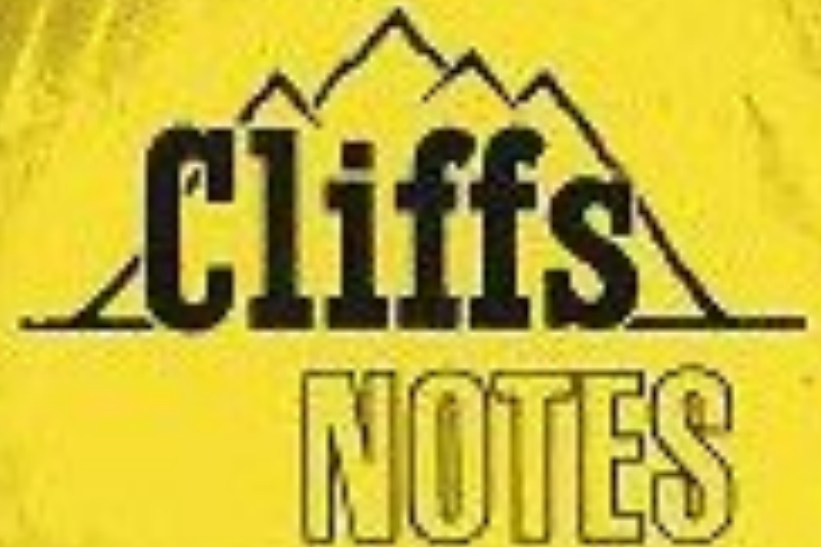
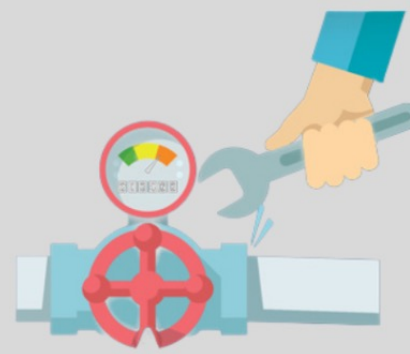
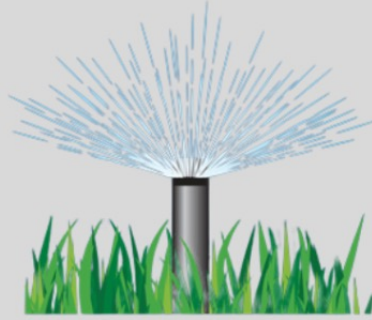


# What the Framework?

BECAUSE THERE HAVE BEEN A LOT OF MEETINGS RECENTLY.

