



Napa County Drought Resilience Plan (DRP)

Full Drought and Water Shortage Task Force
Meeting

Draft County DRP

December 12, 2024

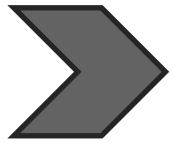


Agenda

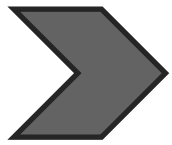
1. Meeting Outcomes
2. County DRP Recap
3. Full DWSTF Committee Recommendation
4. Next Steps



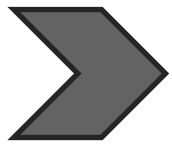
Meeting Outcomes



Understanding the County DRP development process.



Understanding the summary of the Napa County DRP.



Full DWSTF committee to recommend approving the Napa County DRP to the Napa County Board of Supervisors.



County DRP Recap



To fulfill County requirements as defined in SB 552

1. Establish a standing County Drought and Water Shortage Task Force (§10609.70(a))
2. Develop a plan (County Drought Resilience Plan) (§10609.70(b))

Primer of Senate Bill 552:
Drought Planning for Small Water
Suppliers and Rural Communities

Prepared by



And



May 2022



Drought Resilience Plan Development Process





Organization	Representative	DWSTF	Ad Hoc Subcommittee
Napa County BOS, WICC	Anne Cottrell	X	X
Napa County BOS, WICC	Alfredo Pedroza	X	
Napa County OES	Angel Hernandez	-	Reviewer Only
Napa County Parks and Open Space District, WICC	Barry Christian	X	
City of Napa Councilmember, WICC	Bernie Narvaez	X	
WICC	Bill Pramuk	X	
Napa County Groundwater Sustainability Agency	Brendan McGovern		Staff
Napa County PBES	Brittany Urquhart	X	X
California DWR	Chelsea Spier/designee	X	X
WICC	David Graves	X	X
City of American Canyon Councilmember, WICC	David Oro	X	
Public At Large	Delia Viader	X	X
Town of Yountville Vice Mayor, WICC	Eric Knight	X	
Natural Resource Conservation Service, WICC	Evelyn Denzin	X	
Planning Commission, WICC	Heather Phillips	X	
Napa County Groundwater Sustainability Agency	Jamison Crosby		Staff
WICC	Jason Lauritsen	X	
WICC	Kimberly Richard	X	
City of Calistoga Councilmember, WICC	Lisa Gift	X	
Public At Large	Mark Perkins	X	X
Winegrowers of Napa County, WICC	Michelle Benvenuto	X	
WICC	Pamela Smithers	X	
City of St. Helena Councilmember, WICC	Pat Kenealy	X	
Napa County Flood Control and Water Conservation District	Richard Thomasser	X	X
Napa County BOS, WICC	Ryan Gregory	X	
Public At Large, Howell Mountain Mutual Water Company	Tanner Hiers	X	X
Napa Land Trust, WICC	Tosha Comendant	X	X

The Task Force will continue (re-organized with fewer members) and will meet annually or as necessary to implement the plan.

Or more often if the County or State of California declares a drought emergency.



Area with Water Shortage Vulnerability and Domestic Wells/SSWSs	Physical Vulnerability Indicator	Social Vulnerability Score
The MST Subarea region east of the City of Napa	<ul style="list-style-type: none"> Higher domestic well density in fractured rock areas Consecutive dry years Reported groundwater decline of about between -16 feet (Spring 2019-2022) Declined water quality 	Between .01 and .20
Northwest – City of Napa	<ul style="list-style-type: none"> Cluster of dry wells reported Reported groundwater decline ranges between -16 to -66 feet (Spring 2019-2022) Consecutive Dry Years Basin transitions between alluvial to fractured rocks Declined water quality 	Between .21 and .60
Northeast Napa Management Area	<ul style="list-style-type: none"> Reported groundwater decline ranges between -16 to -66 feet (Spring 2019-2022) Declined water quality 	Between .01 and .20
City of Calistoga, City of St. Helena, and Angwin Area	<ul style="list-style-type: none"> Higher domestic well density Angwin Area falls in a semi fractured rock areas and susceptible to drying wells Cities of Calistoga and St. Helena has reported groundwater decline of about between -16 feet (Spring 2019-2022) Declined water quality 	Between .21 and .60
Putah Creek Watershed	<ul style="list-style-type: none"> Primarily lies in fractured rock areas 	Between .61 and .80
Mountaintop areas outside the alluvial basin	<ul style="list-style-type: none"> Primarily lies in fractured rock areas 	Between .61 and .80
Southern parts of the County, including the Carneros and American Canyon areas	<ul style="list-style-type: none"> Potential for salinity intrusion Declined water quality 	Between .41 and .80



