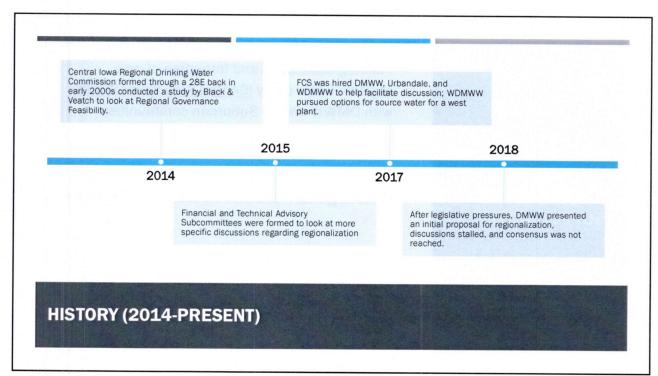
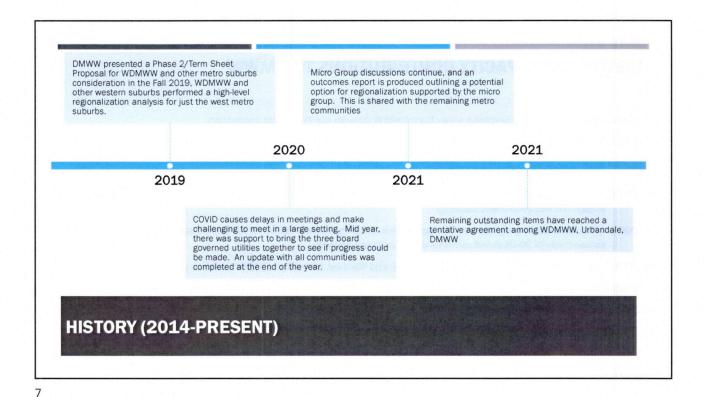




HISTORY OF CAPACITY CONTRIBUTIONS TO DMWW

- 1974 WDMWW began to purchase water from DMWW through our Elm Street connection.
- 1992 Growth to the west demanded more water. DMWW, WDMWW, Urbandale Water Utility spear headed an agreement to construct a feeder main and the Louise P. Moon Booster Station located at 156th and north of Hickman to deliver water west. WDMWW invested \$2.9 Million.
- 1993 Construction of the Maffitt Water Treatment Plant to improve reliability and redundancy. WDMWW invested \$5 million to gain 5.0 MGD Purchase capacity.
- 2005 Purchase capacity agreement (the agreement currently in use). WDMWW purchased additional 2.0 MGD for \$3.8 million through 2045 to reduce rates with purchased capacity
- 2006 98th Street Tower shared by Clive, WDMWW, and Waukee, benefitted DMWW in delivery of water.
- 2015 WDMWW, City of West Des Moines, and DMWW construct the Army Post Aquifer Storage and Recovery Well (ASR)
- 2020 Joint Feeder main and booster station
- 2022 Throttling valve to support the two new data centers.



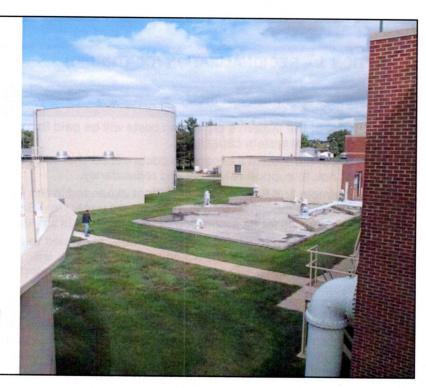


Full Regionalization and formation of new regional water utility (Central lowa Water Works) with DMWW and all Suburban communities OPTIONS FOR FUTURE WATER SUPPLY NEEDS West Regional Plant with Waukee and Van Meter Broader West Metro Regionalization with West Suburb Communities (currently not in discussion)

OPTION 1 - FULL REGIONALIZATION

What Does Regionalization mean?

- Shared production of all drinking water
 - For WDMWW -21 wells, raw water transmission main, and A.C. Ward treatment plant
 - Also includes DMWW source water and three treatment plants
 - Could include Grimes and Altoona water production if they join
- Includes core network transmission (large feeder mains, shared pumping stations such as LP Moon)
- Participating members will still own and maintain responsibility for their own distribution systems and set rates for their own customers.