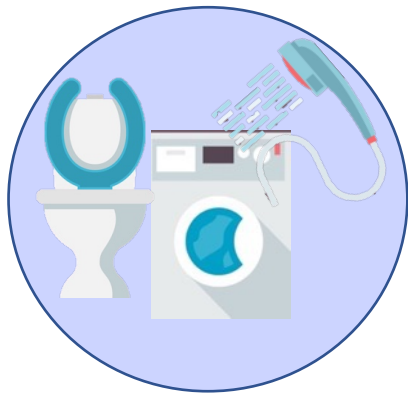




# What the **FRAMEWORK?**

A ROUND-UP OF WHAT'S GOING ON WITH THE NEW CONSERVATION REGULATIONS

**INDOOR USE**



+

**OUTDOOR  
RESIDENTIAL USE**



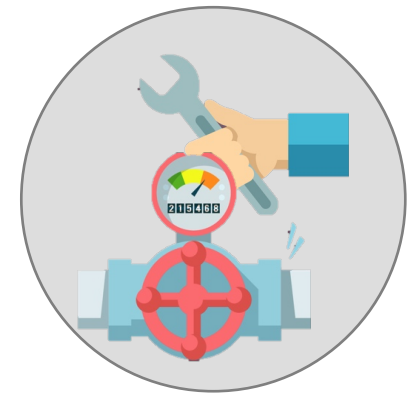
+

**CII LANDSCAPE**



+

**WATER LOSS**



**[CalWEP.org/framework-updates](http://CalWEP.org/framework-updates)**

# The Indoor Standard



Chelsea Haines, ACWA

**55 GPCD**

**x Service Area Population x 365 days**

**CURRENT** indoor standard (from 2018 legislation)

2020: 55 GPCD

2025: 52.5 GPCD

2030: 50 GPCD

**PROPOSED** indoor standard (AB 1434 (Friedman)) – *likely will change*

2020: 48 GPCD

2025: 44 GPCD

2030: 40 GPCD

**RECOMMENDED** indoor standard (DWR and SWRCB Joint Report)

2020: 55 GPCD

2025: 47 GPCD

2030: 42 GPCD

# The Residential Outdoor Standard



Nate Adams, Santa Margarita Water District

$$\text{ORWU Equation} = (E_{To} - P_{eff}) \times (LAs) \times (ETF) \times (0.62)$$

**ORWU** = Outdoor Residential Water Use (gallons)

**E<sub>To</sub>** = Reference evapotranspiration (inches)

**P<sub>eff</sub>** = Effective precipitation (inches)

**LAs** = Landscape area for a water supplier (sq. ft)

**ETF** = ET Factor (unitless) represents a percentage of reference E<sub>To</sub>; function of plants' water needs & irrigation efficiency

**0.62** = unit conversion factor



# Landscape Area Measurement

- Landscape area measurement was developed using aerial imagery of the 399 urban water agencies in CA
- LAs will include all IRRIGABLE IRRIGATED (II) landscape and if needed will also include a 20% buffer of IRRIGABLE NOT IRRIGATED (INI) Landscape



# Current DWR Recommendation for ETF

**2023 – 2029 = 0.80 ETF\***

**2030 and thereafter = 0.65 ETF**

**New Developments = 0.55 (or current  
MWELO ETAF value)**

**Special Landscape Areas (SLA) = 1.0 ETF**

\* Note that DWR has assumed  
an irrigation efficiency of 80%

# The CII Landscape Standard



Lisa Cuellar, CalWEP

## **UWUO<sub>CII-DIM</sub> Equation =**

$$\begin{aligned} & \text{( ETo-Peff) x (LAs) x (ETF) x (0.62)} \\ & + \text{(New LA x 0.45 x ETo) + (SLA x 1.0 x ETo)} \end{aligned}$$

**UWUO** = Urban Water Use Objective (gallons)

**ETo** = Reference evapotranspiration (inches)

**Peff** = Effective precipitation (inches)

**LAs** = Landscape area for a water supplier (sq. ft)

**SLA** = Special landscape area (sq. ft)

**ETF** = ET Factor (unitless) represents a percentage of reference ETo;  
function of plants' water needs & irrigation efficiency

**0.62** = unit conversion factor

# Current DWR Recommendation for ETF

**2023 – 2029 = 0.80 ETF\***

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MWELO ETAF value)**

**Special Landscape Areas (SLA) = 1.0 ETF**

\* Note that DWR has assumed  
an irrigation efficiency of 80%

# CII-DIM Standard

- In calculating the UWUO, suppliers must include the estimated efficient irrigation with CII-DIMs or equivalent technology. Where “**equivalent technology**” is undefined in the Water Code.
- Equivalent Technology criteria as presented by DWR on Nov. 16, 2021:

Criteria:

1. Measures water volume with an equivalent accuracy and reporting period as existing CII-DIMs and
2. Reports those values directly to the urban retail water supplier

