SAFER: IDENTIFYING AT-RISK PUBLIC WATER SYSTEMS – RISK ASSESSMENT 2.0 THRESHOLDS, SCORES, & WEIGHTS (Part 4)

December 14, 2020 9:00 am

Remote participation only





Welcome and Meeting Logistics

Vanessa Soto





Water Board's Mission Statement

Preserve, enhance, and restore the quality of California's water resources and drinking water for the protection of the environment, public health, and all beneficial uses, and to ensure proper water resource allocation and efficient use, for the benefit of present and future generations.

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What is the SAFER Drinking Water Program?

SAFER = Safe and Affordable Funding for Equity and Resilience



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Presentation Outline

- Overview of Needs Assessment
- Risk Assessment 2.0 Development
- Proposed Expanded HR2W Criteria
- Proposed Risk Indicator Thresholds and Scores
- Proposed Risk Indicator and Category Weights
- Risk Assessment Options and Recommendations

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Next Steps and Timeline

WELCOME & INTRODUCTION

Kristyn Abhold Needs Analysis Unit Division of Drinking



Ways to Participate-

1. Watch ONLY: Visit video.calepa.ca.gov

2. Email: Submit a comment or ask a question that will be read aloud, send an email to: <u>safer@waterboards.ca.gov</u>

3. Q&A: Submit a question using the Q&A feature at the bottom of your Zoom Screen. You can UPVOTE any question you would like answered.

4. Raise Hand: Attendees will be given the opportunity to provide verbal comment or ask questions, if you're interested in this option, please raise your virtual hand when the time is right.

- Please wait for your name to be called.
- Public comments are 3 minutes each.

Audience Poll Question 1

Have you participated in any of the last three webinar workshops on the Risk Assessment for Public Water Systems?

- Yes
- No

View recordings and materials here: https://www.waterboards.ca.gov/safer/calendar.html

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Provide a written response to poll questions at the link below by January 6th:

<u>https://bit.ly/3oFVCpx</u>

Audience Poll Question 2

Have you read the White Paper: "Recommendations for Risk Assessment 2.0 Thresholds, Scores, & Weights for Public Water Systems"?

- Yes, read the whole thing
- Yes, I skimmed it
- No, but I plan to
- No, I don't intend to read it

Access White Paper here: https://www.waterboards.ca.gov/safer/docs/draft white paper.pdf

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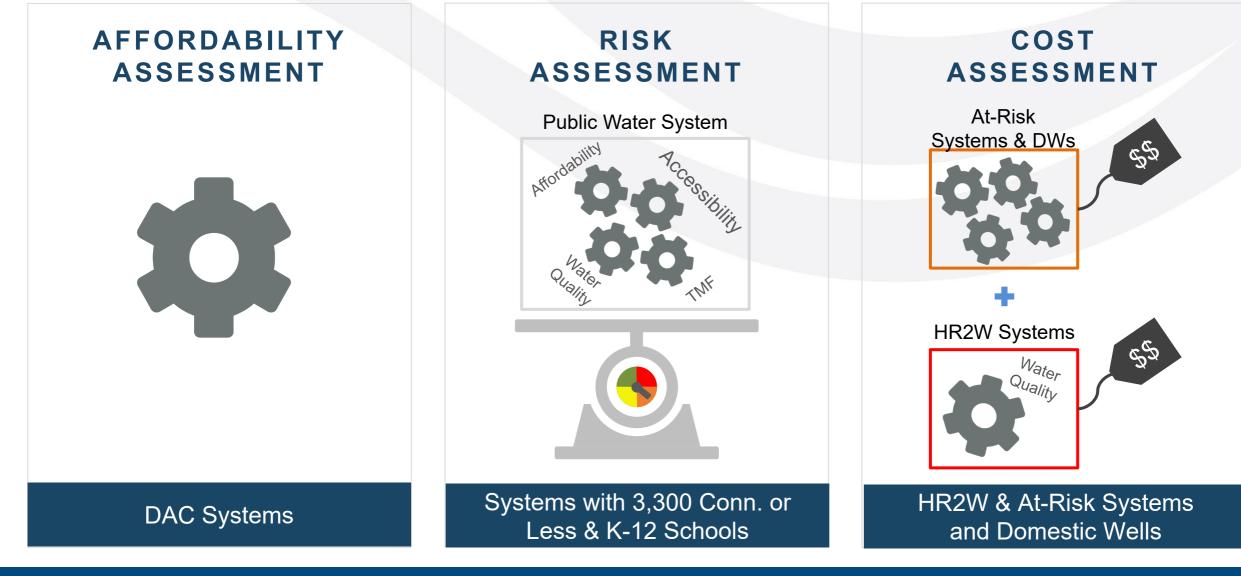
SB 200 and the Needs Assessment

Senate Bill 200 created the Safe and Affordable Drinking Water Fund.

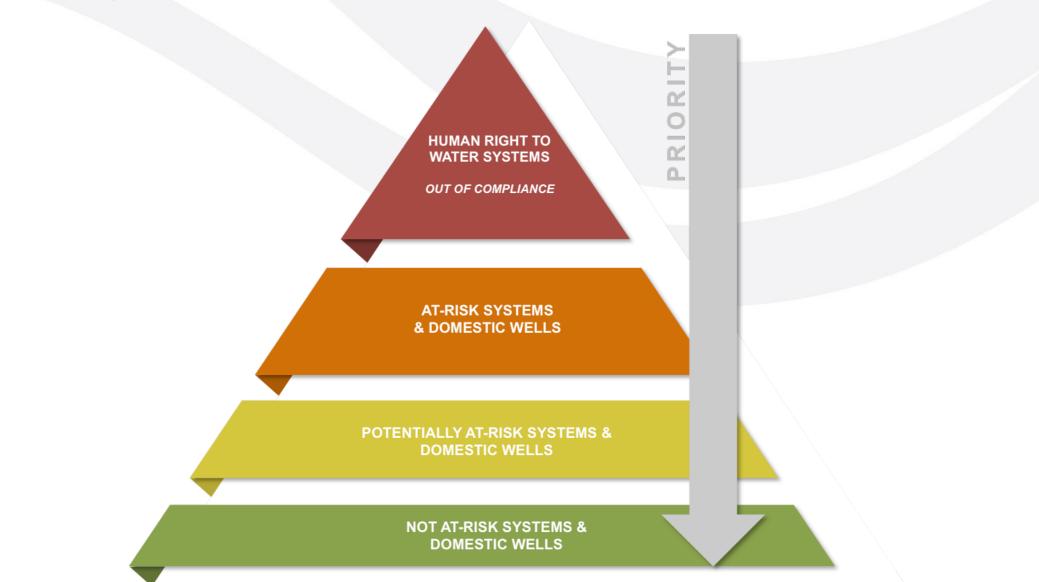
- Up to \$130 million per year through 2030
- The annual Fund Expenditure Plan prioritizes projects for funding, documents past and planned expenditures, and is "based on data and analysis drawn from the drinking water <u>Needs</u> <u>Assessment</u>" (Health and Safety Code §116769).

