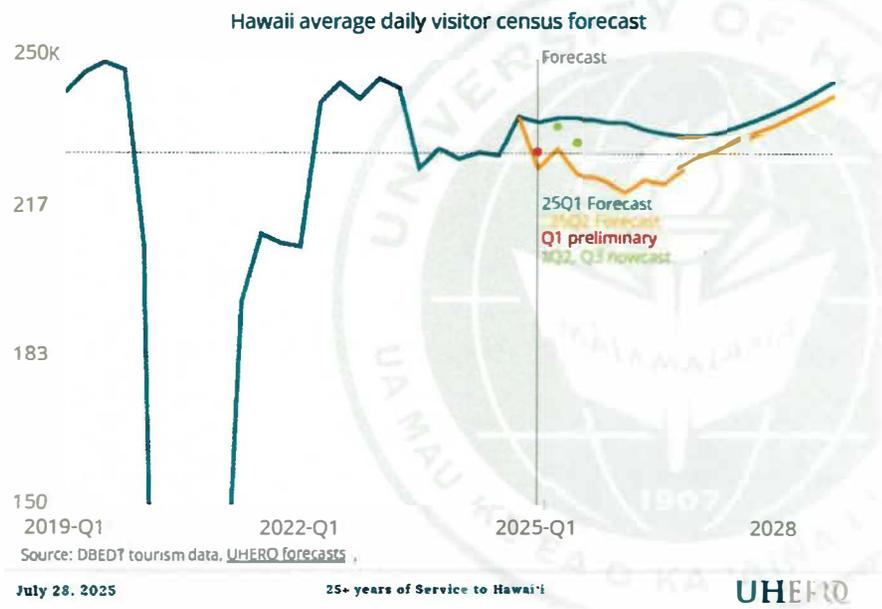
The foregoing was for information only.

DISCUSSION:

Carl Bonham, Ph. D., University of Hawai'i Economics Research
Organization, gave the report.

Manager Lau referred back to slide nine and inquired whether it was
possible that the reason Oahu's spending was higher than the rest of the
islands could be because people had been purchasing before tariffs
increased.

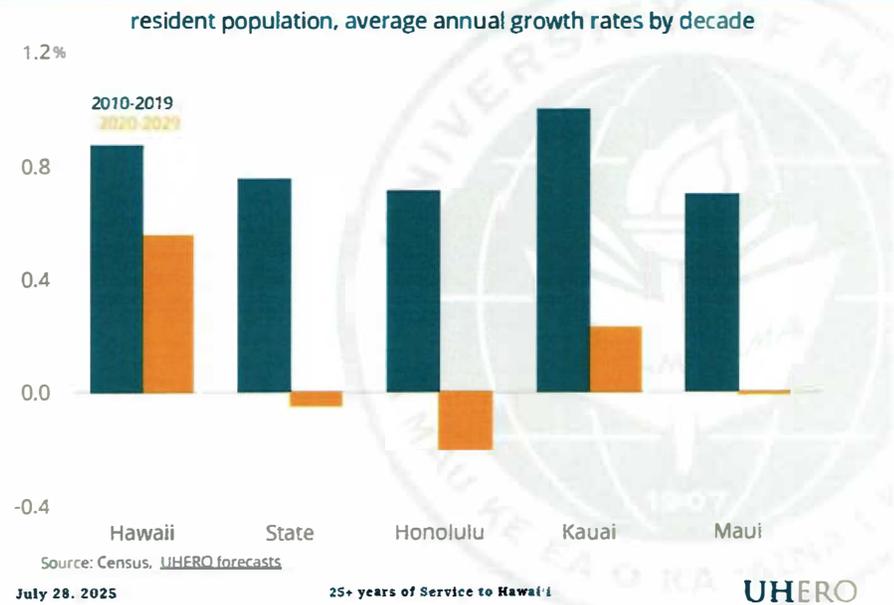
Tourism strength is expected to fade as tariff impacts emerge



Dr. Carl Bonham replied that he is puzzled since the number of people on Oahu is down; however, real spending is up by 11%, even and hotel prices aren't up, even with hotel rates at an average.

Manager Lau referred to the second-to-the-last slide and inquired whether there's a trend showing that people will stay in their jobs longer.

Long term risk comes from demographics



Dr. Bonham responded that that's something all employers will need to address. An older workforce needs more scheduling flexibility. To the extent employers can adjust and allow remote work or flexible work hours, we will see more and more people working longer.

Manager Lau commented that allowing schedule flexibility will enable employers to stay competitive.

Dr. Bonham mentioned that numerous changes are associated with technology, including the rise of artificial intelligence (AI), which raises reasonable concerns that may lead to job elimination. He also noted that the whole country had experienced a decline in birth rates, natural population growth, and migration patterns. Mr. Bonham also stated that he is more concerned about whether employers can adapt to new ways of working with employees rather than AI.

Manager Lau asked Mr. Bonham what his predictions are for the future.

Dr. Bonham replied that once the state of Hawai'i can overcome the current challenges associated with tariffs and cuts to social services, what is most worrisome is the impact of rising costs and how families will cope with it. However, Hawai'i's budget is in a good position and has a reasonable rainy day fund that can help address some of those challenges. There is a possibility that, at midterm, some of the policies implemented may start to be reversed in the next two to three years, when our community begins to feel the most burden. In the next decade, Hawai'i will experience limited growth unless it takes different actions; it all depends on us.

Board Member Lance Wilhem stated that what concerns him is that college enrollment rates are falling quickly; however, the need for specialized positions, such as engineers, is increasing. The demographics are bad, but the impact is far worse.

Dr. Bonham shared that Rachel Inafuku, UHERO Research Education, Ph.D., Economics, at the UH Manoa, has done a study specifically on UH and has seen a slight uptick. However, it is a concern that Hawai'i may have fewer people, which could result in fewer college students for skilled positions. He suggested the BWS start outreach at the high school level and offer internships that could potentially lead to a permanent position.

Board Member Wilhelm commented that as the cost of hiring rises, some believe going to college is not worth it.

Dr. Bonham responded that the narrative that college is not worth it is wrong, and referenced research on the UHERO website that demonstrates a dramatic difference in lifetime earnings for someone with a degree, even an Associate's degree, compared to someone with just a high school education or on-the-job training.

Manager Lau commented that there is always a need for more engineers. However, community colleges do not have the options to earn the operational skills necessary, such as those in the construction industry. He suggested working with community colleges, which could open that door.

Dr. Bonham agreed with Manager Lau's suggestion and stated that the construction industry had been offering training classes at Honolulu Community College to equip individuals with the skills needed to enter the workforce. Community colleges will also need to establish connections with high schools.

Manager Lau added that employers can also begin building connections with high school students. He shared that Waipahu High School has connected with the Academy of Engineering and some healthcare programs. Unfortunately, there is no comprehensive program that connects with students who may not consider attending college for two years and graduate with a skills trade that pays well.

Dr. Bonham commented that there are some fantastic programs.

Mr. Barry Usagawa, Program Administrator of the Water Resources Division, thanked UHERO for acquiring and compiling its data. He inquired about the federal government's cuts and how they may have impacted his confidence in gathering and providing data.

Dr. Bonham replied that there is less confidence. He shared a substantial amount of data, primarily consisting of survey results, including consumer price data and employment statistics. The data is compiled from completed and returned surveys sent to businesses and households, which is then compared to the yearly unemployment insurance records. Unfortunately, since the pandemic, the number of survey participants has declined, resulting in smaller sample sizes and uncertainty. He added that, due to the hiring freeze, the Bureau of Labor Statistics has stopped publishing data for some metropolitan areas because of a lack of employees.

Dr. Bonham also mentioned that he was concerned about the tourism data. The agricultural declaration form survey is being converted to digital, while some participants are still receiving paper surveys, but the number of participants has also declined.

Mr. Usagawa stated that grocery prices are rising; what affects the BWS is the price and availability of construction supplies and materials. He inquired if Dr. Bonham had seen construction supply prices rise.

Dr. Bonham responded that UHERO does not have access to prices for construction materials; therefore, it relies on national data. He shared that he is hearing that builders are struggling with the price increases and have difficulty obtaining price quotes due to the rapid changes in prices.

Manager Lau commented that what is hurting everyone is the uncertainty, which makes it challenging to plan and adjust to changes, making it hard to conduct business.

Dr. Bonham responded that the recent tariff level announcements could provide a little certainty. Unfortunately, that may change depending on the President.

Manager Lau commented that the challenge lies in how businesses manage uncertainty and fluctuating prices while still completing projects.

Dr. Bonham replied that the uncertainty will cause some projects to stop. He mentioned that the previous UHERO forecast indicated that the construction would be slow and not a major contributor to growth.

Mr. Usagawa stated that he's trying to forecast water demand; unfortunately, there's a combination of conflicting or opposing factors: climate change, increasing temperatures, increasing demands, and conservation efficiencies reducing water demand. However, the data collected and presented today indicated that O'ahu's population is decreasing, which also reduces water demand. Is that information reflective of the demographic changes?

Dr. Bonham responded that O'ahu's population will continue to decrease due to people leaving the island, community members passing away, the aging of O'ahu's population, and a decline in the number of children being born.

Mr. Usagawa commented that living on O'ahu is becoming more expensive.

Dr. Bonham shared that it began during the Great Recession. He explained that when UHERO started its forecast for the period of 2009 to 2010, it predicted that the birthrate would start to increase, which did not occur presumably due to high costs, climate change, the political environment, or fracturing in society. These are the things people consider when thinking about raising a family.

Manager Lau commented that families are becoming smaller.

Dr. Bonham agreed with Manager Lau's comment that the household size statewide is smaller, which also means the population is declining. However, smaller families living together in one home could drive up water use.