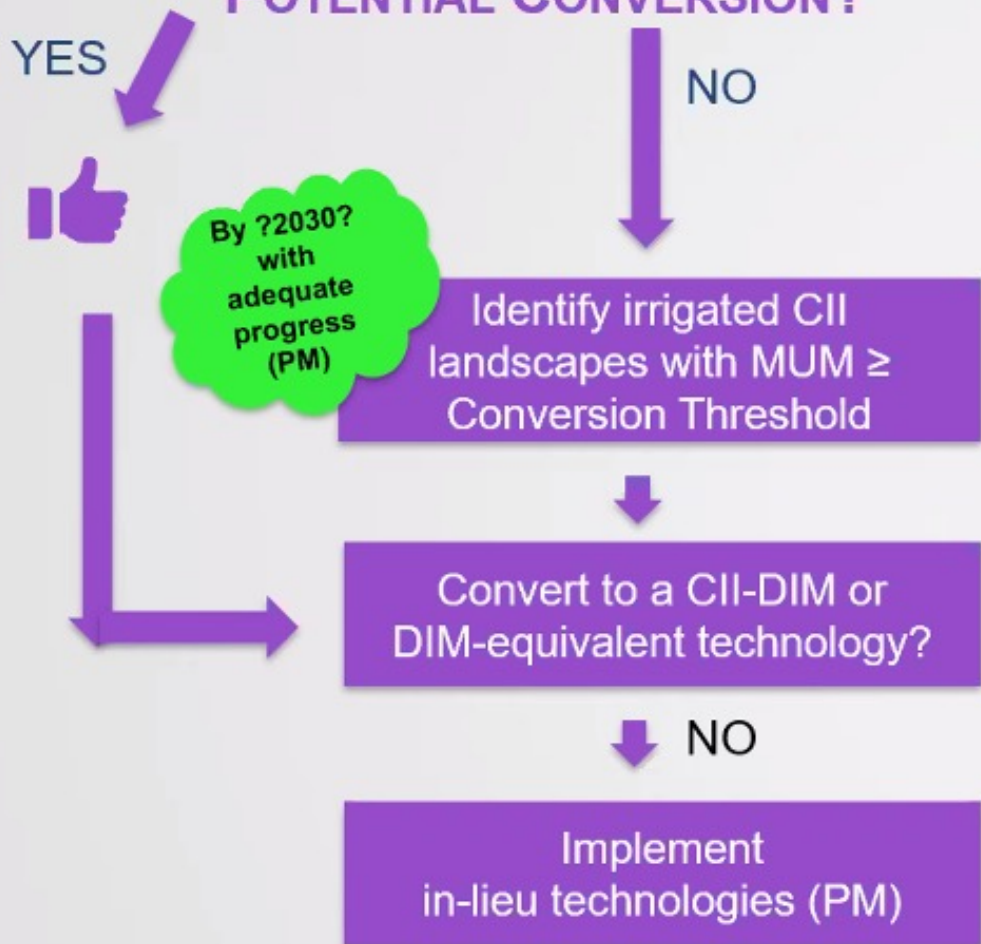
- If an urban retail water supplier converts a MUM to a DIM or equivalent technology, it becomes included in the CII-DIM Standard.

# CII-DIM Performance Measures

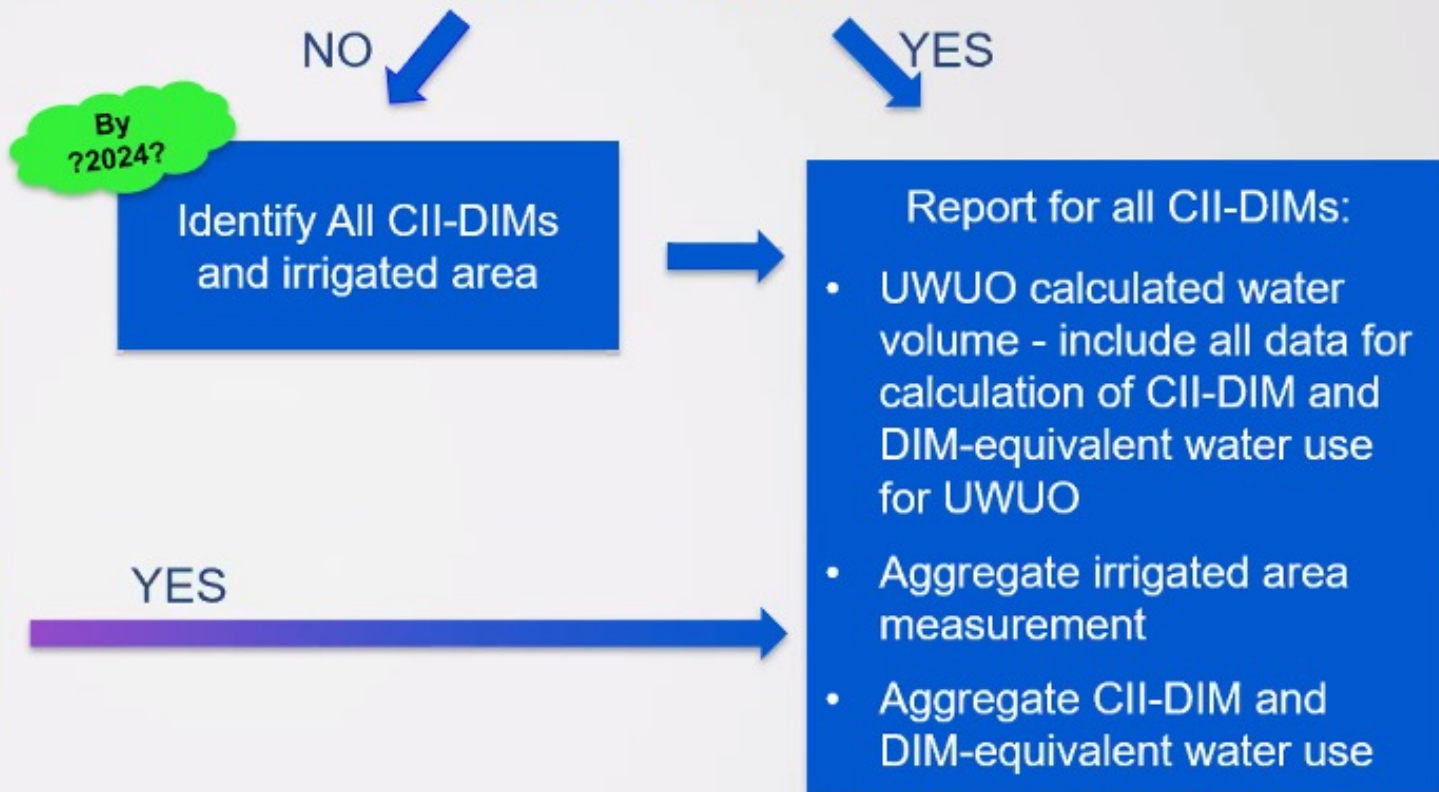
WC 10609.10(b)(2) “Recommendations for setting minimum *size thresholds* for converting mixed CII meters to dedicated irrigation meters, and evaluation of, and recommendations for, technologies that could be used in lieu of requiring dedicated irrigation meters.”