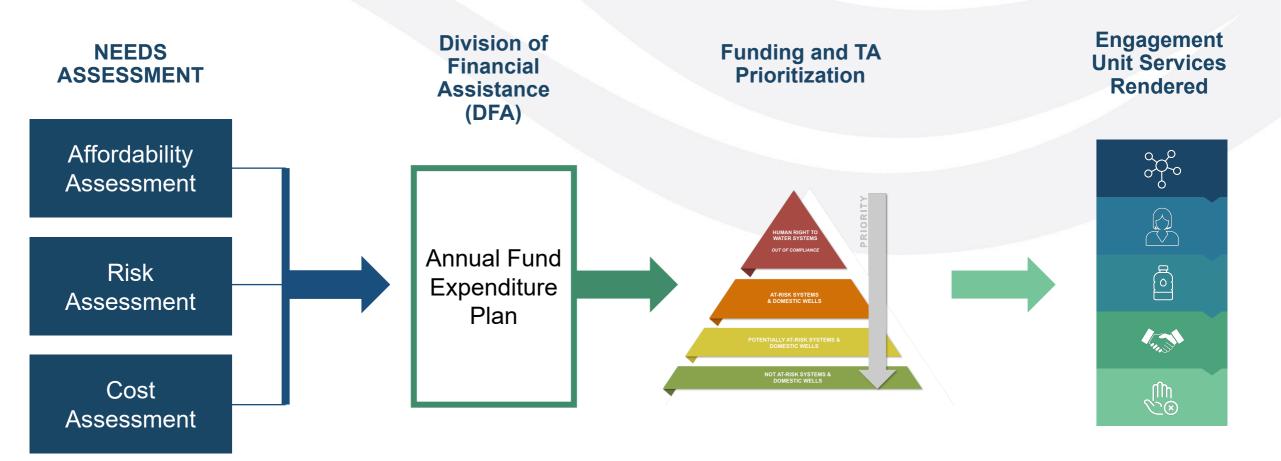


Needs Assessment for Public Water Systems



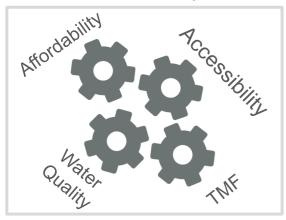
SAFER Program and the Risk Assessment





Risk Assessment for Public Water Systems (1/2)

Public Water System





RISK ASSESSMENT METHODOLOGY

RISK INDICATORS

Quantifiable measurements of key data used to assess a water system's risk of becoming noncompliant with water quality standards.

THRESHOLDSValues associate

Values associated with a risk indicator that designates when a water system is more at-risk of becoming non-compliant with water quality standards.

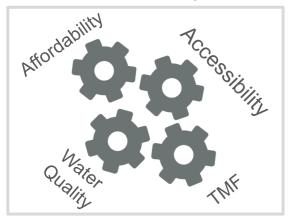
WEIGHTS / SCORES

Application of weight to each risk indicator – as some may be deemed more critical than others in contributing to overall risk.

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Risk Assessment for Public Water Systems (2/2)

Public Water System





RISK ASSESSMENT METHODOLOGY

RISK INDICATORS

Quantifiable measurements of key data used to assess a water system's risk of becoming noncompliant with water quality standards.

THRESHOLDS

Values associated with a risk indicator that designates when a water system is more at-risk of becoming non-compliant with water quality standards.



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WEIGHTS / SCORES

Application of weight to each risk indicator – as some may be deemed more critical than others in contributing to overall risk.

TODAY'S WEBINAR

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Phases of Risk Assessment Development (1/2)

- July 2020: Identify Potential Risk Indicators
- Align with HR2W goals
- Develop methodology for evaluating potential indicators: Risk Indicator Evaluation Tool

October 2020: Select Risk Indicators

- Share results of risk indicator evaluation with public
- Determine final list of indicators for inclusion in Risk Assessment 2.0

November 2020: Set Thresholds

• Determine thresholds for risk indicators

December 2020: Determine Scoring/Weighting Approach

- Per indicator and/or indicator category
- Test methodology options, ground truth results, share options for public feedback

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January 2021: Conduct Risk Assessment for 2021-22 Fund Expenditure Plan

- Finalize methodology using public feedback
- Conduct Risk Assessment

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Re-Cap Risk Assessment 1.0 Indicators

Risk Assessment 1.0 Indicators (water systems < 3,300 connections)

- Explored in April 17, 2020 Webinar: https://www.waterboards.ca.gov/safer/calendar.html
- Detailed in White Paper: <u>https://www.waterboards.ca.gov/drinking_water/programs/safer_drinking_water/docs/draft_whit</u> <u>e_paper_indicators_for_risk_assessment_07_15_2020_final.pdf</u>

• Water Outages

- Waterborne Illness: Current and Historical
- Lead and Copper
- Extensive Treatment Required
- Treatment Technique Violations
- Single Groundwater Source
- Absence of Customer-Level Meters

- Monitoring and Reporting Violations
- Bacteriological Violations or E. coli
- Operator Certification Violations
- Disadvantaged Community Status
- Location In a High Priority Groundwater Basin
- Active Standing with California Secretary of State Status Requirements

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Steps 1 & 2: Identify and Select 2.0 Risk Indicators

Solicited public and stakeholder recommendations through 3 webinar workshops:	WATER QUALITY
 April 17, 2020 July 22, 2020 October 13, 2020 	ACCESSIBILITY
Webinar Recordings and Detailed Draft White Papers: https://www.waterboards.ca.gov/safer/calendar.html	AFFORDABILITY
<u>mups.//www.waterboarus.ca.gov/sater/catenual.mm</u>	TECHNICAL, MANAGERIAL, & FINANCIAL CAPACITY

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2.0 Risk Indicator Selection Process



 Assess 129 potential risk indicators for Applicability and Data Fitness using Evaluation Tool.

- 2 Use evaluation results to refine list of potential risk indicators.
- 3 Identify and remove moderately duplicative potential risk indicators to further refine list.
- ④ Make recommendation and solicit public feedback to determine final list of indicators for Risk Assessment 2.0.

Recommended Water Quality Risk Indicators (White Paper – Pg. 19)

WATER QUALITY	ACCESSIBILITY	AFFORDABILITY	TMF CAPACITY
Risk Indicator		Utilized By	v Others?
E. Coli Presence		Risk Asses	
Increasing Presence of (2022-23 Needs Assessn	Water Quality Trends To nent)	ward MCL	
Treatment Technique V	iolations	Risk Asses	sment 1.0
Past Presence on the H	R2W List		
Maximum Duration of H	ligh Potential Exposure ((HPE) OEHHA HF	R2W Tool
Percentage of Sources	Exceeding an MCL		

Accessibility Risk Indicators

WATER QUALITY	ACCESSIBILITY	AFFORD	ABILITY	TMF CAPACITY
Risk Indicator			Utilized By Oth	ers?
Number of Sources			OEHHA HR2W ⁻ Shortage Risk T	Tool; DWR Water ool
Absence of Interties			OEHHA HR2W ⁻ Shortage Risk T	Tool; DWR Water ool
Water Source Types			OEHHA HR2W	Tool
DWR – Drought & Water Results	r Shortage Risk Assessn	nent	DWR	
Critically Overdrafted G	roundwater Basin		DWR Water Sho	ortage Risk Tool

Affordability Risk Indicators

WATER QUALITY	ACCESSIBILITY	AFFORD	ABILITY	TMF CAPACITY
Risk Indicator			Utilized By	Others?
Percent of Median Househ Assessment Only)	old Income (2021-22 Nee	eds		2W Tool; SWRCB-FEP IC Financial Dashboard
Household Burden Indicator for Drinking Water (2022-23 Needs Assessment)		UNC Financial Dashboard		
Poverty Prevalence Indicat	tor (2022-23 Needs Asses	ssment)		
Housing Burden (2022-23 Needs Assessment)				
Extreme Water Bill (2021-2	2 and 2022-23 Needs Ass	sessment)	SWRCB AB-	-401 Report
% Shut-Offs (2021-22 and 2	2022-23 Needs Assessme	nt)		

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TMF Capacity Risk Indicators

WATER QUALITY	ACCESSIBILITY	AFFORDABILITY	TMF CAPACITY
Risk Indicator		Utilized	d By Others?
Number of Service Conn	ections		
Operator Certification Vie	olations	Risk As	sessment 1.0
Monitoring and Reporting	g Violations	Risk As HR2W	sessment 1.0; OEHHA Tool
Significant Deficiencies			
Extensive Treatment Inst	alled		



Progress Since the October 13th Public Webinar



Incorporated public and internal-DDW recommendations to finalize list of **22 risk indicators** for Risk Assessment 2.0.