UHERO

THE ECONOMIC RESEARCH ORGANIZATION
AT THE UNIVERSITY OF HAWAII

ECONOMIC FORECAST UPDATE

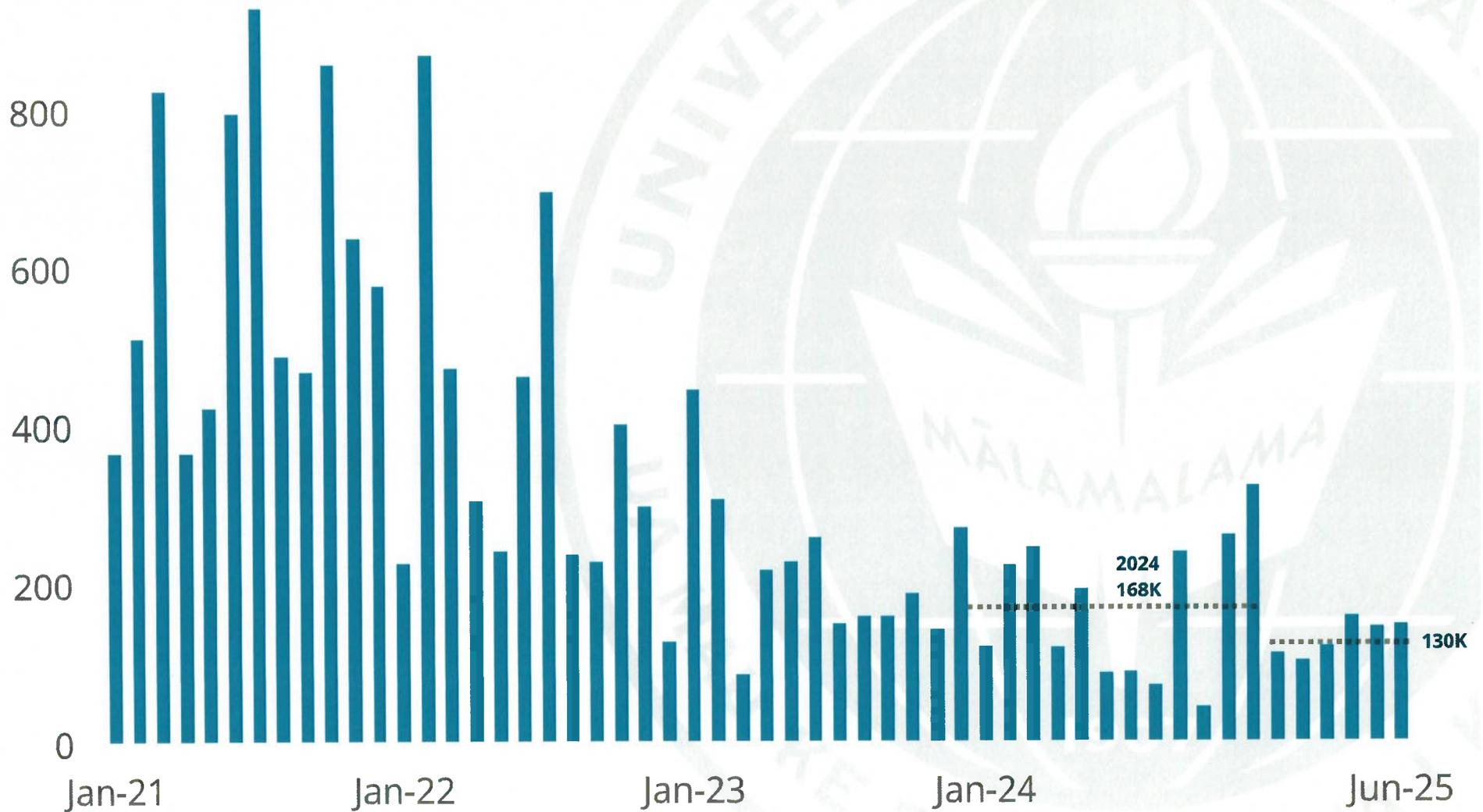
DR. CARL BONHAM
EXECUTIVE DIRECTOR, UHERO
PROFESSOR, DEPARTMENT OF ECONOMICS

HONOLULU BOARD OF WATER SUPPLY
JULY 28, 2025

The resilient US economy is critical to Hawaii

Monthly change in US non farm payroll jobs

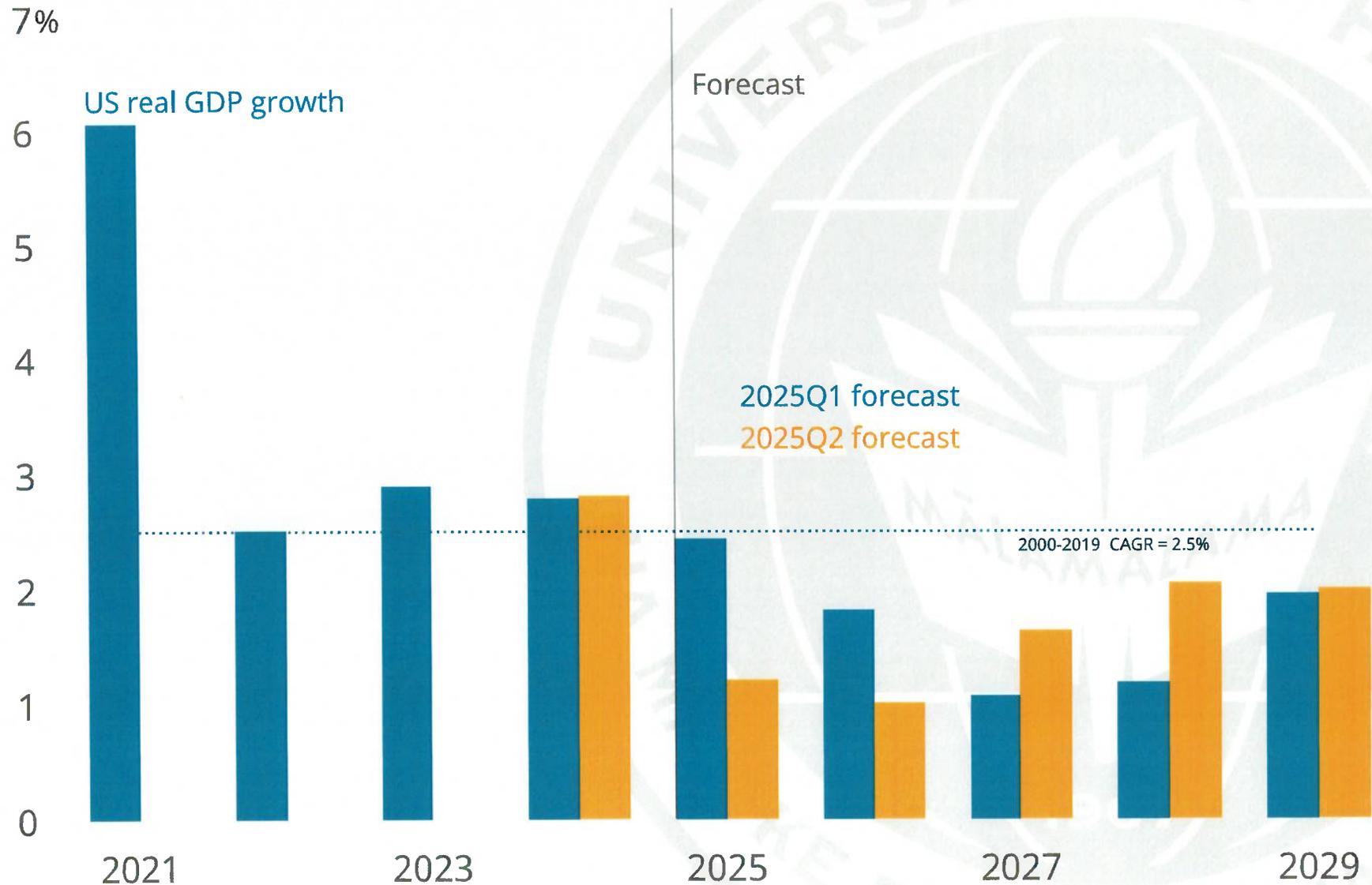
1,000K



Source: BLS

The resilient US economy is critical to Hawaii

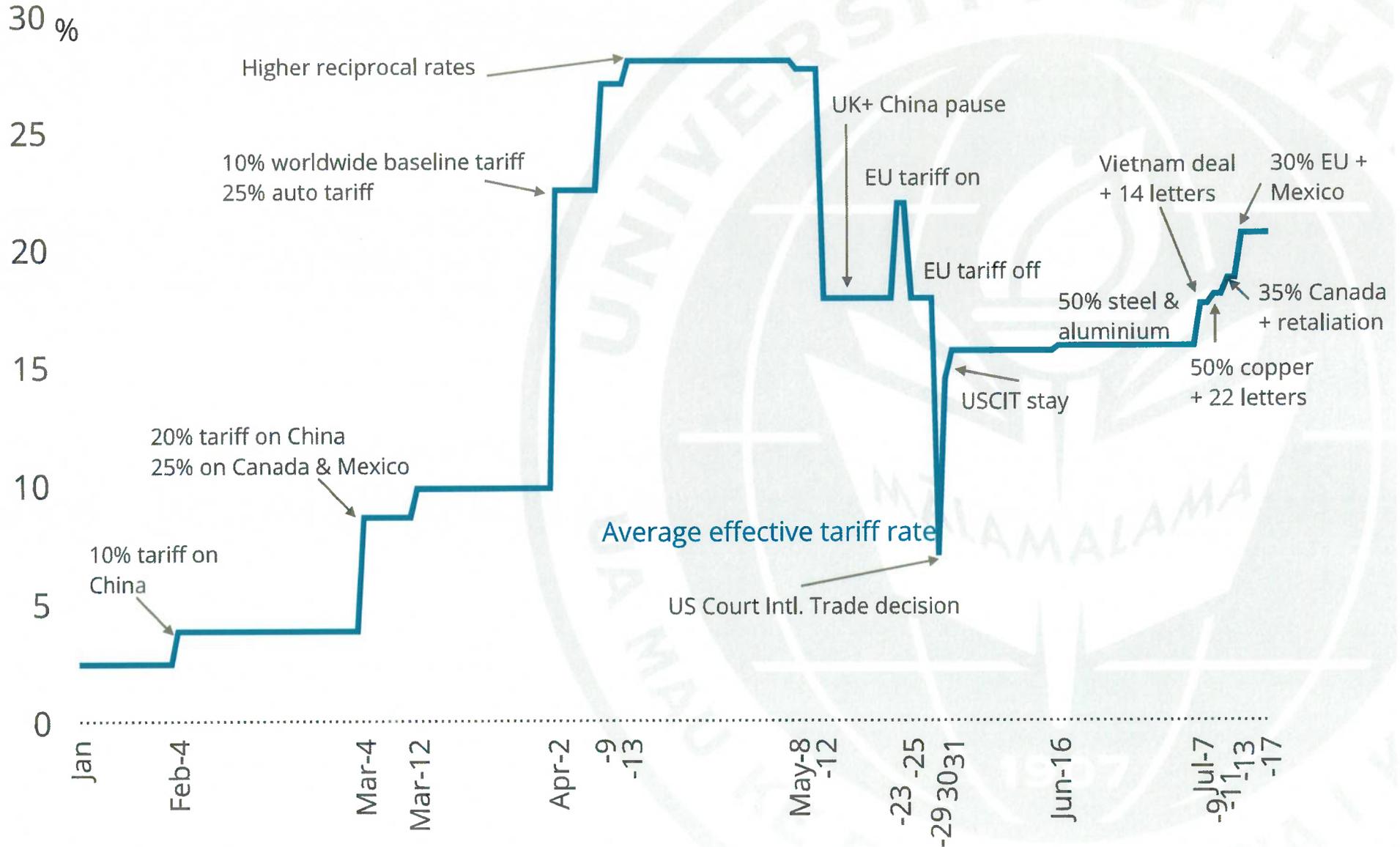
yet current policy suggests the best case scenario is mild stagflation



Source: BEA, UHERO forecasts.

The resilient US economy can withstand reasonable tariffs

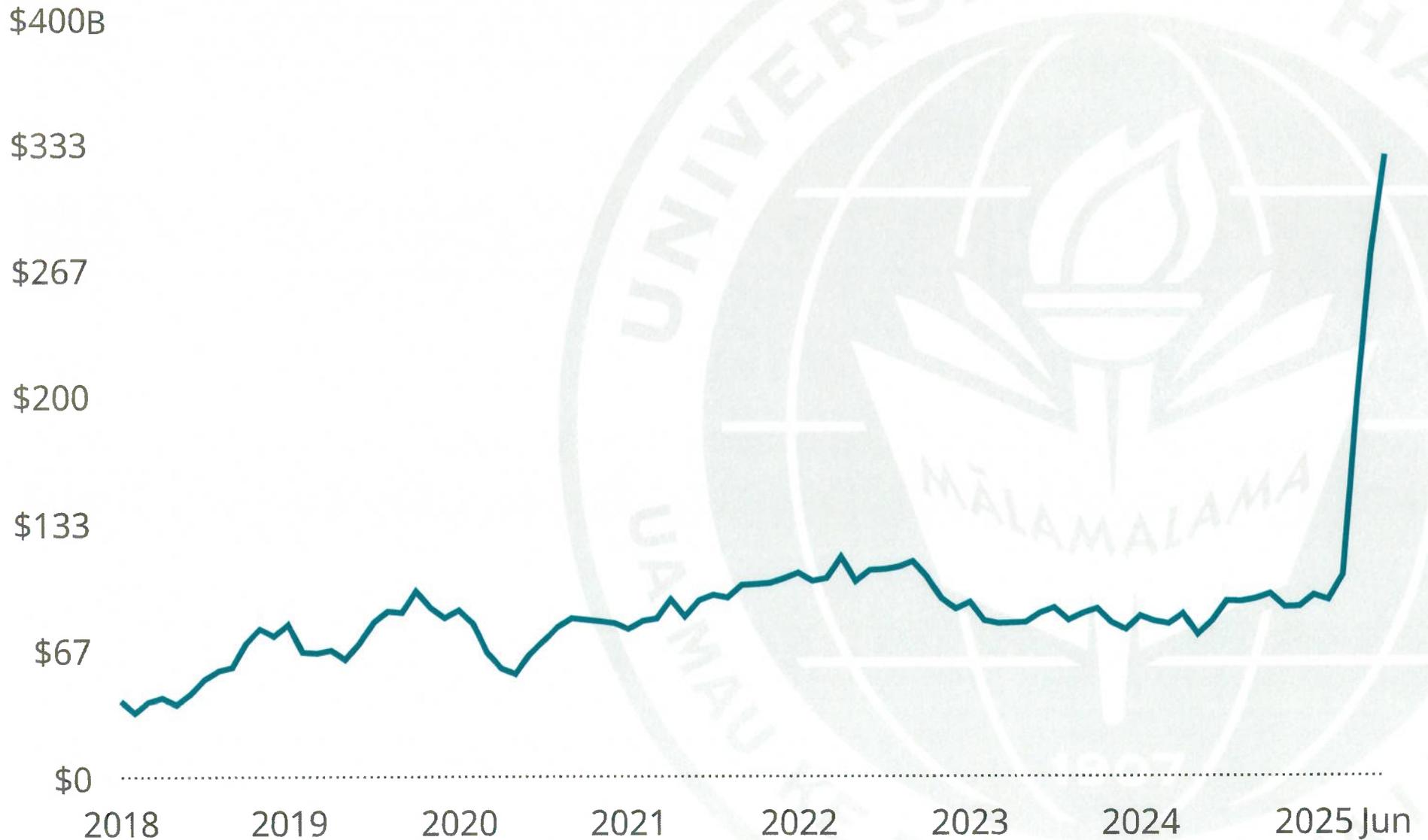
but the uncertainty is another issue—import at your peril



Source: Budget Lab at Yale

As costs to US Businesses and consumers are rising rapidly

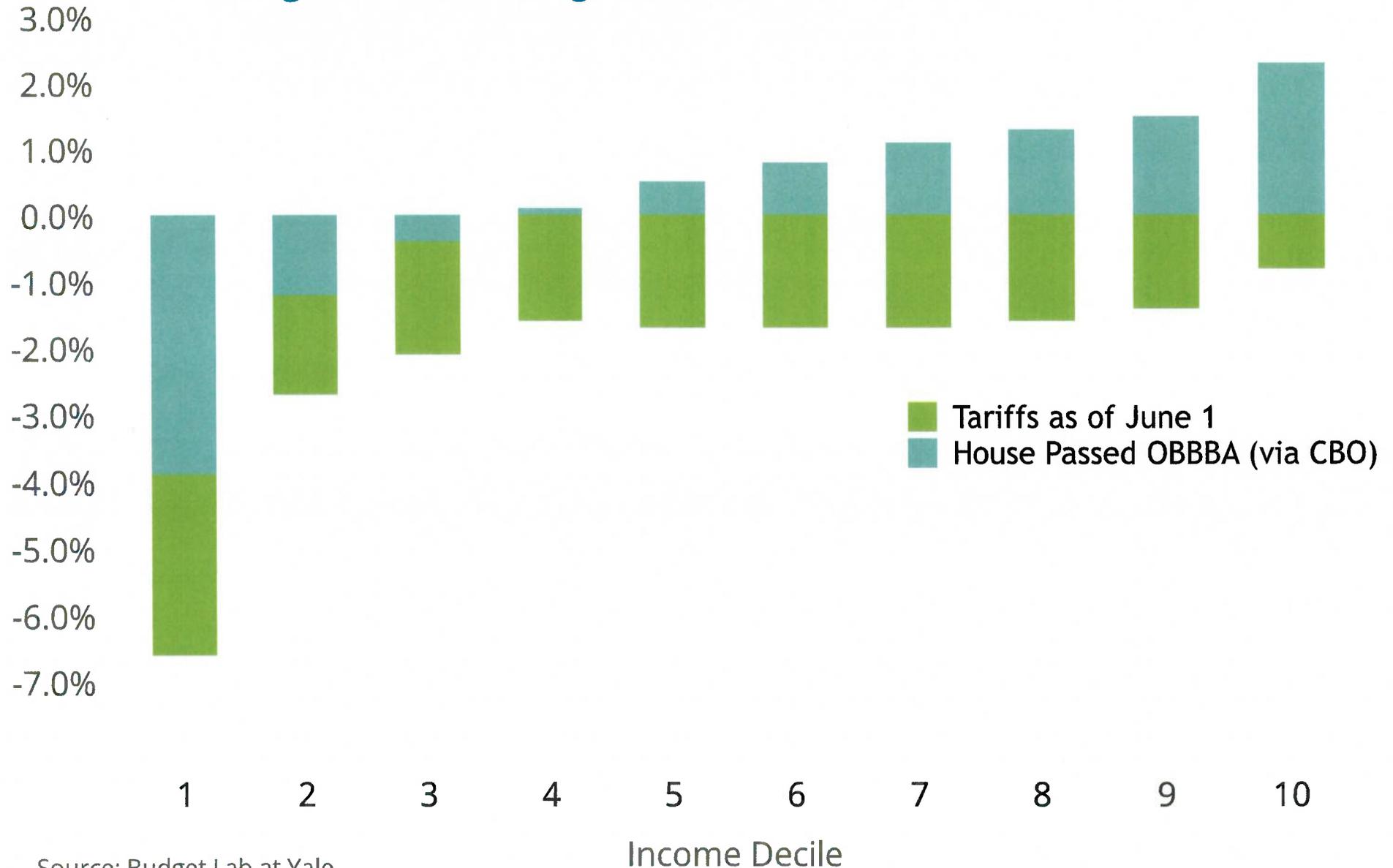
US Tariffs Paid



Source: US Treasury, monthly at annual rate.

