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APPENDICES

APPENDIX 11A: Implementation Survey Template for 2016 Region K Water Plan Projects

- Table 11A.1 Summary of TWDB Template Containing Survey Results of Implementation Status of Water Management Strategies from the 2016 Region K Water Plan
- Table 11A.2 Full TWDB Template Containing Survey Results of Implementation Status of Water Management Strategies from the 2016 Region K Water Plan

APPENDIX 11B: Comparison Tables and Graphs for Population and Demand Projections

CHAPTER 11: IMPLEMENTATION AND COMPARISON TO THE PREVIOUS REGIONAL WATER PLAN

This chapter presents a discussion and survey of water management strategy projects that were recommended in the 2016 Regional Water Plan and have since been implemented, as well as providing a summary comparison of the 2021 Regional Water Plan to the 2016 Regional Water Plan with respect to population, demands, water availability and supplies, and water management strategies.

11.1 IMPLEMENTATION

The Texas Water Development Board (TWDB) uses a survey to track the implementation status of all recommended strategies from the previous planning cycle. The TWDB survey template was used to collect the required information from the Water User Groups (WUGs) and wholesale water providers in the region. *Appendix 11A* contains two versions of the Implementation Template used to record the survey results. *Table 11A.1* is a shortened summary version of the results, based on survey responses. *Table 11A.2* is the full version of the TWDB template containing all of the information based on survey responses, presented to meet TWDB requirements. As of October 2020, seventeen (17) project sponsors had responded to the survey.

In general, water management strategies related to return flows, conservation, reuse, drought management, and new water sale contracts and contract amendments have been implemented to some extent since the 2016 Region K Water Plan. Based on responses to date, approximately twenty-five (25) of the water management strategies recommended in the 2016 Region K Water Plan were found to either be currently operating or to have all phases implemented. Based on responses to date, fifteen (15) others have been initiated or are in some state of progress. Supply numbers that were provided in the surveys have been included in the results tables in *Appendix 11A*. Many of these particular strategies are on-going and will continue to be recommended and implemented during future planning cycles.

Results showed that thirteen (13) water management strategies with capital costs that were recommended in the 2016 Region K Water Plan have been implemented to the point of operation. These projects include the following:

- City of Austin Direct Non-Potable Reuse
- City of Austin Other Reuse
- City of Austin Rainwater Harvesting
- City of Austin Conservation
- Direct Reuse Buda
- Direct Reuse Horseshoe Bay
- Direct Reuse Pflugerville

- LCRA Lane City Off-Channel Reservoir
- Expansion of Carrizo-Wilcox Aquifer Supplies Aqua WSC
- Municipal Conservation Bertram
- Municipal Conservation Buda
- Municipal Conservation Cedar Park
- Municipal Conservation Horseshoe Bay
- Municipal Conservation Smithville

Several of the reuse and conservation strategies are considered to be on-going and will continue to be recommended in future planning cycles. Implementation costs and water supply volumes are included in *Appendix 11A*, as available. Generally, strategies that are currently operating without capital costs include strategies such as Drought Management and Conservation for some Water User Groups.

Based on survey responses, a number of additional strategies recommended in the 2016 Region K Water Plan are underway, but not currently to the point of operation. This includes strategies that have permit applications submitted, are performing feasibility studies, or are in some stage of planning, design, or construction. The following projects have been started, but have not been completed:

- City of Austin Return Flows
- Drought Management Fayette WSC
- Expansion of Carrizo-Wilcox Aquifer Supplies LCRA
- Expansion of Ellenburger-San Saba Aquifer Supplies Bertram
- LCRA Acquire Additional Water Rights
- LCRA Contract Amendments
- LCRA New LCRA Contracts
- LCRA Excess Flows Permit Off-Channel Reservoir
- LCRA Mid-Basin Off-Channel Reservoir
- Municipal Conservation Pflugerville
- Urgent Water Loss Reduction Project Creedmoor-Maha WSC
- BS/EACD Edwards/Middle Trinity ASR

See *Appendix 11A* for additional information related to these and the rest of the water management strategies that were recommended in the 2016 Region K Water Plan.

11.2 COMPARISON TO THE PREVIOUS REGIONAL WATER PLAN

This section discusses how the 2021 Regional Water Plan compares to the 2016 Regional Water Plan, with respect to population, water demands, water supplies, and water management strategies.

11.2.1 Population Projections

The major change related to population that was made for the 2021 Region K Plan is related to the definition of a municipal Water User Group (WUG). In the 2016 Region K Plan, municipal WUGs were both city-based and utility-based. For the 2021 Region K Plan, the municipal WUGs are all utility-based. In addition, the threshold for being defined as an individual WUG changed so that water utilities providing more than 100 ac-ft/yr of water met the definition. In the 2016 Region K Plan, the threshold was 280 ac-ft/yr. This changed increased the number of municipal WUGs in the region as compared to the 2016 Region K Plan.

Overall for Region K, there is a population projection increase of approximately 25,000 for Year 2020 between the 2016 Region K Plan and the 2021 Region K Plan. By 2070, the 2021 Region K Plan shows a population projection that is approximately 47,000 higher than the 2070 population projection in the 2016 Region K Plan. The rate of population projection growth by planning decade is approximately the same as (no change from) the rates shown in the 2016 Region K Plan. Tabular data and bar graphs comparing the two (2) plans can be found in *Appendix 11B*.

Overall, population estimates for most counties have not changed between the 2016 Region K Plan and the 2021 Region K Plan. Travis County was found to have a higher population projection predicted by year 2070 in the 2021 RWP, as compared to the 2016 Region K Plan. All other counties were found to have no change in population projection by Year 2070.

Overall, population projection growth rates for most counties have not changed between the 2016 Region K Plan and the 2021 Region K Plan. Travis County was found to have a negligibly faster population projection growth rate (<0.1% increase) in the 2021 RWP, as compared to the 2016 Region K Plan. All other counties were found to have no change in population projection growth rate.

These changes by county are summarized in *Table 11.1*.

Table 11.1: Comparison of 2021 Region K Plan and 2016 Region K Plan with respect to the 2070 Population Projections and Overall Projection Growth Rates by County

County	Population in Year 2070 (2021 RWP compared to 2016 RWP)	Population Growth Rate (2021 RWP compared to 2016 RWP)				
Bastrop	No Change	No Change				
Blanco	No Change	No Change				
Burnet	No Change	No Change				
Colorado	No Change	No Change				
Fayette	No Change	No Change				
Gillespie	No Change	No Change				
Hays (partial)	No Change	No Change				
Llano	No Change	No Change				
Matagorda	No Change	No Change				
Mills	No Change	No Change				
San Saba	No Change	No Change				
Travis	Increase	Negligible Increase				
Wharton (partial)	No Change	No Change				
Williamson (partial)	No Change	No Change				
Total (Region K)	Increase	No Change				

11.2.2 Water Demand Projections

Overall for Region K, there is a decrease in water demand of approximately 66,000 acre-feet/year for Year 2020 between the 2016 Region K Plan and the 2021 Region K Plan. By 2070, the 2021 Region K Plan shows a total water demand that is approximately 154,000 acre-feet/year lower than the 2070 total water demand in the 2016 Region K Plan. The rate of water demand growth by planning decade is approximately 1.1% lower than was shown in the 2016 Region K Plan. Tabular data and bar graphs comparing the two plans can be found in *Appendix 11B*. Water demand projection methodologies for this cycle are discussed in *Chapter 2*.

Water demand projections for each usage category have changed between the 2016 Region K Plan and the 2021 Region K Plan. Only the municipal water usage category has a higher water demand predicted by Year 2070 in the 2021 Region K Plan. The remaining water usage categories had a smaller water demand predicted by Year 2070 in the 2021 Region K Plan: Livestock, Irrigation, Manufacturing, Mining, and Steam-Electric Power Generation.

Water demand projection growth rates for each usage category have also changed between the 2016 Region K Plan and the 2021 Region K Plan. The following water usage categories had a less than one percent (1%) change in the water demand projection growth rate when comparing the 2021 Region K Plan to the 2016 Region K Plan: Municipal, Livestock, and Irrigation. The remaining water usage categories had slower demand projection rates in the 2021 Region K Plan, as compared to the 2016 Region K Plan: Manufacturing, Mining, and Steam-Electric Power Generation.

These changes are summarized in *Table 11.2*.

Table 11.2: Demand Change in Year 2070 by Water Usage Category, from 2016 to 2021 Region K Plan

Water Usage Category	Water Demand in Year 2070 (2021 RWP compared to 2016 RWP)	Water Demand Growth Rate (2021 RWP compared to 2016 RWP)
Municipal	Increase	No Change
Livestock	Decrease	No Change
Irrigation	Decrease	No Change
Manufacturing	Decrease	Decrease
Mining	Decrease	Decrease
Steam-Electric Power Generation	Decrease	Decrease
Total Water Demand	Decrease	Decrease

Table 11.3 identifies counties that have a higher projected water demand by Year 2070 in the 2021 Region K Plan than was shown in the 2016 Region K Plan, based on all water use categories. In addition, the usage category that has the greatest impact on that county's growth is shown in *Table 11.3*.

Table 11.3: Counties with Year 2070 Total Water Demand Increase from 2016 to 2021 Region K Plan

County	Total Water Demand Increase in Year 2070 (acre-feet/year)	Greatest Water Usage Category Increase
Blanco	801	Irrigation
Colorado	11,553	Irrigation
Mills	1,919	Irrigation
San Saba	2,294	Irrigation
Williamson (partial)	1,201	Municipal

Table 11.4 identifies counties that have a lower projected water demand by Year 2070 than was shown in the 2016 Region K Plan. In addition, the water usage category that has the greatest impact on each county's decrease is shown in *Table 11.4*.

Table 11.4: Counties with Year 2070 Total Water Demand Decrease from 2011 RWP

County	Total Water Demand Decrease in Year 2070 (acre-feet/year)	Greatest Water Usage Category Decrease
Bastrop	-13,930	Mining
Burnet	-1,849	Manufacturing
Fayette	-4,054	Steam-Electric Power Generation
Gillespie	-511	Manufacturing
Hays (partial)	-738	Municipal
Llano	-1,639	Irrigation
Matagorda	-55,156	Steam-Electric Power Generation
Travis	-78,275	Manufacturing
Wharton (partial)	-15,780	Irrigation

11.2.3 Drought of Record and Hydrologic Assumptions

The Drought of Record for the 2016 Region K Water Plan occurred from 1947-1957, while the Drought-of-Record for the 2021 Region K Water Plan occurred from 2007-2016. The Region K Cutoff Model was used in both plans for determining the surface water availability numbers. In the 2016 Region K Plan, the period of record was from 1940-2013, with a critical dry year of 2011. For the 2021 Region K Plan, the period of record was from 1940-2016, with a critical dry year of 2011. Hydrologic assumptions for the surface water modeling involving the Region K Cutoff Model are included in *Chapter 3*.

11.2.4 Groundwater and Surface Water Availability and Water Supplies

Overall for Region K, the total water source availability in the 2021 Region K Plan has slightly increased from the availability in the 2016 Region K Plan. In the 2016 Region K Plan, the total water availability for 2020 is approximately 1.29 million acre-feet/year, with 75 percent surface water and 25 percent groundwater. In the 2021 Region K Plan, the total water availability for 2020 and 2070 was approximately 1.3 million acre-feet/year, with 71 percent surface water and 29 percent groundwater.

Figure 11.1 shows a comparison of water availability by type of source, for 2020 and 2070, in the 2016 Region K Plan and the 2021 Region K Plan.

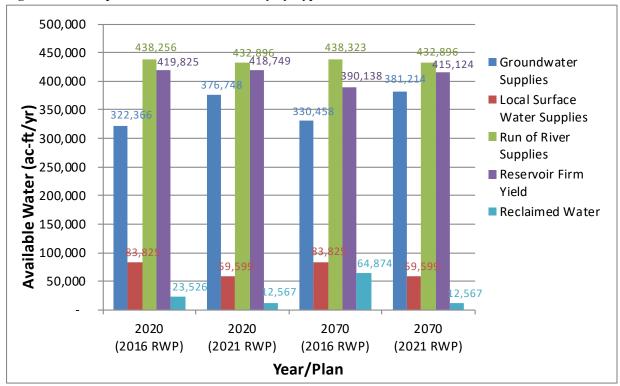


Figure 11.1: Comparison of Water Availability by Type of Source for 2020 and 2070

Figure 11.2 provides a comparison of the existing surface water and groundwater supplies in Region K for the 2016 Region K Plan and 2021 Region K Plan, shown for the 2020 and 2070 planning decades. Existing water supplies are those that can be currently accessed by Water User Groups, both physically and legally. Existing water supplies are generally less than the available source volumes. Total existing water supplies increase in the 2021 Region K Plan as compared to the 2016 Region K Plan. In the 2016 Region K Plan, the total existing water supplies (surface water plus groundwater) are 998,867 ac-ft/yr in 2020 and 991,929 ac-ft/yr in 2070. In the 2021 Region K Plan, the total existing water supplies are 1,042,067 ac-ft/yr in 2020 and 1,048,075 ac-ft/yr in 2070.

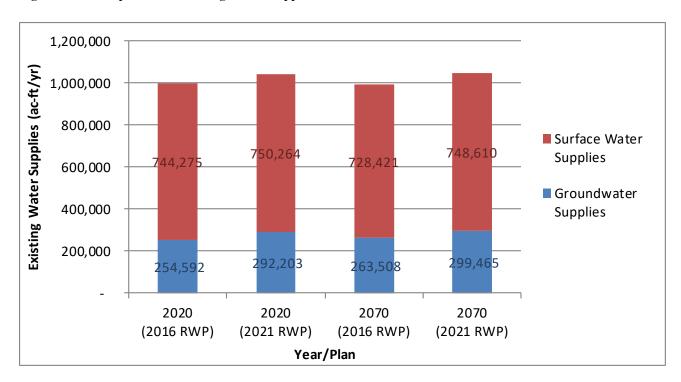


Figure 11.2: Comparison of Existing Water Supplies for 2020 and 2070

11.2.5 Water Needs

Water needs in the region are determined by comparing the demand projections to the existing supplies. The 2070 water needs for Region K have decreased by approximately 192,000 ac-ft/yr in the 2021 Region K Plan, as compared to the 2016 Region K Plan. This decrease in needs is due to a combination of decreased total demands and increased total existing supplies (source availability) for Region K, as described in Sections 11.2.2 and 11.2.4 above. *Table 11.5* shows a comparison of the 2070 needs by county for the 2016 Region K Plan and the 2021 Region K Plan. The needs have decreased due in part to reductions in water demands for Irrigation, Manufacturing, and Steam-Electric demands in certain counties.

Total (Region K)

2070 Water Needs 2070 Water Needs Comparison from 2021 RWP (Positive = Increased Need) County from 2016 RWP (ac-ft/vr) (ac-ft/yr) (ac-ft/yr) 47,187 37,368 -9,819 Bastrop 82 Blanco 230 -148 9,033 10,457 Burnet -1.424 38,205 37,433 -772 Colorado 8,750 5,246 Fayette -3,504 848 0 Gillespie -848 23,294 18,990 Hays -4,304 629 642 Llano 13 164,999 110,277 Matagorda -54,722 583 1,756 Mills 1,173 152 0 San Saba -152 134,438 43,787 Travis -86,851 82,532 53,386 Wharton -29,146 0 785 785 Williamson

Table 11.5: Comparison of Water Needs by County for 2070

512,304

The 2070 firm water needs for Major Water providers (LCRA and Austin) in the region have changed between the 2016 Region K Plan and the 2021 Region K Plan, as shown in *Table 11.6* below. The decrease in needs for LCRA was related to a reduced sedimentation impact in the firm yield of the Highland Lakes and to the construction of the Arbuckle Reservoir. The decrease in needs for Austin was related in part to a decrease in demands, particularly a decrease in reported manufacturing demands. For the 2021 Plan, the West Travis County Public Utility Agency is also a Major Water Provider, but was not included in that category last cycle, so no comparison has been included.

320,685

-189,719

Table 11.6: Comparison of 2070 Firm Water Surplus/Needs by Major Water Provider

Major Water Provider	2070 Firm Water Surplus/Need from 2016 RWP (ac-ft/yr)	2070 Firm Water Surplus/Need from 2021 RWP (ac-ft/yr)
LCRA	(8,163)	8,127
Austin	(87,441)	(11,658)

11.2.6 Recommended Water Management Strategies

As strategies have been implemented or determined infeasible since the previous planning cycle, the water management strategies identified in the 2021 Region K Plan have key differences from the identified water management strategies in the 2016 Region K Plan. The next two sections identify only the differences between the two plans.

There are several recommended water management strategies that were included in the 2016 Region K Plan but are no longer recommended in the 2021 Region K Plan. Those strategies include the following:

- Lake Long Enhanced Storage (removed from Plan)
- LCRA Lane City Reservoir (implemented strategy; moved to existing supply see *Chapter 3*)
- LCRA Groundwater Supply for FPP (on-site and off-site) (considered in 2021 Plan)
- Expand Local Use of Groundwater Supplies Hickory Aquifer (removed from Plan)
- Expand Local Use of Groundwater Supplies Marble Falls Aquifer (removed from Plan)
- Development of New Groundwater Supplies Carrizo-Wilcox Aquifer (removed from Plan)

There are many recommended water management strategies in the 2021 Region K Plan that are new and were not included as Recommended in the 2016 Region K Plan. They include the following:

- Import Return Flows from Williamson County (Alternative in 2016 Plan)
- Baylor Creek Reservoir (Alternative in 2016 Plan)
- LCRA Aquifer Storage and Recovery in Carrizo-Wilcox (Alternative in 2016 Plan)
- LCRA Enhanced Recharge (Alternative in 2016 Plan)
- Austin (COA) Brackish Groundwater Desalination (Alternative in 2016 Plan)
- Austin Onsite and Community-Scale Rainwater and Stormwater Harvesting (expansion of strategy in 2016 Plan)
- Austin Blackwater and Greywater Reuse (expansion of strategies from 2016 Plan)
- Austin Off-Channel Reservoir and Evaporation Suppression (modification and expansion of strategy in 2016 Plan)
- Direct Potable Reuse (Alternative in 2016 Plan Buda; Recommended in 2021 Plan for multiple WUGs)
- Water Supply Infrastructure Expansion
- Expand Local Use of Groundwater Supplies Yegua-Jackson Aquifer
- Development of New Groundwater Supplies Ellenburger-San Saba Aquifer
- Development of New Groundwater Supplies Marble Falls Aquifer
- Development of New Groundwater Supplies Sparta Aquifer
- Development of New Groundwater Supplies Yegua-Jackson Aquifer
- Wharton Water Supply Strategy
- Irrigation Conservation Drip Irrigation
- Irrigation Conservation Real-Time Use Metering and Monitoring

11.2.7 Alternative Water Management Strategies

There are several alternative water management strategies that were included in the 2016 Region K Plan but are no longer included as alternative strategies in the 2021 Region K Plan. Those strategies include the following:

- Groundwater Importation Carrizo-Wilcox Aquifer to LCRA System (considered in 2021 Plan)
- Import Return Flows from Williamson County (moved to Recommended in 2021 Plan)
- Baylor Creek Reservoir (moved to Recommended in 2021 Plan)
- LCRA Aquifer Storage and Recovery in Carrizo-Wilcox (moved to Recommended in 2021 Plan)
- LCRA Enhanced Recharge (moved to Recommended in 2021 Plan)
- Austin (COA) Brackish Groundwater Desalination (moved to Recommended in 2021 Plan)
- COA Reclaimed Water Bank Infiltration to Colorado Alluvium (removed from consideration)
- HCPUA Pipeline (alternative version removed; Recommended version kept renamed ARWA Pipeline)
- Direct Potable Reuse (moved to Recommended in 2021 Plan)

There are also a couple of alternative water management strategies in the 2021 Region K Plan that are new and were not in the 2016 Region K Plan. They include the following:

- Expand Use of Carrizo-Wilcox Aquifer (Bastrop County)
- LCRA Expand Use of Groundwater in Bastrop County

11.2.6 Recommended Water Management Strategy Projects

As strategies have been implemented or determined infeasible since the previous planning cycle, the associated water management strategy projects identified in the 2021 Region K Plan have key differences from the identified water management strategy projects in the 2016 Region K Plan. The next two sections identify only the differences between the two plans.