1

Developed proposed **expanded criteria** for the Human Right to Water (HR2W) List.



Identified potential **thresholds**, **scoring**, and **weighting** approaches for individual risk indicators.



Proposed aggregated Risk Assessment 2.0 options and recommended "At-Risk" and "Potentially At-Risk" thresholds in a published **White Paper** for public feedback.

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Violation-Type Risk Indicators

- A number of the potential and recommended risk indicators are associated with **non-MCL violations**. The recommended indicators include:
 - Presence of E. Coli (includes E. coli violations)
 - Treatment Technique Violations
 - Operator Certification Violations
 - Monitoring and Reporting Violations
- Further consideration was given to define what it means for a water system to "consistently fail" or be "at-risk."



HR2W Considerations

- CA Health and Safety Code Section 116275(c) states that "primary drinking water standards" mean:
 - 1. Maximum levels of contaminants that, in the judgment of the state board, may have an adverse effect on the health of persons.
 - 2. Specific **treatment techniques** adopted by the state board in lieu of maximum contaminant levels pursuant to subdivision (j) of Section 116365.
 - 3. The **monitoring and reporting** requirements as specified in regulations adopted by the state board that pertain to maximum contaminant levels.

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 The State Water Board used this definition to consider how to most appropriately expand the criteria for systems that are added to the HR2W list to ensure all aspects of public health were incorporated.

Expanded Criteria for the Human Right to Water List (HR2W)

Criteria	Before 3.2021	After 3.2021
Primary MCL Violation with an open Enforcement Action	Yes	Yes
Secondary MCL Violation with an open Enforcement Action	Yes	Yes
E. Coli Violation with an open Enforcement Action	No	Yes
 Treatment Technique Violations (in lieu of an MCL): One or more Treatment Technique violations (in lieu of an MCL), related to a primary contaminant, with an open enforcement action; and/or Three or more Treatment Technique violations (in lieu of an MCL), related to a primary contaminant, within the last three years. 	Partially	Expanded
 Monitoring and Reporting Violations (related to an MCL and TTs): 3 Monitoring and Reporting violations (related to an MCL) within the last three years where at least one violation has been open for 15 months or greater. 	No	Yes

*Approximately 40 water systems would be added to the HR2W list with the expanded criteria

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Audience Poll Question 3

Does the expanded criteria for the HR2W list better align with the primary drinking water standard definitions for systems that are out of compliance or consistently failing?

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- Yes, I like this expanded criteria
- Maybe, I need more time to consider the expanded criteria
- No, I disagree with expanding the criteria for the HR2W list

Access White Paper here: <u>https://www.waterboards.ca.gov/safer/docs/draft_white_paper.pdf</u>

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Discussion Topic: Expanded HR2W Criteria

Do you have any immediate feedback on the proposed expanded HR2W criteria or the definition of what is "consistently failing"?

Ways to Participate-

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January 2021: Conduct Risk Assessment for 2021-22 Fund Expenditure Plan

- Finalize methodology using public feedback
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Determining Risk Indicator Thresholds

DISTINGUISH BETWEEN THRESHOLD TYPES

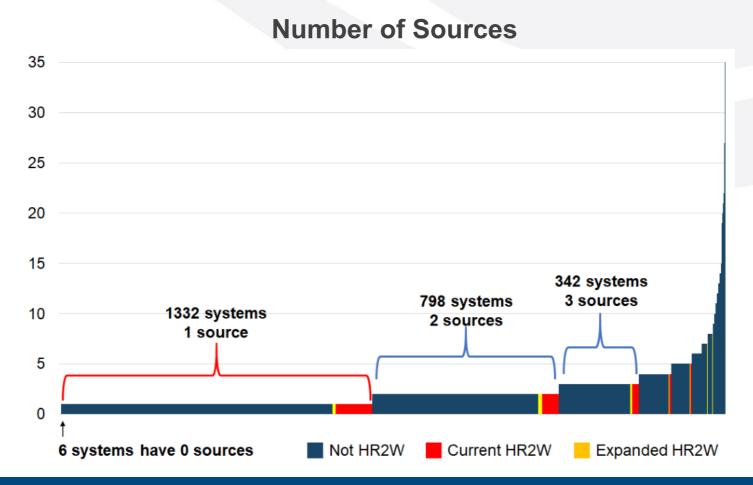
Threshold Type	Number of Risk Indicators*
Derived from Legislative or regulatory definitions	7
Supported by empirical evidence	9
Utilized by other California agencies, other state government or the U.S. EPA	14
Recognized by sector experience	4
No Past Precedent	4

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*Many of the 18 risk indicators have more than one threshold type

Normalizing Individual Risk Indicator Thresholds with Scores

The State Water Board and UCLA analyzed the distribution of each risk indicator and looks for natural breaks and clusters in order to determine appropriate threshold(s).



Normalizing Individual Risk Indicator Thresholds with Scores

- Many risk indicators are measured in different units and scales.
- To enable the evaluation and comparison of risk indicators, a standardized score range between 0 and 1 was applied to each set of proposed thresholds
- Example:

Risk Indicator	Proposed Threshold & Score
Maximum Duration of High Potential Exposure (HPE)	Threshold $0 = 0$ years (0) Threshold $1 = 1$ year (.25) Threshold $2 = 2$ years (.5) Threshold $3 = 3$ or more years (1)



Risk Indicator Weight Options

- The application of weights to risk indicators allows the State Water Board to indicate which risk indicators are comparatively more **critical**.
- Weights between 1 and 3 are proposed for each risk indicator.

Same Weight

Different Weights



Individual risk indicators can have the same weight or different weights based on comparative criticality.

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Water Quality Risk Indicator Recommended Thresholds & Scores (1/2)

WATER QUALITY	ACCESSIBILITY AFFORDABILITY TMF CA	PACITY
Risk Indicator	Proposed Thresholds & Scores	Proposed Weight
E. Coli Presence	Threshold 0 = No (0) Threshold 1 = Yes (1)	3
Increasing Presence of Water Quality Trends Toward MCL	To be determined through a stakeholder driven process in 2021.	N/A
Treatment Technique Violations	Threshold 0 = 0 (0) Threshold 1 = 1 or more (1)	1





Water Quality Risk Indicator Recommended Thresholds & Scores (2/2)

WATER QUALITY	ACCESSIBILITY AFFORDABILITY TMF CA	PACITY
Risk Indicator	Proposed Thresholds & Scores	Proposed Weight
Past Presence on the HR2W List	Threshold 0 = 0 (0) Threshold 1 = 1 occurrence (.5) Threshold 2 = 2 or more occurrences (1)	2
Maximum Duration of High Potential Exposure (HPE)	Threshold $0 = 0$ years (0) Threshold $1 = 1$ year (.25) Threshold $2 = 2$ years (.5) Threshold $3 = 3$ or more years (1)	3
Percentage of Sources Exceeding an MCL	Threshold 0 = less than 49.9% (0) Threshold 1 = greater than 49.9% (1)	3

Accessibility Risk Indicator Recommended Thresholds & Scores (1/2)

WATER QUALITY	ACCESSIBILITY	AFFORDABILITY	TMF CAPACITY
Risk Indicator	Proposed Thresho	Proposed Thresholds & Scores	
Number of Sources		Threshold X = 0 (automatically At-Risk) Threshold 0 = 2 or more (0) Threshold 1 = 1 (1)	
Absence of Interties	Threshold 0 = 1 or mo Threshold 1 = 0 (1)	re (0)	1
Water Source Types	Threshold 0 = 2 or mo Threshold 1 = 1 that is Threshold 2 = 1 that is		1)