REGIONALIZATION - KEY POINTS

Shared Governance -

- Currently West Des Moines Water Works has no say or full knowledge in the decisions of
- Des Moines Water Works DMWW accounts for 30% of our water supply, and under contractual agreement, will continue to provide a significant share until 2045. Under a regionalized water production approach, all our water will come from CIWW.
- Governing board members will each have one vote, DMWW will receive 2 votes since they represent a population greater than 100,000 people.

 Representatives from any two members of the new regional utility can call for a weighted vote, which is based on a community's water consumption. In a weighted vote, WDMWW currently has 14% of the total vote. Under the weighted vote structure, Des Moines Water Works, with about 39% of the total vote, cannot achieve a majority vote on its own.

Asset Transfer -

- WDMWW and DMWW Water Works source water, treatments plants and core main/pumping infrastructure will become assets of the regional utility within 5 years.
- Depreciation schedules will be reconciled
- Method to handle existing debt (SRF or Private)
- Credit for existing purchased capacity
- All communities buy in or buy out based on assets contributed

OPTION 1 - REGIONALIZATION (CONTINUED)

Those Benefited Pay for Benefit - (how growth will be handled)

- 91% of the system's expansion costs will be paid for only by those entities needing additional system capacity.
- 9% of the system's expansion costs will be shared by all, whether the entity is growing or not, to support reliability and redundancy.
- Example 1: if Saylorville Water Plant expanded in the future under a regional model and even though WDMWW does not get water from Saylorville, it will still be responsible for its proportion of 9% of the costs whether it needed more water or not.
- Example 2: if McMullin or AC Ward were expanded to accommodate West Des Moines growth, all communities would contribute to that 9%. Those communities needing additional water would be responsible for their proportion of the 91% costs of the system expansion.

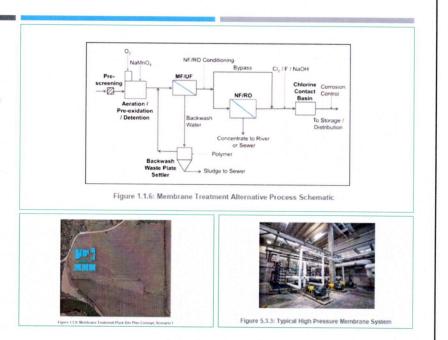
Approval process

All capital and maintenance projects for all source, treatment and core mains/pumping
will be planned and approved at the regional level following work through technical
committees with input from individual members.



OPTION 2 - WEST REGIONAL PLANT

- 8 MGD state-of-the-art Reverse Osmosis Plant near Van Meter using alluvial sources initially.
- Serve WDMWW, Van Meter and potentially Waukee as a wholesale customer.
- WDMWW would continue to purchase some water from DMWW, per contract, through 2045.
- After 2045, WDMWW would either continue to purchase some water from DMWW or produce 100 percent of its needs. The latter decision is not being made at this time.



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WATER QUANTITY CONSIDERATIONS

- New Permit issued August 6, 2020
 - Allows for 12 MGD in source water in two alluvial well fields
 - Requires a reduction to 2.88 MGD when the Racoon River hits 114 cfs at 63rd Street
 - Requires a reduction to 0 MGD when the Raccoon River hits 10 cfs at Fleur Drive, 63rd Street or Van Meter Gage and DMWW has implemented Stage 3 and has tried to use all other source water sources.
 - Required to have a backup supply plan. Submitted and approved by DNR in October 2021. WDMWW and Waukee will use Purchase Capacity/Waukee ASR and Van Meter will use ground storage and current wells to supplement.
 - Future water supply sources include quarries and Jordan wells which we would expect not to be subject to the same restrictions.