Beyond tariffs—fiscal policy impacts loom

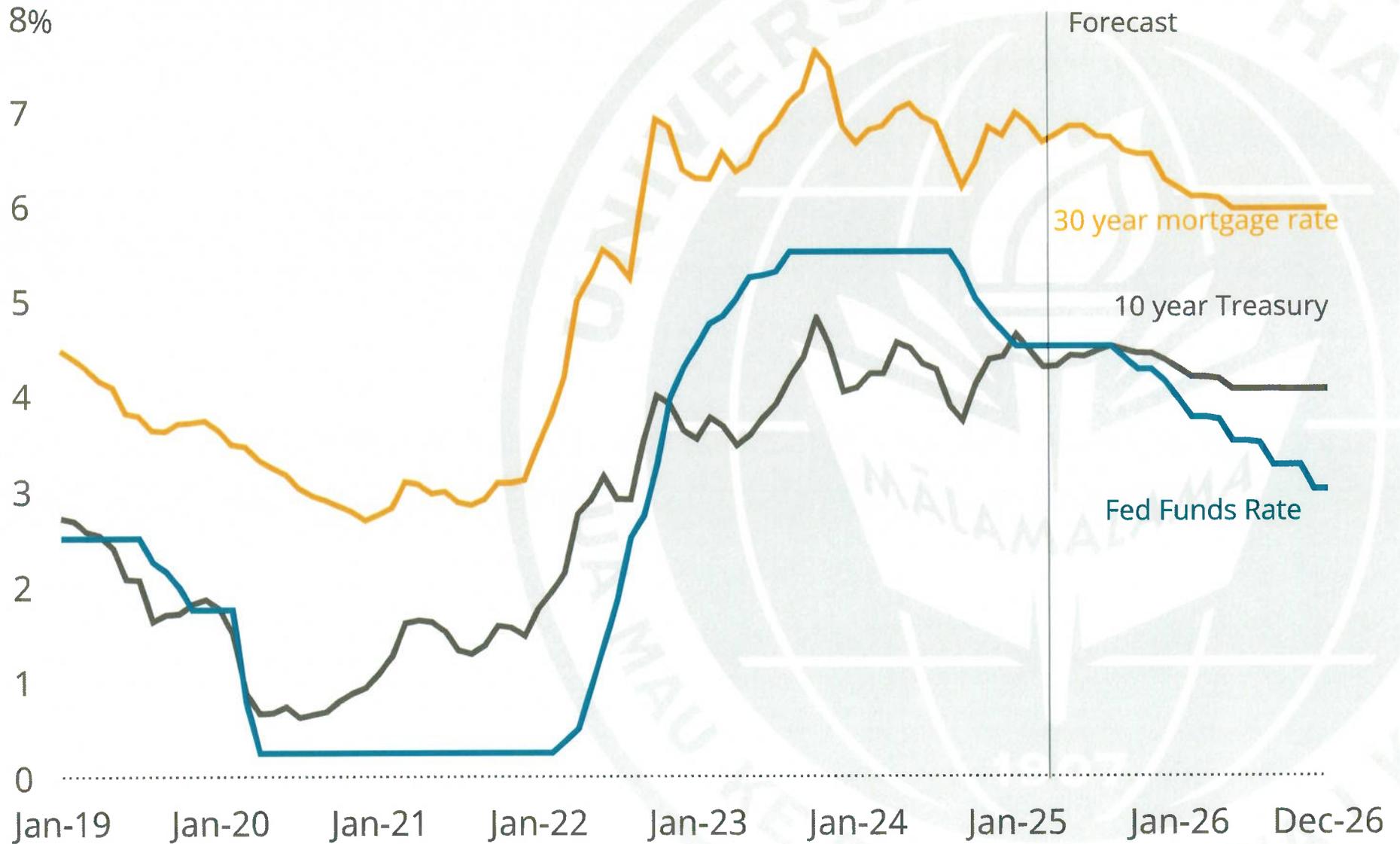
average annual % change in US after-tax-and-transfer income



Source: Budget Lab at Yale

Tariff inflationary pressure and weak growth outlook

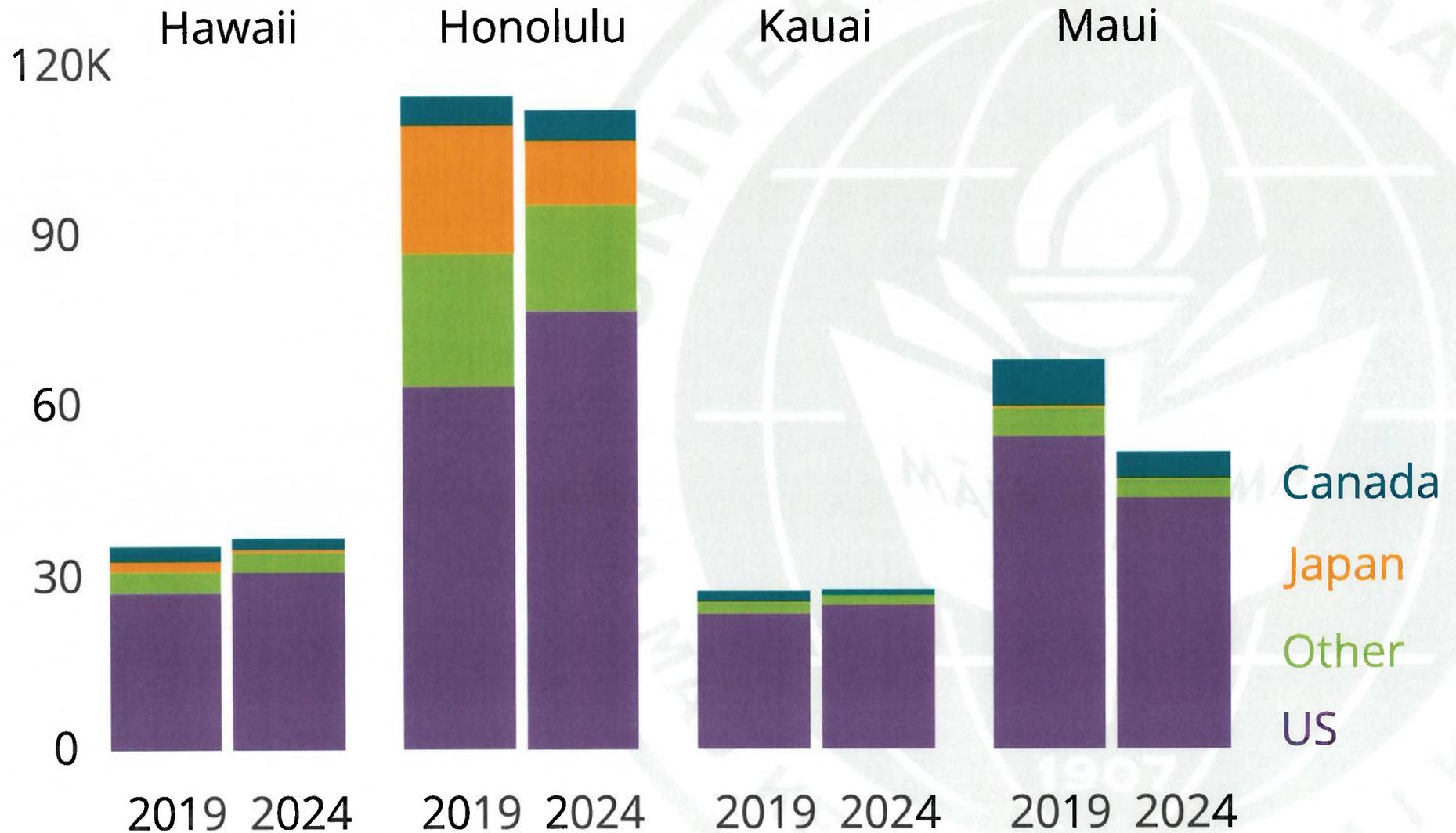
put the FED in difficult position



Source: Federal Reserve Board, UHERO.data.

Trade wars and tough talk place tourism at risk

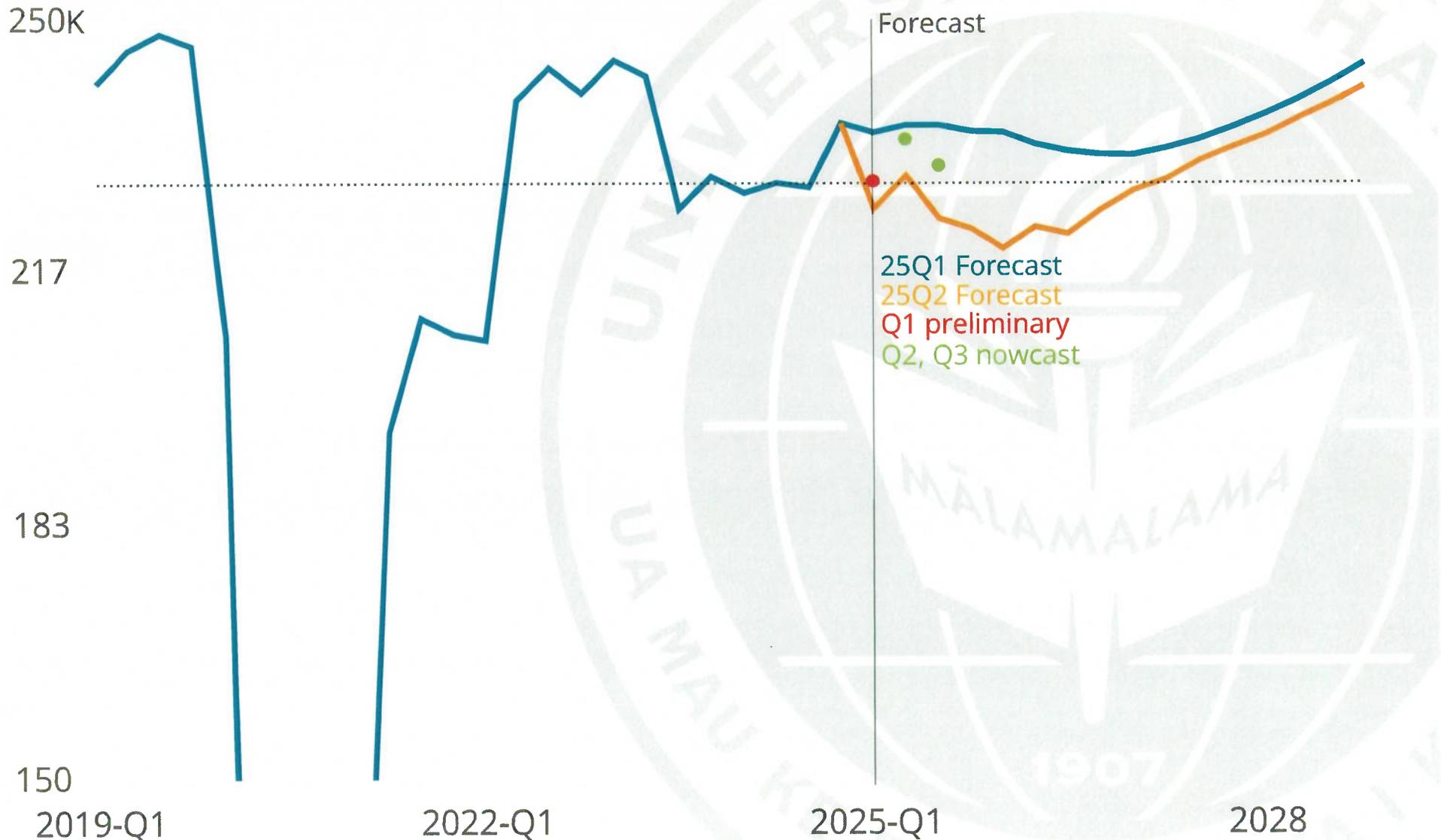
particularly affecting Maui and Oahu



Data: Visitor Average Daily Census by county and major market

Tourism strength is expected to fade as tariff impacts emerge

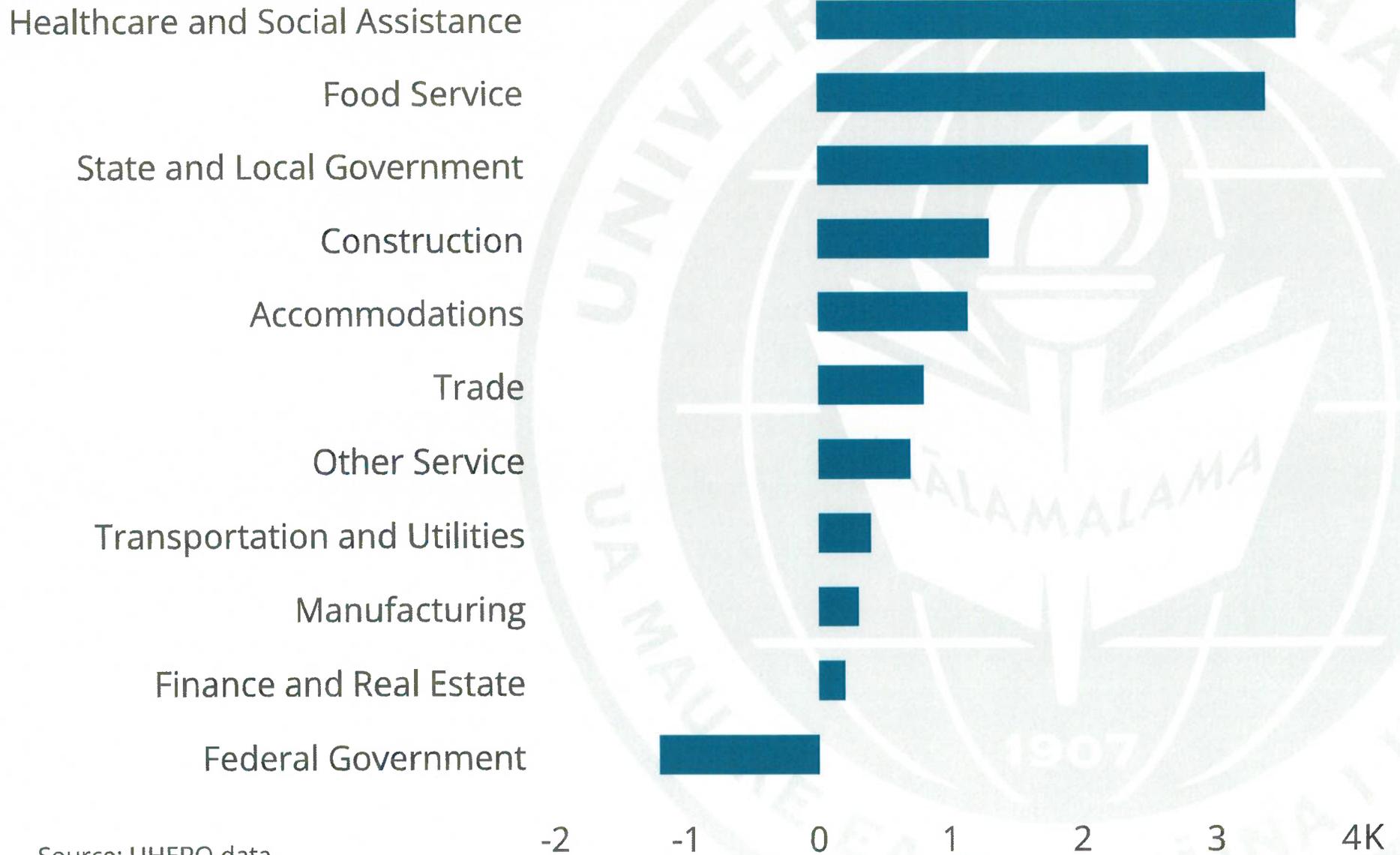
Hawaii average daily visitor census forecast



Source: DBEDT tourism data, UHERO forecasts,

Strong start to the year, yet federal job cuts loom

year-over-year change in jobs, June 2024 to June 2025



Source: UHERO.data.