There are several recommended water management strategy projects that were included in the 2016 Region K Plan but are no longer recommended in the 2021 Region K Plan. Strategies that were removed from the Plan or considered but not recommended have no associated projects in the 2021 Plan. Those strategies include the following:

- Lake Long Enhanced Storage (removed from Plan)
- LCRA Lane City Reservoir (removed from Plan)
- LCRA Groundwater Supply for FPP (on-site and off-site) (considered in 2021 Plan)
- Expand Local Use of Groundwater Supplies Hickory Aquifer (removed from Plan)
- Expand Local Use of Groundwater Supplies Marble Falls Aquifer (removed from Plan)

• Development of New Groundwater Supplies – Carrizo-Wilcox Aquifer (removed from Plan)

There are many recommended water management strategies and associated projects in the 2021 Region K Plan that are new and were not included as Recommended in the 2016 Region K Plan. They include the following:

- Import Return Flows from Williamson County (Alternative in 2016 Plan)
- Baylor Creek Reservoir (Alternative in 2016 Plan)
- LCRA Aquifer Storage and Recovery in Carrizo-Wilcox (Alternative in 2016 Plan)
- LCRA Enhanced Recharge (Alternative in 2016 Plan)
- Austin (COA) Brackish Groundwater Desalination (Alternative in 2016 Plan)
- Austin Onsite and Community-Scale Rainwater and Stormwater Harvesting (expansion of strategy in 2016 Plan)
- Austin Blackwater and Greywater Reuse (expansion of strategies from 2016 Plan)
- Austin Off-Channel Reservoir and Evaporation Suppression (modification and expansion of strategy in 2016 Plan)
- Direct Potable Reuse (Alternative in 2016 Plan Buda; Recommended in 2021 Plan for multiple WUGs)
- Water Supply Infrastructure Expansion
- Expand Local Use of Groundwater Supplies Yegua-Jackson Aquifer
- Development of New Groundwater Supplies Ellenburger-San Saba Aquifer
- Development of New Groundwater Supplies Marble Falls Aquifer
- Development of New Groundwater Supplies Sparta Aquifer
- Development of New Groundwater Supplies Yegua-Jackson Aquifer
- Irrigation Conservation Drip Irrigation
- Irrigation Conservation Real-Time Use Metering and Monitoring
- Rainwater Harvesting

There are a number of strategies recommended in the 2016 Region K Plan, also recommended in the 2021 Region K Plan, that include new projects in this 2021 planning cycle for multiple WUGs. This may be due to new WUG boundaries/designations or increased WUG interest. New projects are included for the following strategies:

- Municipal Conservation
- Direct Reuse
- Direct Potable Reuse

- BS/EACD Edwards / Middle Trinity ASR
- New Surface Water Infrastructure
- Expansion of Gulf Coast Aquifer Supplies
- Expansion of Sparta Aquifer Supplies
- Expansion of Trinity Aquifer Supplies
- Development of New Gulf Coast Aquifer Supplies
- Development of New Hickory Aquifer Supplies
- Development of New Trinity Aquifer Supplies

A considered strategy in the 2016 Plan for the Wharton Water Supply was recommended for the 2021 Plan. However, the project associated with this strategy is Expansion of Gulf Coast Aquifer Supplies, which is an existing strategy included in the 2016 Plan.

11.2.7 Alternative Water Management Strategy Projects

There are two alternative water management strategies with associated projects that were included in the 2016 Region K Plan but are no longer included as alternative in the 2021 Region K Plan. Strategies that were removed from consideration or considered but not recommended as an alternative have no associated projects in the 2021 Plan. Those strategies include the following:

- Groundwater Importation Carrizo-Wilcox Aquifer to LCRA System (considered in 2021 Plan)
- COA Reclaimed Water Bank Infiltration to Colorado Alluvium (removed from consideration)

There are several alternative water management strategies that were included in the 2016 Region K Plan that were moved to recommended in the 2021 Region K Plan. All listed recommended strategies have associated projects with capital costs. Those strategies include the following:

- Import Return Flows from Williamson County (moved to Recommended in 2021 Plan)
- Baylor Creek Reservoir (moved to Recommended in 2021 Plan)
- LCRA Aquifer Storage and Recovery in Carrizo-Wilcox (moved to Recommended in 2021 Plan)
- LCRA Enhanced Recharge (moved to Recommended in 2021 Plan)
- Austin (COA) Brackish Groundwater Desalination (moved to Recommended in 2021 Plan)
- Direct Potable Reuse (moved to Recommended in 2021 Plan)

The alternative strategy for the HCPUA Pipeline was removed from the 2021 Plan, but the recommended strategy was kept and renamed under the ARWA Pipeline strategy. The project associated with this strategy is the ARWA/GBRA Project, included in the 2021 South Central Texas Regional Water Plan (Region L).

There are also a couple of alternative water management strategies in the 2021 Region K Plan that are new and were not in the 2016 Region K Plan. These strategies both have associated projects with capital costs. They include the following:

- Expand Use of Carrizo-Wilcox Aquifer (Bastrop County)
- LCRA Expand Use of Groundwater in Bastrop County

11.2.8 Region's Progress Towards "Regionalization"

HB 807 requires that the regional water plan shall "assess the progress of the RWPA in encouraging cooperation between water user groups for the purpose of achieving economies of scale and otherwise incentivizing strategies that benefit the entire region."

The 2021 Region K Water Plan has recommended a number of water management strategies that encourage cooperation between water user groups and have the ability to benefit a large part of the region. In addition, the Lane City off-channel reservoir (now known as the Arbuckle Reservoir) was recommended in the 2016 Region K Water Plan and has since been constructed. This reservoir has the ability to benefit a large portion of the region by capturing additional flood flows that would previously have been lost downstream and allowing release of them when needed, and by reducing the need to release stored water from lakes Buchanan and Travis to meet downstream needs.

Recommended strategies in the 2021 Region K Water Plan that make progress towards "regionalization" include other proposed LCRA off-channel reservoirs, importing return flows from Williamson County, the Burnet County Regional Projects (Buena Vista, East Lake Buchanan, and Marble Falls), the proposed Bastrop Regional Project (future surface water infrastructure for Aqua WSC, Bastrop, and Bastrop County WCID 2), and the Hays County Pipeline project.

APPENDIX 11A

IMPLEMENTATION SURVEY TEMPLATE FOR 2016 REGION K WATER PLAN PROJECTS

- Table 11A.1 Summary of TWDB Template Containing Survey Results of Implementation Status of Water Management Strategies from the 2016 Region K Water Plan
- Table 11A.2 Full TWDB Template Containing Survey Results of Implementation Status of Water Management Strategies from the 2016 Region K Water Plan

											What impediments presented to			
Planning		Database Online			Database	Has Sponsor taken affirmative vote or actions?* (TWC	If yes, in what year	If yes, by what date is the action on schedule for	implementation is the project	If not implemented, why?* (When "If other, please t describe" is selected, please add	implementation?* (When "If other, please describe" is selected, please add the	Current water supply project		V
Region	WMS or WMS Project Name	Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	ID	16.053(h)(10))	did this occur?	implementation?	currently?*	The City is adding additional sources to the	descriptive text to that field)	yield (ac-ft/yr)	Funds expended to date (\$) Project Co.	t (\$) Year the project is online?*
к ви	JENA VISTA REGIONAL PROJECT	2020	PROJECT SPONSOR(S): BERTRAM; BURNET; COUNTY-OTHER (BURNET)	RECOMMENDED WMS PROJECT	2258	No			Not implemented	Water Plan and not using this strategy				
	TY OF AUSTIN - AQUIFER STORAGE AND COVERY	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2135	Yes	2018 - AWFP approved by City Council	Began in 2019	Sponsor has taken officia action to initiate project		TBD		0 \$250,000 \$367 million	
	TY OF AUSTIN - CAPTURE LOCAL INFLOWS TO DY BIRD LAKE	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2148	Yes	2018 - AWFP approved by City Council	2040 - target for completion	Not implemented	Too soon	TBD	(Capital costs in part of the COA Potable Reuse t 0 \$250,000 Lady Bird Lake s	Indirect hrough
K CIT	TY OF AUSTIN - DIRECT REUSE	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2132	Yes	1974	Ongoing	Currently operating		TBD	4,500 AFY	Approx \$119M since 1974 \$422M through	2115
CIT	TY OF AUSTIN - INDIRECT POTABLE REUSE						2018 - AWFP approved by City	2040 - target for						
K THI	ROUGH LADY BIRD LAKE	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2152	Yes	Council	completion	Not implemented	Too soon	TBD	(0 \$750,000 \$91M	
к сіт	TY OF AUSTIN - LAKE AUSTIN OPERATIONS	2020	WMS SUPPLY RECIPIENT: AUSTIN	RECOMMENDED WMS SUPPLY WITHOUT WMS PROJECT	33371	Yes		As necessary to respond to drought	Not implemented	Would be implemented in response to drought	тво	(No capital cost. 0 \$0 costs only	s; O&M
к сіт	TY OF AUSTIN - LAKE LONG ENHANCED STORAGE	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2146	No			Not implemented	Project is no longer being considered as a strategy				
	TY OF AUSTIN - LONGHORN DAM OPERATIONS PROVEMENTS	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2144	Yes	2018	Ongoing	Sponsor has taken officia action to initiate project		TBD	(0 \$0 \$11M	
							2018 - AWFP approved by City						This strategy w into several ind strategies for th planning cycle; being develope	vidual e 2021 costs are d for
K CIT	TY OF AUSTIN - OTHER REUSE	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2147	Yes	Council	Ongoing	Currently operating		TBD	450 AFY	Ongoing these strategies	
							Rainwater harvesting rebates have been in place	Rainwater harvesting rebates are currently in					TBD; generally borne by devel with potential f offsets through	opment or cost
K CIT	ry of Austin - rainwater harvesting	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2145	Yes	since 2009. Ongoing - various actions on multiple	place.	Currently operating		Not applicable	3.55 ac-ft total (2014-201	15 \$723k (Funds expended t incentives	
к СІТ	TY OF AUSTIN CONSERVATION	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2131	Yes	conservation strategies	Ongoing	Currently operating		Not applicable	Varies annually (TBD)	Varies annually (TBD) Varies annually	(TBD)
				RECOMMENDED WMS SUPPLY					Permit application					
DE	TY OF AUSTIN RETURN FLOWS VELOPMENT OF NEW HICKORY AQUIFER IPPLIES - LLANO		WMS SUPPLY RECIPIENT: AUSTIN PROJECT SPONSOR(S): LLANO	WITHOUT WMS PROJECT RECOMMENDED WMS PROJECT	32320 1766	Yes	Ongoing	Ongoing	submitted/pending	In process	TBD	(0 n/a TBD	
K DIF	RECT REUSE - BUDA	2020	PROJECT SPONSOR(S): BUDA	RECOMMENDED WMS PROJECT RECOMMENDED WMS SUPPLY	2321	Yes			Currently operating			18 AFY		201
	RECT REUSE - HORSESHOE BAY RECT REUSE - LLANO	2020 2020	WMS SUPPLY RECIPIENT: HORSESHOE BAY PROJECT SPONSOR(S): LLANO	WITHOUT WMS PROJECT RECOMMENDED WMS PROJECT	33297 2322	Yes No	2017		Currently operating Not implemented	Two phase project Financing	n/a Funding	583 AFY	\$70,000 \$	1,070,000 201

											What impediments presented to				
Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	as Sponsor taken affirmative vote or actions?* (TWC 16.053(h)(10))		f yes, by what date is the action on schedule for implementation?		If not implemented, why?* (When "If other, please ect describe" is selected, please add the descriptive text to that field	implementation?* (When "If other, please describe" is selected, please add the	Current water supply project yield (ac-ft/yr)	Funds expended to date (\$)	Project Cost (\$)	Year the project is online?*
К	DIRECT REUSE - PFLUGERVILLE	2020	PROJECT SPONSOR(S): PFLUGERVILLE	RECOMMENDED WMS PROJECT RECOMMENDED DEMAND	2323	Yes	2008	200	9 Currently operating	n/a	n/a	n/a	n/a	n/a	2014
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: AQUA WSC	REDUCTION STRATEGY WITHOUT WMS PROJECT RECOMMENDED DEMAND	10389	No			Not implemented	Too soon	Trigger mechanism not met				
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: AUSTIN	REDUCTION STRATEGY WITHOUT WMS PROJECT	10645	Yes	2016 (most recent DCP) On	going	Currently operating		TBD	Variable depending on drought restriction stage	Funding for outreach and enforcement as needed		
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT					All phases fully						
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BAY CITY	WMS PROJECT RECOMMENDED DEMAND	10987	Yes	2019	5-Nov-1	All phases fully 9 implemented		n/a		\$0	\$	2019
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BERTRAM	REDUCTION STRATEGY WITHOUT WMS PROJECT RECOMMENDED DEMAND	10494	Yes	2019	15-Oct-1	9 Currently operating		n/a	n/a	\$3,500	\$3,50	2019
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BUDA	REDUCTION STRATEGY WITHOUT WMS PROJECT	10653	Yes	2012; 2019		All phases fully implemented						2017
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: CREEDMOOR-MAHA WSC	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT WMS PROJECT	10437	Yes	2018	201	9 Currently operating			Plan is in place. Will be implemented during drought.			2019
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: DRIPPING SPRINGS WSC	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT WMS PROJECT	10670										
	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: FAYETTE WSC	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT WMS PROJECT	10593	Yes	2017	202	3 Feasibility study ongoing	2	Access to funding		\$8,000	\$2,100,00	00 2023
	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: HORSESHOE BAY	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT WMS PROJECT	10525	Yes	2015		Sponsor has taken officia	Limit Customer landscape al irrigation to twice weekly only with limited hours.	n/a	300 AFY	\$0	Ş	
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LLANO	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT WMS PROJECT	10715	Yes	2019	May-1	9 Currently operating						2020
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: MANVILLE WSC	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT WMS PROJECT	10846	Yes	2016	·							
	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: PFLUGERVILLE	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT WMS PROJECT RECOMMENDED DEMAND	10862	Yes	2006		All phases fully implemented	n/a	n/a	n/a	n/a	n/a	2014
К	DROUGHT MANAGEMENT EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES	2020	WUG REDUCING DEMAND: SMITHVILLE	REDUCTION STRATEGY WITHOUT WMS PROJECT	10460	Yes	2000 lmr	mediate	All phases fully implemented		Not applicable	4000 AFY	\$500,000	\$44,74	15
К	- AQUA WSC	2020	PROJECT SPONSOR(S): AQUA WSC	RECOMMENDED WMS PROJECT	1668	Yes	2018		9 Currently operating						
K	EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES - LCRA	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	RECOMMENDED WMS PROJECT	1673	Yes		rmit apps were bmitted Feb 2018	Permit application submitted/pending		Permitting process Permitting process;	0 AFY	excess of \$3M		2023
К	EXPANSION OF ELLENBURGER-SAN SABA AQUIFER SUPPLIES - BERTRAM	2020	PROJECT SPONSOR(S): BERTRAM	RECOMMENDED WMS PROJECT	1705	Yes	2019	202	1 Feasibility study ongoing	Evaluating costs and options	Groundwater rights; financing	366.5 AFY	\$63,000	\$16,345,00	00 2022
K	LCRA - ACQUIRE ADDITIONAL WATER RIGHTS	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	RECOMMENDED WMS PROJECT	2129	No			Feasibility study ongoing	No suitable water rights opportunities have arisen No customers listed in the 2016 RWP have yet		0 AFY	\$0	\$145/AF	
К	LCRA - CONTRACT AMENDMENTS	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	RECOMMENDED WMS PROJECT	2438	No			Feasibility study ongoing	requested contract amendments		0 AFY	\$0	\$151/AF	
К	LCRA - ENHANCED MUNICIPAL AND INDUSTRIAL CONSERVATION	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	RECOMMENDED WMS PROJECT	2018	Yes	2019	5/22/201	Sponsor has taken official action to initiate project			4,500	\$200,000 for incentives, no internal labor costs		2019
K	LCRA - EXCESS FLOWS PERMIT OFF-CHANNEL RESERVOIR	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	RECOMMENDED WMS PROJECT	2128	No			Feasibility study ongoing	LCRA is in the process of obtaining permit	Permitting process	0 AFY	\$0	\$1,446/AF	2021
	LCRA - GROUNDWATER SUPPLY FOR FPP (OFF-SITE)	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY PROJECT SPONSOR(S): LOWER COLORADO RIVER	RECOMMENDED WMS PROJECT	2233	No									
	LCRA - GROUNDWATER SUPPLY FOR FPP (ON-SITE) LCRA - LANE CITY OFF-CHANNEL RESERVOIR	2020	AUTHORITY PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	2019	No Yes		201	All phases fully 9 implemented						
	LCRA - MID-BASIN OFF-CHANNEL RESERVOIR	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY		2127	No		-	Feasibility study ongoing	g Too soon	Lack of need	0 AFY	in excess of \$500,000	\$512,792,00	00
	LCRA - NEW LCRA CONTRACTS	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY		2439	No			Acquisition and design phase	Too soon	Not applicable	0 AFY		\$151/AF	