Establish Drought Task Force

Conduct Risk Assessment

Align Actions and Strategies

Complete Drought Resilience Plan

STRA and LTMS/A tables are provided in Chapters 4 and 5 of the County DRP

ID	Action	Category	Action Descriptions and Possible Steps to Implement	Potential Barriers to Implementation	Lead Entity
Tier 1					
ST-01	Packaged or Bottled Water	Emergency and interim drinking water solutions	Short-term transportation of packaged or bottled water will be provided to vulnerable communities that rely on domestic wells and SWSs. The County will coordinate the procurement and delivery of packaged water to identified drop off areas. This can be achieved by continuing to evaluate this action and outline the steps necessary to support the SWSs and domestic wells impacted. This action would be subject to funding and availability.	Lead entity ownership and action.	Napa County, CES and PBES
ST-02	Water Hauling	Emergency and interim drinking water solutions	The County will establish a list of vendor contacts that domestic well owners or SWSs communities can contact to provide hauled-water services. This hauled water may be used to fill available storage tanks in vulnerable communities that rely on domestic wells and SWSs. The City of Napa has a list of approved water-hauling vendors. The County would provide this list to affected users who need water-hauling services.	None, Napa County to make the water hauling vendor list available.	Napa County, PBES
ST-03	Expedite Well Replacement Permits	Planning and Engagement	When a drought emergency is declared, the County will continue to expedite the permitting to replace wells that have run dry. The County would assess the drought situation and determine if well permits should be expedited.	None, however, if there are large number of permit requests this could delay processing of these permits.	Napa County, PBES
Tier 2					
ST-04	Water Conservation Workplan and Program	Water mitigation programs	The County will implement the Napa County Water Conservation Workplan: A Guide for Vineyards, Wineries and Other Water Users (LSCE and ERA 2024). This includes issuing guidelines and working with domestic well owners and SWS users to promote and conserve water around their households, including reducing indoor and outdoor water uses where practical and feasible. This can be achieved by continuing to implement the Napa County Water Conservation Workplan: A Guide for Vineyards, Wineries and Other Water Users. Napa County could expand the program to other parts of the County and expand water conservation efforts.	Staff resources to implement an expanded water conservation education and outreach.	Napa County, PBES
ST-05	Well Sounding (water level meter)	Planning and Engagement	The County will continue to encourage the domestic well owners to measure the depth-to-water during a drought or water emergency. The County developed the Well Owner's Guide, which includes a section about keeping valuable records of the domestic wells and SWSs. Data such as pump-test results and water quality measurements can provide an early indicator if a well is at risk of drying up. The Well Owner's Guide is available on the County's website. This can be achieved by continuing to loan out their water level meter device to impacted domestic well owners.	None, however, if there are large number of requests this could delay processing of these requests.	Napa County, PBES
ST-06	Vendors Contact Information	Planning and Engagement	The County will provide domestic well owners and SWSs with contact information for vendors who can supply personnel, equipment, materials, and/or associated services to restore dry wells. This can be achieved by providing this information on the County's website.	None	Napa County, PBES
ST-07	Community Outreach	Planning and Engagement	The County will work with the Task Force and local entities to distribute educational materials and to hold public meetings as necessary. The County will also send out informational emails, mailers, and update its websites. This information will include possible resources to domestic well and SWSs.	None	Napa County, PBES and PIO