Including risk to State, County, and private sector jobs

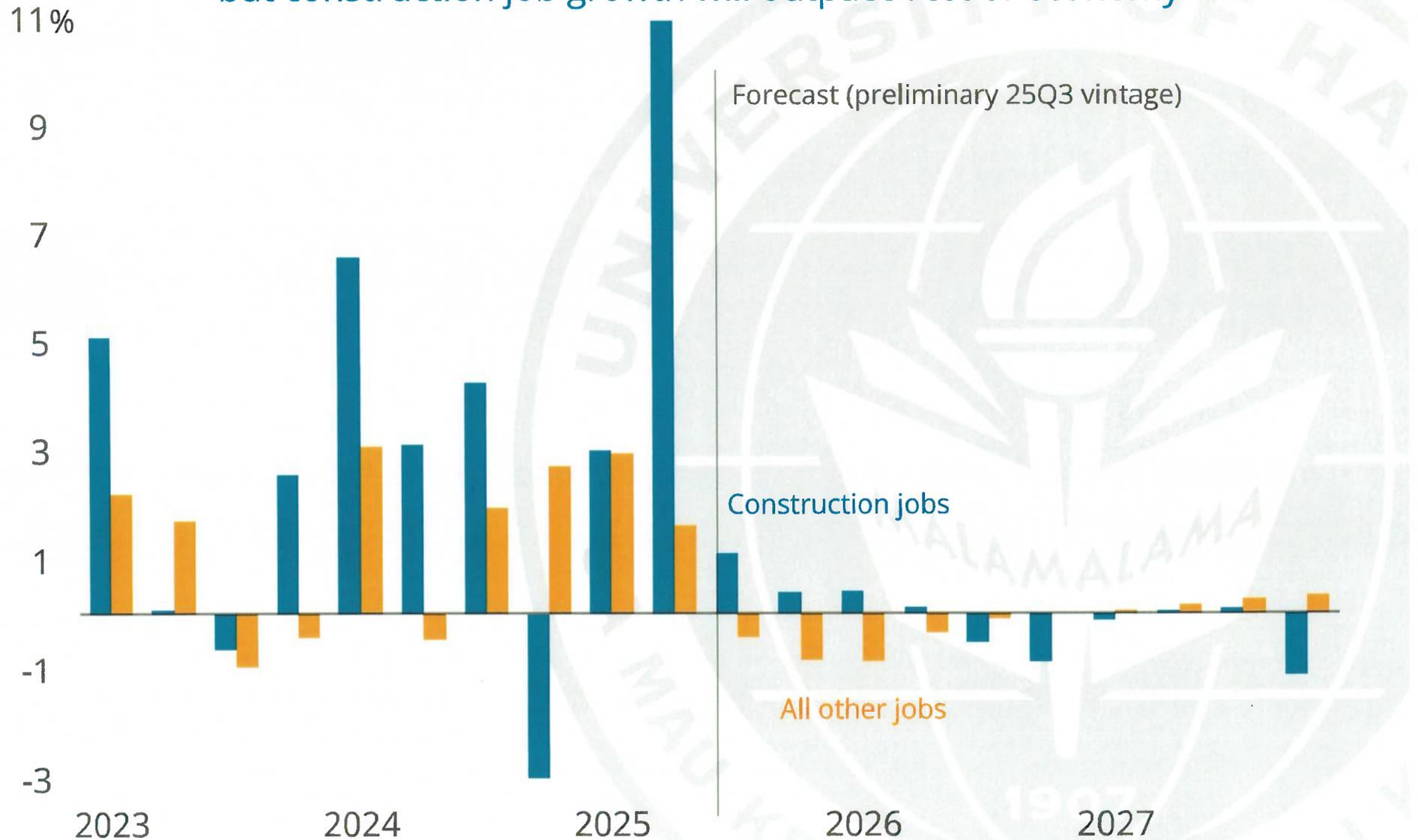
federally-funded State jobs by department

Dept.	Federally Funded Jobs	Total Jobs	Fed-funded Share of State Jobs (%)	Policy Risk
DHS	1,053	2,410	44	High
DOE	867	23,300	4	High
DOH	469	6,222	8	High
DLIR	356	605	59	Medium
DOD	236	504	47	Medium
AGN	166	785	21	High
UH*	85	5,060	2	High
DLNR	64	1,149	6	High
All Others	80	9,451	<1	Low-Medium
Total	3,376	49,486	7	

Source: UHERO forecasts. * Does not include extramural research funding from federal agencies.

And construction is nearing its peak

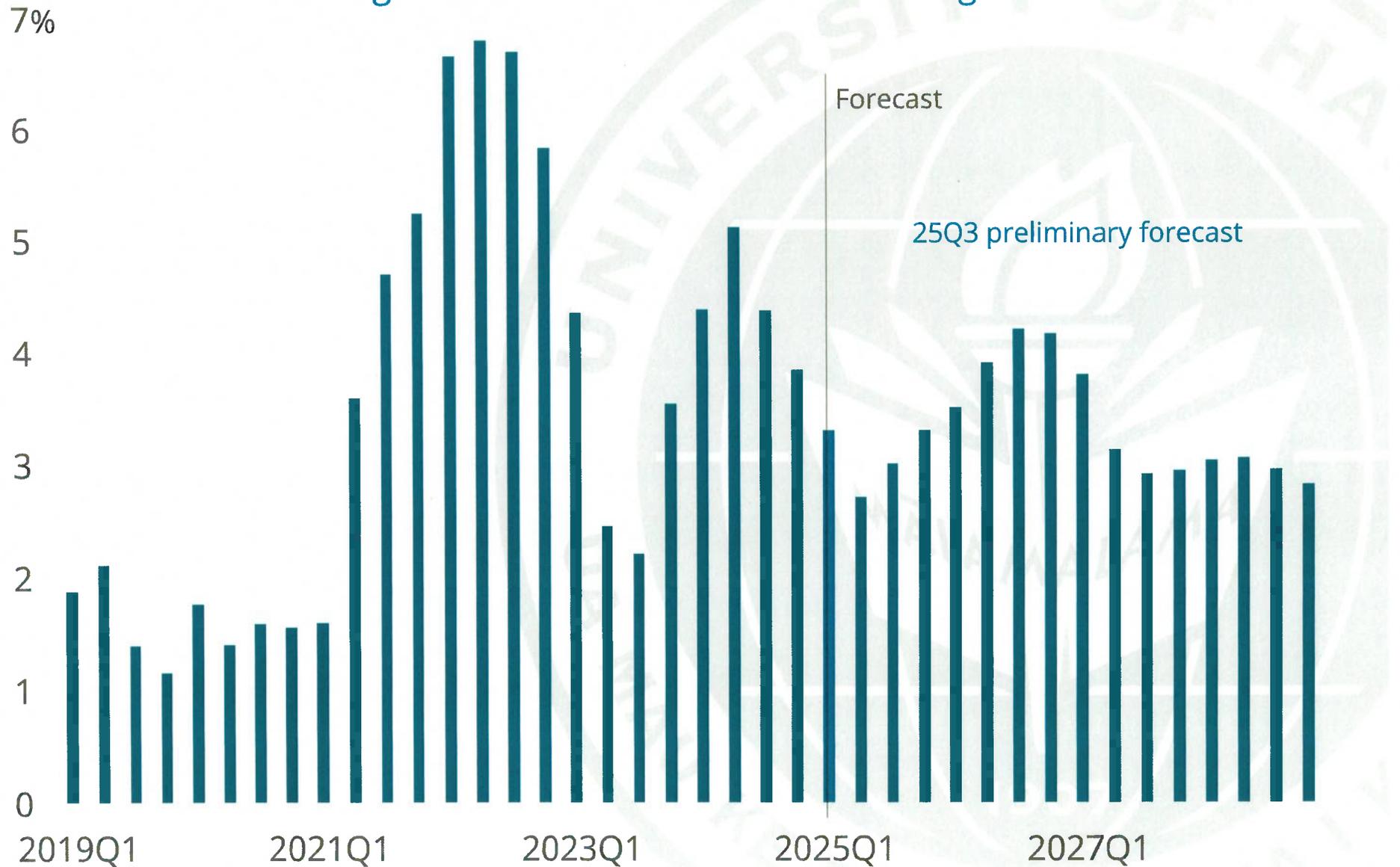
but construction job growth will outpace rest of economy



Source: BLS, UHERO forecasts. Quarterly annualized job growth.

Meanwhile inflation is likely to bounce

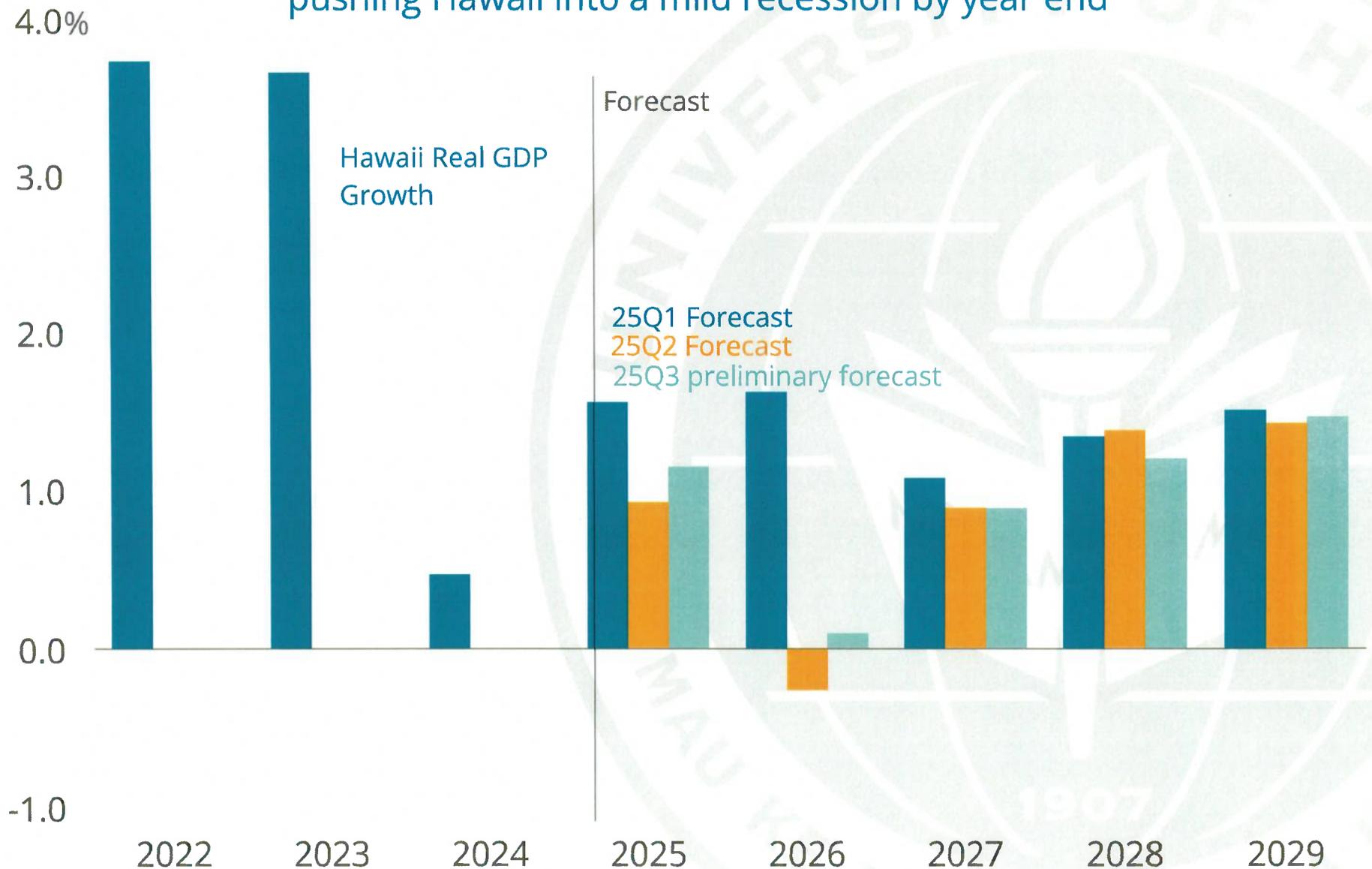
holding Honolulu inflation above 3% through 2026



Source: BLS, UHERO forecasts.

While Federal policies reduce near term growth prospects

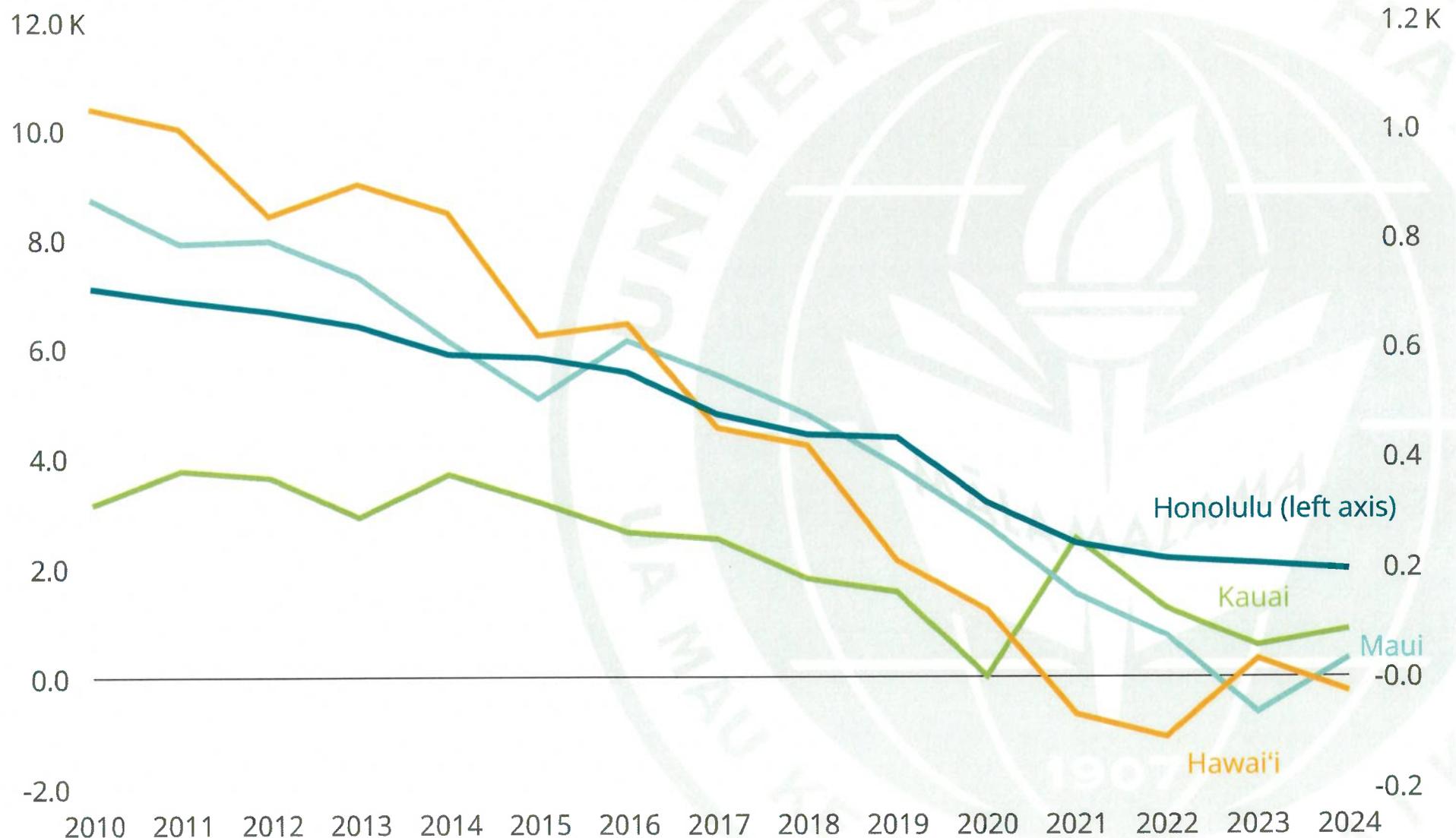
pushing Hawaii into a mild recession by year end



Source: BEA, BLS, UHERO forecasts.