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Accessibility Risk Indicator Recommended Thresholds & Scores (2/2)

WATER QUALITY	ACCESSIBILITY	AFFORDABILITY	TMF CAPACITY	
Risk Indicator	Proposed Thresho	Proposed Thresholds & Scores		d
DWR – Drought & Water Shortage Risk Assessment Results	Threshold 0 = Below to Threshold 1 = Top 25% Threshold 2 = Top 10%	(.25)	2	
Critically Overdrafted Groundwater Basin	Threshold $0 = Less$ the Threshold $1 = 75\%$ or		2	



WATER QUALITY	ACCESSIBILITY AFFORDABILITY TMF C	APACITY
Risk Indicator	Proposed Thresholds & Scores	Proposed Weight
Percent of Median Household Income (2021- 22 Needs Assessment Only)	Threshold 0 = Less than 1.5% (0) Threshold 1 = 1.5% or greater (.75) Threshold 2 = 2.5% or greater (1)	3
Extreme Water Bill (2021-22 and 2022-23 Needs Assessment)	Threshold 0 = Below 150% of the statewide average (0) Threshold 1 = greater than 150% of the statewide average (.5) Threshold 2 = greater than 200% of the statewide average (1)	1
% Shut-Offs (2021-22 and 2022-23 Needs Assessment)	Threshold 0 = less than 10% over the last calendar year (0) Threshold 1 = 10% or greater over the last calendar year (1)	2

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Affordability Risk Indicator Recommended Thresholds & Scores (2/2)

WATER QUALITY	ACCESSIBILITY	AFFORDABILITY	TMF CAPACITY	
Risk Indicator	Proposed Thresho	lds & Scores		Proposed Weight
Household Burden Indicator for Drinking Water (2022-23 Needs Assessment)	To be determined thro	ugh a stakeholder driven proc	ess in 2021.	N/A
Poverty Prevalence Indicator (2022-23 Needs Assessment)	To be determined thro	ugh a stakeholder driven proc	ess in 2021.	N/A
Housing Burden (2022-23 Needs Assessment)	To be determined thro	ugh a stakeholder driven proc	ess in 2021.	N/A

TMF Capacity Risk Indicator Recommended Thresholds & Scores

WATER QUALITY ACCES	SIBILITY	AFFORDABILITY		TMF CAPACITY	
Risk Indicator	Proposed	Thresholds & Scores		Proposed Weight	
Number of Service Connections		0 = greater than 500 (0) 1 = 500 or less (1)		1	
Operator Certification Violations	Threshold (Threshold	0 = 0 (0) 1 = 1 or more over the last :	3 years (1)	3	
Monitoring and Reporting Violation	C) = 1 or less over the last 3 1 = 2 or more over the last 3	y	2	
Significant Deficiencies	Threshold (Threshold	0 = 0 (0) 1 = 1 or more over the last 3	3 years (1)	3	
Extensive Treatment Installed	Threshold (Threshold			2	
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Audience Poll Question 4

Do these individual risk indicator thresholds and scoring recommendations align with your expectations?

- Yes, these thresholds and scores align with my expectations
- Maybe, I haven't had a chance to review all the threshold and score recommendations
- Maybe, there are some thresholds and/or scores I don't agree with
- No, I disagree with a majority of the recommend thresholds and scores

Access White Paper here: <u>https://www.waterboards.ca.gov/safer/docs/draft_white_paper.pdf</u>

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<u>https://bit.ly/3oFVCpx</u>

Category Weight Options

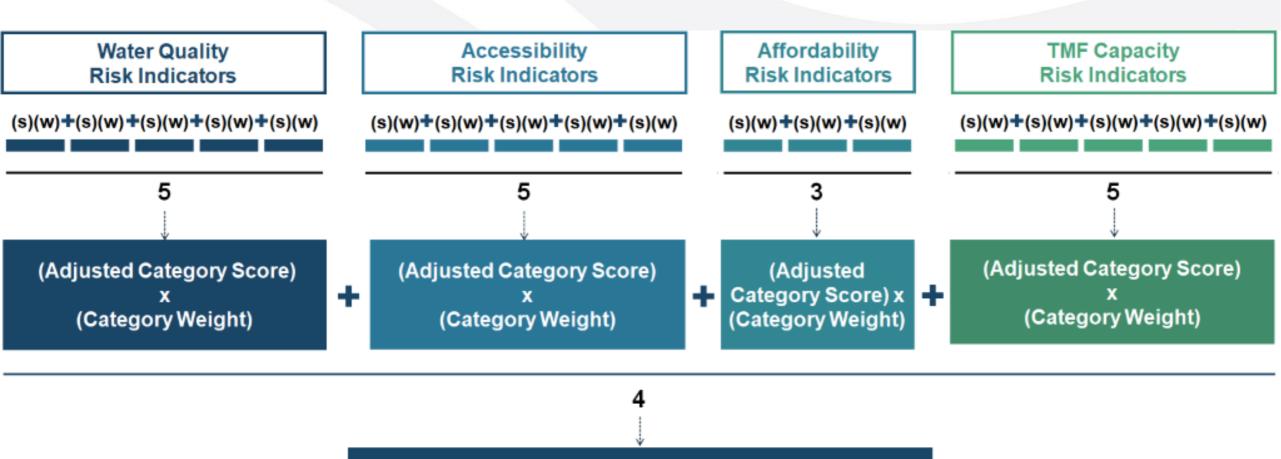
- The application of weights to risk indicator categories allows the State Water Board to indicate which sets of risk indicators are more comparatively critical.
- Weights between 1 and 3 are proposed for each risk indicator category.

Same Weight



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Aggregated Risk Assessment Calculation Methodology



Aggregated Risk Assessment Score

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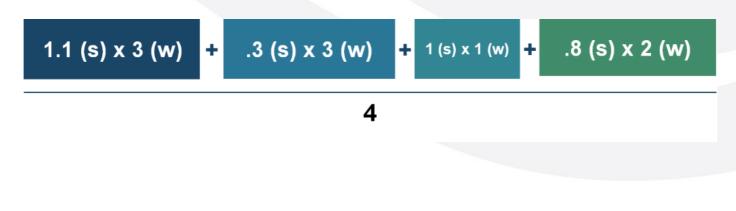
Adjusting for Missing Risk Indicator Data

- May have missing data for certain systems, either because:
 - a system failed to report necessary data or
 - the system may not have data to report.
- Risk Assessment 2.0 will omit any value for a missing risk indicator and redistribute the scores/weights to risk indicators within the same category which did have valid values.

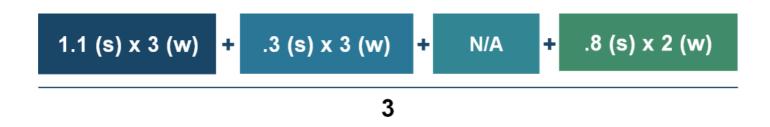


Adjusting for Missing Risk Indicator Data

Category with No Missing Risk Indicator Data



Category with Missing Risk indicator Data



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Audience Poll Question 5

Do you like this approach for adjusting to missing risk indicator data?