- **In-lieu technologies** are an alternative if a supplier does not convert MUM greater than the threshold to a DIM or equivalent technology.
- Note: *Urban retailers are not required to report efficient water use volumes for CII landscaping using in-lieu technologies in the calculation of the UWUO.*
- CII-DIM threshold recommendations are anticipated in early 2022. DWR is considering a **20,000 ft<sup>2</sup>** threshold.

## HAVE YOU IDENTIFIED ALL YOUR MUM AND IRRIGATED CII LANDSCAPE AREAS FOR POTENTIAL CONVERSION?



## HAVE YOU IDENTIFIED ALL YOUR CII-DIMS?

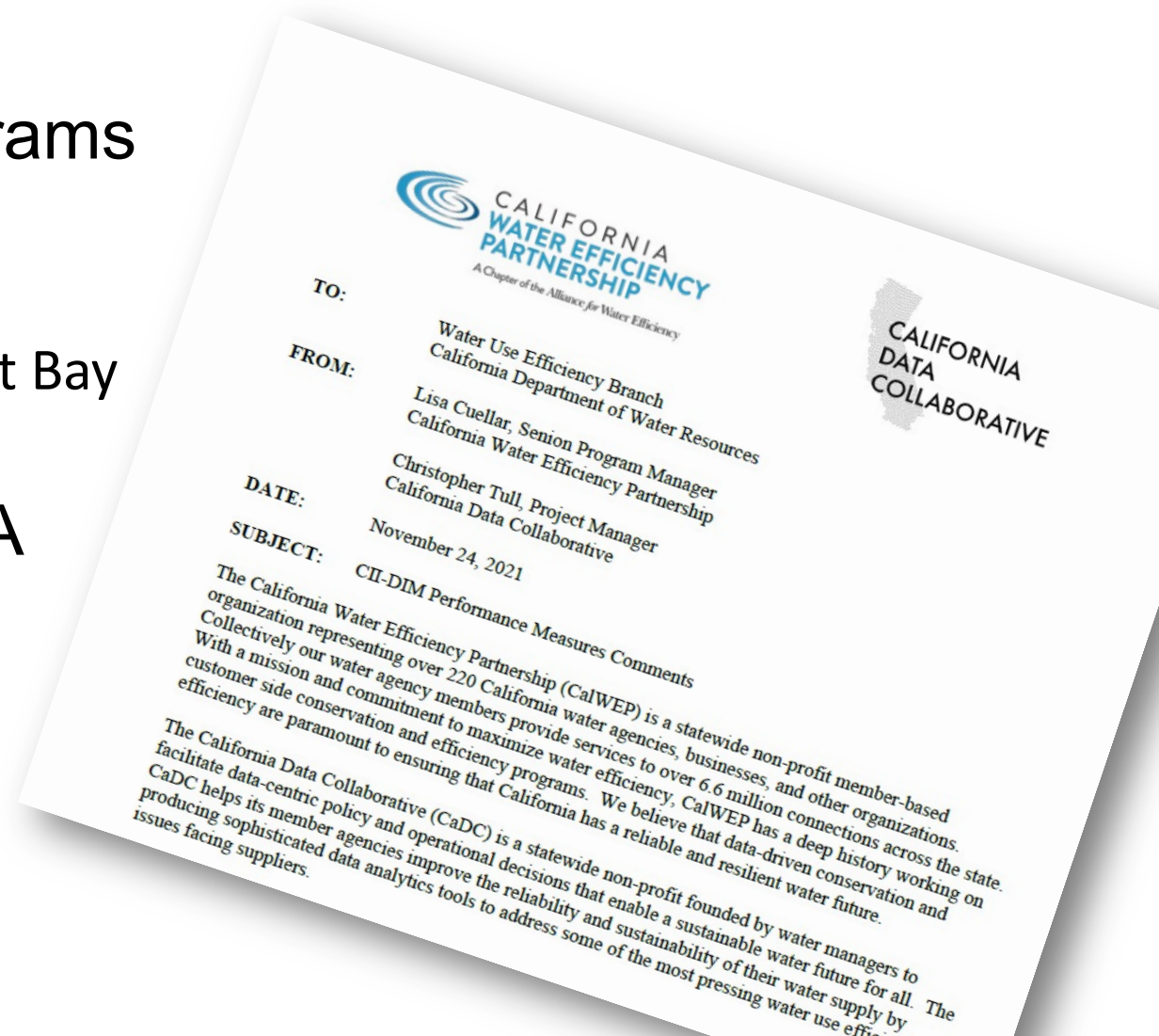


➔ Performance measure (PM) reporting (not part of the UWUO):

Progress in identifying landscape associated with MUM for conversion considerations, and aggregate irrigated area measurement using in-lieu technology, and associated proof of improving water use efficiency (e.g., annual irrigation audits/reports for X% of CII customers, etc.)