Longer-term prospects depend on homes, education, jobs

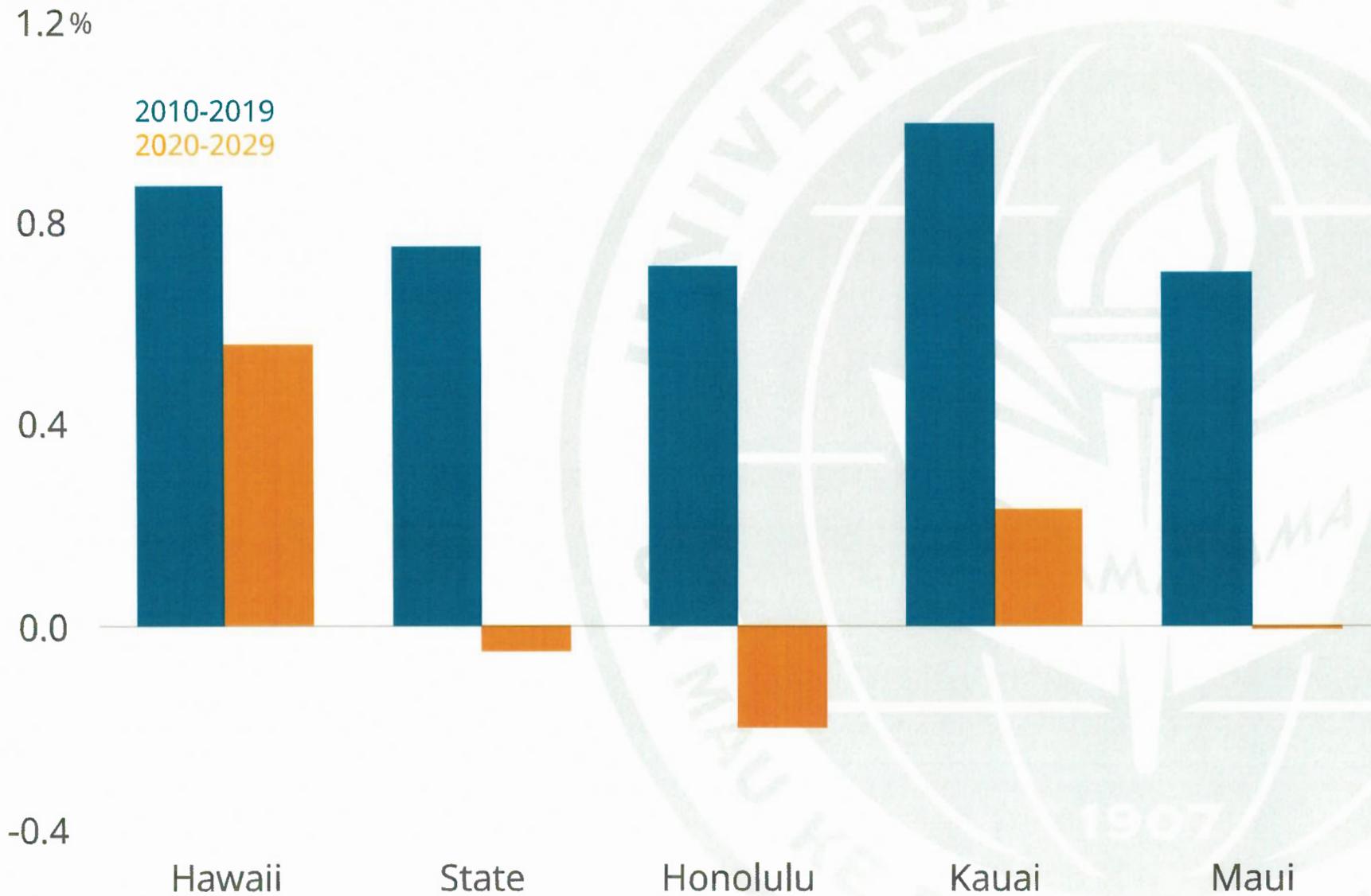
particularly as natural population change has declined precipitously



Source: DOH, UHERO forecasts.

Long term risk comes from demographics

resident population, average annual growth rates by decade



Source: Census, UHERO forecasts

Insights



BLOGS

[Immigration Economics](#)

January 31, 2025

By Byron Gangnes Immigrants have always been an important part of America's population. But for just as long there have been concerns about the impact...

[Migration Effects of the Maui Wildfires: Early Indicators from State Tax Filings](#)

January 14, 2025

By Dylan Moore and Baybars Karacaovali (Office of Tax Research and Planning, Hawai'i Department of Taxation)* Executive Summary: An analysis of state income tax filing...

[Maui Wildfire Exposure Study and Registry Workshop](#)

December 23, 2024

By Ruben Juarez and Alika Maunakea Enhancing Resilience: Building Sustainable Health Registries for Disaster-Affected Communities December 4-7, 2024, Lahaina, Maui Workshop Summary, Lessons Learned, and Steps Forward...

[A Honolulu Empty Homes Tax: Impacts on Housing Supply and County Revenue](#)



NEWS

[Carbon Benefits of Agroforestry Transitions on Fallow Agricultural Lands - New UHERO Environment publication in Scientific Reports](#)

February 13, 2025

New UHERO Environment publication in Scientific Reports demonstrates important carbon benefits of transitioning fallow agricultural lands into varying agroforestry systems across Hawai'i. <https://www.nature.com/articles/s41598-025-87891-y>

[City partners with UHERO to launch Subsidized Housing Tracker](#)

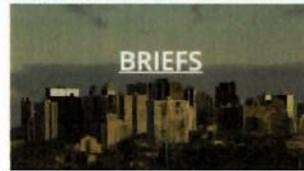
January 16, 2025

Addressing O'ahu's housing shortage and its impact on affordability, the City and County of Honolulu's Office of Housing, in partnership with the University of Hawai'i...

[UHERO's Carl Bonham and Colin Moore on Spotlight Now](#)

January 2, 2025

UHERO Executive Director Carl Bonham and Associate Professor Colin Moore appeared on Hawai'i News Now's Spotlight Now to reflect on the major economic and legislative...



BRIEFS

[Considerations for understanding water availability in West Maui](#)

January 21, 2025

This piece intends to highlight some of the inherent tradeoffs that make managing water in West Maui especially challenging. In particular, subtracting current/authorized use from...

[Wealth by Association? How Social Networks Drive Inequality in Hawaii](#)

April 25, 2024

Studies show that economic connectedness, a poor individual's share of wealthy friends, significantly impacts economic mobility. Hawaii ranks highly in this metric compared to other...

[Taxing Tourists to Generate Revenue to Address the Negative Impacts of Climate Change on Hawai'i Natural Resources](#)

April 5, 2024

There is widespread agreement among Hawai'i residents that the state government needs to spend more money on natural resource stewardship. A critical question is how...

[Brief: Dissolving the Hawaii](#)



FORECASTS

[UHERO Forecast for the State of Hawai'i: Outlook more uncertain as federal policy changes loom](#)

December 13, 2024

Hawaii's economic expansion continues, but slowly. Now the incoming Trump Administration introduces uncertainty. Under the assumption of policy changes that are sharp but limited in...

[UHERO Forecast for the State of Hawai'i: Lagging Maui recovery, slower speed limit for Hawaii growth](#)

September 20, 2024

Hawaii's economic outlook continues to be a story of two economies: a Maui economy that will only gradually recover from its post-wildfire downturn, and the...

[UHERO Forecast for the State of Hawai'i: Expansion intact, but counties poised for slower growth](#)

May 10, 2024

Hawaii's economy will continue to grow, but at a slower pace than in past years. Maui rebuilding and the incremental return of international travelers will...



REPORTS

[Investigating and Tackling Barriers and Needs for Small Business Success in Honolulu](#)

February 3, 2025

This report examines the state of small businesses in Honolulu in 2024, using both quantitative data and qualitative insights to identify key needs, challenges, and...

[Aging and Hawai'i's Generational Economy](#)

December 18, 2024

Hawaii's population is aging rapidly. By 2035 one in four people will be 65 or older according to the most recent projections. The purpose of...

[One year after the wildfires: Rising poverty and housing instability point to ongoing gaps in assistance](#)

October 8, 2024

The Maui Recovery Survey: Housing & Jobs monitors the housing and economic recovery of fire-impacted households on Maui. This initiative, launched one year after the...

[A Proposal for Real-Time Pricing Tariffs for Large Electricity Customers](#)



PUBLICATIONS

[New Study Reveals Food Insecurity as a Major Driver of Mental Health Challenges in Hawai'i](#)

February 24, 2025

A study published today in Frontiers in Public Health provides a comprehensive examination of how socioeconomic factors, particularly food insecurity, shape mental health outcomes among...

[Carbon benefits through agroforestry transitions on unmanaged fallow agricultural land in Hawai'i](#)

February 12, 2025

There are growing efforts to incorporate agroforestry into ecosystem service incentive programs. Indigenous and other place-based multi-strata agroforestry systems are important conservation and agricultural strategies,...

[Co-Production of Knowledge at Sumida Farm Trains a New Generation of Community-Engaged Scientists](#)

May 13, 2024

A collaboration between the University of Hawai'i (UH), Hawai'i Sea Grant, and the fourth generation of Sumida farmers

ITEM FOR INFORMATION NO. 4

“July 28, 2025

STATUS
UPDATE OF
GROUNDWATER
LEVELS AT
ALL INDEX
STATIONS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

Four aquifer index stations were in low groundwater condition for the production month of June 2025. Pearl City and Waialua are in Caution Status. Kaimukī and Punalu'u are in Alert Status. The monthly production average for June 2025 was 143.96 million gallons per day.

The Board of Water Supply rainfall index for the month of June 2025 was 77 percent of normal, with a 5-month moving average of 82 percent. As of July 8, 2025, the Hawai'i Drought Monitor shows abnormally dry conditions across O'ahu, grading to moderate drought conditions along the leeward coast. The National Weather Service is forecasting below-normal precipitation through at least September 2025.

Most monitoring wells exhibited stable to slightly decreasing head levels for the month of June 2025. This likely reflects the relatively lower rainfall combined with seasonally increasing production. Average monthly production for June 2025 is higher than June 2024 and the 5-year monthly average.

Respectfully Submitted,

/s/ ERNEST Y. W. LAU, P.E
Manager and Chief Engineer

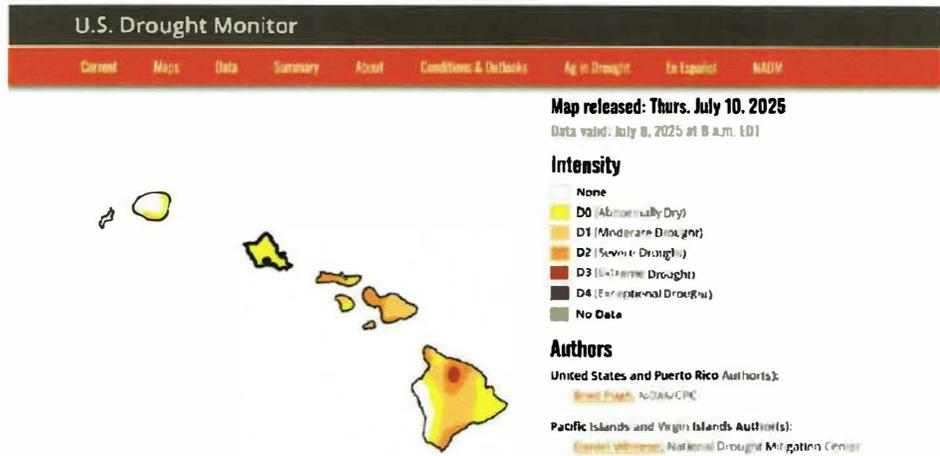
Attachment”

The foregoing was for information only.

DISCUSSION:

Barry Usagawa, Program Administrator, Water Resources Division, gave the report. There were no comments or discussion.

Chair Anthony referred to the U.S. Drought Monitor slide and inquired about the frequency of updates to this report.



Mr. Usagawa replied that it used to be updated every week. He mentioned that Mr. Kevin Kodama, who retired from the Federal National Weather Service, shared that the information collected was also validated on the ground with farmers and ranchers statewide. Rainfall data is not only information in the drought monitor reports.