- Yes, I like this approach
- No, I don't like this approach
- I need more time to consider this question before I can provide feedback

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"At-Risk" Determination Approaches (1/2)

When conducting an aggregated Risk Assessment, there are a number of approaches available for consideration for determining At-Risk systems:

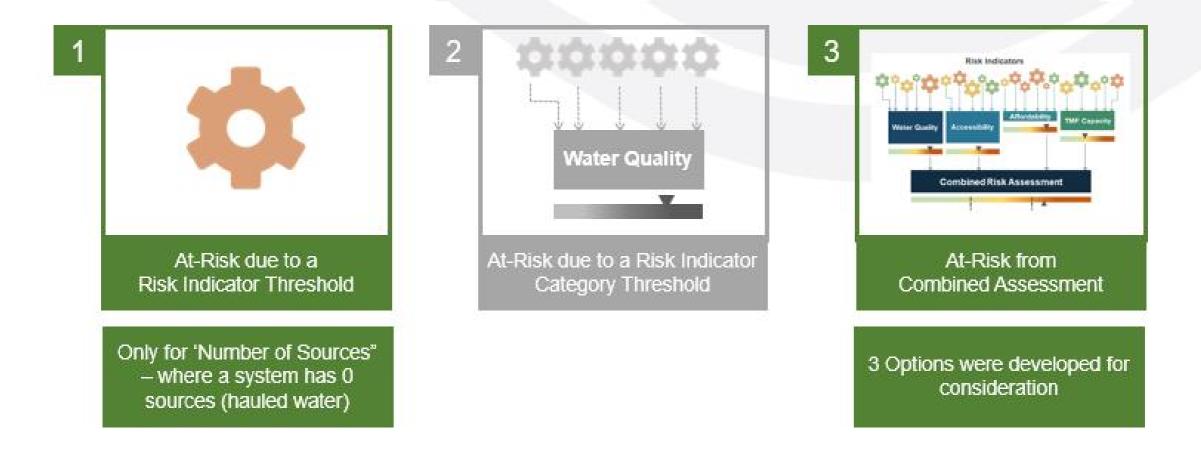


The assessment methodology could have a combined approach across all three approaches above.

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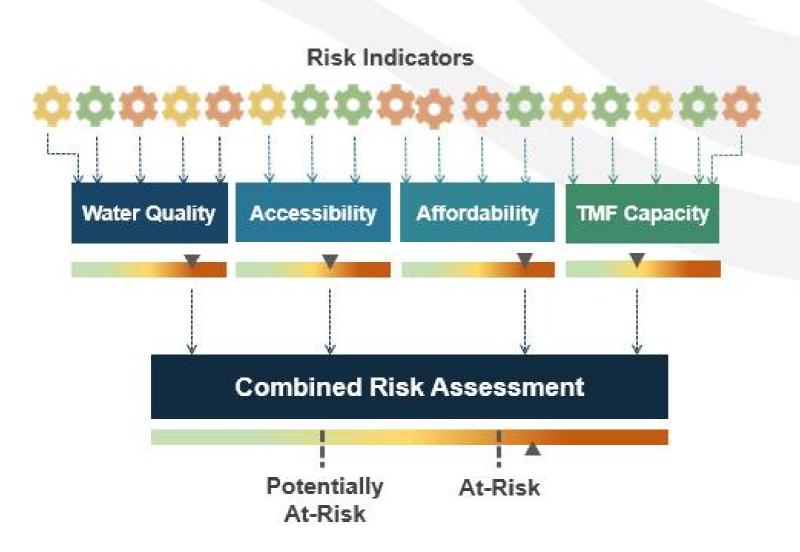
"At-Risk" Determination Approaches (1/2)

Approaches 1 and 3 are recommended for Risk Assessment 2.0. Approach 2 was not incorporated due to the distribution of system performance across the risk indicator categories.



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Option 1: No Weights - Raw

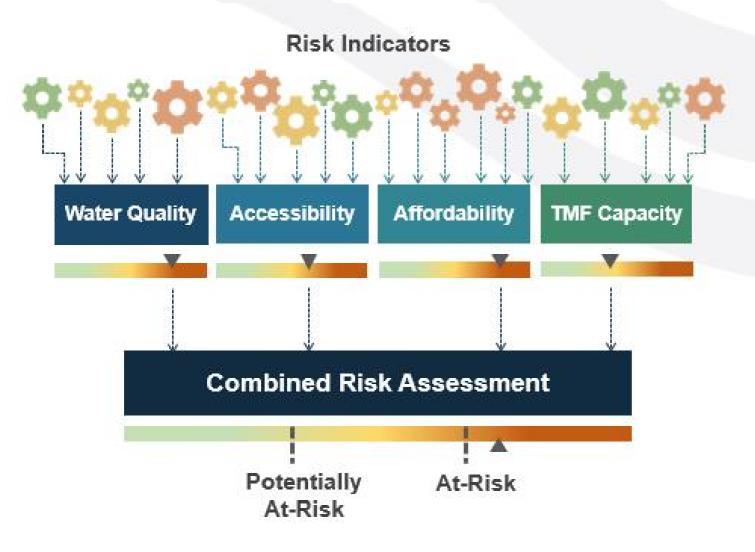


Individual risk indicators with **equal** weights.

4 risk categories with equal weights. Can analyze risk within each category if desired.

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Option 2: Risk Indicator Weights Only

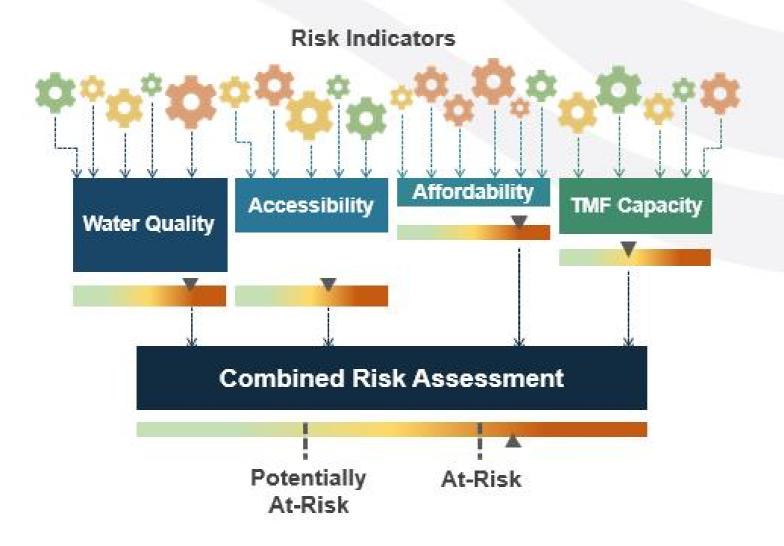


Individual risk indicators with different weights.

4 risk categories with equal weights. Can analyze risk within each category if desired.

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Option 3: Risk Indicator & Category Weights



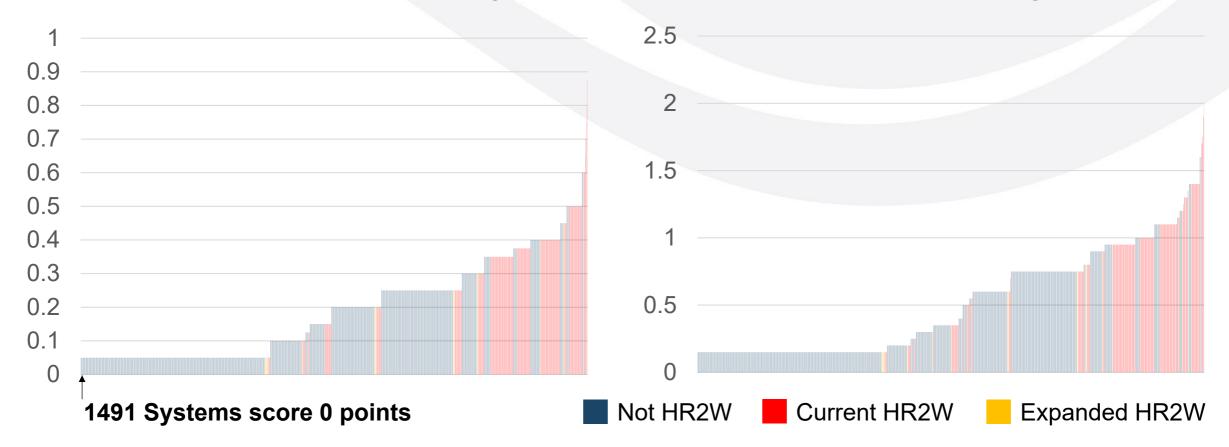
Individual risk indicators with different weights.