	Database				Has Sponsor taken affirmative		If yes, by what date is the	At what level of	If not implemented, why?* (When "If other, please	What impediments presented to implementation?* (When "If other, please describe"				
Planning Region WMS or WMS Project Name	Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	vote or actions?* (TWC 16.053(h)(10))	If yes, in what year did this occur?	action on schedule for implementation?	implementation is the proje currently?*	describe" is selected, please add the descriptive text to that field		Current water supply project yield (ac-ft/yr)	Funds expended to date (\$)	Project Cost (\$)	Year the project is online?*
K MUNICIPAL CONSERVATION - AQUA WSC	2020	PROJECT SPONSOR(S): AQUA WSC	RECOMMENDED WMS PROJECT	1808	Yes	2006	AMR completed 2012	Currently operating	are descriptive text to that here	descriptive text to that held	yield (de ry yr)	Tunus expended to date (9)	Troject cost (4)	rear the project is omine.
K MUNICIPAL CONSERVATION - BAY CITY	2020	PROJECT SPONSOR(S): BAY CITY	RECOMMENDED WMS PROJECT	1919	Yes	2019	5-Nov-19	All phases fully		n/a		\$300/yr	\$0	2019
K MUNICIPAL CONSERVATION - BERTRAM	2020	PROJECT SPONSOR(S): BERTRAM	RECOMMENDED WMS PROJECT	1872	Yes	2019	2020	Currently operating		n/a	12 AFY	\$12,300	\$12,300	2020
K MUNICIPAL CONSERVATION - BUDA	2020	PROJECT SPONSOR(S): BUDA	RECOMMENDED WMS PROJECT	1908	Yes	2015		Currently operating				\$2,622,393		2017
K MUNICIPAL CONSERVATION - CEDAR PARK	2020	PROJECT SPONSOR(S): CEDAR PARK	RECOMMENDED WMS PROJECT	1948	Yes		9/12/16 - full AMI implementation project	All phases fully implemented				\$5,257,758	\$5,257,758	2017
MUNICIPAL CONSERVATION - DRIPPING SPRINGS K WSC	2020	PROJECT SPONSOR(S): DRIPPING SPRINGS WSC	RECOMMENDED WMS PROJECT	1912									Ongoing Leak detection	
								All phases fully					surveys - \$20-\$30	1
K MUNICIPAL CONSERVATION - HORSESHOE BAY	2020	PROJECT SPONSOR(S): HORSESHOE BAY	RECOMMENDED WMS PROJECT	1886	Yes	2015		implemented		n/a	9.97 AFY	\$80	annually	2017
K MUNICIPAL CONSERVATION - LLANO	2020	PROJECT SPONSOR(S): LLANO	RECOMMENDED WMS PROJECT	1917	Yes	2019	May-19	All phases fully implemented						ı
K MUNICIPAL CONSERVATION - PFLUGERVILLE	2020	PROJECT SPONSOR(S): PFLUGERVILLE	RECOMMENDED WMS PROJECT	1959	Yes		2021	լ Feasibility study ongoinք	Awaiting approval in future budget proposal.	Access to funding	n/a	n/a	n/a	2022
K MUNICIPAL CONSERVATION - SAN SABA	2020	PROJECT SPONSOR(S): SAN SABA	RECOMMENDED WMS PROJECT	1922	Yes	2013		Not implemented	currently not required	Not applicable				2016
K MUNICIPAL CONSERVATION - SMITHVILLE URGENT WATER LOSS REDUCTION PROJECT -	2020	PROJECT SPONSOR(S): SMITHVILLE	RECOMMENDED WMS PROJECT	1865	Yes	2015	2016	All phases fully 5 implemented		Not applicable	n/a		\$2.3M AMI upgrade	2017
K CMWSC	2020	PROJECT SPONSOR(S): CREEDMOOR-MAHA WSC	RECOMMENDED WMS PROJECT	2869	Yes	2018	2020-2021	Feasibility study ongoing	3	n/a	1,130 AFY		\$9,335,000	
K BS/EACD EDWARDS / MIDDLE TRINITY ASR	2030	PROJECT SPONSOR(S): BUDA; COUNTY-OTHER (HAYS); MINING (HAYS); MOUNTAIN CITY; SUNSET VALLEY	RECOMMENDED WMS PROJECT	2238			In progress, complete in 2020	Under construction		Project viability, cost. This	2020 - 150 AFY; 2021 - 300 AFY	\$1,896,000	\$2,500,000	2020
K BS/EACD SALINE EDWARDS ASR	2030	PROJECT SPONSOR(S): BUDA; COUNTY-OTHER (HAYS); CREEDMOOR-MAHA WSC	RECOMMENDED WMS PROJECT	2241	No			Not implemented	Too soon; financing; permitting; environmental	project might be viable by Desalinating Saline Edwards and having an ASR				
K WATER PURCHASE EXPANSION OF EDWARDS (BFZ) AQUIFER SUPPLIES -	2030	WMS SELLER: DRIPPING SPRINGS WSC; WMS SUPPLY RECIPIENT: DRIPPING SPRINGS	RECOMMENDED WMS SUPPLY WITHOUT WMS PROJECT	32528										
K PFLUGERVILLE	2040	PROJECT SPONSOR(S): PFLUGERVILLE	RECOMMENDED WMS PROJECT	1708	No				n/a	n/a	n/a	n/a	n/a	1
NEW SURFACE WATER INFRASTRUCTURE - AQUA K WSC	2040	PROJECT SPONSOR(S): AQUA WSC	RECOMMENDED WMS PROJECT	2317				Not implemented	Too soon					
EXPANSION OF TRINITY AQUIFER SUPPLIES - K MANVILLE WSC	2050	PROJECT SPONSOR(S): MANVILLE WSC	RECOMMENDED WMS PROJECT	1736	No			Not implemented	Too soon					
DEVELOPMENT OF NEW QUEEN CITY AQUIFER K SUPPLIES - SMITHVILLE	2070	PROJECT SPONSOR(S): SMITHVILLE	RECOMMENDED WMS PROJECT	2214				Not implemented	No need. We are permitted for 4000 acre-ft and only use 850 acre-ft / year	Not applicable				

		Database										
anning egion	WMS or WMS Project Name	Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Is this a phased project?*	(Phased) Ultimate volume (ac ft/yr)	- (Phased) Ultimate project cost (\$)	Year project reaches maximum capacity?* What is the project fu source(s)?*	nding Funding Mechanism i Other?	f Included in 2021 plan?*	Does the project or WMS involve reallocation of flood control?*	Does the project or WMS provide any measurable flood risk reduction?*	Optional Comments
K	BUENA VICTA DECIONAL DROJECT	2020	PROJECT SPONSOR(S): BERTRAM; BURNET;						No			
K	BUENA VISTA REGIONAL PROJECT	2020	COUNTY-OTHER (BURNET)						No			
K	CITY OF AUSTIN - AQUIFER STORAGE AND RECOVERY	2020	PROJECT SPONSOR(S): AUSTIN	Yes	90,000 AFY	TBD	Other	TWDB - SWIFT; TWDB - SRF; Cash; Bonds; etc.	Yes	No		Notes: (1) Sponsor is in consultant procurement process (2) Project is anticipate to be online by 2040, with further expansion planned in the future; (2) project is anticipate to continue expanding up to 2115 as needed
K	CITY OF AUSTIN - CAPTURE LOCAL INFLOWS TO LADY BIRD LAKE	2020	PROJECT SPONSOR(S): AUSTIN	No	3,000 AFY		2040 Other	TWDB - SWIFT; TWDB - SRF; Cash; Bonds; etc.	Yes	No	No	Notes: (1) Per Austin's Water Forward Plan, this strategy is targeted to be online by 2040
												Notes: (1) Direct Reuse refers to centralized direct non-potable reuse, or purple pipe
К	CITY OF AUSTIN - DIRECT REUSE	2020	PROJECT SPONSOR(S): AUSTIN	Yes	54,600 AFY	\$422M through 2115	Other	TWDB - SWIFT; TWDB - SRF; Cash; Bonds; etc.	Yes	No	No	systems; (2) this strategy is currently operating, but will continue to expand; (3) the planned maximum capacity is through the year 2115; future plans will continue to update planning horizon.
	CITY OF AUSTIN - INDIRECT POTABLE REUSE							TWDB - SWIFT; TWDB - SRF; Cash;				Note: (1) Project is planned to be online by 2040; (2) project would only be used in drought conditions when combined storage in
K	THROUGH LADY BIRD LAKE	2020	PROJECT SPONSOR(S): AUSTIN	No	20,000 AFY	\$91M	2040 Other	Bonds; etc.	Yes	No	No	the Highland Lakes falls below 400,000 AF.
K	CITY OF AUSTIN - LAKE AUSTIN OPERATIONS	2020	WMS SUPPLY RECIPIENT: AUSTIN	No	2,500 AFY	No capital costs; O&M costs only	Other	Cash - revenues	Yes	No	No	Note: (1) Project would come online as necessary to respond to drought conditions; (2) project would be used during non-peak months (OctMay) and after combined storal in the Highland Lakes is below 600,000 AF.
K	CITY OF AUSTIN - LAKE LONG ENHANCED STORAGE	2020	PROJECT SPONSOR(S): AUSTIN						No			
K	CITY OF AUSTIN - LONGHORN DAM OPERATIONS IMPROVEMENTS	2020	PROJECT SPONSOR(S): AUSTIN	Yes	3,000 AFY	Pending earlier phases	Other	Bonds	Yes	No	No	
	CITY OF AUSTIN - OTHER REUSE	2020	PROJECT SPONSOR(S): AUSTIN	Yes	64,350 AFY in 2115	This strategy was broken into several individual strategies for the 2021 planning cycle; costs are being developed for these strategies	Other	Developers/Progra m Participants; TWDB - SWIFT; TWDB - SRF; Cash; Bonds; etc.		No	No	Note: (1) Project implementation is ongoing; (2) Water Forward plans for implementation continue through 2115, with corresponding capacity increases.
								TBD; generally funded by development with potential for cost offsets through				Notes: (1) This strategy has been re-evaluated as part of the 2018 Water Forward Plan; (2) this strategy is currently operating, but will continue to expand; (3) the planned maximur capacity is through the year 2115; future plan
K	CITY OF AUSTIN - RAINWATER HARVESTING	2020	PROJECT SPONSOR(S): AUSTIN	Yes	9,250 ac-ft/yr	TBD; generally to be borne b	y development with pot Other	utility incentives Combination of	Yes	No	No	will continue to update planning horizon. conservation program since the 1980s and
К	CITY OF AUSTIN CONSERVATION	2020	PROJECT SPONSOR(S): AUSTIN	Yes	37,000 AFY	\$41M	Other	funding including TWDB SWIFT and Utility O&M and CIP	Yes	No	No	continues to advance the program, (2) Austin Water Forward Plan includes implementation of conservation strategies through the full planning horizon to 2115
												Notes: Austin and LCRA have a pending joint water right permit application at TCEQ for be and banks reuse of Austin's return flows. As part of the regional planning process, prior to the issuance of the permit and development a project, Austin's projected return flows are water management tratem for downstream.
K	CITY OF AUSTIN RETURN FLOWS DEVELOPMENT OF NEW HICKORY AQUIFER	2020	WMS SUPPLY RECIPIENT: AUSTIN					n/a	Yes	No	No	water management strategy for downstream uses.
K	SUPPLIES - LLANO	2020	PROJECT SPONSOR(S): LLANO									
K	DIRECT REUSE - BUDA	2020	PROJECT SPONSOR(S): BUDA	Yes	1680 AFY		2050		Vac	No		Effluent forcemain to Sunfield MUD, complet by 2022. Sunfield can take up to 1120ac-ft/yr for use in the MUD. Feasibility study underwato maximize current system use and potentia add additional storage capacity.
	DIRECT REUSE - HORSESHOE BAY	2020	WMS SUPPLY RECIPIENT: HORSESHOE BAY	Yes	1,344	\$1,070,000	2050 Market	Private funds from golf course	Yes	No	No	add additional storage capacity.
	DIRECT REUSE - HORSESHOE BAY	2020	PROJECT SPONSOR(S): LLANO	No	1,344	. 91,070,000	2030 Ividi Ret	Bon course	Yes			

		Database											
Planning Region	WMS or WMS Project Name	Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Is this a phased project?*	ft/yr)	- (Phased) Ultimate project cost (\$)	Year project reaches maximum capacity?*	What is the project funding source(s)?*	Other?		Does the project or WMS involve reallocation of flood control?*	Does the project or WMS provide any measurable flood risk reduction?*	Optional Comments Water reuse for irrigation already in effect for a nearby county park, with a tentative plan to distribute reused water to all city parks within the next 10 years. Any project costs or funds expended to date are currently not available
K	DIRECT REUSE - PFLUGERVILLE	2020	PROJECT SPONSOR(S): PFLUGERVILLE	Yes	n/a	n/a	203	0	n/a	No	No	No	for input.
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: AQUA WSC						Payanuas fram		No	No	Draiget is currently online and anticipated to
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: AUSTIN	No				Other	Revenues from customers		No	No	Project is currently online and anticipated to remain online throught the planning horizon.
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BAY CITY	No				Other	Bay City - Utility Enterprise Fund	Yes	No	No	DCP was reviewed/updated & adopted by City Council on 11/5/2019. Since plan inception in 1999 the City of Bay City has not faced drought conditions or a water demand that require implementation of drought trigger responses.
V	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BERTRAM	No			204	0 TWDB - Other	DWSRF	Voc	No	No	
			WOO REDUCING DEMAND. BENTANN	INO			204	o i wbb - otilei	DWSKF	Yes	NO	NO .	
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BUDA							Yes	No		Drought contingency plan has been adopted by the WSC; steps will be implemented once
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: CREEDMOOR-MAHA WSC	No			202	5 TWDB - Other		Yes	No	No	triggers are reached. While plan will not create new water, it will postpone need to find new sources/supply. The DSWSC Drought Contingency Plan is currently being revised with help from the
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: DRIPPING SPRINGS WSC										LCRA. DSWSC staff will be presenting a draft copy to the Board of Directors for their review and approval.
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: FAYETTE WSC	No			202	5 Commercial/Bank loan		Yes	No	No	
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: HORSESHOE BAY					Other		Yes	No	No	
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LLANO	No						Yes			During the most recent drought of record in
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: MANVILLE WSC										2011, Manville implemented stage II, twice a week outside watering water restrictions on July 1, 2011. "Year Project is online" is actually 2006 but year not available in drop-down option, used earliest provided. Any project costs or funds
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: PFLUGERVILLE	Yes	n/a	n/a	207	0	n/a	Yes	No	No	expended to date are currently not available for input.
K K	DROUGHT MANAGEMENT EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES - AQUA WSC	2020	WUG REDUCING DEMAND: SMITHVILLE PROJECT SPONSOR(S): AQUA WSC	No			207	0 Other	Utility Fund	Yes Yes	No	Potentially, but no technical flood analysis performed	Added 1200 gpm Behrend Well to McDade Well Field
К	EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES - LCRA	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	Yes	25,000 AFY	\$46,629,000		Other	Any combination of funding sources listed.	Yes	No	No	Year project reaches maximum capacity will depend on demand
К	EXPANSION OF ELLENBURGER-SAN SABA AQUIFER SUPPLIES - BERTRAM	2020	PROJECT SPONSOR(S): BERTRAM	Yes	2,000 AFY	\$16,345,000		TWDB - Other	DWSRF	Yes	No	No	
	LCRA - ACQUIRE ADDITIONAL WATER RIGHTS	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	Yes	25,000				Any combination of funding sources listed.	Yes	No	No	Water rights will be acquired as they become available at a suitable cost.
К	LCRA - CONTRACT AMENDMENTS	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	Yes	39,466	\$ \$151/AF		Other	Customer project revenue	Yes	No	No	Project will come online as needed by customers
K	LCRA - ENHANCED MUNICIPAL AND INDUSTRIAL CONSERVATION	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY		20,000		205	0 Other	General revenue from water rates	Yes	No	No	This references the 2019 LCRA WCP, which is updated every five years.
	LCRA - EXCESS FLOWS PERMIT OFF-CHANNEL RESERVOIR LCRA - GROUNDWATER SUPPLY FOR FPP (OFF-SITE)	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	No				Other	Any combination of funding sources listed.	Yes	No	Potentially, but no technical flood analysis performed	If an existing OCR site is chosen, and permitting is successful, then project could be online before 2030. LCRA is no longer recommending this alternative
	LCRA - GROUNDWATER SUPPLY FOR FPP (OFF-SITE)	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY PROJECT SPONSOR(S): LOWER COLORADO RIVER							No			LCRA is no longer recommending this alternative
К	LCRA - LANE CITY OFF-CHANNEL RESERVOIR	2020	AUTHORITY PROJECT SPONSOR(S): LOWER COLORADO RIVER						Any combination of funding sources				
	LCRA - MID-BASIN OFF-CHANNEL RESERVOIR	2020	AUTHORITY PROJECT SPONSOR(S): LOWER COLORADO RIVER	No			203	0 Other	listed.	Yes			
K	LCRA - NEW LCRA CONTRACTS	2020	AUTHORITY	No						Yes	No	No	New contracts will be entered as needed.

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Is this a phased project?*	(Phased) Ultimate volume (a ft/yr)	c- (Phased) Ultimate project cost	Year project reaches maximum capacity?*	What is the project funding source(s)?*	Funding Mechanism if Other?	Included in 2021 plan?*	Does the project or WMS involve reallocation of flood control?*	Does the project or WMS provide any measurable flood risk reduction?*	Optional Comments
К	MUNICIPAL CONSERVATION - AQUA WSC	2020	PROJECT SPONSOR(S): AQUA WSC									No	Council on 11/5/2019 Water saving target
									Bay City - Utility				Council on 11/5/2019. Water saving target achieved in 2019 for the residential class via capital measures (replace aging waterlines & install AMI) & outreach/education. Future efforts will target commercial & institutional
K	MUNICIPAL CONSERVATION - BAY CITY	2020	PROJECT SPONSOR(S): BAY CITY	No				Other	Enterprise Fund	No	No	No	classes.
K	MUNICIPAL CONSERVATION - BERTRAM	2020	PROJECT SPONSOR(S): BERTRAM	Yes	80 AFY	\$130,000	2060	Other	Rates and Fees	Yes	No	No	Titti trate: savings som being traenear the ett)
													also had a leak detection survey performed on part of the system, and will continue with more sections in the future along with other programs outlined in the WCP updated in
K	MUNICIPAL CONSERVATION - BUDA	2020	PROJECT SPONSOR(S): BUDA				2020	Commercial/Bank loan		Yes	No		2019.
К	MUNICIPAL CONSERVATION - CEDAR PARK	2020	PROJECT SPONSOR(S): CEDAR PARK	No			2040	Other	Self pay and Bonds	Yes	No	No	
К	MUNICIPAL CONSERVATION - DRIPPING SPRINGS WSC	2020	PROJECT SPONSOR(S): DRIPPING SPRINGS WSC										DSWSC staff is currently revising and updating the WCP with help from the LCRA. A draft copy is planned to be reviewed and approved by the DSWSC Board of Directors.
									Utility rates of				
K	MUNICIPAL CONSERVATION - HORSESHOE BAY	2020	PROJECT SPONSOR(S): HORSESHOE BAY	No			2040	Other	customers	Yes	No	No	
K	MUNICIPAL CONSERVATION - LLANO MUNICIPAL CONSERVATION - PFLUGERVILLE	2020	PROJECT SPONSOR(S): LLANO PROJECT SPONSOR(S): PFLUGERVILLE		n/a	n/a	2025		n/a	Yes	No	No	Advanced Metering Infrastructure - not yet implemented. Any project costs or funds expended to date are currently not available for input.
, ,	IMONICIPAL CONSERVATION - PPLOGENVILLE	2020	PROJECT SPONSON(S). PPLOGENVILLE		II/a	II/a	2025		II/a	res	NO	IVO	ioi input.
K	MUNICIPAL CONSERVATION - SAN SABA	2020	PROJECT SPONSOR(S): SAN SABA						0 15 15				
									Qualified Energy Conservation			Yes, flood risk study confirmed	
К	MUNICIPAL CONSERVATION - SMITHVILLE URGENT WATER LOSS REDUCTION PROJECT -	2020	PROJECT SPONSOR(S): SMITHVILLE	No			2070	Other	Bonds	Yes	No	benefits	
K	CMWSC	2020	PROJECT SPONSOR(S): CREEDMOOR-MAHA WSC	No			2025	TWDB - Other			No	No	
			PROJECT SPONSOR(S): BUDA; COUNTY-OTHER						Current project is funded from Certificate of Obligation Utility Bond, options				
К	BS/EACD EDWARDS / MIDDLE TRINITY ASR	2030	(HAYS); MINING (HAYS); MOUNTAIN CITY; SUNSET VALLEY	Yes	~600 AFY	\$7,750,000	2030	Other	being explored for future phases	Yes	No	No	
К	BS/EACD SALINE EDWARDS ASR	2030	PROJECT SPONSOR(S): BUDA; COUNTY-OTHER (HAYS); CREEDMOOR-MAHA WSC							Yes	No	No	not an option Buda will pursue since we can store in the Trinity Aquifer. A feasibility study desalinating Saline Edwards and having an ASR component to keep plant size efficient is a possible option for Buda, and I think the original intent of this WMS.
K	SOJ EL 100 O LEITE ED TANDO POR	2030											
К	WATER PURCHASE	2030	WMS SELLER: DRIPPING SPRINGS WSC; WMS SUPPLY RECIPIENT: DRIPPING SPRINGS										Currently there is no purchase contract with the City of Dripping Springs and DSWSC.
K	EXPANSION OF EDWARDS (BFZ) AQUIFER SUPPLIES - PFLUGERVILLE	2040	PROJECT SPONSOR(S): PFLUGERVILLE		n/a	n/a				Yes			There are currently no expansion plans for Groundwater supplies.
	NEW SURFACE WATER INFRASTRUCTURE - AQUA				1.07 =	.,,-							
K	WSC EXPANSION OF TRINITY AQUIFER SUPPLIES - MANVILLE WSC	2040	PROJECT SPONSOR(S): AQUA WSC PROJECT SPONSOR(S): MANVILLE WSC										Current not applicable as the MWSC plan is for water expansion in 2050.
K	DEVELOPMENT OF NEW QUEEN CITY AQUIFER SUPPLIES - SMITHVILLE		PROJECT SPONSOR(S): SMITHVILLE										