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF JUNE 2025**

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.06
WAILUPE	0.00
AINA KOA	0.00
AINA KOA II	0.00
MANOA II	0.93
PALOLO	1.42
KAIMUKI HIGH	2.51
KAIMUKI LOW	1.17
WILDER	8.97
BERETANIA HIGH	0.69
BERETANIA LOW	2.14
KALIHI HIGH	3.81
KALIHI LOW	2.65
KAPALAMA	0.47
KALIHI SHAFT	8.26
MOANALUA	1.67
HALAWA SHAFT	0.00
KAAMILO	0.00
KALAUAO	8.91
PUNANANI	12.31
KAAHUMANU	0.28
HECO WAIU	2.73
MANANA	0.31
WAIALAE IKI	0.51
WELLS SUBTOTAL:	59.80
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTTL:	0.17
HONOLULU SUBTTL:	59.97

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.34
WAIMANALO III	0.00
KUOU I	1.56
KUOU II	0.37
KUOU III	0.71
LULUKU	0.84
HAIKU	0.27
IOLEKAA	0.00
KAHALUU	0.57
KAHANA	0.28
PUNALUU I	0.00
PUNALUU II	3.47
PUNALUU III	1.21
KALUANUI	1.30
MAAKUA	0.38
HAUULA	0.23
WELLS SUBTOTAL:	11.55
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.31
WAIHEE TUNNEL	4.66
LULUKU TUNNEL	0.24
HAIKU TUNNEL	0.29
KAHALUU TUNNEL	1.64
GRAVITY SUBTOTAL:	7.33
WIND. SUBTOTAL:	18.88

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.48
OPANA	0.98
WAIALEE I	0.40
WAIALEE II	0.00
HALEIWA	0.00
WAIALUA	1.73
N.SHORE SUBTOTAL:	3.60

MILILANI (4)	
MILILANI I	2.99
MILILANI II	0.00
MILILANI III	0.76
MILILANI IV	0.49
MILILANI SUBTOTAL:	4.25

WAHIAWA (5)	
WAHIAWA	1.23
WAHIAWA II	1.85
WAHIAWA SUBTOTAL:	3.07

PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	1.04
AIEA GULCH 550	0.23
KAONOHI I	1.96
WAIMALU I	0.00
NEWTOWN	2.04
WAIU	1.90
PEARL CITY I	0.81
PEARL CITY II	1.00
PEARL CITY III	0.21
PEARL CITY SHAFT	0.92
PEARL CITY-HALAWA SUBTOTAL:	10.10

STATION	MGD
WAIPAHU-EWA (7)	
WAIPAHU HTS.	1.94
WAIPAHU HTS. I	0.72
WAIPAHU HTS. II	0.38
WAIPAHU HTS. III	1.24
WAIPAHU	6.53
WAIPAHU II	2.20
WAIPAHU III	3.36
WAIPAHU IV	3.02
KUNIA I	6.25
KUNIA II	1.97
KUNIA III	1.45
HOAEAE	5.92
HONOULIULI I	0.00
HONOULIULI II	5.37
MAKAKILO	0.00
WAIPAHU-EWA SUBTOTAL:	40.35

WAIANAE (8)	
MAKAHA I	0.61
MAKAHA II	0.00
MAKAHA III	0.36
MAKAHA V	0.33
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.00
WAIANAE I	0.00
WAIANAE II	0.22
WAIANAE III	0.63
WELLS SUBTOTAL:	2.15
WAI. C&C TUNNEL	1.40
WAI. PLANT. TUNNELS	0.18
GRAVITY SUBTOTAL:	1.58
WAIANAE SUBTOTAL:	3.73

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.34
BARBERS POINT WELL	1.10
GLOVER TUNNEL NP	0.30
NONPOTABLE TOTAL:	1.74

RECYCLED WATER (MAY 2025)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	6.53
HONOULIULI WRF RO	1.54
RECYCLED TOTAL:	8.07

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF JUNE 2025**

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	134.87
GRAVITY	9.09
POTABLE TOTAL:	143.96
NONPOTABLE	1.74
RECYCLED WATER	8.07
TOTAL WATER:	153.78

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	JUN 2024	DIFF. A-B
1	HONOLULU	83.32	59.80	23.52
2	WINDWARD	25.02	18.88	6.14
3	NORTH SHORE	4.70	3.60	1.10
4	MILILANI	7.53	4.25	3.28
5	WAHIAWA	4.27	3.07	1.20
6	PEARL CITY-HALAWA	12.25	10.10	2.15
7	WAIPAHU-EWA	50.63	40.35	10.28
8	WAIANAЕ	4.34	3.73	0.61
TOTAL:		192.06	143.79	48.27

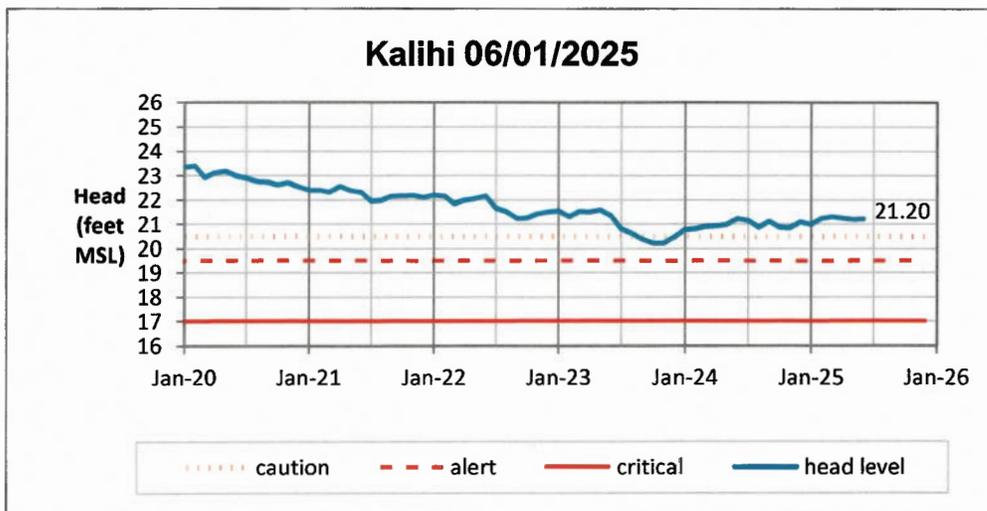
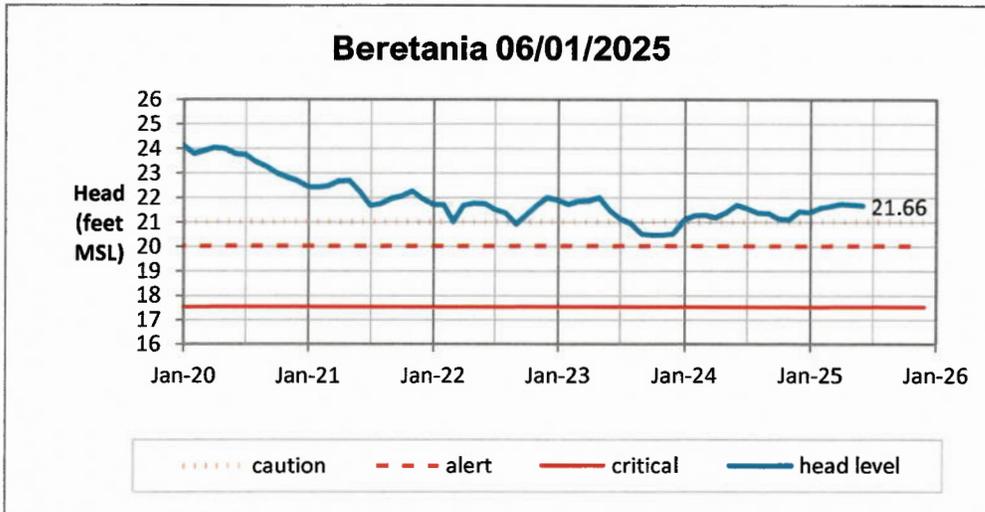
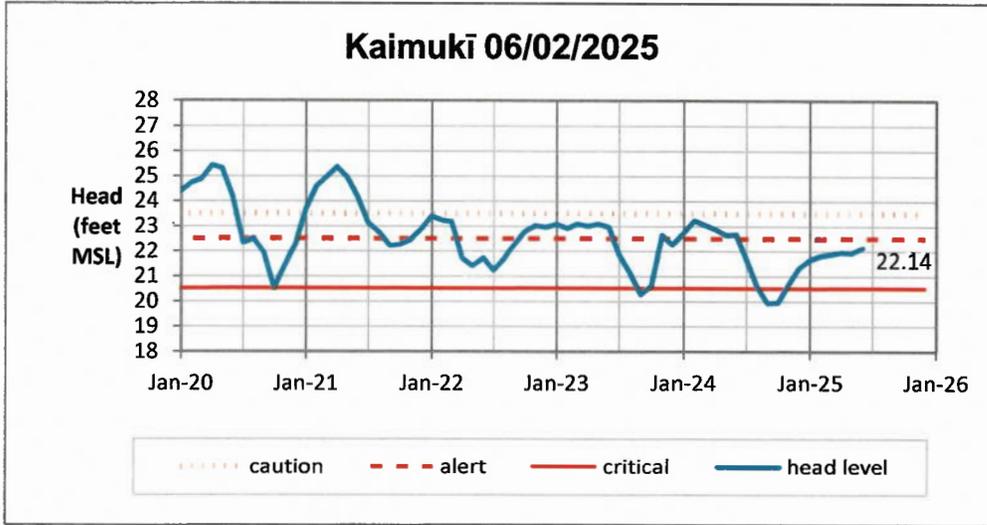
CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE	JUN 2024	DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.10	-0.10
TOTAL:		1.00	1.10	-0.10

EFFECTIVE WATER DEMAND PER DISTRICT

IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.10
7	8	BARBERS PT LB	6.23

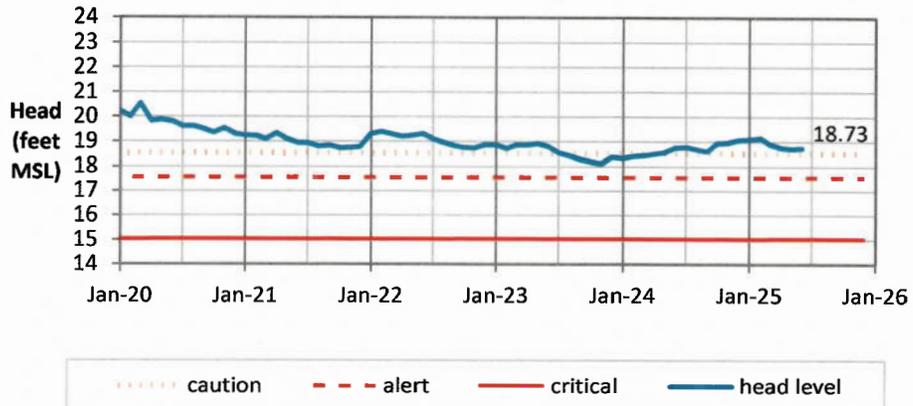
WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	59.97	0.10	-	60.07
2	WINDWARD	18.88	-	0.10	18.78
3	NORTH SHORE	3.60	-	-	3.60
4	MILILANI	4.25	-	-	4.25
5	WAHIAWA	3.07	-	-	3.07
6	PEARL CITY-HALAWA	10.10	-	-	10.10
7	WAIPAHU-EWA	40.35	-	6.23	34.11
8	WAIANAЕ	3.73	6.23	-	9.96
TOTAL:		143.96	6.33	6.33	143.96

Head Report

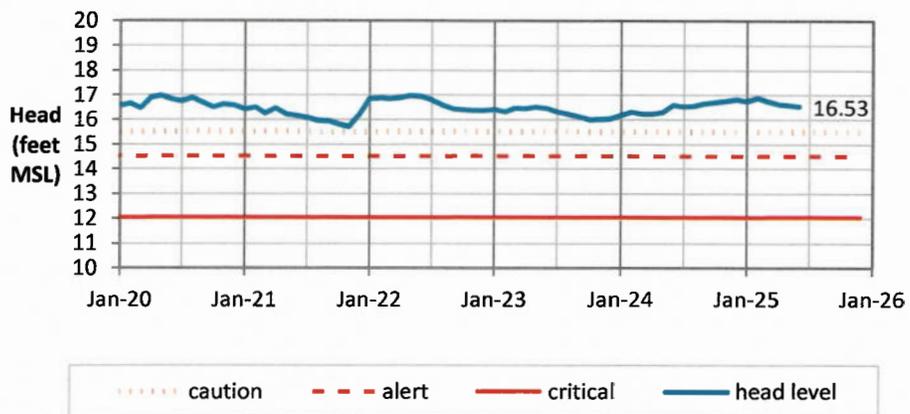


Head Report

Moanalua 06/01/2025



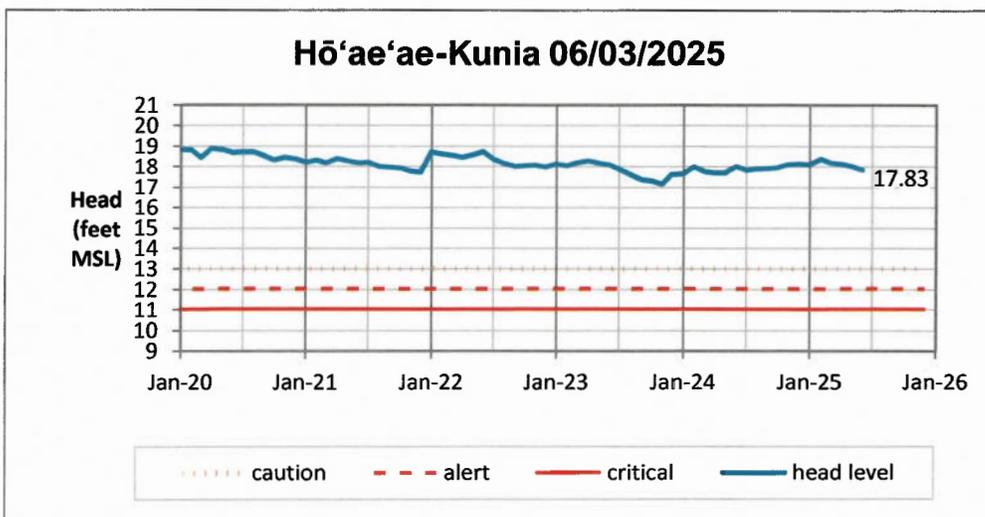
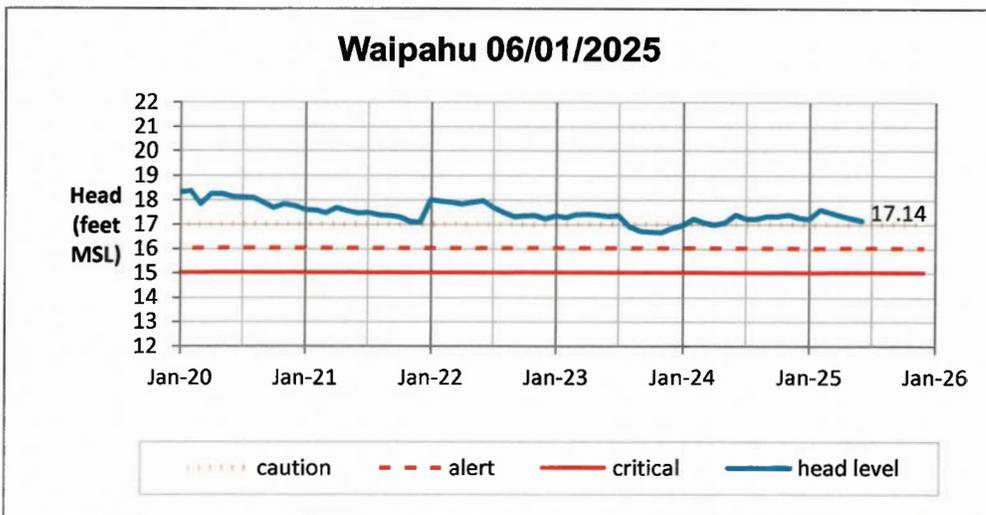
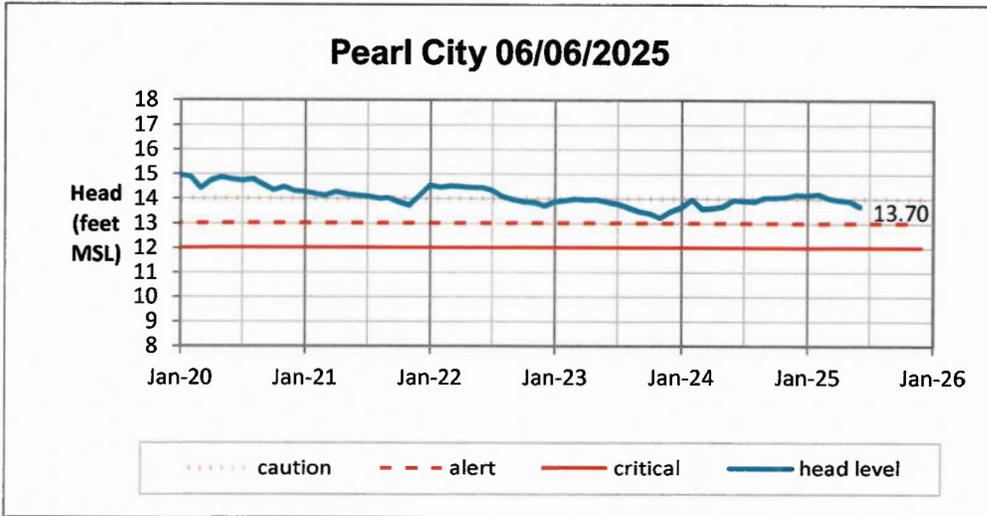
Hālawā 06/01/2025