4 risk categories with <u>different</u> weights. Can analyze risk within each category if desired.



Water Quality Category Assessment Results (1,359 systems of 2,850 included)



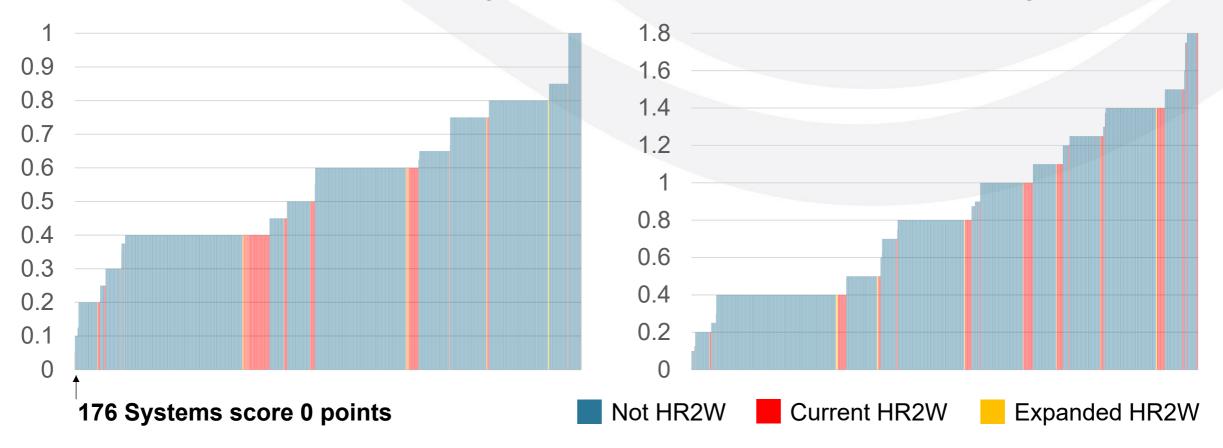


Option 2 & 3: Risk Indicator Weights Included



Accessibility Category Assessment Results (2,674 systems of 2,850 included)

Option 1: No Risk Indicator Weights



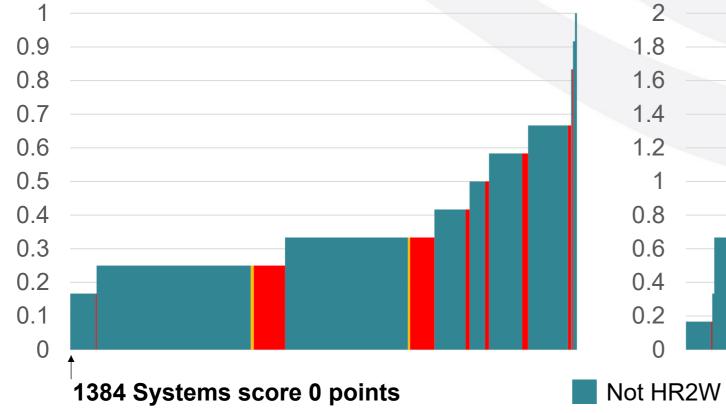
Option 2 & 3: Risk Indicator Weights Included

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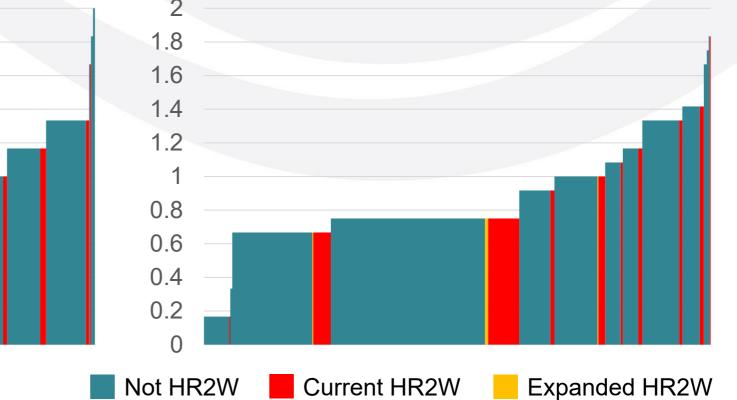
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Affordability Category Assessment Results (519 systems of 1,903 included)





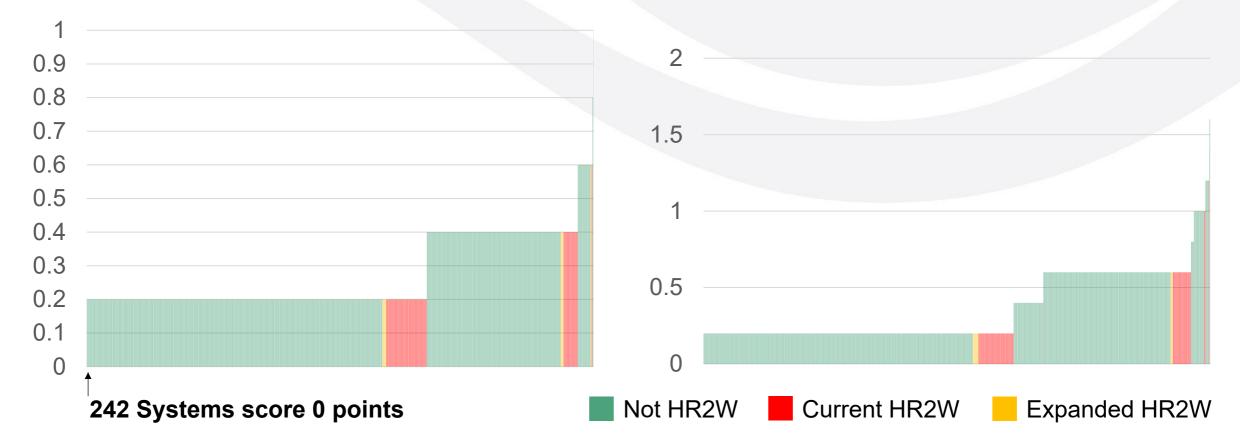
Option 2 & 3: Risk Indicator Weights Included



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TMF Capacity Category Assessment Results (2,608 systems of 2,850 included)

Option 1: No Risk Indicator Weights



Option 2 & 3: Risk Indicator Weights Included



Audience Poll Question 6

After reviewing the category assessment results, do you support different "weights" for **individual risk indicators**?