	T					1		1			ı			
										What impediments presented to				
	Database				Has Sponsor taken affirmative		If yes, by what date is the	At what level of	If not implemented, why?* (When "If other, please	implementation?* (When "If other, please describe"				
Planning Region WMS or WMS Project Name	Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	vote or actions?* (TWC 16.053(h)(10))	If yes, in what yes did this occur?		implementation is the project currently?*	the descriptive text to that field		Current water supply project yield (ac-ft/yr)	Funds expended to date (\$)	Project Cost (\$)	Year the project is online?*
		PROJECT SPONSOR(S): STEAM ELECTRIC POWER	RECOMMENDED WMS PROJECT						·		, , .			
K ALTERNATE CANAL DELIVERY - STPNOC BLEND BRACKISH SURFACE WATER IN STPNOC	2020		RECOMMENDED WMS SUPPLY	2324										
K RESERVOIR	2020	POWER, MATAGORDA PROJECT SPONSOR(S): COUNTY-OTHER	WITHOUT WMS PROJECT	39923										
		(BLANCO); COUNTY-OTHER (BURNET); COUNTY-												
		OTHER (GILLESPIE); COUNTY-OTHER (HAYS); COUNTY-OTHER (LLANO); COUNTY-OTHER												
		(MILLS); COUNTY-OTHER (SAN SABA); COUNTY-												
K BRUSH CONTROL	2020	OTHER (TRAVIS)	RECOMMENDED WMS PROJECT	2255					The City is adding					
									additional sources to the					
K BUENA VISTA REGIONAL PROJECT	2020	PROJECT SPONSOR(S): BERTRAM; BURNET; COUNTY-OTHER (BURNET)	RECOMMENDED WMS PROJECT	2258	No			Not implemented	Water Plan and not using this strategy					
K SOLIWAYISHA KESISIWET NOSEST	2020	coom omen(somen)	NECOMMENDED WIND TROJECT	2230				not implemented	uno strucegy					
CITY OF AUSTIN - AQUIFER STORAGE AND						2018 - AWFP approved by Cit		Sponsor has taken officia	.1					
K RECOVERY	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2135	Yes	Council	Began in 2019	action to initiate project		TBD	(\$250,000	\$367 million	
						2018 414/50							Capital costs included as	
CITY OF AUSTIN - CAPTURE LOCAL INFLOWS TO						2018 - AWFP approved by Cit	y 2040 - target for						part of the COA Indirect Potable Reuse through	
K LADY BIRD LAKE	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2148	Yes	Council	completion	Not implemented	Too soon	TBD	(\$250,000	Lady Bird Lake strategy	
K CITY OF AUSTIN - DIRECT REUSE	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2132	Yes	19	74 Ongoing	Currently operating		TBD	4,500 AFY	Approx \$119M since 1974	\$422M through 2115	
						2018 - AWFP								
CITY OF AUSTIN - INDIRECT POTABLE REUSE K THROUGH LADY BIRD LAKE	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2152	Yes	approved by Cit Council	2040 - target for completion	Not implemented	Too soon	TBD		\$750,000	\$91M	
K TIMOGOTTE IST SING SINC	2020	r noszer sz ensengeji rieszni	NECOMMENDED WIND TROJECT	2132	103	Courten	completion	not implemented	100 50011			7730,000	Y 32.111	
			DECOMMENDED WAS CLIDDLY			2018 - AWFP			Marila ha immlamantad in				No conital costs: OR M	
K CITY OF AUSTIN - LAKE AUSTIN OPERATIONS	2020		RECOMMENDED WMS SUPPLY WITHOUT WMS PROJECT	33371	Yes	Council	As necessary to respond to drought	Not implemented	Would be implemented in response to drought	TBD	(No capital costs; O&M costs only	
K CITY OF AUSTIN - LAKE LONG ENHANCED STORAGE	2020	DROJECT SDONSOR(S). ALISTIN	RECOMMENDED WMS PROJECT	2146	No			Not implemented	Project is no longer being considered as a strategy					
K CIT OF AGSTIN - DAKE LONG ENHANCED STORAGE	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WINIS PROJECT	2140	NO			Not implemented	considered as a strategy					
CITY OF AUSTIN - LONGHORN DAM OPERATIONS								Sponsor has taken officia	ıl					
K IMPROVEMENTS	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2144	Yes	20	18 Ongoing	action to initiate project		TBD	(\$0	\$11M	
													This strategy was broker into several individual	"
						2010 41/72							strategies for the 2021	
						2018 - AWFP approved by Cit	cy						planning cycle; costs are being developed for	
K CITY OF AUSTIN - OTHER REUSE	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2147	Yes	Council	Ongoing	Currently operating		TBD	450 AFY		these strategies	
						Rainwater harvesting							TBD; generally to be borne by development	
						rebates have	Rainwater harvesting						with potential for cost	
K CITY OF AUSTIN - RAINWATER HARVESTING	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2145	Voc	been in place since 2009.	rebates are currently in place.	Currently operating		Not applicable	2 55 ac-ft total (2014 201		offsets through utility	
K CITT OF AUSTIN - NAINWATER MARVESTING	2020	rnosect aronaon(a). AUSTIN	VECOMINIEMDED MINIZ LKOTECI	2145	Yes	Ongoing - variou		Currently operating		Not applicable	5.55 ac-11 total (2014-201	\$723k (Funds expended to	incelluves	
						actions on								
						multiple conservation								
K CITY OF AUSTIN CONSERVATION	2020	PROJECT SPONSOR(S): AUSTIN	RECOMMENDED WMS PROJECT	2131	Yes	strategies	Ongoing	Currently operating		Not applicable	Varies annually (TBD)	Varies annually (TBD)	Varies annually (TBD)	
			RECOMMENDED WMS SUPPLY					Permit application						
K CITY OF AUSTIN RETURN FLOWS	2020		WITHOUT WMS PROJECT	32320	Yes	Ongoing	Ongoing	submitted/pending	In process	TBD	(n/a	TBD	
K CITY OF AUSTIN RETURN FLOWS	2020		RECOMMENDED WMS SUPPLY WITHOUT WMS PROJECT	32384										
· · · · · · · · · · · · · · · · · · ·		•				*		<u> </u>	*			*		

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											What impediments presented to				
		Database				Has Sponsor taken affirmative	2	If yes, by what date is the	At what level of	If not implemented, why?* (When "If other, please	implementation?* (When "If other, please describe"				
Planning Region	WMS or WMS Project Name	Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	vote or actions?* (TWC 16.053(h)(10))	If yes, in what year did this occur?	action on schedule for implementation?	implementation is the pro currently?*	oject describe" is selected, please add the descriptive text to that field		Current water supply project yield (ac-ft/yr)	Funds expended to date (\$)	Project Cost (\$)	Year the project is online?*
	CITY OF AUSTIN RETURN FLOWS	2020	WMS SUPPLY RECIPIENT: IRRIGATION, WHARTON	RECOMMENDED WMS SUPPLY	32389	.,, ,,		•		·				, ,,,	
			WMS SUPPLY RECIPIENT: STEAM ELECTRIC	RECOMMENDED WMS SUPPLY											
K	CITY OF AUSTIN RETURN FLOWS DEVELOPMENT OF NEW CARRIZO-WILCOX AQUIFER	2020	POWER, MATAGORDA	WITHOUT WMS PROJECT	32328										
K	SUPPLIES - BASTROP	2020	PROJECT SPONSOR(S): BASTROP	RECOMMENDED WMS PROJECT	1763										
K	DEVELOPMENT OF NEW HICKORY AQUIFER SUPPLIES - LLANO	2020	PROJECT SPONSOR(S): LLANO	RECOMMENDED WMS PROJECT	1766										
К	DEVELOPMENT OF NEW QUEEN CITY AQUIFER SUPPLIES - BASTROP COUNTY MINING	2020	PROJECT SPONSOR(S): MINING (BASTROP)	RECOMMENDED WMS PROJECT	1768										
K	SOLVERS SHOWED COOKER MINIMUM	2020	i noseer si ensembly. Williams (bremer)	NECONNETIBES WINST NOSECT	1700										
	DIRECT DELICE DUDA	2020	PROJECT SPONSOR(S), PURA	DECOMMENDED WAS DROJECT	2224	.,			Comments of the comments of			40.457			2047
	DIRECT REUSE - BUDA DIRECT REUSE - FLATONIA	2020 2020	PROJECT SPONSOR(S): BUDA PROJECT SPONSOR(S): FLATONIA	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	2321 2320	Yes			Currently operating			18 AFY			2017
K	DIRECT REUSE - HORSESHOE BAY	2020	WMS SUPPLY RECIPIENT: HORSESHOE BAY	RECOMMENDED WMS SUPPLY WITHOUT WMS PROJECT	33297	Yes	2017		Currently operating	Two phase project	n/a	583 AFY	\$70,000	\$1,070,00	0 2017
	DIRECT REUSE - LLANO	2020	PROJECT SPONSOR(S): LLANO	RECOMMENDED WMS PROJECT	2322	No	2017		Not implemented	Financing	Funding	363 Al 1	\$70,000	\$1,070,00	2017
К	DIRECT REUSE - MARBLE FALLS	2020	WMS SUPPLY RECIPIENT: MARBLE FALLS	RECOMMENDED WMS SUPPLY WITHOUT WMS PROJECT	42796										
К	DIRECT REUSE - PFLUGERVILLE	2020	PROJECT SPONSOR(S): PFLUGERVILLE	RECOMMENDED WMS PROJECT	2323	Yes	2008	20	9 Currently operating	n/a	n/a	n/a	n/a n/	a	2014
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: AQUA WSC	WMS PROJECT RECOMMENDED DEMAND	10389	No			Not implemented	Too soon	Trigger mechanism not met				
				REDUCTION STRATEGY WITHOUT			2016 (most					Variable depending on	Funding for outreach and Fur	ided through	
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: AUSTIN	WMS PROJECT RECOMMENDED DEMAND	10645	Yes	recent DCP) Or	ngoing	Currently operating		TBD	drought restriction stage	enforcement as needed ope	erating budget	
.,	220101711111	2020	WUG REDUCING DEMAND: BARTON CREEK WEST	REDUCTION STRATEGY WITHOUT	40700										
K	DROUGHT MANAGEMENT	2020	WSC	WMS PROJECT RECOMMENDED DEMAND	10789										
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BASTROP	REDUCTION STRATEGY WITHOUT WMS PROJECT	10413										
K	DROUGHT MANAGEMENT	2020		RECOMMENDED DEMAND	10413										
к	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BASTROP COUNTY WCID #2	REDUCTION STRATEGY WITHOUT WMS PROJECT	10417										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT					All phases fully						
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BAY CITY	WMS PROJECT RECOMMENDED DEMAND	10987	Yes	2019	5-Nov-	9 implemented		n/a		\$0	\$	0 2019
				REDUCTION STRATEGY WITHOUT											
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BEE CAVE	WMS PROJECT RECOMMENDED DEMAND	10793										
.,	22010171111	2020		REDUCTION STRATEGY WITHOUT		.,	2040	45.0.			,	,	40.500	40.50	
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BERTRAM	WMS PROJECT RECOMMENDED DEMAND	10494	Yes	2019	15-Oct-	.9 Currently operating		n/a	n/a	\$3,500	\$3,50	0 2019
ĸ	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BLANCO	REDUCTION STRATEGY WITHOUT WMS PROJECT	10464										
	-			RECOMMENDED DEMAND											
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BRIARCLIFF	REDUCTION STRATEGY WITHOUT WMS PROJECT	10804										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT					All phases fully						
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BUDA	WMS PROJECT	10653	Yes	2012; 2019		implemented						2017
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BURNET	WMS PROJECT RECOMMENDED DEMAND	10498										
				REDUCTION STRATEGY WITHOUT											
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COLUMBUS	WMS PROJECT RECOMMENDED DEMAND	10550										
, v	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COTTONWOOD	REDUCTION STRATEGY WITHOUT WMS PROJECT	10004										
K	DROUGHT MANAGEMENT	2020	SHORES	RECOMMENDED DEMAND	10504										
к	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, BASTROP	REDUCTION STRATEGY WITHOUT WMS PROJECT	10429										
		2020		RECOMMENDED DEMAND	10423										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, BLANCO	REDUCTION STRATEGY WITHOUT WMS PROJECT	10468										
			WUG REDUCING DEMAND: COUNTY-OTHER,	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
К	DROUGHT MANAGEMENT	2020	BURNET	WMS PROJECT	10513										
			WUG REDUCING DEMAND: COUNTY-OTHER,	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K	DROUGHT MANAGEMENT	2020	COLORADO	WMS PROJECT	10555						<u> </u>				

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											What impediments presented to				
		B.4.1						Marie Institute data to the	At what loved of	If not implemented, why?*	implementation?*				
Planning		Database Online			Database	las Sponsor taken affirmative vote or actions?* (TWC	If yes, in what year	If yes, by what date is the action on schedule for	implementation is the proj	(When "If other, please ect describe" is selected, please add		Current water supply project			
Region	WMS or WMS Project Name	Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type RECOMMENDED DEMAND	ID	16.053(h)(10))	did this occur?	implementation?	currently?*	the descriptive text to that field	descriptive text to that field)	yield (ac-ft/yr)	Funds expended to date (\$)	Project Cost (\$)	Year the project is online?*
			WUG REDUCING DEMAND: COUNTY-OTHER,	REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	FAYETTE	WMS PROJECT RECOMMENDED DEMAND	10585										
			WUG REDUCING DEMAND: COUNTY-OTHER,	REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	GILLESPIE	WMS PROJECT RECOMMENDED DEMAND	10631										
			WUG REDUCING DEMAND: COUNTY-OTHER,	REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	HAYS	WMS PROJECT RECOMMENDED DEMAND	10660										
			WUG REDUCING DEMAND: COUNTY-OTHER,	REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	LLANO	WMS PROJECT RECOMMENDED DEMAND	10711										
			WUG REDUCING DEMAND: COUNTY-OTHER,	REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	MATAGORDA	WMS PROJECT RECOMMENDED DEMAND	10739										
			WUG REDUCING DEMAND: COUNTY-OTHER,	REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	MILLS	WMS PROJECT RECOMMENDED DEMAND	10751										
			WUG REDUCING DEMAND: COUNTY-OTHER, SAN												
K DR	OUGHT MANAGEMENT	2020	SABA	WMS PROJECT RECOMMENDED DEMAND	10764					+					
			WUG REDUCING DEMAND: COUNTY-OTHER,	REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WHARTON	WMS PROJECT	10931										
			WUG REDUCING DEMAND: CREEDMOOR-MAHA	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT								Plan is in place. Will be implemented during			
K DR	OUGHT MANAGEMENT	2020	WSC WSC	WMS PROJECT	10437	Yes	2018	201	9 Currently operating			drought.			2019
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: DRIPPING SPRINGS	WMS PROJECT	10666										
				RECOMMENDED DEMAND											
			WUG REDUCING DEMAND: DRIPPING SPRINGS	REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WSC	WMS PROJECT RECOMMENDED DEMAND	10670										
				REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: EAGLE LAKE	WMS PROJECT RECOMMENDED DEMAND	10564										
				REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: EAST BERNARD	WMS PROJECT RECOMMENDED DEMAND	10947										
				REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: ELGIN	WMS PROJECT RECOMMENDED DEMAND	10454										
				REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: FAYETTE WSC	WMS PROJECT RECOMMENDED DEMAND	10593	Yes	2017	202	3 Feasibility study ongoin	g	Access to funding		\$8,000	\$2,100,00	0 2023
				REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: FLATONIA	WMS PROJECT RECOMMENDED DEMAND	10602										
				REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: FREDERICKSBURG	WMS PROJECT RECOMMENDED DEMAND	10641										
				REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: GOLDTHWAITE	WMS PROJECT RECOMMENDED DEMAND	10757										
				REDUCTION STRATEGY WITHOUT											
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: GRANITE SHOALS	WMS PROJECT	10521										
				RECOMMENDED DEMAND						Limit Customer landscape					
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: HORSESHOE BAY	REDUCTION STRATEGY WITHOUT WMS PROJECT	10525	Yes	2015	16-lan-1		ial irrigation to twice weekly only with limited hours.	n/a	300 AFY	\$0	Ś	0 2017
511		2020		RECOMMENDED DEMAND	13323		2015	10 3411-1	project	,	-4-		50		2017
K DP	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: IRRIGATION, COLORADO	REDUCTION STRATEGY WITHOUT WMS PROJECT	9282										
ı, DK		2020		RECOMMENDED DEMAND	3202										
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: IRRIGATION, MATAGORDA	REDUCTION STRATEGY WITHOUT WMS PROJECT	9284										
i DK	OGG IMANAGENENT	2020	THE STREET	RECOMMENDED DEMAND	3204										
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: IRRIGATION, MILLS	REDUCTION STRATEGY WITHOUT WMS PROJECT	9286										
K DK	OGGIT MANAGEMENT	2020		RECOMMENDED DEMAND	3280										
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: IRRIGATION, WHARTON	REDUCTION STRATEGY WITHOUT WMS PROJECT	0200										
K DR	OUGHT IVIANAGEIVIENT	2020	WITALION	RECOMMENDED DEMAND	9288		+			+					
V 55	OLICUT MANIACEMENT	2020	WILE DEDUCING DEMAND TOURS OF CITY	REDUCTION STRATEGY WITHOUT	10400										
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: JOHNSON CITY	WMS PROJECT RECOMMENDED DEMAND	10490										
	OLICUT MANAGENASSIT	2022	WILE BEDLICING DELAND, LONGERS	REDUCTION STRATEGY WITHOUT	40011										
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: JONESTOWN	WMS PROJECT RECOMMENDED DEMAND	10811										
	OLICUT MAANACENASSIT	265-	MUC DEDUCING DENAND, WASSESSEED	REDUCTION STRATEGY WITHOUT	405										
K DR	OUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: KINGSLAND WSC	WMS PROJECT	10532										