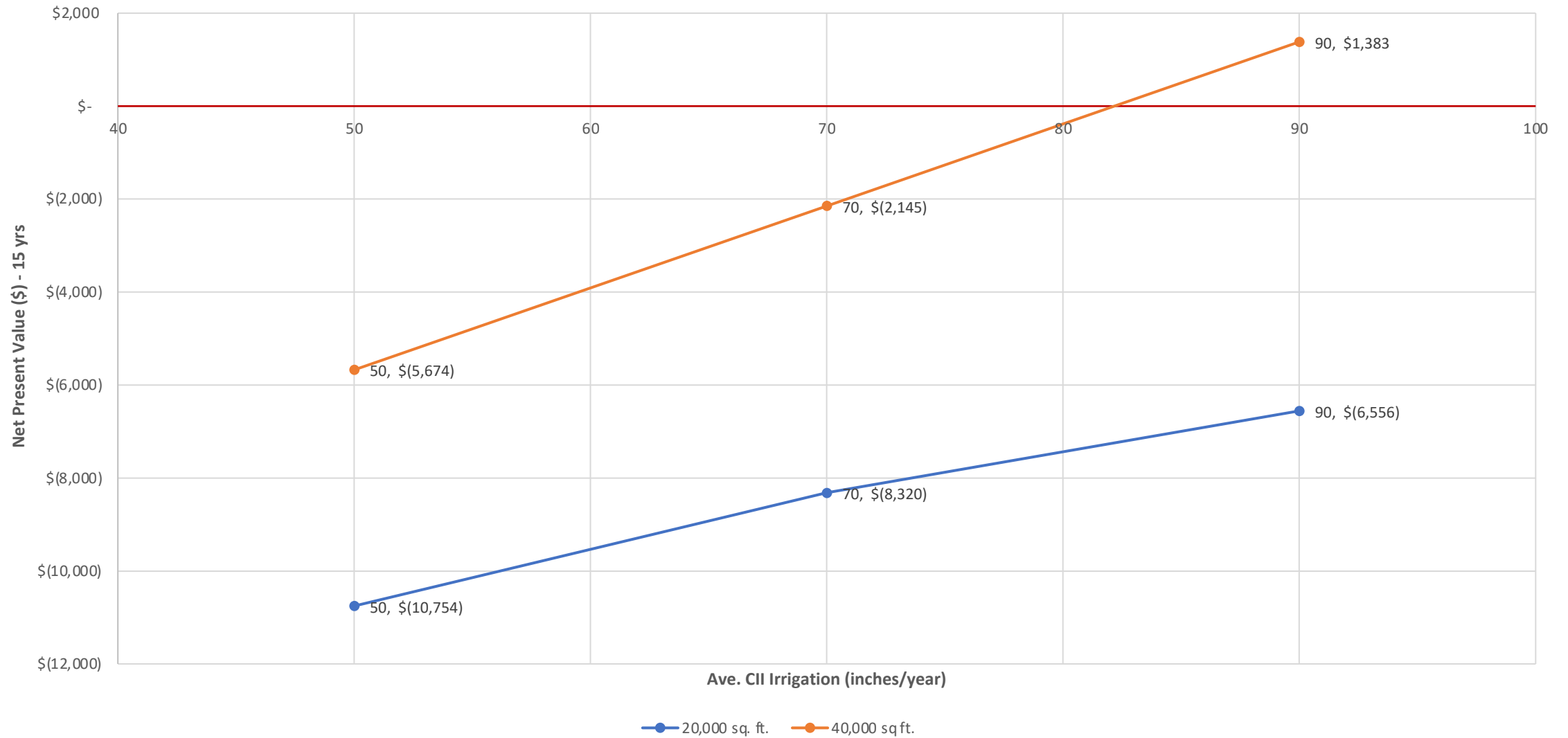
# CII-DIM Feasibility Analysis

- Assessed feasibility of DIM programs at 20,000 & 40,000 ft<sup>2</sup> threshold:
  - ✓ 1 Theoretical
  - ✓ 3 water agencies (Northern Coast, East Bay and Southern Coast)
- Prepared in collaboration with CA Data Collaborative
- Submitted as comment to DWR 11/24 (cc SWRCB)





### Landscape Area Comparison (10% reduction, 1 Lateral)



# The Water Loss Standard



Linda Vo, CalWEP

**The standard for water loss due to leaks in the water system pipes is based on a loss standard of gallons per connection**

# Timeline for Water Loss Regulation

- The formal rulemaking is expected to start **Dec. 24, 2021**
- January 3rd-7th, 2022 –State Water Board to host public workshop to discuss additions and change to the proposed water loss regulation
- Late January/Early February 2022 – State Water Board to host public hearing for stakeholder comments on proposed water loss regulation
  - Comments can be submitted to the State Water Board via email anytime during the 45-day comment period
- April/May 2022 – Anticipated Regulation approval
- July 1, 2022 - Effective date of approved Regulation

# DWR Updated Schedule

Component	Timing	Lead Agency
Permanent monthly reporting	Since Oct. 1, 2020	SWRCB
Water loss standards	<del>End of 2020</del> Formal Rulemaking est. COB 2021	SWRCB
Recommendation on indoor standards	<del>January 2021</del> Nov. 30, 2021	DWR
Residential irrigable land measurements	<del>January 2021</del> ?	DWR
Recommendation on WUE standards*	<del>Oct. 1, 2021</del> Draft Nov 2021 Final est. COB 2021	DWR
UWMP/WSCP updates	July 2021	DWR
Adoption of WUE standards*	July 2022	SWRCB
Annual water supply and demand assessment	June 2022	DWR

\*WUE standards include:

- Outdoor residential use standard
- Standard for CII outdoor landscape area with dedicated irrigation meters
- Performance measures for CII water use
- Appropriate variances
- Guidelines and methodologies for calculating urban water use objectives