- Yes, I support different weights
- No, all risk indicators should have the same weight
- I need more time to consider this question before I can provide feedback

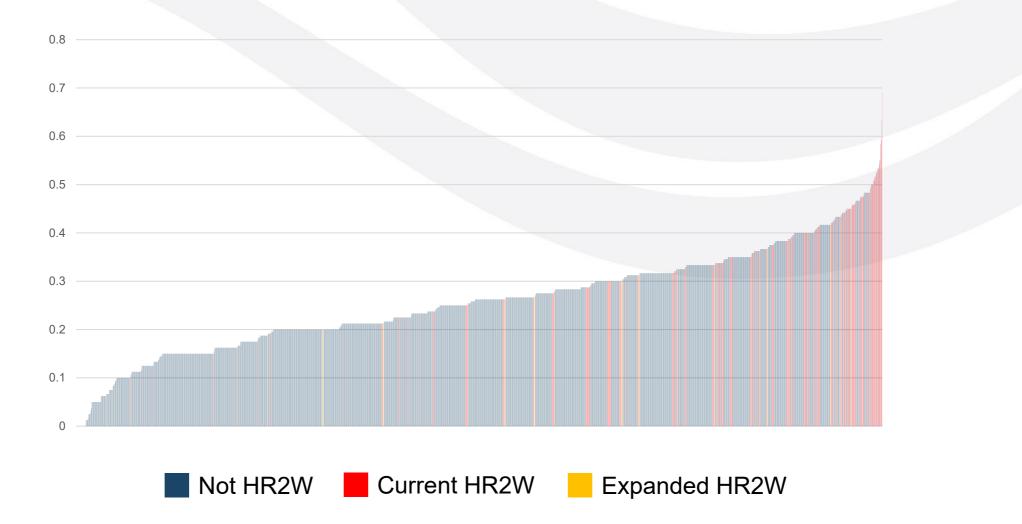
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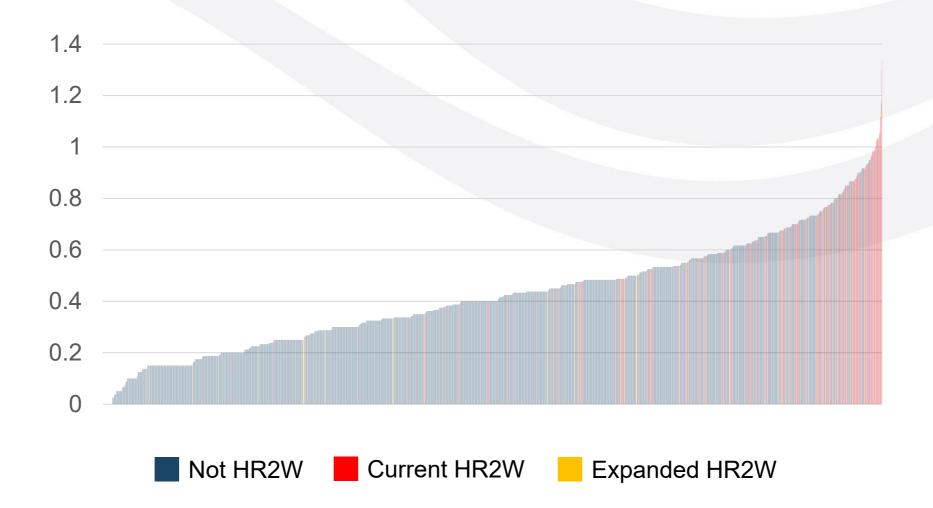
https://bit.ly/3oFVCpx

Risk Assessment Option 1: No Weights – Raw Results

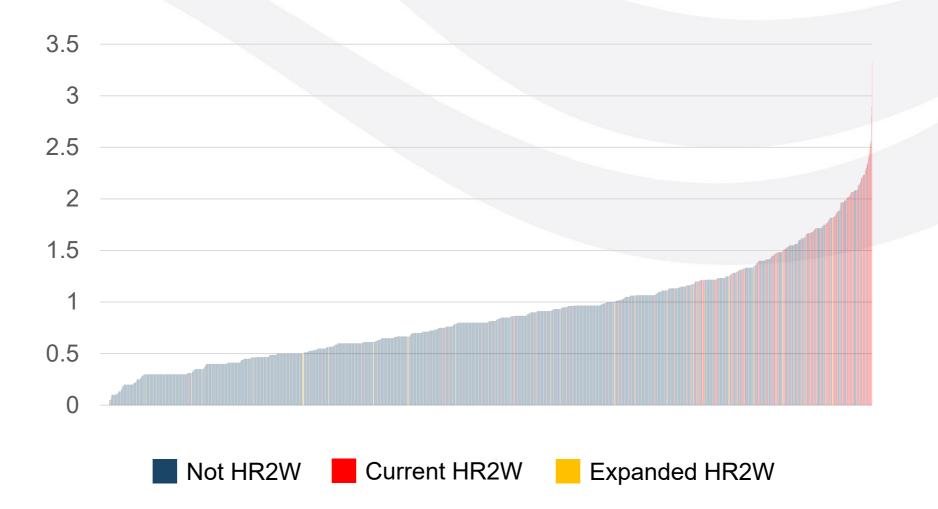




Risk Assessment Option 2: Risk Indicator Weights Only Results



Risk Assessment Option 3: Risk Indicator & Category Weights Results



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Audience Poll Question 7

Do you support different "weights" for risk indicator categories?

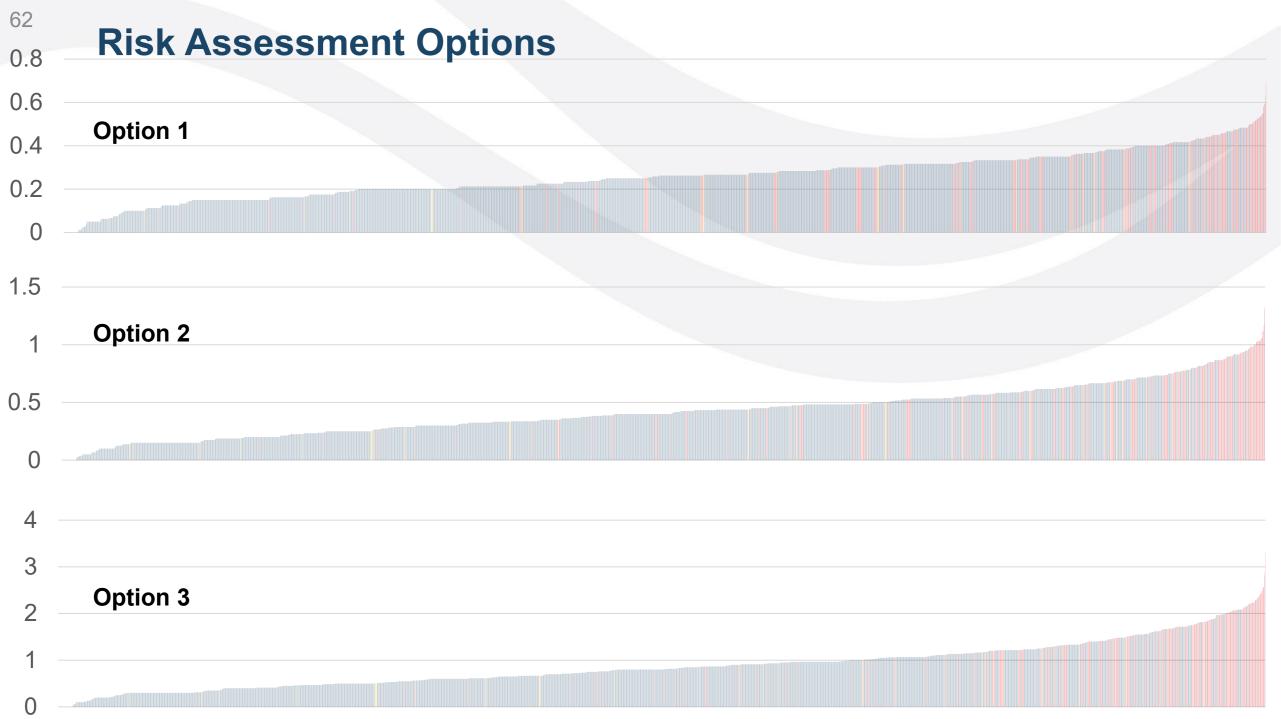
- Yes, I support different weights
- No, all risk indicators should have the same weight
- I need more time to consider this question before I can provide feedback

Access White Paper here: <u>https://www.waterboards.ca.gov/safer/docs/draft_white_paper.pdf</u>

Provide a written response to poll questions at the link below by **January 6th**:

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https://bit.ly/3oFVCpx



Audience Poll Question 8

Do you support any of the Risk Assessment methodology options presented here?