		Database				Has Sponsor taken affirmative		If yes, by what date is the	At what level of	If not implemented, why?* (When "If other, please	What impediments presented to implementation?* (When "If other, please describe"				
Planning Region	WMS or WMS Project Name	Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	vote or actions?* (TWC 16.053(h)(10))	If yes, in what year did this occur?			t describe" is selected, please add the descriptive text to that field)	is selected, please add the	Current water supply project yield (ac-ft/yr)	Funds expended to date (\$)	Project Cost (\$)	Year the project is online
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LA GRANGE	WMS PROJECT RECOMMENDED DEMAND	10608										
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LAGO VISTA	REDUCTION STRATEGY WITHOUT WMS PROJECT	10815										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LAKEWAY	WMS PROJECT RECOMMENDED DEMAND	10820										
				REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LLANO	WMS PROJECT RECOMMENDED DEMAND	10715	Yes	2019	May-19	Currently operating						2
к р	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LOOP 360 WSC	REDUCTION STRATEGY WITHOUT WMS PROJECT	10832										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LOST CREEK MUD	WMS PROJECT RECOMMENDED DEMAND	10836										
V 0	DOLICUT MANACEMENT	2020	MUC BEDUCING DEMAND, MANIOR	REDUCTION STRATEGY WITHOUT	10043										
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: MANOR	WMS PROJECT	10842										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: MANVILLE WSC	WMS PROJECT RECOMMENDED DEMAND	10846	Yes	2016								
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: MARBLE FALLS	REDUCTION STRATEGY WITHOUT WMS PROJECT	10541										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: MEADOWLAKES	WMS PROJECT RECOMMENDED DEMAND	10546										
	20101711117		WUG REDUCING DEMAND: NORTH AUSTIN MUD	REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	#1	WMS PROJECT RECOMMENDED DEMAND	10852										
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: NORTHTOWN MUD	REDUCTION STRATEGY WITHOUT WMS PROJECT	10858										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: PALACIOS	WMS PROJECT	10747										
				RECOMMENDED DEMAND											
	20101711117	2000		REDUCTION STRATEGY WITHOUT	40050		2005		All phases fully	,	,	,	,	,	
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: PFLUGERVILLE	WMS PROJECT RECOMMENDED DEMAND	10862	Yes	2006		implemented	n/a	n/a	n/a	n/a	n/a	2
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: POINT VENTURE	REDUCTION STRATEGY WITHOUT WMS PROJECT	10868										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: ROLLINGWOOD	WMS PROJECT RECOMMENDED DEMAND	10872										
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SAN SABA	REDUCTION STRATEGY WITHOUT WMS PROJECT	10784										
	NOOCH IN WASCEMENT	2020	WOO NEEDOCHNO DE INI MIDI SI MI SI ISI	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT	20701										
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SCHULENBURG	WMS PROJECT	10627										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SHADY HOLLOW MUD	RECOMMENDED DEMAND	10876										
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SMITHVILLE	REDUCTION STRATEGY WITHOUT WMS PROJECT	10460	Yes	2000	Immediate	All phases fully implemented		Not applicable	4000 AFY	\$500,000	\$44,745	
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
K D	ROUGHT MANAGEMENT	2020	VILLAGE	WMS PROJECT RECOMMENDED DEMAND	10723										
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SUNSET VALLEY	REDUCTION STRATEGY WITHOUT WMS PROJECT	10880										
ı, D	NO COLLI MINIMAGENIENI	2020	TO REDUCING DEIMAND, JUNGET VALLET	RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT	10000										
K D	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: THE HILLS	WMS PROJECT	10884										
			WUG REDUCING DEMAND: TRAVIS COUNTY MUD												
K D	ROUGHT MANAGEMENT		#4	WMS PROJECT RECOMMENDED DEMAND	10888										
к р	ROUGHT MANAGEMENT		WUG REDUCING DEMAND: TRAVIS COUNTY WCID #10	REDUCTION STRATEGY WITHOUT WMS PROJECT	10892										
				RECOMMENDED DEMAND											
K D	ROUGHT MANAGEMENT		#17	WMS PROJECT RECOMMENDED DEMAND	10896										
	DOLIGHT MANAGEMENT	2020	WUG REDUCING DEMAND: TRAVIS COUNTY WCID #18		10900										
K D	ROUGHT MANAGEMENT	2020		RECOMMENDED DEMAND	10900										
	ROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: TRAVIS COUNTY WCID #19	REDUCTION STRATEGY WITHOUT WMS PROJECT	10902										

										If not implemented, why?*	What impediments presented to implementation?*				
Dlanning		Database Online			Database	Has Sponsor taken affirmative	If you in what year	If yes, by what date is the		(When "If other, please	(When "If other, please describe"	Current water cumply project			
Planning Region	WMS or WMS Project Name	Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type RECOMMENDED DEMAND	Database ID	vote or actions?* (TWC 16.053(h)(10))	If yes, in what year did this occur?	action on schedule for implementation?	currently?*	ect describe" is selected, please add the descriptive text to that field		Current water supply project yield (ac-ft/yr)	Funds expended to date (\$)	Project Cost (\$)	Year the project is online?*
			WUG REDUCING DEMAND: TRAVIS COUNTY WCID	REDUCTION STRATEGY WITHOUT											
К	DROUGHT MANAGEMENT	2020	#20	WMS PROJECT RECOMMENDED DEMAND	10904										
к	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: VOLENTE	REDUCTION STRATEGY WITHOUT WMS PROJECT	10912										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: WEIMAR	WMS PROJECT	10570										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: WELLS BRANCH MUD	WMS PROJECT RECOMMENDED DEMAND	10916										
	DROUGHT MANACEMENT	2020	WILL DEDUCING DEMAND, WEST LAKE LILLS	REDUCTION STRATEGY WITHOUT	10020										
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: WEST LAKE HILLS	WMS PROJECT RECOMMENDED DEMAND	10926										
к	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY	WMS PROJECT	10700										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: WHARTON	WMS PROJECT	10961										
				RECOMMENDED DEMAND REDUCTION STRATEGY WITHOUT											
К	DROUGHT MANAGEMENT - MOUNTAIN CITY	2020	WUG REDUCING DEMAND: MOUNTAIN CITY	WMS PROJECT	14786										
K	EAST LAKE BUCHANAN REGIONAL PROJECT EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES	2020	PROJECT SPONSOR(S): COUNTY-OTHER (BURNET)	RECOMMENDED WMS PROJECT	2259										
K	- AQUA WSC	2020	PROJECT SPONSOR(S): AQUA WSC	RECOMMENDED WMS PROJECT	1668	Yes	2018	20	19 Currently operating						
К	EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES - BASTROP COUNTY MANUFACTURING	2020	PROJECT SPONSOR(S): MANUFACTURING (BASTROP)	RECOMMENDED WMS PROJECT	1672										
к	EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES - BASTROP COUNTY-OTHER	2020	PROJECT SPONSOR(S): COUNTY-OTHER (BASTROP)	RECOMMENDED WMS PROJECT	1670										
К	EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES - ELGIN		PROJECT SPONSOR(S): ELGIN	RECOMMENDED WMS PROJECT	1671										
K		2020		NECONNENDED WINST ROSECT	1071				Demails and lighting						
К	EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES - LCRA	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	RECOMMENDED WMS PROJECT	1673	Yes		Permit apps were submitted Feb 2018	Permit application submitted/pending		Permitting process	0 AFY	excess of \$3M		2023
	EXPANSION OF ELLENBURGER-SAN SABA AQUIFER									Evaluating costs and	Permitting process; Groundwater rights;				
К	SUPPLIES - BERTRAM EXPANSION OF ELLENBURGER-SAN SABA AQUIFER	2020	PROJECT SPONSOR(S): BERTRAM	RECOMMENDED WMS PROJECT	1705	Yes	2019	20	Peasibility study ongoin		financing	366.5 AFY	\$63,000	\$16,345,000	2022
К	SUPPLIES - BURNET COUNTY MINING	2020	PROJECT SPONSOR(S): MINING (BURNET)	RECOMMENDED WMS PROJECT	1706										
	EXPANSION OF ELLENBURGER-SAN SABA AQUIFER		PROJECT SPONSOR(S): MANUFACTURING												
K	SUPPLIES - GILLESPIE COUNTY MANUFACTURING EXPANSION OF ELLENBURGER-SAN SABA AQUIFER	2020	(GILLESPIE)	RECOMMENDED WMS PROJECT	1707										
К	SUPPLIES - JOHNSON CITY EXPANSION OF GULF COAST AQUIFER SUPPLIES -	2020	PROJECT SPONSOR(S): JOHNSON CITY PROJECT SPONSOR(S): COUNTY-OTHER	RECOMMENDED WMS PROJECT	1704										
К	COLORADO COUNTY-OTHER	2020	(COLORADO)	RECOMMENDED WMS PROJECT	1719										
К	EXPANSION OF GULF COAST AQUIFER SUPPLIES - FAYETTE COUNTY MANUFACTURING	2020	PROJECT SPONSOR(S): MANUFACTURING (FAYETTE)	RECOMMENDED WMS PROJECT	1723										
к	EXPANSION OF GULF COAST AQUIFER SUPPLIES - FAYETTE COUNTY MINING	2020	PROJECT SPONSOR(S): MINING (FAYETTE)	RECOMMENDED WMS PROJECT	1721										
V	EXPANSION OF GULF COAST AQUIFER SUPPLIES - FAYETTE COUNTY-OTHER	2020	PROJECT SPONSOR(S): COUNTY-OTHER (FAYETTE)	RECOMMENDED WMS PROJECT	1720										
	EXPANSION OF GULF COAST AQUIFER SUPPLIES -														
K	FLATONIA EXPANSION OF SPARTA AQUIFER SUPPLIES -		PROJECT SPONSOR(S): FLATONIA	RECOMMENDED WMS PROJECT	1722										
K	FAYETTE COUNTY MINING EXPANSION OF TRINITY AQUIFER SUPPLIES - HAYS	2020	PROJECT SPONSOR(S): MINING (FAYETTE)	RECOMMENDED WMS PROJECT	1731										
К	COUNTY MINING EXPANSION OF TRINITY AQUIFER SUPPLIES -	2020	PROJECT SPONSOR(S): MINING (HAYS)	RECOMMENDED WMS PROJECT	1732										
К	LAKEWAY	2020	PROJECT SPONSOR(S): LAKEWAY	RECOMMENDED WMS PROJECT	1734										
К	EXPANSION OF TRINITY AQUIFER SUPPLIES - MILLS COUNTY IRRIGATION	2020	PROJECT SPONSOR(S): IRRIGATION (MILLS)	RECOMMENDED WMS PROJECT	1733										
			PROJECT SPONSOR(S): IRRIGATION (COLORADO); IRRIGATION (MATAGORDA); IRRIGATION												
K	IRRIGATION CONSERVATION - ON FARM	2020	(WHARTON) PROJECT SPONSOR(S): IRRIGATION (COLORADO);	RECOMMENDED WMS PROJECT	1977										
	IRRICATION CONSERVATION CROSSES	2020	IRRIGATION (MATAGORDA); IRRIGATION		105-										
K	IRRIGATION CONSERVATION - SPRINKLER	2020	(WHARTON) PROJECT SPONSOR(S): IRRIGATION (COLORADO);	RECOMMENDED WMS PROJECT	1988										
К	IRRIGATION OPERATIONS CONVEYANCE IMPROVEMENTS	2020	IRRIGATION (MATAGORDA); IRRIGATION (WHARTON)	RECOMMENDED WMS PROJECT	1985										
		-	PROJECT SPONSOR(S): LOWER COLORADO RIVER							No suitable water rights					
К	LCRA - ACQUIRE ADDITIONAL WATER RIGHTS	2020	AUTHORITY	RECOMMENDED WMS PROJECT	2129	No			Feasibility study ongoin	opportunities have arisen		0 AFY	\$0	145/AF	
										No customers listed in the 2016 RWP have yet					
K	LCRA - CONTRACT AMENDMENTS	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	RECOMMENDED WMS PROJECT	2438	No			Feasibility study ongoin	requested contract amendments		0 AFY	\$0	151/AF	
	LCRA - ENHANCED MUNICIPAL AND INDUSTRIAL	-	PROJECT SPONSOR(S): LOWER COLORADO RIVER						Sponsor has taken offic				\$200,000 for incentives,		
К	CONSERVATION	2020	AUTHORITY	RECOMMENDED WMS PROJECT	2018	Yes	2019	5/22/20	19 action to initiate projec			4,500	no internal labor costs		2019
	LCRA - EXCESS FLOWS PERMIT OFF-CHANNEL		PROJECT SPONSOR(S): LOWER COLORADO RIVER							LCRA is in the process of					
K	RESERVOIR	2020	AUTHORITY	RECOMMENDED WMS PROJECT	2128	No	1		Feasibility study ongoin		Permitting process	0 AFY		1,446/AF	2021

											What impediments presented to				
		Database				Has Sponsor taken affirmative		If yes, by what date is the	At what level of	If not implemented, why?* (When "If other, please	implementation?* (When "If other, please describe'	,			
Planning Region	WMS or WMS Project Name	Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	vote or actions?* (TWC 16.053(h)(10))	If yes, in what year did this occur?	action on schedule for implementation?	implementation is the project currently?*	t describe" is selected, please ad the descriptive text to that field		Current water supply project yield (ac-ft/yr)	Funds expended to date (\$)	Project Cost (\$)	Year the project is online?*
К	LCRA - GROUNDWATER SUPPLY FOR FPP (OFF-SITE)	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	RECOMMENDED WMS PROJECT	2233	No									
	, ,		PROJECT SPONSOR(S): LOWER COLORADO RIVER												
К	LCRA - GROUNDWATER SUPPLY FOR FPP (ON-SITE)	2020	AUTHORITY WMS SELLER: LOWER COLORADO RIVER	RECOMMENDED WMS PROJECT	2019	No									
К	LCRA - INTERRUPTIBLE WATER FOR AGRICULTURE (LCRA WMP AMENDMENTS)	2020	AUTHORITY; WMS SUPPLY RECIPIENT: IRRIGATION, COLORADO	RECOMMENDED WMS SUPPLY WITHOUT WMS PROJECT	16505										
K	(LCCA WIVIF AIVIENDIVIENTS)	2020	WMS SELLER: LOWER COLORADO RIVER	WITHOUT WINIS PROJECT	16505										
к	LCRA - INTERRUPTIBLE WATER FOR AGRICULTURE (LCRA WMP AMENDMENTS)	2020	AUTHORITY; WMS SUPPLY RECIPIENT: IRRIGATION, MATAGORDA	RECOMMENDED WMS SUPPLY WITHOUT WMS PROJECT	16510										
		2020	WMS SELLER: LOWER COLORADO RIVER		10310										
к	LCRA - INTERRUPTIBLE WATER FOR AGRICULTURE (LCRA WMP AMENDMENTS)	2020	AUTHORITY; WMS SUPPLY RECIPIENT: IRRIGATION, WHARTON	RECOMMENDED WMS SUPPLY WITHOUT WMS PROJECT	16515										
		2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY			V		2044	All phases fully						
K	LCRA - LANE CITY OFF-CHANNEL RESERVOIR	2020	AUTHORITY	RECOMMENDED WMS PROJECT	2090	Yes		2019	implemented						
к	LCRA - MID-BASIN OFF-CHANNEL RESERVOIR	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	RECOMMENDED WMS PROJECT	2127	No			Feasibility study ongoing	Too soon	Lack of need	0 AFY	in excess of \$500,000	\$512,792,000	
			PROJECT SPONSOR(S): LOWER COLORADO RIVER						Acquisition and design						
К	LCRA - NEW LCRA CONTRACTS	2020	AUTHORITY	RECOMMENDED WMS PROJECT	2439	No			phase	Too soon	Not applicable	0 AFY	\$0	\$151/AF	
.,	MARRIE FALIS REGIONAL PROJECT	2020	PROJECT SPONSOR(S): COTTONWOOD SHORES;	DECOMMENDED WAS DROJECT	2250										
	MARBLE FALLS REGIONAL PROJECT MUNICIPAL CONSERVATION - AQUA WSC	2020 2020	COUNTY-OTHER (BURNET); MARBLE FALLS PROJECT SPONSOR(S): AQUA WSC	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	2260 1808	Yes	2006	AMR completed 2012	Currently operating						
	MUNICIPAL CONSERVATION - BARTON CREEK WEST	2020	PROJECT SPONSOR(S): BARTON CREEK WEST	NECONNICIOES WIND I NOSECI	1000	103	2000	www.completeu 2012	carrenay operating						
	WSC	2020	WSC	RECOMMENDED WMS PROJECT	1925										
K	MUNICIPAL CONSERVATION - BASTROP MUNICIPAL CONSERVATION - BASTROP COUNTY	2020	PROJECT SPONSOR(S): BASTROP PROJECT SPONSOR(S): COUNTY-OTHER	RECOMMENDED WMS PROJECT	1852										
К	OTHER	2020	(BASTROP)	RECOMMENDED WMS PROJECT	1861										
									All phases fully						
	MUNICIPAL CONSERVATION - BAY CITY	2020	PROJECT SPONSOR(S): BAY CITY	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	1919	Yes	2019	5-Nov-19	implemented		n/a		\$300/yr	\$0	2019
	MUNICIPAL CONSERVATION - BEE CAVE VILLAGE MUNICIPAL CONSERVATION - BERTRAM	2020	PROJECT SPONSOR(S): BEE CAVE PROJECT SPONSOR(S): BERTRAM	RECOMMENDED WMS PROJECT	1929 1872	Yes	2019	2020	Currently operating		n/a	12 AFY	\$12,300	\$12,300	2020
	MUNICIPAL CONSERVATION - BLANCO	2020	PROJECT SPONSOR(S): BLANCO	RECOMMENDED WMS PROJECT	1869				a comment of comments		1,72		7-2,000	7-2,000	
	MUNICIPAL CONSERVATION - BUDA MUNICIPAL CONSERVATION - BURNET	2020 2020	PROJECT SPONSOR(S): BUDA PROJECT SPONSOR(S): BURNET	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	1908 1876	Yes	2015	2019	Currently operating				\$2,622,393		2017
	MUNICIPAL CONSERVATION - BURNET COUNTY-														
К	OTHER	2020	PROJECT SPONSOR(S): COUNTY-OTHER (BURNET)	RECOMMENDED WMS PROJECT	2641			9/12/16 - full AMI	All phases fully						
	MUNICIPAL CONSERVATION - CEDAR PARK	2020	PROJECT SPONSOR(S): CEDAR PARK	RECOMMENDED WMS PROJECT	1948	Yes		implementation project					\$5,257,758	\$5,257,758	2017
K	MUNICIPAL CONSERVATION - COLUMBUS MUNICIPAL CONSERVATION - COTTONWOOD	2020	PROJECT SPONSOR(S): COLUMBUS	RECOMMENDED WMS PROJECT	1892										
К	SHORES	2020	PROJECT SPONSOR(S): COTTONWOOD SHORES	RECOMMENDED WMS PROJECT	1878										
к	MUNICIPAL CONSERVATION - DRIPPING SPRINGS	2020	PROJECT SPONSOR(S): DRIPPING SPRINGS	RECOMMENDED WMS PROJECT	1909										
	MUNICIPAL CONSERVATION - DRIPPING SPRINGS														
	WSC MUNICIPAL CONSERVATION - EAST BERNARD	2020	PROJECT SPONSOR(S): DRIPPING SPRINGS WSC PROJECT SPONSOR(S): EAST BERNARD	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	1912 1975										
	MUNICIPAL CONSERVATION - FLATONIA	2020	PROJECT SPONSOR(S): FLATONIA	RECOMMENDED WMS PROJECT	1900										
	MUNICIPAL CONSERVATION - FREDERICKSBURG	2020	PROJECT SPONSOR(S): FREDERICKSBURG	RECOMMENDED WMS PROJECT	1906										
K	MUNICIPAL CONSERVATION - GOLDTHWAITE	2020	PROJECT SPONSOR(S): GOLDTHWAITE	RECOMMENDED WMS PROJECT	1921		+							Ongoing Leak detection	
									All phases fully				s	urveys - \$20-\$30	
	MUNICIPAL CONSERVATION - HORSESHOE BAY	2020	PROJECT SPONSOR(S): HORSESHOE BAY	RECOMMENDED WMS PROJECT	1886	Yes	2015		implemented		n/a	9.97 AFY	\$80 a	nnually	2017
	MUNICIPAL CONSERVATION - JOHNSON CITY MUNICIPAL CONSERVATION - JONESTOWN	2020 2020	PROJECT SPONSOR(S): JOHNSON CITY PROJECT SPONSOR(S): JONESTOWN	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	1871 2213										
	MUNICIPAL CONSERVATION - LA GRANGE	2020	PROJECT SPONSOR(S): LA GRANGE	RECOMMENDED WMS PROJECT	1902										
	MUNICIPAL CONSERVATION - LAGO VISTA	2020	PROJECT SPONSOR(S): LAGO VISTA	RECOMMENDED WMS PROJECT	1950									-	
K	MUNICIPAL CONSERVATION - LAKEWAY	2020	PROJECT SPONSOR(S): LAKEWAY	RECOMMENDED WMS PROJECT	1952		+		All phases fully						
К	MUNICIPAL CONSERVATION - LLANO	2020	PROJECT SPONSOR(S): LLANO	RECOMMENDED WMS PROJECT	1917	Yes	2019	May-1	implemented						
	MUNICIPAL CONSERVATION - LOOP 360	2020	PROJECT SPONSOR(S): LOOP 360 WSC	RECOMMENDED WMS PROJECT	1955	·			-						
	MUNICIPAL CONSERVATION - LOST CREEK MUD MUNICIPAL CONSERVATION - MARBLE FALLS	2020 2020	PROJECT SPONSOR(S): LOST CREEK MUD PROJECT SPONSOR(S): MARBLE FALLS	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	1956 1887										+
	MUNICIPAL CONSERVATION - MARGLE FALLS MUNICIPAL CONSERVATION - MEADOWLAKES	2020	PROJECT SPONSOR(S): MARBLE FALLS PROJECT SPONSOR(S): MEADOWLAKES	RECOMMENDED WMS PROJECT	1889										
										Awaiting approval in future					
К	MUNICIPAL CONSERVATION - PFLUGERVILLE	2020	PROJECT SPONSOR(S): PFLUGERVILLE	RECOMMENDED WMS PROJECT	1959	Yes		202:	L Feasibility study ongoing	Awaiting approval in future budget proposal.	Access to funding	n/a	n/a	n/a	2022
	MUNICIPAL CONSERVATION - POINT VENTURE	2020	PROJECT SPONSOR(S): POINT VENTURE	RECOMMENDED WMS PROJECT	1961										
	MUNICIPAL CONSERVATION - ROLLINGWOOD MUNICIPAL CONSERVATION - ROUND ROCK	2020 2020	PROJECT SPONSOR(S): ROLLINGWOOD PROJECT SPONSOR(S): ROUND ROCK	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	1962 1963		+								
										Implementation is					
	MUNICIPAL CONSERVATION - SAN SABA MUNICIPAL CONSERVATION - SCHULENBURG	2020 2020	PROJECT SPONSOR(S): SAN SABA PROJECT SPONSOR(S): SCHULENBURG	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	1922 1904	Yes	2013		Not implemented	currently not required	Not applicable				2016
, N		2020			1304		1		1	1	1	1			