ID	Action	Category	Action Descriptions and Possible Steps to Implement	Potential Barriers to Implementation	Lead Entity
LT-01	Education	Planning and Engagement	The County will provide water conservation and other drought-related topics through outreach and educational materials. Topics would be directed toward domestic wells and SWSs. This can be achieved by collaboration with local agencies to create relative material and distribute the material through various communication channels.	County staffing to provide outreach activities.	Napa County, PBES, CES, PDC and Public Works
LT-02	Treatment of Water from Alternative Source	Drinking water solutions	The County will provide technical assistance to SWSs, upon request, to explore short-term treatment options that would allow for an emergency source of supply during droughts. An alternate source includes a nearby well that has water but does not meet the desired water quality. Approval of the water source and/or treatment unit by the Division of Environmental Health will be required to ensure that the treatment is sufficient for addressing the source water contamination. The County will develop an emergency water treatment guide, conduct SWSs operations, facilitate regulatory communication, provide technical assistance, and share proper approval for addressing contamination.	EDH will need to provide staff to provide technical assistance.	Environmental Health Division
LT-03	Website and Online Educational Materials	Planning and Engagement	The County will maintain a well portal with County information, permits, and forms in one place. It will also provide a map depicting water storage vulnerability areas. Educational information will include well maintenance (see Well Owner's Guide: A Guide for Private Well Owners in Napa County at https://napa.ca.gov/napa-county-well-owners-guide). The County will ensure that portals and tools are simple, accessible, and easy to navigate to remove possible associated barriers. This can be achieved by maintaining the website for groundwater related information.	County resources.	Napa County, PBES
LT-04	Improve Water Efficiency	Drinking water solutions	The County will encourage individuals to improve the efficiency of existing irrigation systems for vineyards, landscapes and/or small agriculture plots to decrease demand and reduce water use. This can be achieved by public education campaigns and potentially working with local business stores and landscaping companies to offer workshops on irrigation efficiency.	County has the information and needs staff to prepare a presentable material in their website.	Napa County, PBES
LT-05	Installation of Water Measuring Devices	Water mitigation programs	The County will explore expanding its current well-monitoring network. It will also offer guidance to private well owners on how to accurately measure their water usage, with some information already available in the Well Owner's Guide: A Guide for Private Well Owners in Napa County. The County will provide technical assistance to encourage well users to install flow meters and ultrasonic monitoring devices. The County will assess and report to self-monitoring network while developing guide on accurate water usage measurement to domestic well owners and SWSs. An outreach program will be conducted to encourage flow meter installation and voluntary groundwater level recording, through technical assistance and information through various channels. The County will also compile a list of potential grants for flow meter installation and create a user-friendly guide for the grant application process, making all resources easily accessible online and through local offices.	The County need staff resources who can track the types of potential funding programs and provide technical assistance.	Napa County, PBES
LT-06	Connect SWSs to Larger Systems	Consolidation/Consideration	Infrastructure upgrades will improve the reliability of the SWSs and increase the likelihood that a clean by public water agency well could be used with a well maintained SWSs. Another approach is to provide an intake of a SWSs when clean proximity to public water system. SWSs will perform needed infrastructure upgrades to improve their service reliability and reduce system losses. Some efforts include upgrading system water pressure, repairing aging pipelines, and replacing outdated meters, etc. The County public water agency will provide technical assistance to facilitate consolidation, where applicable. The County can guide SWSs owners on system improvements, including pressure management, pipeline repairs, and meter upgrade. Staff offer advice on best practices and funding sources, while facilitating communication with public water agencies for potential consolidation.	SWSs does not have the resources to engage with the County and nearby public water agencies.	SWSs
LT-07	Water Service Area Boundaries	Planning and Engagement	The County will make available the water service area boundaries of water suppliers. This information is also available on the DRP Water Storage Vulnerability tool. The information will be valuable for SWSs and domestic well users to consider future consolidation based on their proximity to larger water supplier agencies. This can be achieved by establishing a standardized format for the water service area boundaries of all the water suppliers. This information could be made accessible on the County's website.	The information table and County will need to dedicate staffing resources to implement the action.	Napa County, PBES
LT-08	Dry Well Reporting System	Planning and Engagement	The County will continue to send reports to the State's Dry Well Reporting System during drought or water emergency events. The County will encourage SWSs and domestic well users to report water shortages and dry well conditions to the State's Dry Well Reporting System. This can be achieved by establishing a protocol for consistent reporting to the State's Dry Well Reporting System throughout the year.	Well users might not provide timely reports or lack of reporting.	Napa County, PBES
LT-09	Water Storage Planning	Planning and Engagement	The County will supplement DRP data with additional available local data to improve the applicability of DRP's online Water Storage Vulnerability tool. This includes well data, dry well reports, etc. The County will periodically update its local risk assessment as new data and/or understanding of local conditions. The County will use an adaptive management approach to update this County DRP as needed. This can be achieved by establishing a process to regularly collect and integrate local ground water data with the DRP's Water Storage Vulnerability tool by designating resources as new data becomes available.	Availability of County staff to do risk assessments.	Napa County, PBES
LT-10	Funding Opportunities	Planning and Engagement	The County will provide assistance to domestic well owners and SWSs in identifying funding opportunities available at the local, State and federal levels for infrastructure repairs, improvements, and other necessary resources. This can be achieved by developing a database of local, State and federal funding opportunities and posting it on the County website.	Availability of staff that tracks the potential funding programs.	Napa County, PBES
LT-11	Encouraging Water Tank Installation	Planning and Engagement	The County will educate SWSs and domestic well owners about any potential water storage risks and vulnerabilities affecting their wells. This information will help SWSs and domestic well owners consider installing water storage tanks connected to their wells. These tanks will allow for supplemental water supply during times when a well yield is diminishing. By implementing this strategy, well owners could reduce or eliminate their reliance for water filling stations, bottled water, or hauled water during storage periods. This will help well owners better prepare for and manage immediate water security challenges, ensuring their self-reliance and resilience in drought conditions. This can be achieved by creating informative materials about water storage risks and vulnerabilities and making it available on the County website. Material could include the benefits of installing water storage tanks, providing practical guidance on installation, maintenance, and care.	Availability of staff to develop, update and communicate with impacted users.	Napa County



Napa County DRP Review	
Task	Dates
Ad Hoc Subcommittee Review Period	October 1 st - 11 th
Full DWSTF Review Period	November 6 th – 15 th

Comments received from;

- **Tosha Comendant**
- **Angel Hernandez**
- **Julie Ekstrom (CA DWR)**
- **Napa County staff**

All comments were responded to by the review team and suggestions were accepted. Language was added and incorporated into the Final Napa County DRP.