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- Yes, I like Option 1
- Yes, I like Option 2
- Yes, I like Option 3
- I need more time to consider these options before I can provide feedback
- No, I don't like any of these options

Access White Paper here:

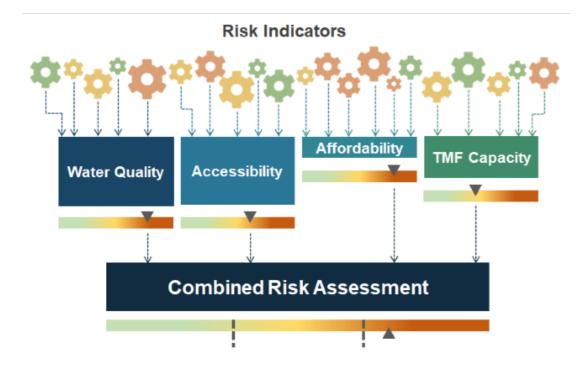
https://www.waterboards.ca.gov/safer/docs/draft_white_paper.pdf

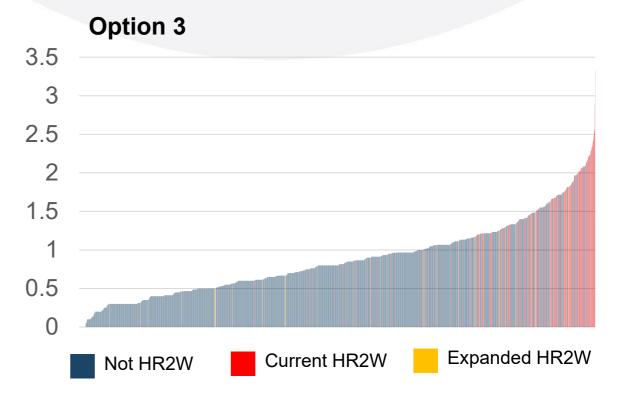
Provide a written response to poll questions at the link below by **January 6**th:

https://bit.ly/3oFVCpx

The State Water Board recommends **Option 3** for Risk Assessment 2.0.

This option is recommended due to the distribution of the current and expanded HR2W systems.





Recommended Risk Assessment Thresholds

The State Water Board recommends the following Risk Assessment 2.0 thresholds for public consideration:

- "Potentially At-Risk" threshold of 0.75 (584 systems excluding HR2W; 23%)
- "At-Risk" threshold of 1.0 (702 systems excluding HR2W; 28%)

These thresholds were determined based on where the current and expanded HR2W systems started to cluster.



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Audience Poll Question 9

Do you support the recommended methodology Option 3?

- Yes, I support this recommendation
- Maybe, I think this recommendation needs minor changes
- Maybe, I need more time to consider before I can provide feedback
- No, I don't support this recommendation

Access White Paper here:

https://www.waterboards.ca.gov/safer/docs/draft_white_paper.pdf

Provide a written response to poll questions at the link below by **January 6th**:

SAFER PROGRAM

https://bit.ly/3oFVCpx

Audience Poll Question 10

Do you support the recommended proposed "Potentially At-Risk" and "At-Risk" thresholds?

- Yes, I support these recommendations
- Maybe, I think these recommendations need minor changes
- Maybe, I need more time to consider before I can provide feedback
- No, I don't support these recommendations

Access White Paper here:

https://www.waterboards.ca.gov/safer/docs/draft_white_paper.pdf

Provide a written response to poll questions at the link below by **January 6th**:

SAFER PROGRAM

https://bit.ly/3oFVCpx

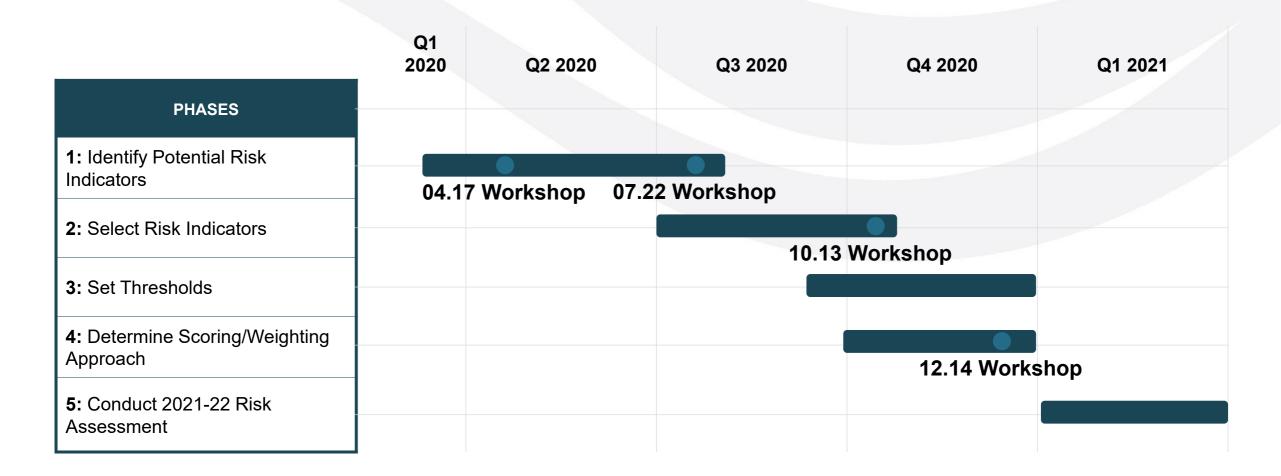
Immediate Next Steps

- Incorporate public feedback to finalize Risk Assessment 2.0.
 - White Paper: https://www.waterboards.ca.gov/safer/docs/draft_white_paper.pdf
 - Submit feedback by January 6th to: <u>SAFER@waterboards.ca.gov</u>
 - Email Title: Public Water System Risk Assessment
 - Poll & Discussion Questions: <u>https://bit.ly/3oFVCpx</u>
- Conduct Phase 5 of Development Perform Risk Assessment for the 2021-22 Fund Expenditure Plan.
- The State Water Board will release a white paper in February 2021 detailing the final Risk Assessment 2.0 methodology.

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 Results of Risk Assessment will be published in the Draft Fund Expenditure Plan.

Projected Risk Assessment 2.0 Timeline



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Proposed Needs Assessment Timeline

January: Conduct Needs Assessment:

- Conduct Risk Assessment.
- Conduct Costs Assessment.
- Conduct Affordability Assessment.

February:

- **Risk Assessment** white paper published with final methodology.
- Cost Assessment: 02.26 webinar highlighting draft results of potential costs and overview of funding gap analysis methodology.

March:

- Needs Assessment contract with UCLA concludes.
- **Needs Assessment** results delivered to DFA for Fund Expenditure Plan.

April: Draft **Fund Expenditure Plan** released for 30-day public comment.

June: Fund Expenditure Plan considered by Board for adoption.

Risk Assessment 3.0 + Vision for the Future

Risk Assessment Methodology

Refine Risk Assessment methodology with stakeholder engagement

Refine data collection & data quality

Learn from success/ failure in the field with HR2W and At-Risk Systems & Domestic Wells

Conduct studies to support existing/new indicators & thresholds

CALIFORNIA WATER BOARDS

Discussion Topic: Open Q&A

Do you have any questions or comments about the development of the Risk Assessment methodology?

Ways to Participate-

1. Watch ONLY: Visit video.calepa.ca.gov

2. Email: Submit a comment or ask a question that will be read aloud, send an email to:

safer@waterboards.ca.gov

 Q&A: Submit a question using the Q&A feature at the bottom of your Zoom Screen. You can UPVOTE any question you would like answered.

4. Raise Hand: Attendees will be given the opportunity to provide verbal comment or ask questions, if you're interested in this option, please raise your virtual hand when the time is right.

- Please wait for your name to be called.
- Public comments are 3 minutes each.

Next Steps and Announcements



Closing Remarks & Gratitude