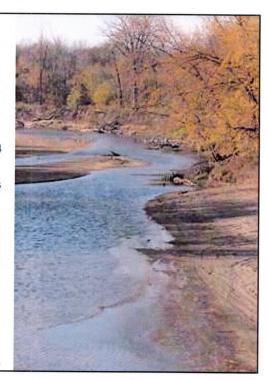
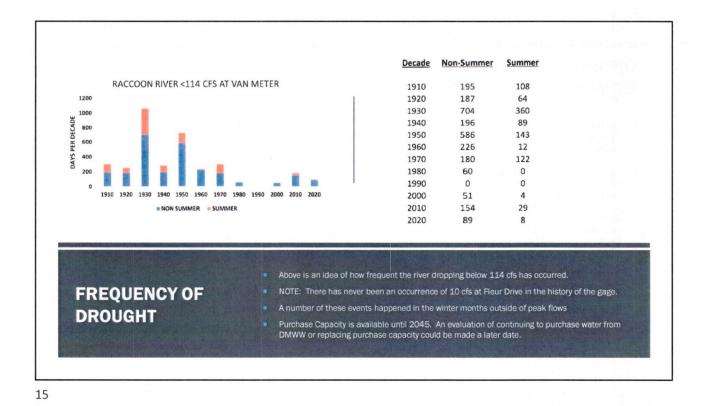
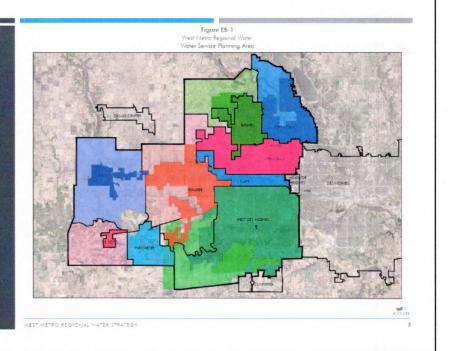


Photo Courtesy of DMWV



OPTION 3 – WEST METRO REGIONALIZATION

- Regionalization of the west metro suburbs that utilizes existing purchase capacity from DMWW and additional source water, treatment, and distribution to connect interested western suburbs
- Provides an option for shared governance and economies of scale
- Explored at a desktop level for higher level feasibility but specific details have not been furthered explored at this time.



NON-FINANCIAL CONSIDERATIONS

REGIONALIZATION

PROS

- · Economies of scale
- Larger voice on source water/treatment concerns and other issues
- Shared resources/redundancies in emergencies
- More input over costs than in current DMWW contract.
- History of successful regionalization efforts (WRA, DART, MPO, West Comm, Metro Waste)

CONS

- A few cities could control the direction and decisions especially initially – will that include WDMWW at 14% of the flow?
- Possible future peaking charges/rate structure changes that could have unforeseen financial impacts
- Employee equity perception among the different treatment plant employees....e.g.
 Does one employee under one plant get more/less benefits or pay than the others.
- Challenging to divide costs fairly to the region, more staff/resources
- Will AC Ward get regional support for necessary infrastructure upgrades

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NON-FINANCIAL CONSIDERATIONS

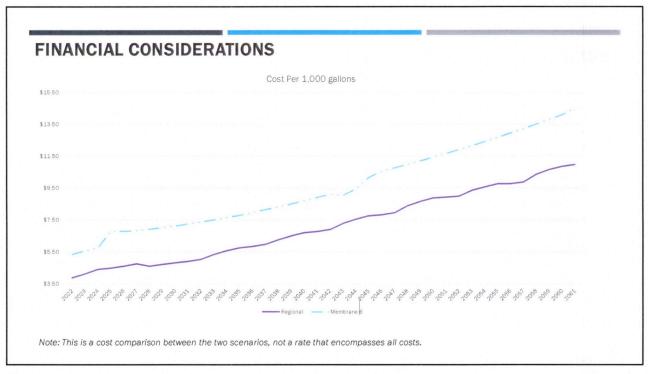
WEST REGIONAL PLANT

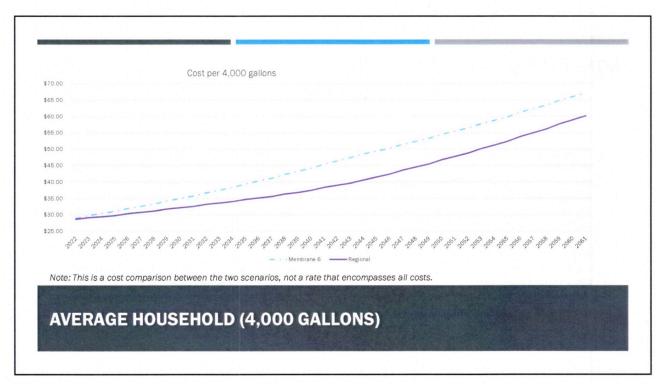
PROS

- In the driver's seat of water needs timing for WDMWW
- Don't have to worry that WDMWW's needs will be secondary
- Membrane plant has the capability to address source water quality concerns (Nitrate, Microcystins, PFOS/PFAS)
- Improved taste and perception to some of our customers
- More control over costs
- Grow the utility in a manner that is strategic and cooperates with other entities