										If not implemented, why?*	What impediments presented to implementation?*				
Planning		Database Online			Database	Has Sponsor taken affirmative vote or actions?* (TWC	If yes, in what year			(When "If other, please t describe" is selected, please add		Current water supply project			
Region	WMS or WMS Project Name	Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	ID	16.053(h)(10))	did this occur?	implementation?	currently?*	the descriptive text to that field	descriptive text to that field)	yield (ac-ft/yr)	Funds expended to date (\$)	Project Cost (\$)	Year the project is online?*
K	MUNICIPAL CONSERVATION - SHADY HOLLOW MUD	2020	PROJECT SPONSOR(S): SHADY HOLLOW MUD	RECOMMENDED WMS PROJECT	1964	l .									
									All phases fully						
	MUNICIPAL CONSERVATION - SMITHVILLE		PROJECT SPONSOR(S): SMITHVILLE PROJECT SPONSOR(S): SUNSET VALLEY	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	1865 1965		201	5 201	6 implemented		Not applicable	n/a		\$2.3M AMI upgrade	201
	MUNICIPAL CONSERVATION - SUNSET VALLEY MUNICIPAL CONSERVATION - THE HILLS		PROJECT SPONSOR(S): THE HILLS	RECOMMENDED WMS PROJECT	1966										
	MUNICIPAL CONSERVATION - TRAVIS COUNTY MUD #4	2020	DROJECT CDONGODICS). TRAVIC COLINITY MALID #4	DECOMMENDED WING DROJECT	4067										
K	MUNICIPAL CONSERVATION - TRAVIS COUNTY WCID	2020	PROJECT SPONSOR(S): TRAVIS COUNTY MUD #4	RECOMMENDED WING PROJECT	1967										
K	#10 MUNICIPAL CONSERVATION - TRAVIS COUNTY WCID	2020	PROJECT SPONSOR(S): TRAVIS COUNTY WCID #10	RECOMMENDED WMS PROJECT	1968	1									
K	#17	2020	PROJECT SPONSOR(S): TRAVIS COUNTY WCID #17	RECOMMENDED WMS PROJECT	1969	,									
	MUNICIPAL CONSERVATION - TRAVIS COUNTY WCID #18	2020	DROJECT CDONGODIC). TRAVIC COLINITY MICID #40	DECOMMENDED WING DROJECT	4074										
K	MUNICIPAL CONSERVATION - TRAVIS COUNTY WCID	2020	PROJECT SPONSOR(S): TRAVIS COUNTY WCID #18	RECOMMENDED WIVIS PROJECT	1971	-									
	#19	2020	PROJECT SPONSOR(S): TRAVIS COUNTY WCID #19	RECOMMENDED WMS PROJECT	1972										
	MUNICIPAL CONSERVATION - TRAVIS COUNTY WCID #20	2020	PROJECT SPONSOR(S): TRAVIS COUNTY WCID #20	RECOMMENDED WMS PROJECT	1973										
	MUNICIPAL CONSERVATION - WEIMAR	2020	PROJECT SPONSOR(S): WEIMAR	RECOMMENDED WMS PROJECT	1895										
K	MUNICIPAL CONSERVATION - WEST LAKE HILLS MUNICIPAL CONSERVATION - WEST TRAVIS COUNTY	2020	PROJECT SPONSOR(S): WEST LAKE HILLS PROJECT SPONSOR(S): WEST TRAVIS COUNTY	RECOMMENDED WMS PROJECT	1974										
	PUA		PUBLIC UTILITY AGENCY	RECOMMENDED WMS PROJECT	1913										
K	MUNICIPAL CONSERVATION - WHARTON	2020	PROJECT SPONSOR(S): WHARTON	RECOMMENDED WMS PROJECT	1976	i									
K	NEW SURFACE WATER INFRASTRUCTURE - VOLENTE	2020	PROJECT SPONSOR(S): VOLENTE	RECOMMENDED WMS PROJECT	2311										
К	URGENT WATER LOSS REDUCTION PROJECT - CMWSC	2020	PROJECT SPONSOR(S): CREEDMOOR-MAHA WSC	RECOMMENDED WMS PROJECT	2869	Yes	201	8 2020-2021	Feasibility study ongoing		n/a	1,130 AFY		\$9,335,000	
K	Civivos	2020	PROJECT SPONSON(S). CREEDINGON-MAILA WSC	RECOMMENDED WINS PROJECT	2009	res	201	8 2020-2021	reasibility study origonig		II/ d	1,130 AFT		\$5,555,000	'
			PROJECT SPONSOR(S): BUDA; COUNTY-OTHER				Approved in FY	In average complete in				2020 150 AEV. 2021			
K	BS/EACD EDWARDS / MIDDLE TRINITY ASR	2030	(HAYS); MINING (HAYS); MOUNTAIN CITY; SUNSET VALLEY	RECOMMENDED WMS PROJECT	2238	Yes	2017-2018 Budget	In progress, complete in 2020	Under construction			2020 - 150 AFY; 2021 - 300 AFY	\$1,896,000	\$2,500,000	202
							- J								
											Project viability, cost. This				
											project might be viable by Desalinating Saline Edwards				
			PROJECT SPONSOR(S): BUDA; COUNTY-OTHER							Too soon; financing;	and having an ASR				
K	BS/EACD SALINE EDWARDS ASR EXPANSION OF HICKORY AQUIFER SUPPLIES -	2030	(HAYS); CREEDMOOR-MAHA WSC	RECOMMENDED WMS PROJECT	2241	. No			Not implemented	permitting; environmental	component				
K	BURNET COUNTY MINING	2030	PROJECT SPONSOR(S): MINING (BURNET)	RECOMMENDED WMS PROJECT	1726	i i									
V	EXPANSION OF TRINITY AQUIFER SUPPLIES - MANOR	2020	DROJECT SPONSORIS). MANAGO	DECOMMENDED WING DROJECT	1725										
K	MANOR	2030	PROJECT SPONSOR(S): MANOR	RECOMMENDED WMS PROJECT	1735	•									
			PROJECT SPONSOR(S): WEST TRAVIS COUNTY												
1/	HAVE COUNTY DIRECTOR PECCON & PORTION	2020	PUBLIC UTILITY AGENCY; COUNTY-OTHER (HAYS);	DECOMMENDED WAS DROJECT	4774										
K	HAYS COUNTY PIPELINE - REGION K PORTION	2030	DRIPPING SPRINGS WSC PROJECT SPONSOR(S): LOWER COLORADO RIVER	RECOMMENDED WMS PROJECT	1771										
K	LCRA - PRAIRIE SITE OFF-CHANNEL RESERVOIR	2030	AUTHORITY	RECOMMENDED WMS PROJECT	2126										
K	NEW SURFACE WATER INFRASTRUCTURE - ELGIN	2030	PROJECT SPONSOR(S): ELGIN	RECOMMENDED WMS PROJECT	2316	1									
				RECOMMENDED WMS SUPPLY											
K	WATER PURCHASE	2030	SUPPLY RECIPIENT: DRIPPING SPRINGS	WITHOUT WMS PROJECT RECOMMENDED WMS SUPPLY	32528										
	CITY OF AUSTIN RETURN FLOWS	2040	WMS SUPPLY RECIPIENT: IRRIGATION, COLORADO		32379										
	DEVELOPMENT OF NEW CARRIZO-WILCOX AQUIFER SUPPLIES - BASTROP COUNTY MINING	2040	PROJECT SPONSOR(S): MINING (BASTROP)	RECOMMENDED WMS PROJECT	1764	l e									
	DEVELOPMENT OF NEW TRINITY AQUIFER SUPPLIES -														
	SUNSET VALLEY DIRECT REUSE - BASTROP		PROJECT SPONSOR(S): SUNSET VALLEY PROJECT SPONSOR(S): BASTROP	RECOMMENDED WMS PROJECT RECOMMENDED WMS PROJECT	1769 2319										
			WMS SELLER: BUDA; WMS SUPPLY RECIPIENT:	RECOMMENDED WMS SUPPLY											
K	DIRECT REUSE - BUDA EXPANSION OF EDWARDS (BFZ) AQUIFER SUPPLIES -	2040	MINING, HAYS	WITHOUT WMS PROJECT	33305	1									
K	PFLUGERVILLE	2040	PROJECT SPONSOR(S): PFLUGERVILLE	RECOMMENDED WMS PROJECT	1708	No No				n/a	n/a	n/a	n/a	n/a	
K	NEW SURFACE WATER INFRASTRUCTURE - AQUA WSC	2040	PROJECT SPONSOR(S): AQUA WSC	RECOMMENDED WMS PROJECT	2317	' No			Not implemented	Too soon					
	EXPANSION OF ELLENBURGER-SAN SABA AQUIFER														
K	SUPPLIES - BLANCO COUNTY-OTHER EXPANSION OF HICKORY AQUIFER SUPPLIES -	2050	PROJECT SPONSOR(S): COUNTY-OTHER (BLANCO)	RECOMMENDED WMS PROJECT	1703										
K	BLANCO COUNTY-OTHER	2050	PROJECT SPONSOR(S): COUNTY-OTHER (BLANCO)	RECOMMENDED WMS PROJECT	1725	i									
К	EXPANSION OF TRINITY AQUIFER SUPPLIES - MANVILLE WSC	2050	PROJECT SPONSOR(S): MANVILLE WSC	RECOMMENDED WMS PROJECT	1736	i No			Not implemented	Too soon					
									oc implemented	Too soon					
	NEW SURFACE WATER INFRASTRUCTURE - BASTROP	2050	PROJECT SPONSOR(S): BASTROP	RECOMMENDED WMS PROJECT	2313	1									
	DEVELOPMENT OF NEW GULF COAST AQUIFER SUPPLIES - WHARTON COUNTY STEAM-ELECTRIC	2060	PROJECT SPONSOR(S): STEAM ELECTRIC POWER (WHARTON)	RECOMMENDED WMS PROJECT	1765										
	EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES		PROJECT SPONSOR(S): BASTROP COUNTY WCID												
K	- BASTROP COUNTY WCID #2 EXPANSION OF MARBLE FALLS AQUIFER SUPPLIES -	2060	#2	RECOMMENDED WMS PROJECT	1669										
K	BURNET COUNTY MINING	2060	PROJECT SPONSOR(S): MINING (BURNET)	RECOMMENDED WMS PROJECT	1729			5		No need We ar-					
										No need. We are permitted for 4000 acre-ft					
	DEVELOPMENT OF NEW QUEEN CITY AQUIFER									and only use 850 acre-ft /					
K	SUPPLIES - SMITHVILLE	2070	PROJECT SPONSOR(S): SMITHVILLE	RECOMMENDED WMS PROJECT	2214	No			Not implemented	year	Not applicable		1	İ	

												What impediments presented to				
											If not implemented, why?*	implementation?*				1
			Database				Has Sponsor taken affirmative		If yes, by what date is the	At what level of	(When "If other, please	(When "If other, please describe"				1
Plan	nning		Online			Database	vote or actions?* (TWC	If yes, in what year	action on schedule for	implementation is the project	describe" is selected, please add	is selected, please add the	Current water supply project			1
Reg	gion	WMS or WMS Project Name	Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	ID	16.053(h)(10))	did this occur?	implementation?	currently?*	the descriptive text to that field)	descriptive text to that field)	yield (ac-ft/yr)	Funds expended to date (\$)	Project Cost (\$)	Year the project is online?*
					REDUCTION STRATEGY WITHOUT											1
	K	MUNICIPAL WATER CONSERVATION (RURAL)	2070	WUG REDUCING DEMAND: MOUNTAIN CITY	WMS PROJECT	14779	9									1

		Database											
Planning Region	WMS or WMS Project Name	Online Decade	Related Sponsor Entity and/or Benefitting WUGS PROJECT SPONSOR(S): STEAM ELECTRIC POWER	Is this a phased project?*	(Phased) Ultimate volume (ac ft/yr)	(Phased) Ultimate project cost (\$)	Year project reaches maximum capacity?*	What is the project funding source(s)?*	Funding Mechanism if Other?	Included in 2021 plan?*	Does the project or WMS involve reallocation of flood control?*	Does the project or WMS provide any measurable flood risk reduction?*	Optional Comments
K	ALTERNATE CANAL DELIVERY - STPNOC BLEND BRACKISH SURFACE WATER IN STPNOC	2020	(MATAGORDA) WMS SUPPLY RECIPIENT: STEAM ELECTRIC										
K	RESERVOIR	2020	POWER, MATAGORDA PROJECT SPONSOR(S): COUNTY-OTHER										
			(BLANCO); COUNTY-OTHER (BURNET); COUNTY- OTHER (GILLESPIE); COUNTY-OTHER (HAYS); COUNTY-OTHER (LLANO); COUNTY-OTHER										
К	BRUSH CONTROL	2020	(MILLS); COUNTY-OTHER (SAN SABA); COUNTY- OTHER (TRAVIS)										
К	BUENA VISTA REGIONAL PROJECT	2020	PROJECT SPONSOR(S): BERTRAM; BURNET; COUNTY-OTHER (BURNET)							No			
К	CITY OF AUSTIN - AQUIFER STORAGE AND RECOVERY	2020	PROJECT SPONSOR(S): AUSTIN	Yes	90,000 AFY	TBD		Other	TWDB - SWIFT; TWDB - SRF; Cash; Bonds; etc.	Yes	No		Notes: (1) Sponsor is in consultant procurement process (2) Project is anticipated to be online by 2040, with further expansions planned in the future; (2) project is anticipated to continue expanding up to 2115 as needed.
	CITY OF AUSTIN - CAPTURE LOCAL INFLOWS TO								TWDB - SWIFT; TWDB - SRF; Cash;				Notes: (1) Per Austin's Water Forward Plan,
K	LADY BIRD LAKE	2020	PROJECT SPONSOR(S): AUSTIN	No	3,000 AFY		2040	Other	Bonds; etc.	Yes	No	No	this strategy is targeted to be online by 2040 Notes: (1) Direct Reuse refers to centralized
К	CITY OF AUSTIN - DIRECT REUSE	2020	PROJECT SPONSOR(S): AUSTIN	Yes	54,600 AFY	\$422M through 2115		Other	TWDB - SWIFT; TWDB - SRF; Cash; Bonds; etc.	Yes	No	No	direct non-potable reuse, or purple pipe systems; (2) this strategy is currently operating, but will continue to expand; (3) the planned maximum capacity is through the year 2115; future plans will continue to update planning horizon.
	CITY OF AUSTIN - INDIRECT POTABLE REUSE		PROJECT SPONGOVS), AUSTIN			5044	2010		TWDB - SWIFT; TWDB - SRF; Cash;				Note: (1) Project is planned to be online by 2040; (2) project would only be used in drought conditions when combined storage in
K	THROUGH LADY BIRD LAKE	2020	PROJECT SPONSOR(S): AUSTIN	No	20,000 AFY	\$91M	2040	Other	Bonds; etc.	Yes	No	NO	the Highland Lakes falls below 400,000 AF.
	CITY OF AUSTIN - LAKE AUSTIN OPERATIONS CITY OF AUSTIN - LAKE LONG ENHANCED STORAGE	2020	WMS SUPPLY RECIPIENT: AUSTIN PROJECT SPONSOR(S): AUSTIN	No	2,500 AFY	No capital costs; O&M costs only		Other	Cash - revenues	Yes	No	No	Note: (1) Project would come online as necessary to respond to drought conditions; (2) project would be used during non-peak months (OctMay) and after combined storage in the Highland Lakes is below 600,000 AF.
К	CITY OF AUSTIN - LONGHORN DAM OPERATIONS IMPROVEMENTS	2020	PROJECT SPONSOR(S): AUSTIN	Yes	3,000 AFY	Pending earlier phases This strategy was broken into several individual strategies for the 2021 planning cycle; costs are		Other	Bonds Developers/Progra m Participants; TWDB - SWIFT;	Yes	No	No	Note: (1) Project implementation is ongoing; (2) Water Forward plans for implementation to
К	CITY OF AUSTIN - OTHER REUSE	2020	PROJECT SPONSOR(S): AUSTIN	Yes	64,350 AFY in 2115	being developed for these strategies		Other	TWDB - SRF; Cash; Bonds; etc.	Yes	No	No	continue through 2115, with corresponding capacity increases.
K	CITY OF AUSTIN - RAINWATER HARVESTING	2020	PROJECT SPONSOR(S): AUSTIN	Yes	9,250 ac-ft/yr	TBD; generally to be borne b	y development with no	Other	TBD; generally funded by development with potential for cost offsets through utility incentives	Yes	No	No.	Notes: (1) This strategy has been re-evaluated as part of the 2018 Water Forward Plan; (2) this strategy is currently operating, but will continue to expand; (3) the planned maximum capacity is through the year 2115; future plans will continue to update planning horizon.
					7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		Combination of funding including TWDB SWIFT and Utility O&M and				conservation program since the 1980s and continues to advance the program, (2) Austin's Water Forward Plan includes implementation of conservation strategies through the full
К	CITY OF AUSTIN CONSERVATION	2020	PROJECT SPONSOR(S): AUSTIN	Yes	37,000 AFY	\$41M		Other	CIP	Yes	No	No	planning horizon to 2115
													Notes: Austin and LCRA have a pending joint water right permit application at TCEQ for bed and banks reuse of Austin's return flows. As part of the regional planning process, prior to the issuance of the permit and development of a project, Austin's projected return flows are a water management strategy for downstream
K	CITY OF AUSTIN RETURN FLOWS	2020	WMS SUPPLY RECIPIENT: AUSTIN WMS SUPPLY RECIPIENT: IRRIGATION,						n/a	Yes	No	No	uses.
K	CITY OF AUSTIN RETURN FLOWS	2020	MATAGORDA										