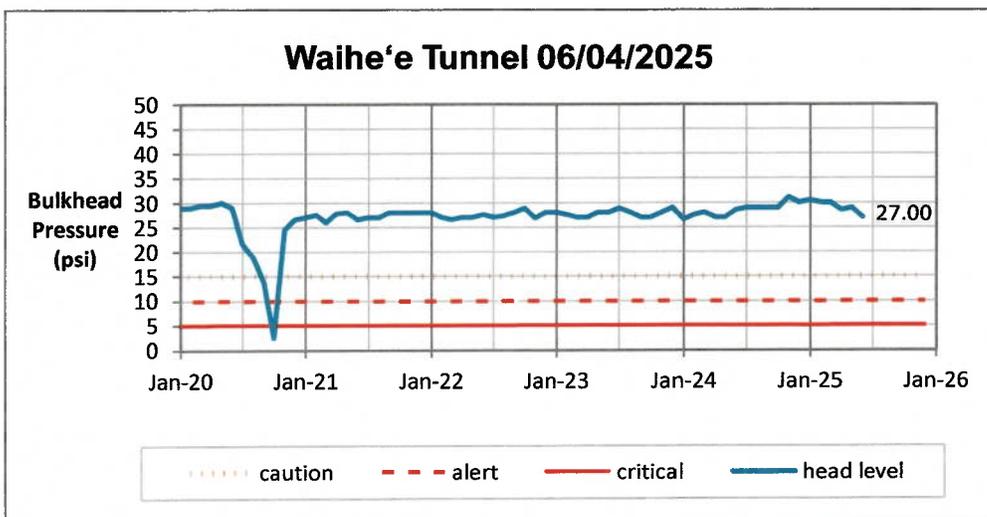
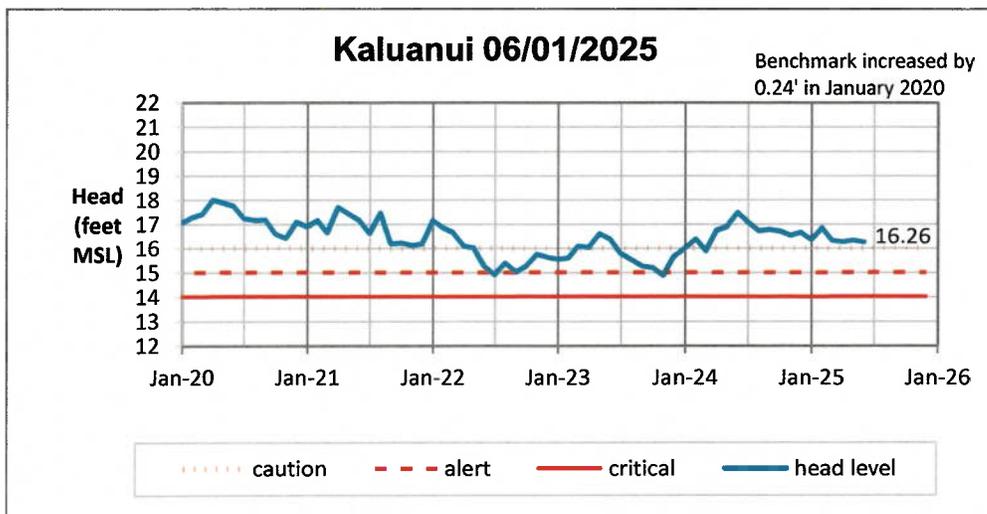
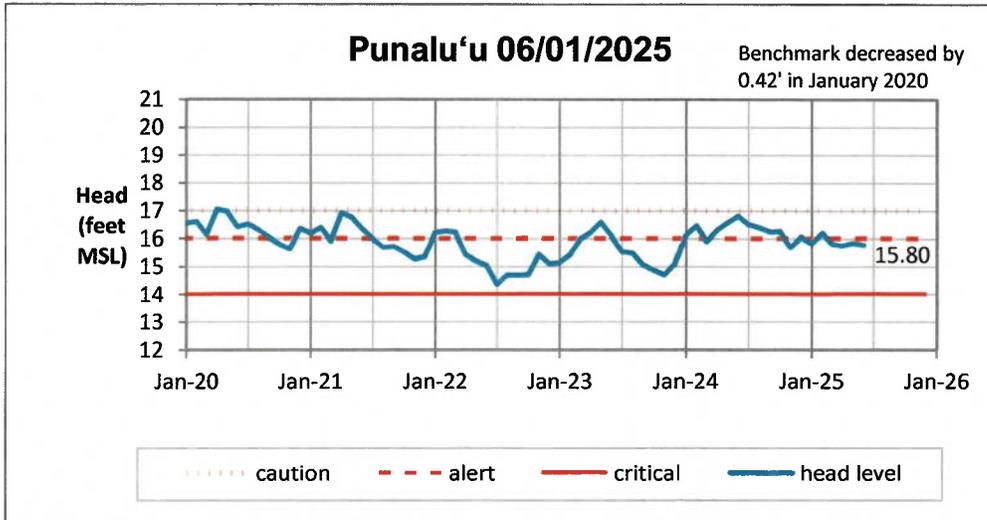
Kalauao 06/04/2025



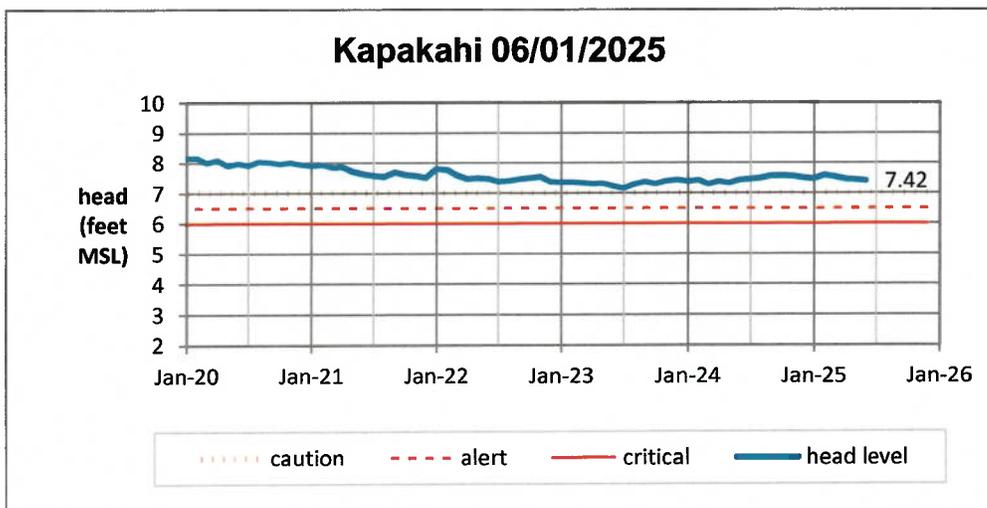
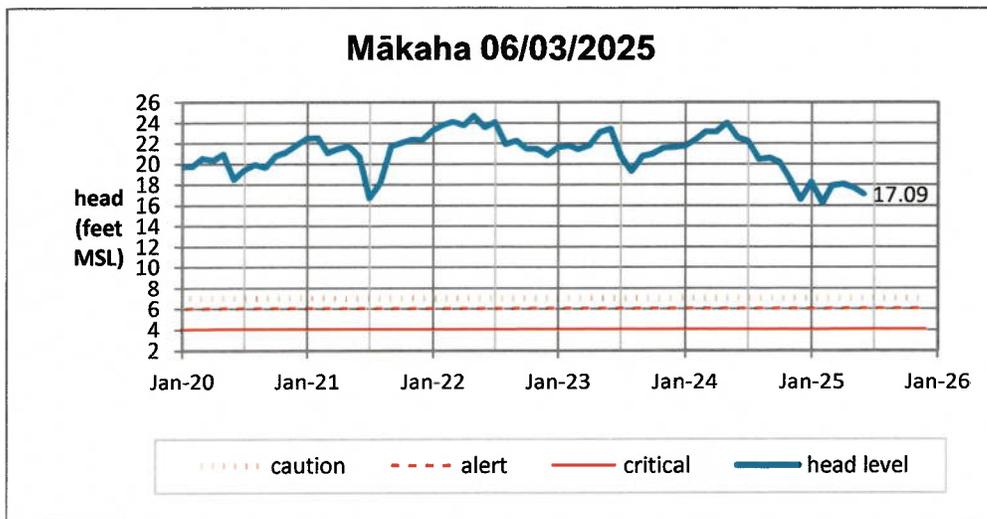
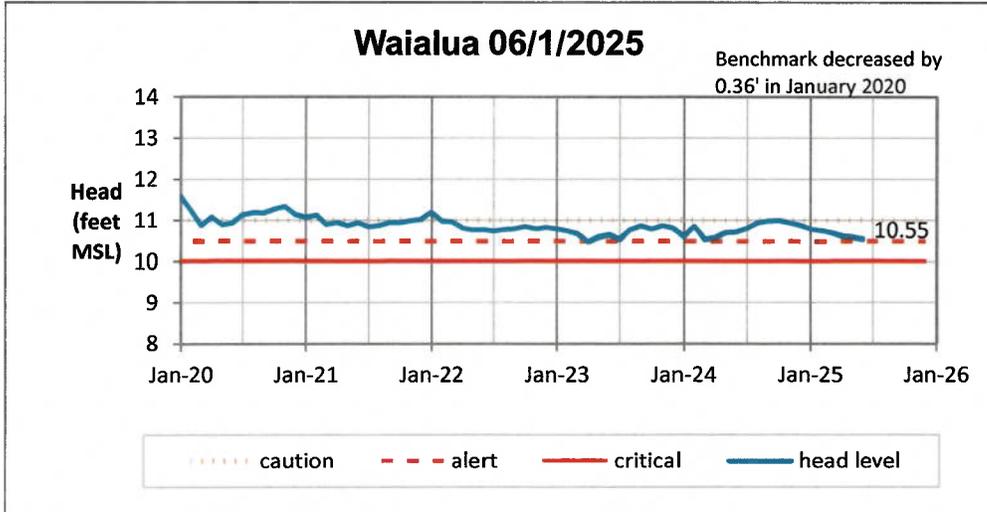
Head Report



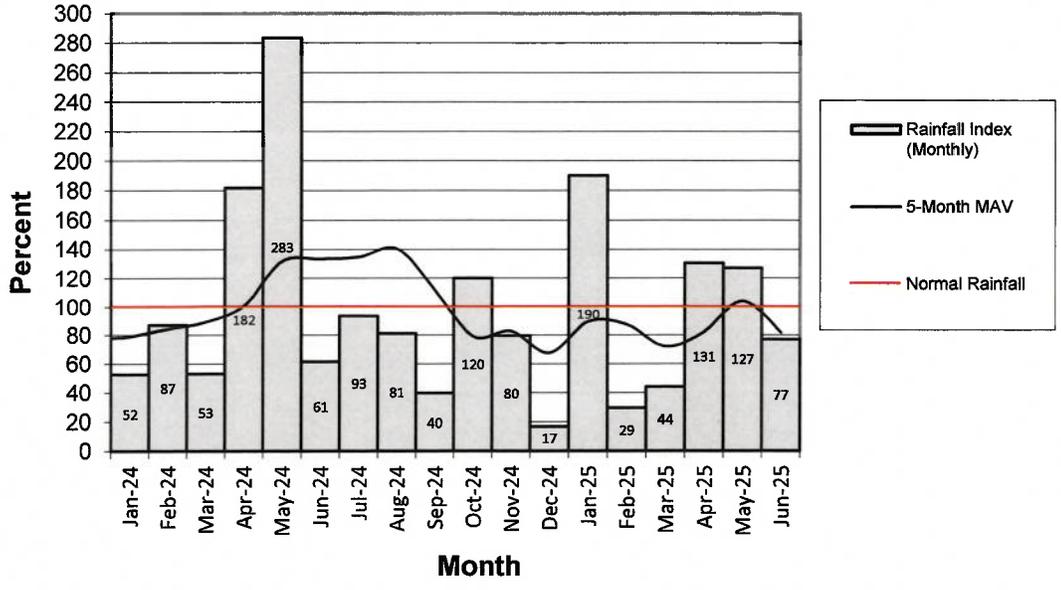
Head Report



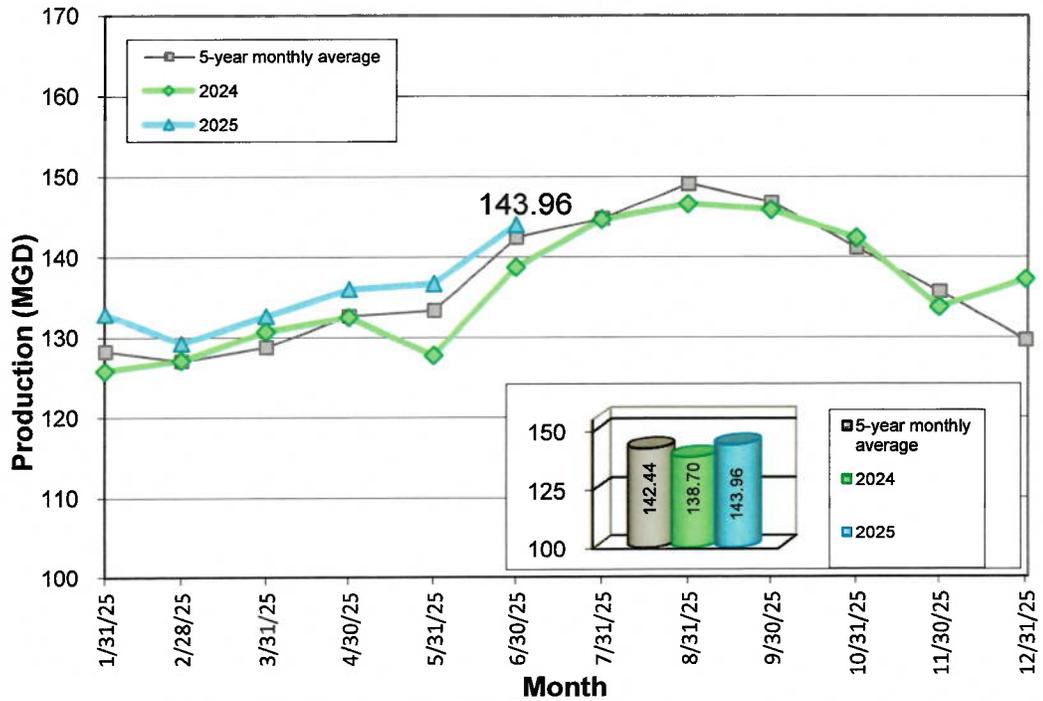
Head Report



HONOLULU WATERSHED AREA Rainfall Intake



Monthly Production



U.S. Drought Monitor

[Current](#)[Maps](#)[Data](#)[Summary](#)[About](#)[Conditions & Outlooks](#)[Ag in Drought](#)[En Español](#)[NADM](#)