CONS

- Will we have source water quantity issues beyond 2050/2060 and in times of extreme drought?
- Could require WDMWW to ask for conservation or do more to drive down peak in the summer especially during extreme droughts
- Could be seen as uncooperative in the metro
- Cannot separate from purchasing water from DMWW at least through 2045 or until other costly infrastructure improvements are made





Cost Comparison Membrane 6 Regionalization Membrane 6 Regionalization brane 6 Regionalization \$6.79 \$4.49 Average WDM **COST COMPARISON** Household 4,000 Gallons \$26.76 Restaurant - Small Commercial 46,000 gallons \$312.34 \$206.54 \$327.52 \$221.72 \$358.80 \$264.96 Large User Commercial 8,658,825 gallons \$41,736.38 Modeling indicates that WDMWW rate payers should expect average of 30% savings Membrane 6 Regionalization \$12.68 over the course of 40 years by \$9.76 \$14.11 \$10.85 Average WDM Household 4,000 Gallons choosing regionalization over building a west regional plant. \$35.68 \$50.72 \$39.04 \$43,40 Restaurant - Small 46,000 gallons \$649.06 \$499.10 arge User Commercial \$77,238.28 \$109,796.12 * This is not reflect an actual rate to customers just a cost comparison for the same relative costs for water production and core transmission infastructure included in both models ** This assumes no change in rate structure fom DMWW for water still purchased as part of the Membrane 6 option

	REGIONALIZATION	WEST DESIGNAL DI ANIT
Availability	Uncertain of the timing of necessary improvements to provide water further west (i.e not currently in 5-year CIP for DMWW) Could impact economic development if treatment capacity, transmission, or pumping is delayed because of competing needs in other cities. Long term (i.e beyond 2055) water availability is more certain	WEST REGIONAL PLANT WDMWW in the driver's seat of timing of necessary improvements. Long term source water needs beyond 2055 would need further evaluation and study. Availability uncertain. Water Use Permit in place and ready to begin design, DMWW still in study phase. Treatment transmission & pumping concerns all addressed in the near term.
Quality	 Planning to expand a Des Moines River wellfield should help improve source water quality to Fleur Dr. plant in 4-5 years. Will not address future contaminants such as PFAS/PFOS but impact unknown at this time. No current plans for McMullen plant but no urgent water quality issues 	 New membrane plant will address source water quality concerns for about 3/4 of our rate payers (includes AC Ward). AC Ward has no current issues. Improved taste and aesthetics for those on new plant only (~1/4 of our customers). AC Ward or customers that get DMWW water quality will remain unchanged.
Cost	 If modeling and assumptions are correct, could be up to a 30% savings to WDMWW ratepayers over the next 40 years. WDMWW will have input on all production/core main costs through regional governance. WDMWW will require regional board approval for improvements to AC Ward. 	 If modeling and assumptions are correct, could be up to 30% higher total cost over the course of 40 years. With continued successful local control, everything can be done to manage those additional costs. WDMWW will not require regional board approval for improvements to AC Ward.

PATH FORWARD



WDMWW went back to DMWW with some additional points to address some of our non-financial concerns. They have agreed to these in principle. Language has been finalized.



Public Input: December 6, 2021 at 4:00 pm at 1505 Railroad Ave and December 14, 2021, at 5:30 pm in the City Council Chambers. Information regarding the decision will be posted to the water works website and shared out via several media methods



December 15, 2021 - WDMWW Board of Trustees will sign a resolution committing to a path forward.



Should WDMWW approve a regionalization path, there are several milestones outlined in the next year to stand a regional water utility up by January 1, 2023.