Meeting Outcomes



Understanding the County DRP development process.



Understanding the summary of the Napa County DRP.



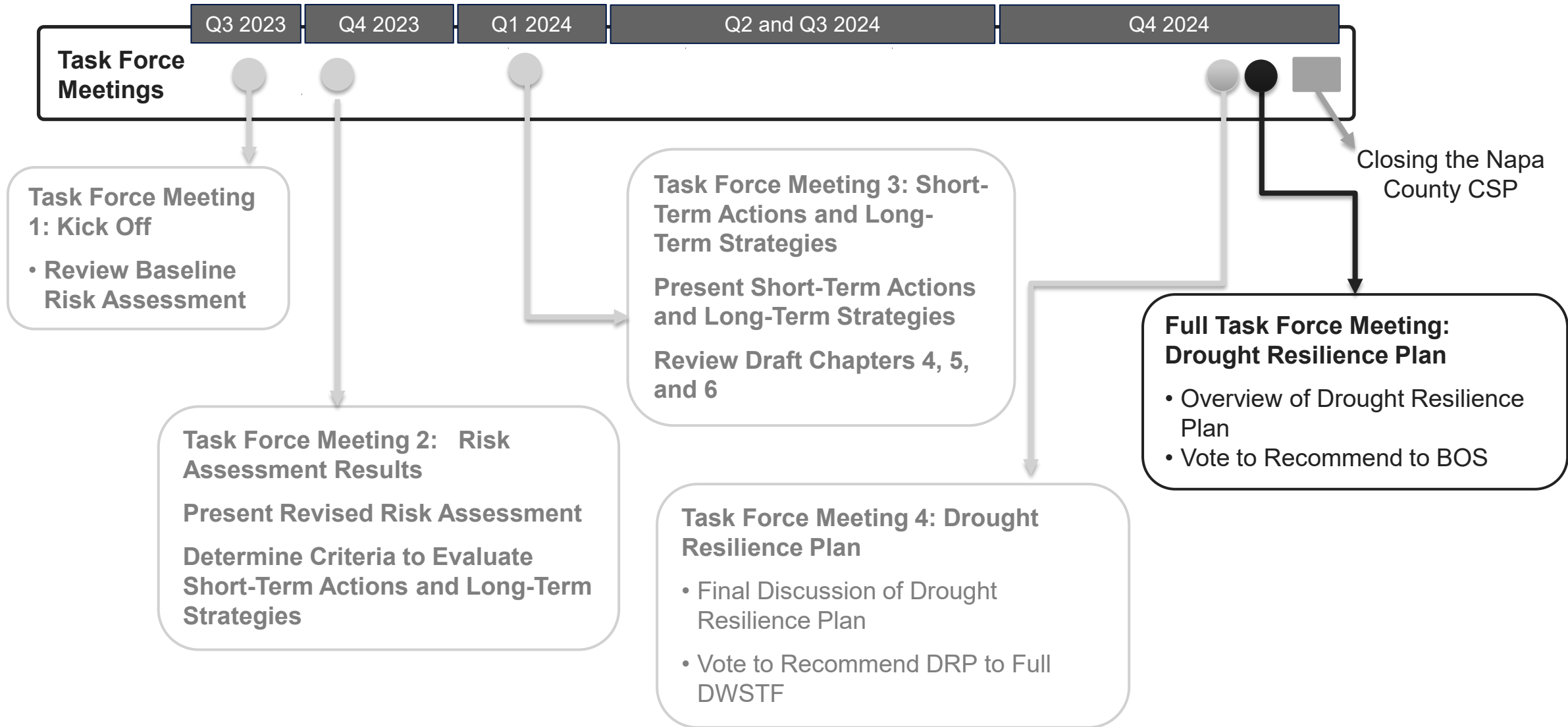
Full DWSTF Committee to recommend approval of the Napa County DRP to the Napa County Board of Supervisors.



Next Steps



Upcoming Activities and Schedule





Full Committee Action Item

Full DWSTF Committee to recommend the Board of Supervisors to approve the Napa County DRP and move to implementation of plan.



Next Steps



Staff will revise Bylaws to make the DWSTF a small, core group, not linked to WICC.



BOS will be asked to accept the DRP and Bylaws at their meeting on **December 17th**

Next Action – Begin Implementation of DRP