Map released: Thurs. July 10, 2025

Data valid: July 8, 2025 at 8 a.m. EDT

Intensity

-  None
-  D0 (Abnormally Dry)
-  D1 (Moderate Drought)
-  D2 (Severe Drought)
-  D3 (Extreme Drought)
-  D4 (Exceptional Drought)
-  No Data

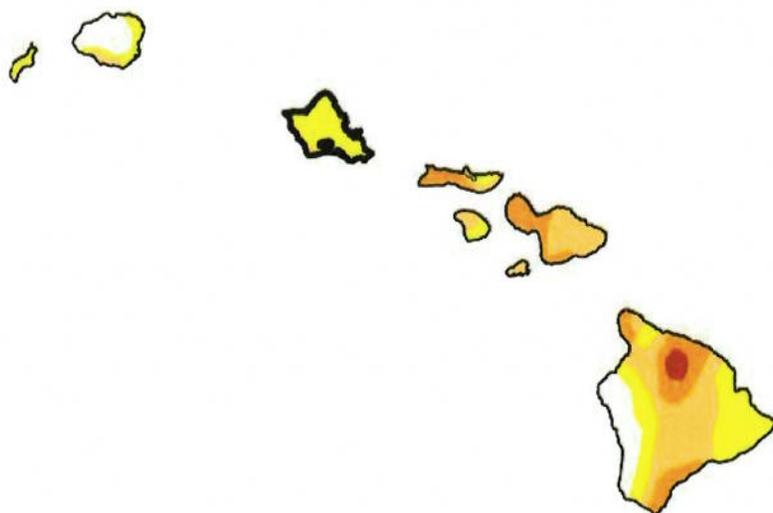
Authors

United States and Puerto Rico Author(s):

[Brad Pugh](#), NOAA/CPC

Pacific Islands and Virgin Islands Author(s):

[Daniel Whitesel](#), National Drought Mitigation Center



ITEM FOR INFORMATION NO. 5

“July 28, 2025

WATER MAIN
REPAIR
REPORT FOR
JUNE 2025

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Water Main Repair Report for June 2025

Wayne Tello, Acting Program Administrator, Field Operations Division,
will report on water main repair work for the month of June 2025.

Respectfully submitted,

/s/ ERNEST Y. W. LAU, P.E
Manager and Chief Engineer

Attachment”

The foregoing was for information only.

DISCUSSION:

Daniel Lee, Water Service Supervisor IV, Field Operations Division, gave
the report.

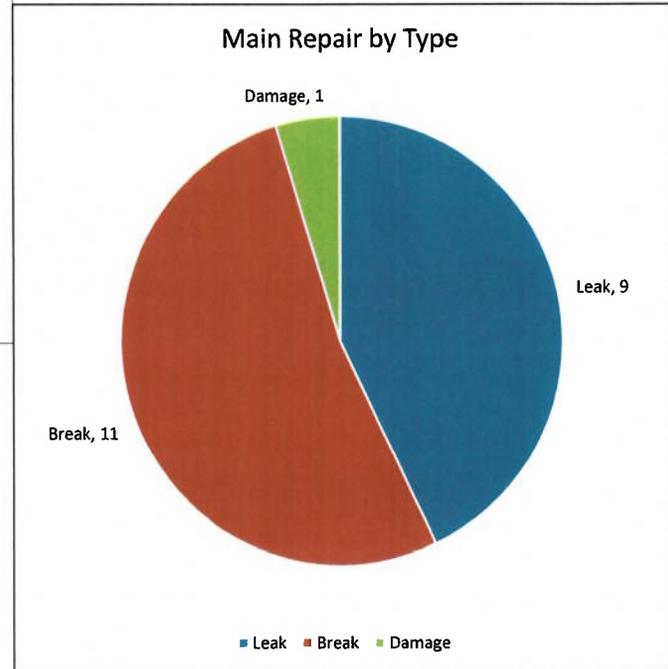
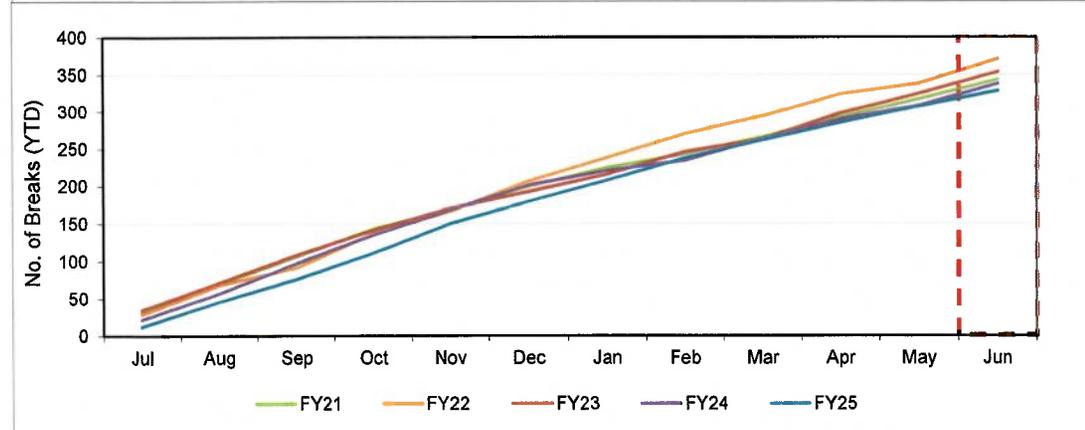
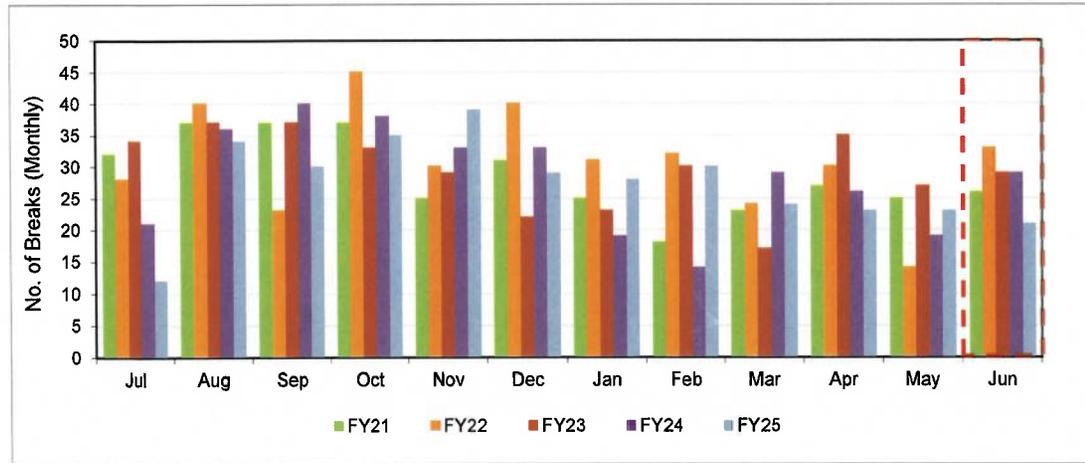
**WATER MAIN REPAIR REPORT
for June 2025**

Monthly Main Breaks

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2025	12	34	30	35	39	29	28	30	24	23	23	21	328
2024	21	36	40	38	33	33	19	14	29	26	19	29	337
2023	34	37	37	33	29	22	23	30	17	35	27	29	353
2022	28	40	23	45	30	40	31	32	24	30	14	33	370
2021	32	37	37	37	25	31	25	18	23	27	25	26	343

Main Repair by Type

Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Leak	4	27	14	24	20	10	14	11	6	7	5	9	151
Break	7	7	15	10	19	19	13	19	18	15	18	11	171
Damage	1	0	1	1	0	0	1	0	0	1	0	1	6
Total	12	34	30	35	39	29	28	30	24	23	23	21	328



Date	Address	Size (In)	Pipe Type	Date	Address	Size (In)	Pipe Type
6/2/2025	1200 N Nimitz Hwy, Honolulu	12	DI				
6/2/2025	3452 Kalua Rd, Honolulu	12	CI				
6/2/2025	92-993 Puanihi St, Kapolei	8	CI				
6/4/2025	933 Hind Iuka Dr, Honolulu	12	CI				
6/6/2025	1854 Kamehameha IV Rd, Honolulu	8	CI				
6/6/2025	99-940 Hulumanu St, Aiea	4	CI				
6/8/2025	94-136 Mokukaua St, Waipahu	8	CI				
6/11/2025	98-111 Kalike Pl, Aiea	6	CI				
6/11/2025	45-556 Duncan Dr, Kaneohe	4	CI				
6/17/2025	94-870 Lumioahu St, Waipahu	12	CI				
6/17/2025	475 Wanaao Rd, Kailua	12	AC				
6/18/2025	74 Hoomalu St, Pearl City	8	CI				
6/20/2025	45-032 Holowai Pl, Kaneohe	6	CI				
6/20/2025	45-063 Waikalua Rd, Kaneohe	6	CI				
6/20/2025	68 Hoomalu St, Pearl City	8	CI				
6/21/2025	3529 Pinaoula Pl, Honolulu	8	CI				
6/21/2025	66-398 Haleiwa Rd, Haleiwa	8	CI				
6/23/2025	45-026 Waikalua Rd, Kaneohe	6	CI				
6/25/2025	87-159 Hakimo Rd, Waianae	12	CI				
6/25/2025	46-300 Kumoo Lp, Kaneohe	8	CI				
6/27/2025	Twin Bridge Rd, Haleiwa	16	AC				

**LEAK DETECTION
for June 2025**

POIs Investigated

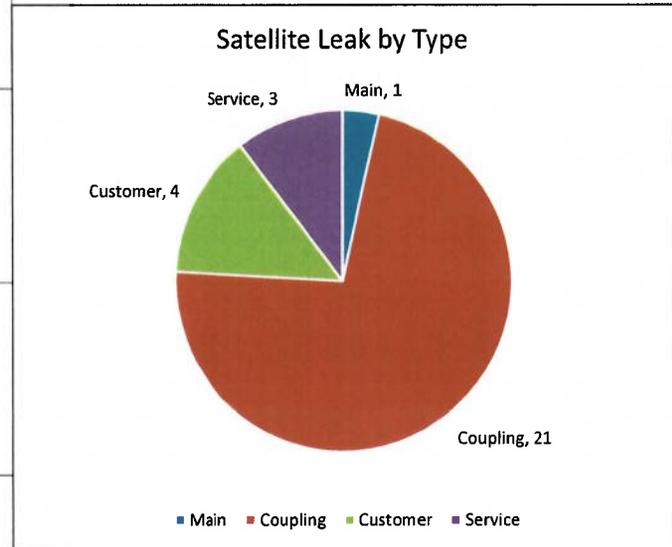
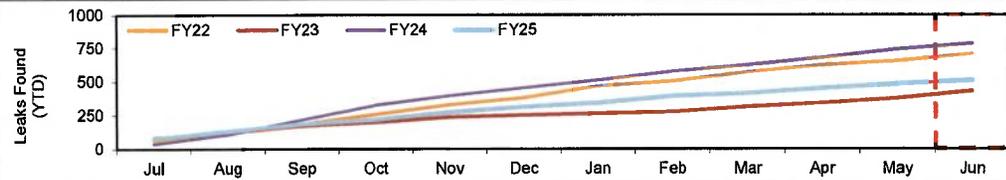
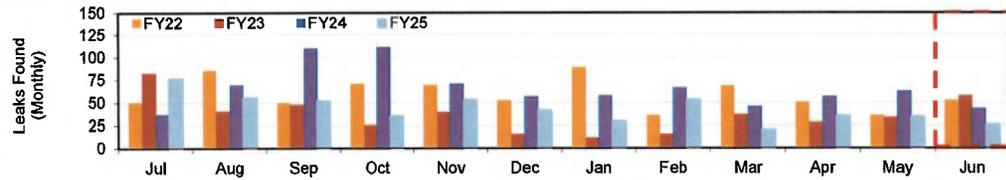
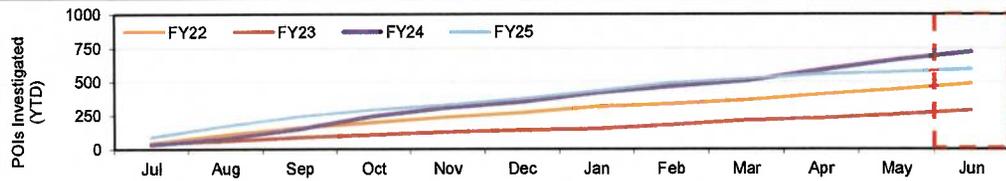
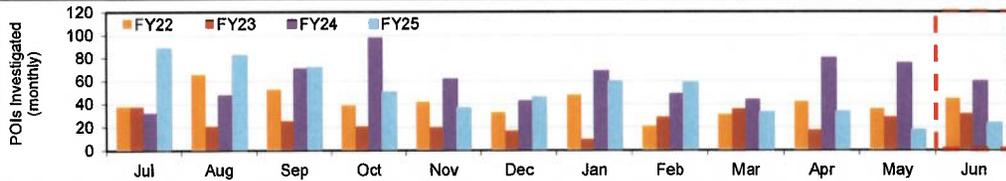
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2025	88	82	71	50	36	45	59	58	32	33	17	23	594
2024	31	47	70	97	61	42	68	48	43	79	75	59	720
2023	37	20	25	20	19	16	9	28	35	17	28	31	285
2022	37	65	52	38	41	32	47	20	30	41	35	44	482

Leaks Found

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2025	76	55	51	35	53	41	29	53	20	35	34	26	508
2024	36	69	109	111	70	56	57	66	45	56	62	43	780
2023	82	40	47	25	39	15	11	15	36	28	33	57	428
2022	50	85	49	70	69	52	88	35	68	50	35	52	703

Satellite Leak by Type

Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Main	8	6	2	3	2	5	1	3	5	3	2	1	41
Coupling	62	41	43	24	41	29	23	41	9	22	27	21	383
Customer	3	4	1	5	3	4	4	7	1	4	2	4	42
Service	3	4	5	3	7	3	1	2	5	6	3	3	45
Total	76	55	51	35	53	41	29	53	20	35	34	29	511



**MOTION TO
ADJOURN**

There being no further business, Chair Anthony, at 3:28 PM, called for a motion to adjourn the Regular Session. so moved, seconded by Lance Wilhelm, and unanimously carried.

The minutes of the Regular Meeting held on July 28, 2025, are respectfully submitted,


JOY CRUZ-ACHIU

THE MINUTES OF THE REGULAR MEETING HELD ON JULY 28, 2025, WERE APPROVED AT THE AUGUST 25, 2025, BOARD MEETING

	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA			ABSENT
LANCE WILHELM	X		
EDWIN H. SNIFFEN	X		
GENE C. ALBANO	X		

APPROVED:


NĀ'ĀLEHU ANTHONY
 Chair of the Board
AUG 25 2025

Date