Planning		Database Online			(Phased) Ultimate vo	lume (ac- (Phased	d) Ultimate project cost	Year project reaches	What is the project funding	Funding Mechanism if		Does the project or WMS involve	Does the project or WMS provide any	
Region	WMS or WMS Project Name	Decade	Related Sponsor Entity and/or Benefitting WUGs	Is this a phased project?*	ft/yr)		(\$)	maximum capacity?*	source(s)?*	Other?	Included in 2021 plan?*	reallocation of flood control?*	measurable flood risk reduction?*	Optional Comments
K	CITY OF AUSTIN RETURN FLOWS	2020	WMS SUPPLY RECIPIENT: IRRIGATION, WHARTON WMS SUPPLY RECIPIENT: STEAM ELECTRIC											
K	CITY OF AUSTIN RETURN FLOWS	2020	POWER, MATAGORDA											
K	DEVELOPMENT OF NEW CARRIZO-WILCOX AQUIFER SUPPLIES - BASTROP	2020	PROJECT SPONSOR(S): BASTROP											
К	DEVELOPMENT OF NEW HICKORY AQUIFER SUPPLIES - LLANO	2020	PROJECT SPONSOR(S): LLANO											
	DEVELOPMENT OF NEW QUEEN CITY AQUIFER													
	SUPPLIES - BASTROP COUNTY MINING DIRECT REUSE - BUDA	2020	PROJECT SPONSOR(S): MINING (BASTROP) PROJECT SPONSOR(S): BUDA	Yes	1680 AFY			205			Yes	No		Effluent forcemain to Sunfield MUD, complete by 2022. Sunfield can take up to 1120ac-ft/yr for use in the MUD. Feasibility study underway to maximize current system use and potentially add additional storage capacity.
K	DIRECT REUSE - FLATONIA	2020	PROJECT SPONSOR(S): FLATONIA							Private funds from				
	DIRECT REUSE - HORSESHOE BAY	2020	WMS SUPPLY RECIPIENT: HORSESHOE BAY	Yes		1,344	\$1,070,000	2050	Market	Private funds from golf course	Yes	No	No	
K	DIRECT REUSE - LLANO	2020	PROJECT SPONSOR(S): LLANO	No							Yes			
K	DIRECT REUSE - MARBLE FALLS	2020	WMS SUPPLY RECIPIENT: MARBLE FALLS											Manager to a second six off at few
													_	Water reuse for irrigation already in effect for a nearby county park, with a tentative plan to distribute reused water to all city parks within the next 10 years. Any project costs or funds expended to date are currently not available
K	DIRECT REUSE - PFLUGERVILLE	2020	PROJECT SPONSOR(S): PFLUGERVILLE	Yes	n/a	n/a		2030		n/a	No	No	No	for input.
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: AQUA WSC									No	No	
- K	DIOGGIT MANAGEMENT	2020	WOO REDUCING BENIAND. AQUA WSC									110	110	
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: AUSTIN	No					Other	Revenues from customers		No	No	Project is currently online and anticipated to remain online throught the planning horizon.
			WUG REDUCING DEMAND: BARTON CREEK WEST											
K	DROUGHT MANAGEMENT	2020	WSC BENIAND: BANTON CREEK WEST											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BASTROP											
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BASTROP COUNTY WCID #2											
	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BAY CITY	No					Other	Bay City - Utility Enterprise Fund	Yes	No	No	DCP was reviewed/updated & adopted by City Council on 11/5/2019. Since plan inception in 1999 the City of Bay City has not faced drought conditions or a water demand that require implementation of drought trigger responses.
V	DROUGHT MANACEMENT	2020	MALIC REDUCING DEMAND, REE CAVE											
	DROUGHT MANAGEMENT DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BEE CAVE WUG REDUCING DEMAND: BERTRAM	No				2040	TWDB - Other	DWSRF	Yes	No	No	
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BLANCO											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BRIARCLIFF											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BUDA								Yes	No		
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: BURNET											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COLUMBUS											
ν	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COTTONWOOD SHORES											
	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, BASTROP											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, BLANCO											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, BURNET											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, COLORADO											

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	(Phased) Ultimate volume (ac-	(Phased) Ultimate project cost (\$)	Year project reaches What is the proj maximum capacity?* source(s	ect funding Funding Mecha)?* Other?		Does the project or WMS involve reallocation of flood control?*	Does the project or WMS provide any measurable flood risk reduction?*	Optional Comments
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, FAYETTE								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, GILLESPIE								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, HAYS								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, LLANO								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, MATAGORDA								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, MILLS								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, SAN SABA								
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: COUNTY-OTHER, WHARTON								Drought contingency plan has been adopted by the WSC; steps will be implemented once
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: CREEDMOOR-MAHA WSC	No		2025 TWDB - Other		Yes	No	No	triggers are reached. While plan will not create new water, it will postpone need to find new sources/supply.
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: DRIPPING SPRINGS								The DSWSC Drought Contingency Plan is currently being revised with help from the
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: DRIPPING SPRINGS WSC								LCRA. DSWSC staff will be presenting a draft copy to the Board of Directors for their review and approval.
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: EAGLE LAKE								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: EAST BERNARD								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: ELGIN								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: FAYETTE WSC	No		2025 Commercial/Ba	ink loan	Yes	No	No	
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: FLATONIA								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: FREDERICKSBURG								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: GOLDTHWAITE								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: GRANITE SHOALS								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: HORSESHOE BAY			Other		Yes	No	No	
	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: IRRIGATION, COLORADO								
	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: IRRIGATION, MATAGORDA								
	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: IRRIGATION, MILLS								
	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: IRRIGATION, WHARTON								
	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: JOHNSON CITY								
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: JONESTOWN								
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: KINGSLAND WSC								

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs Is	this a phased project?*	(Phased) Ultimate volume (ac- ft/yr)	- (Phased) Ultimate project cost (\$)	Year project reaches maximum capacity?*	What is the project funding source(s)?*	Funding Mechanism if Other?	Included in 2021 plan?*	Does the project or WMS involve reallocation of flood control?*	Does the project or WMS provide any measurable flood risk reduction?*	Optional Comments
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LA GRANGE										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LAGO VISTA										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LAKEWAY										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LLANO No							Yes			
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LOOP 360 WSC										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: LOST CREEK MUD										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: MANOR										During the most recent drought of record in 2011, Manville implemented stage II, twice a
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: MANVILLE WSC										week outside watering water restrictions on July 1, 2011.
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: MARBLE FALLS										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: MEADOWLAKES										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: NORTH AUSTIN MUD #1										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: NORTHTOWN MUD										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: PALACIOS										"Year Project is online" is actually 2006 but
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: PFLUGERVILLE Yes		n/a	n/a	2070		n/a	Yes	No		year not available in drop-down option, used earliest provided. Any project costs or funds expended to date are currently not available for input.
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: POINT VENTURE										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: ROLLINGWOOD										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SAN SABA										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SCHULENBURG										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SHADY HOLLOW MUD										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SMITHVILLE No				2070	Other	Utility Fund	Yes		Potentially, but no technical flood analysis performed	
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SUNRISE BEACH VILLAGE										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: SUNSET VALLEY										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: THE HILLS										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: TRAVIS COUNTY MUD #4										
K	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: TRAVIS COUNTY WCID #10										
К	DROUGHT MANAGEMENT		WUG REDUCING DEMAND: TRAVIS COUNTY WCID #17										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: TRAVIS COUNTY WCID #18										
К	DROUGHT MANAGEMENT		WUG REDUCING DEMAND: TRAVIS COUNTY WCID #19										

Planning		Database Online				(Phased) Ultimate project cost		What is the project funding			Does the project or WMS involve	Does the project or WMS provide any	
Region	WMS or WMS Project Name	Decade		s this a phased project?*	ft/yr)	(\$)	maximum capacity?*	source(s)?*	Other?	Included in 2021 plan?*	reallocation of flood control?*	measurable flood risk reduction?*	Optional Comments
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: TRAVIS COUNTY WCID #20										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: VOLENTE										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: WEIMAR										
		2020											
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: WELLS BRANCH MUD										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: WEST LAKE HILLS										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY										
K	DROUGHT WANAGEWENT	2020	POBLIC OTILITY AGENCY										
К	DROUGHT MANAGEMENT	2020	WUG REDUCING DEMAND: WHARTON										
К	DROUGHT MANAGEMENT - MOUNTAIN CITY	2020	WUG REDUCING DEMAND: MOUNTAIN CITY										
	EAST LAKE BUCHANAN REGIONAL PROJECT	2020	PROJECT SPONSOR(S): COUNTY-OTHER (BURNET)										
	EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES												Added 1200 gpm Behrend Well to McDade
К	- AQUA WSC EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES	2020	PROJECT SPONSOR(S): AQUA WSC PROJECT SPONSOR(S): MANUFACTURING							Yes			Well Field
K	- BASTROP COUNTY MANUFACTURING EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES	2020	(BASTROP) PROJECT SPONSOR(S): COUNTY-OTHER										
K	- BASTROP COUNTY-OTHER EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES	2020	(BASTROP)										
К	- ELGIN	2020	PROJECT SPONSOR(S): ELGIN						Any combination				
К	EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES - LCRA	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY	;	25,000 AFY	\$46,629,000		Other	of funding sources listed.	Yes	No	No	Year project reaches maximum capacity will depend on demand
	EXPANSION OF ELLENBURGER-SAN SABA AQUIFER												
К	SUPPLIES - BERTRAM EXPANSION OF ELLENBURGER-SAN SABA AQUIFER	2020	PROJECT SPONSOR(S): BERTRAM Yes	i	2,000 AFY	\$16,345,000		TWDB - Other	DWSRF	Yes	No	No	
К	SUPPLIES - BURNET COUNTY MINING	2020	PROJECT SPONSOR(S): MINING (BURNET)										
К	EXPANSION OF ELLENBURGER-SAN SABA AQUIFER SUPPLIES - GILLESPIE COUNTY MANUFACTURING	2020	PROJECT SPONSOR(S): MANUFACTURING (GILLESPIE)										
	EXPANSION OF ELLENBURGER-SAN SABA AQUIFER SUPPLIES - JOHNSON CITY	2020	PROJECT SPONSOR(S): JOHNSON CITY										
	EXPANSION OF GULF COAST AQUIFER SUPPLIES -		PROJECT SPONSOR(S): COUNTY-OTHER										
К	COLORADO COUNTY-OTHER EXPANSION OF GULF COAST AQUIFER SUPPLIES -	2020	(COLORADO) PROJECT SPONSOR(S): MANUFACTURING										
K	FAYETTE COUNTY MANUFACTURING EXPANSION OF GULF COAST AQUIFER SUPPLIES -	2020	(FAYETTE)										
К	FAYETTE COUNTY MINING EXPANSION OF GULF COAST AQUIFER SUPPLIES -	2020	PROJECT SPONSOR(S): MINING (FAYETTE) PROJECT SPONSOR(S): COUNTY-OTHER										
К	FAYETTE COUNTY-OTHER	2020	(FAYETTE)										
К	EXPANSION OF GULF COAST AQUIFER SUPPLIES - FLATONIA	2020	PROJECT SPONSOR(S): FLATONIA										
К	EXPANSION OF SPARTA AQUIFER SUPPLIES - FAYETTE COUNTY MINING	2020	PROJECT SPONSOR(S): MINING (FAYETTE)										
К	EXPANSION OF TRINITY AQUIFER SUPPLIES - HAYS COUNTY MINING	2020	PROJECT SPONSOR(S): MINING (HAYS)										
К	EXPANSION OF TRINITY AQUIFER SUPPLIES - LAKEWAY	2020	PROJECT SPONSOR(S): LAKEWAY										
	EXPANSION OF TRINITY AQUIFER SUPPLIES - MILLS COUNTY IRRIGATION	2020	PROJECT SPONSOR(S): IRRIGATION (MILLS)										
N.		2020	PROJECT SPONSOR(S): IRRIGATION (COLORADO);										
К	IRRIGATION CONSERVATION - ON FARM	2020	IRRIGATION (MATAGORDA); IRRIGATION (WHARTON)										
			PROJECT SPONSOR(S): IRRIGATION (COLORADO); IRRIGATION (MATAGORDA); IRRIGATION										
K	IRRIGATION CONSERVATION - SPRINKLER	2020	(WHARTON) PROJECT SPONSOR(S): IRRIGATION (COLORADO);										
К	IRRIGATION OPERATIONS CONVEYANCE IMPROVEMENTS	2020	IRRIGATION (MATAGORDA); IRRIGATION (WHARTON)										
			PROJECT SPONSOR(S): LOWER COLORADO RIVER						Any combination of funding sources				Water rights will be acquired as they become
К	LCRA - ACQUIRE ADDITIONAL WATER RIGHTS	2020	AUTHORITY Yes	i	25,000	0 \$125,000		Other	listed.	Yes	No	No	available at a suitable cost.
			DROJECT CRONCOR(S), LOWER COLORADO RIVER						Customes				Drainst will some online
К	LCRA - CONTRACT AMENDMENTS	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY Yes	;	39,466	6 \$151/AF		Other	Customer project revenue	Yes	No	No	Project will come online as needed by customers
	LCRA - ENHANCED MUNICIPAL AND INDUSTRIAL		PROJECT SPONSOR(S): LOWER COLORADO RIVER						General revenue				This references the 2019 LCRA WCP, which is
К	CONSERVATION	2020	AUTHORITY		20,000	0	2050	Other	from water rates Any combination	Yes	No	No	updated every five years. If an existing OCR site is chosen, and
К	LCRA - EXCESS FLOWS PERMIT OFF-CHANNEL RESERVOIR	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY					Other	of funding sources listed.	Yes		Potentially, but no technical flood analysis performed	permitting is successful, then project could be online before 2030.
.,		_02.0	,		l .	1	<u> </u>			1	u -	, , p	1

Dlanning		Database Online			(Phased) Ultimate volume (as	(Phacod) Ultimate project cost	Voor project reaches What is the project funding	g Funding Machanism if		Door the project or WMS involve	Door the project or WMS provide any	
Planning Region	WMS or WMS Project Name	Decade	Related Sponsor Entity and/or Benefitting WUGs	Is this a phased project?*	ft/yr)	- (Phased) Ultimate project cost (\$)	Year project reaches What is the project funding source(s)?*	Other?	Included in 2021 plan?*	Does the project or WMS involve reallocation of flood control?*	Does the project or WMS provide any measurable flood risk reduction?*	Optional Comments
К	LCRA - GROUNDWATER SUPPLY FOR FPP (OFF-SITE)	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER AUTHORITY						No			LCRA is no longer recommending this alternative
	ECHA GROONDWATER SOFTET FORTH (OTT SITE)	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER						No			LCRA is no longer recommending this
K	LCRA - GROUNDWATER SUPPLY FOR FPP (ON-SITE)	2020	AUTHORITY WMS SELLER: LOWER COLORADO RIVER						No			alternative
	LCRA - INTERRUPTIBLE WATER FOR AGRICULTURE		AUTHORITY; WMS SUPPLY RECIPIENT:									
K	(LCRA WMP AMENDMENTS)	2020	IRRIGATION, COLORADO									
	LCRA - INTERRUPTIBLE WATER FOR AGRICULTURE		WMS SELLER: LOWER COLORADO RIVER AUTHORITY; WMS SUPPLY RECIPIENT:									
K	(LCRA WMP AMENDMENTS)	2020	IRRIGATION, MATAGORDA									
	LCRA - INTERRUPTIBLE WATER FOR AGRICULTURE		WMS SELLER: LOWER COLORADO RIVER AUTHORITY; WMS SUPPLY RECIPIENT:									
K	(LCRA WMP AMENDMENTS)	2020	IRRIGATION, WHARTON									
	LCDA LANE CITY OFF CHANNEL DECEDVOID	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER									
К	LCRA - LANE CITY OFF-CHANNEL RESERVOIR	2020	AUTHORITY					Any combination				
			PROJECT SPONSOR(S): LOWER COLORADO RIVER					of funding sources				
K	LCRA - MID-BASIN OFF-CHANNEL RESERVOIR	2020	PROJECT SPONSOR(S): LOWER COLORADO RIVER	No			2030 Other	listed.	Yes			
K	LCRA - NEW LCRA CONTRACTS	2020		No					Yes	No	No	New contracts will be entered as needed.
			PROJECT CRONICOD(C). COTTONINGOD CHORES									
К	MARBLE FALLS REGIONAL PROJECT	2020	PROJECT SPONSOR(S): COTTONWOOD SHORES; COUNTY-OTHER (BURNET); MARBLE FALLS									
	MUNICIPAL CONSERVATION - AQUA WSC	2020	PROJECT SPONSOR(S): AQUA WSC								No	
.,	MUNICIPAL CONSERVATION - BARTON CREEK WEST	2025	PROJECT SPONSOR(S): BARTON CREEK WEST									
K K	WSC MUNICIPAL CONSERVATION - BASTROP	2020	PROJECT SPONSOR(S): BASTROP		1				1			
Λ.	MUNICIPAL CONSERVATION - BASTROP MUNICIPAL CONSERVATION - BASTROP COUNTY	2020	PROJECT SPONSOR(S): COUNTY-OTHER		+							
K	OTHER	2020	(BASTROP)		1							
												Council on 11/5/2019. Water saving target
												achieved in 2019 for the residential class via
												capital measures (replace aging waterlines & install AMI) & outreach/education. Future
								Bay City - Utility				efforts will target commercial & institutional
K	MUNICIPAL CONSERVATION - BAY CITY	2020	(1)	No			Other	Enterprise Fund	No	No	No	classes.
	MUNICIPAL CONSERVATION - BEE CAVE VILLAGE	2020	PROJECT SPONSOR(S): BEE CAVE		00.45%	4400.000	2050 011					
	MUNICIPAL CONSERVATION - BERTRAM MUNICIPAL CONSERVATION - BLANCO	2020	PROJECT SPONSOR(S): BERTRAM PROJECT SPONSOR(S): BLANCO	Yes	80 AFY	\$130,000	2060 Other	Rates and Fees	Yes	No	No	
I.	mornen / L constitution States	2020	These states (s). Be the									also had a look datastian aurious performed on
												also had a leak detection survey performed on part of the system, and will continue with
												more sections in the future along with other
												programs outlined in the WCP updated in
	MUNICIPAL CONSERVATION - BUDA	2020	PROJECT SPONSOR(S): BUDA				2020 Commercial/Bank Ioan		Yes	No		2019.
К	MUNICIPAL CONSERVATION - BURNET MUNICIPAL CONSERVATION - BURNET COUNTY-	2020	PROJECT SPONSOR(S): BURNET									
K	OTHER	2020	PROJECT SPONSOR(S): COUNTY-OTHER (BURNET)									
	MALINICIDAL CONSEDVATION, CEDAD DADK	2020	DDOLECT CDONCOD(C), CEDAD DADK	NI-			2040 045	Calf now and Dands	V	N-	No	
	MUNICIPAL CONSERVATION - CEDAR PARK MUNICIPAL CONSERVATION - COLUMBUS	2020	PROJECT SPONSOR(S): CEDAR PARK PROJECT SPONSOR(S): COLUMBUS	NO			2040 Other	Self pay and Bonds	res	No	NO .	
	MUNICIPAL CONSERVATION - COTTONWOOD											
K	SHORES	2020	PROJECT SPONSOR(S): COTTONWOOD SHORES									
K	MUNICIPAL CONSERVATION - DRIPPING SPRINGS	2020	PROJECT SPONSOR(S): DRIPPING SPRINGS									
												DSWSC staff is currently revising and updating
	MUNICIPAL CONSERVATION - DRIPPING SPRINGS											the WCP with help from the LCRA. A draft copy is planned to be reviewed and approved
	WSC	2020	PROJECT SPONSOR(S): DRIPPING SPRINGS WSC		1							by the DSWSC Board of Directors.
	MUNICIPAL CONSERVATION - EAST BERNARD	2020	PROJECT SPONSOR(S): EAST BERNARD									
	MUNICIPAL CONSERVATION - FLATONIA MUNICIPAL CONSERVATION - FREDERICKSBURG	2020	PROJECT SPONSOR(S): FLATONIA PROJECT SPONSOR(S): FREDERICKSBURG		-							
	MUNICIPAL CONSERVATION - TREBERICESSORIC MUNICIPAL CONSERVATION - GOLDTHWAITE	2020	PROJECT SPONSOR(S): FREDERICKSBORG PROJECT SPONSOR(S): GOLDTHWAITE									
								Linitia.				
К	MUNICIPAL CONSERVATION - HORSESHOE BAY	2020	PROJECT SPONSOR(S): HORSESHOE BAY	No			2040 Other	Utility rates of customers	Yes	No	No	
	MUNICIPAL CONSERVATION - HORSESHOE BAT	2020	PROJECT SPONSOR(S): JOHNSON CITY				2040 Other	customers				
K	MUNICIPAL CONSERVATION - JONESTOWN	2020	PROJECT SPONSOR(S): JONESTOWN									
	MUNICIPAL CONSERVATION - LA GRANGE	2020	PROJECT SPONSOR(S): LA GRANGE		1				1			
	MUNICIPAL CONSERVATION - LAGO VISTA MUNICIPAL CONSERVATION - LAKEWAY	2020 2020	PROJECT SPONSOR(S): LAGO VISTA PROJECT SPONSOR(S): LAKEWAY		+							
					1							
K	MUNICIPAL CONSERVATION - LLANO	2020	PROJECT SPONSOR(S): LLANO		1				Yes			
	MUNICIPAL CONSERVATION - LOOP 360 MUNICIPAL CONSERVATION - LOST CREEK MUD	2020 2020	PROJECT SPONSOR(S): LOOP 360 WSC PROJECT SPONSOR(S): LOST CREEK MUD		+				 			
K	MUNICIPAL CONSERVATION - MARBLE FALLS	2020	PROJECT SPONSOR(S): MARBLE FALLS									
K	MUNICIPAL CONSERVATION - MEADOWLAKES	2020	PROJECT SPONSOR(S): MEADOWLAKES		1				<u> </u>			Advanced Metering Infractives and the
												Advanced Metering Infrastructure - not yet implemented. Any project costs or funds
					i .	i l						expended to date are currently not available
К	MUNICIPAL CONSERVATION - PFLUGERVILLE	2020	PROJECT SPONSOR(S): PFLUGERVILLE		n/a	n/a	2025	n/a	Yes	No	No	for input.
K K	MUNICIPAL CONSERVATION - PFLUGERVILLE MUNICIPAL CONSERVATION - POINT VENTURE	2020	PROJECT SPONSOR(S): POINT VENTURE		n/a	n/a	2025	n/a	Yes	No	No	for input.
K K K	MUNICIPAL CONSERVATION - PFLUGERVILLE				n/a	n/a	2025	n/a	Yes	No .	No	for input.
К К К	MUNICIPAL CONSERVATION - PFLUGERVILLE MUNICIPAL CONSERVATION - POINT VENTURE MUNICIPAL CONSERVATION - ROLLINGWOOD MUNICIPAL CONSERVATION - ROUND ROCK	2020 2020 2020	PROJECT SPONSOR(S): POINT VENTURE PROJECT SPONSOR(S): ROLLINGWOOD PROJECT SPONSOR(S): ROUND ROCK		n/a	n/a	2025	n/a	Yes	No	No	for input.
K K K	MUNICIPAL CONSERVATION - PFLUGERVILLE MUNICIPAL CONSERVATION - POINT VENTURE MUNICIPAL CONSERVATION - ROLLINGWOOD	2020 2020	PROJECT SPONSOR(S): POINT VENTURE PROJECT SPONSOR(S): ROLLINGWOOD		n/a	n/a	2025	n/a	Yes	No	No	for input.

Planning	NAME OF THE POST O	Database Online				c- (Phased) Ultimate project cost		What is the project funding		to do do dia 2004 alon 24	Does the project or WMS involve	Does the project or WMS provide any	0.1510
Region	WMS or WMS Project Name	Decade	Related Sponsor Entity and/or Benefitting WUGs	Is this a phased project?*	ft/yr)	(\$)	maximum capacity?*	source(s)?*	Other?	Included in 2021 plan?*	reallocation of flood control?*	measurable flood risk reduction?*	Optional Comments
K	MUNICIPAL CONSERVATION - SHADY HOLLOW MUD	2020	PROJECT SPONSOR(S): SHADY HOLLOW MUD						Qualified Energy				
K	MUNICIPAL CONSERVATION - SMITHVILLE	2020	PROJECT SPONSOR(S): SMITHVILLE	No			207	O Other	Conservation Bonds	Yes		Yes, flood risk study confirmed benefits	
K	MUNICIPAL CONSERVATION - SUNSET VALLEY	2020	PROJECT SPONSOR(S): SUNSET VALLEY				207	o other		163			
K	MUNICIPAL CONSERVATION - THE HILLS MUNICIPAL CONSERVATION - TRAVIS COUNTY MUD	2020	PROJECT SPONSOR(S): THE HILLS										
K	#4	2020	PROJECT SPONSOR(S): TRAVIS COUNTY MUD #4										
K	MUNICIPAL CONSERVATION - TRAVIS COUNTY WCID #10	2020	PROJECT SPONSOR(S): TRAVIS COUNTY WCID #10										
K	MUNICIPAL CONSERVATION - TRAVIS COUNTY WCID #17	2020	PROJECT SPONSOR(S): TRAVIS COUNTY WCID #17										
К	MUNICIPAL CONSERVATION - TRAVIS COUNTY WCID #18	2020	PROJECT SPONSOR(S): TRAVIS COUNTY WCID #18										
	MUNICIPAL CONSERVATION - TRAVIS COUNTY WCID #19	2020	PROJECT SPONSOR(S): TRAVIS COUNTY WCID #19										
	MUNICIPAL CONSERVATION - TRAVIS COUNTY WCID												
K K	#20 MUNICIPAL CONSERVATION - WEIMAR	2020 2020	PROJECT SPONSOR(S): TRAVIS COUNTY WCID #20 PROJECT SPONSOR(S): WEIMAR										
	MUNICIPAL CONSERVATION - WEST LAKE HILLS	2020	PROJECT SPONSOR(S): WEST LAKE HILLS										
К	MUNICIPAL CONSERVATION - WEST TRAVIS COUNTY PUA	2020	PROJECT SPONSOR(S): WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY										
	MUNICIPAL CONSERVATION - WHARTON	2020	PROJECT SPONSOR(S): WHARTON										
K	NEW SURFACE WATER INFRASTRUCTURE - VOLENTE	2020	PROJECT SPONSOR(S): VOLENTE										
K	URGENT WATER LOSS REDUCTION PROJECT - CMWSC	2020	PROJECT SPONSOR(S): CREEDMOOR-MAHA WSC	No			202	5 TWDB - Other			No	No	
									Current project is funded from				
									Certificate of				
			PROJECT SPONSOR(S): BUDA; COUNTY-OTHER						Obligation Utility Bond, options				
			(HAYS); MINING (HAYS); MOUNTAIN CITY;						being explored for				
K	BS/EACD EDWARDS / MIDDLE TRINITY ASR	2030	SUNSET VALLEY	Yes	~600 AFY	\$7,750,000	203	Other	future phases	Yes	No	No	otoling it con carrains in the same carrains is
													not an option Buda will pursue since we can store in the Trinity Aquifer. A feasibility study
													desalinating Saline Edwards and having an ASR
			PROJECT SPONSOR(S): BUDA; COUNTY-OTHER										component to keep plant size efficient is a possible option for Buda, and I think the
K	BS/EACD SALINE EDWARDS ASR	2030	(HAYS); CREEDMOOR-MAHA WSC							Yes	No	No	original intent of this WMS.
K	EXPANSION OF HICKORY AQUIFER SUPPLIES - BURNET COUNTY MINING	2030	PROJECT SPONSOR(S): MINING (BURNET)										
	EXPANSION OF TRINITY AQUIFER SUPPLIES - MANOR	2030											
N.	IVIANOR	2030	PROJECT SPONSOR(S): MANOR										conversation with the DSWSC Board of
			PROJECT SPONSOR(S): WEST TRAVIS COUNTY										Directors as well as with DSWSC staff
K	HAYS COUNTY PIPELINE - REGION K PORTION	2030	PUBLIC UTILITY AGENCY; COUNTY-OTHER (HAYS); DRIPPING SPRINGS WSC										members. At this time, no action has been taken.
K	THATS COONTY FIFEEINE - REGION R FORTION	2030	PROJECT SPONSOR(S): LOWER COLORADO RIVER										LONGII.
	LCRA - PRAIRIE SITE OFF-CHANNEL RESERVOIR	2030 2030	AUTHORITY PROJECT SPONSOR(S): ELGIN										
K	NEW SURFACE WATER INFRASTRUCTURE - ELGIN	2030	PROJECT SPONSOR(S): ELGIN										
K	WATER PURCHASE	2030	WMS SELLER: DRIPPING SPRINGS WSC; WMS SUPPLY RECIPIENT: DRIPPING SPRINGS										Currently there is no purchase contract with the City of Dripping Springs and DSWSC.
	CITY OF AUSTIN RETURN FLOWS DEVELOPMENT OF NEW CARRIZO-WILCOX AQUIFER	2040	WMS SUPPLY RECIPIENT: IRRIGATION, COLORADO										
K	SUPPLIES - BASTROP COUNTY MINING DEVELOPMENT OF NEW TRINITY AQUIFER SUPPLIES -	2040	PROJECT SPONSOR(S): MINING (BASTROP)										
K	SUNSET VALLEY	2040	PROJECT SPONSOR(S): SUNSET VALLEY										
K	DIRECT REUSE - BASTROP	2040	PROJECT SPONSOR(S): BASTROP WMS SELLER: BUDA; WMS SUPPLY RECIPIENT:										
K	DIRECT REUSE - BUDA EXPANSION OF EDWARDS (BFZ) AQUIFER SUPPLIES -	2040	MINING, HAYS										There are currently no expansion plans for
К	PFLUGERVILLE	2040	PROJECT SPONSOR(S): PFLUGERVILLE		n/a	n/a				Yes			Groundwater supplies.
K	NEW SURFACE WATER INFRASTRUCTURE - AQUA WSC	2040	PROJECT SPONSOR(S): AQUA WSC			<u> </u>							
К	EXPANSION OF ELLENBURGER-SAN SABA AQUIFER SUPPLIES - BLANCO COUNTY-OTHER	2050	PROJECT SPONSOR(S): COUNTY-OTHER (BLANCO)										
	EXPANSION OF HICKORY AQUIFER SUPPLIES -												
K	BLANCO COUNTY-OTHER EXPANSION OF TRINITY AQUIFER SUPPLIES -	2050	PROJECT SPONSOR(S): COUNTY-OTHER (BLANCO)										Current not applicable as the MWSC plan is for
K	MANVILLE WSC	2050	PROJECT SPONSOR(S): MANVILLE WSC			1							water expansion in 2050.
K	NEW SURFACE WATER INFRASTRUCTURE - BASTROP	2050	PROJECT SPONSOR(S): BASTROP										
K	DEVELOPMENT OF NEW GULF COAST AQUIFER SUPPLIES - WHARTON COUNTY STEAM-ELECTRIC	2060	PROJECT SPONSOR(S): STEAM ELECTRIC POWER (WHARTON)										
	EXPANSION OF CARRIZO-WILCOX AQUIFER SUPPLIES		PROJECT SPONSOR(S): BASTROP COUNTY WCID			1							
K	- BASTROP COUNTY WCID #2 EXPANSION OF MARBLE FALLS AQUIFER SUPPLIES -	2060	#2										
K	BURNET COUNTY MINING	2060	PROJECT SPONSOR(S): MINING (BURNET)			1							
	DEVELOPMENT OF NEW QUEEN CITY AQUIFER	2070	PROJECT SPONSOR(S): SMITHVILLE										
K	SUPPLIES - SMITHVILLE						i .	ii	1		1	I .	1

		Database											
Planning		Online			(Phased) Ultimate volume (ac-	(Phased) Ultimate project cost	Year project reaches	What is the project funding	Funding Mechanism if		Does the project or WMS involve	Does the project or WMS provide any	
Region	WMS or WMS Project Name	Decade	Related Sponsor Entity and/or Benefitting WUGs	Is this a phased project?*	ft/yr)	(\$)	maximum capacity?*	source(s)?*	Other?	Included in 2021 plan?*	reallocation of flood control?*	measurable flood risk reduction?*	Optional Comments
													I
к	MUNICIPAL WATER CONSERVATION (RURAL)	2070	WUG REDUCING DEMAND: MOUNTAIN CITY										ı

Appendix 11A

2021 LCRWPG WATER PLAN

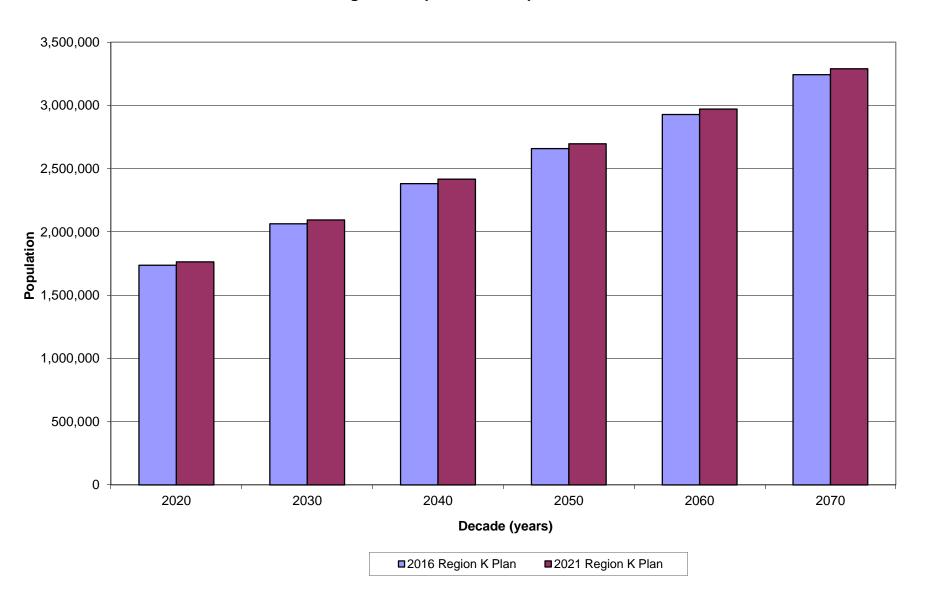
APPENDIX 11B

COMPARISON TABLES AND GRAPHS FOR POPULATION AND DEMAND PROJECTIONS

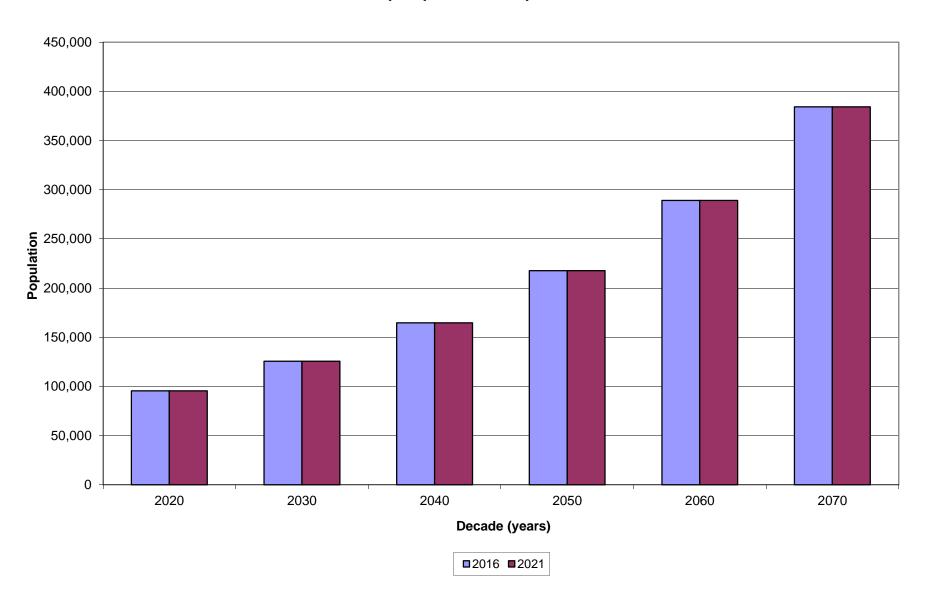
RWP 2020		2030 2040		2050	2060	2070						
	•		Region K									
2021	1,762,591	2,094,664	2,416,725	2,697,306	2,971,155	3,290,477						
2016	1,737,227	2,064,522	2,381,949	2,658,492	2,928,400	3,243,127						
Difference	Difference 25,364 30,142		34,776	38,814	42,755	47,350						
% Change	1.5	1.5	1.5	1.5	1.5	1.5						
			Bastrop									
2021	95,487	125,559	164,648	217,608	289,140	384,244						
2016	95,487	125,559	164,648	217,608	289,140	384,244						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
Blanco												
2021	13,015	15,475	16,917	17,672	18,175	18,472						
2016	13,015	15,475	16,917	17,672	18,175	18,472						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
			Burnet									
2021	53,114	64,268	73,673	82,668	90,571	97,426						
2016	53,114	64,268	73,673	82,668	90,571	97,426						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
	Colorado											
2021	21,884	22,836	23,544	24,582	25,449	26,293						
2016	21,884	22,836	23,544	24,582	25,449	26,293						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
			Fayette									
2021	28,373	32,384	35,108	37,351	39,119	40,476						
2016	28,373	32,384	35,108	37,351	39,119	40,476						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
			Gillespie									
2021	26,795	28,852	30,548	32,536	34,365	36,142						
2016	26,795	28,852	30,548	32,536	34,365	36,142						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
Hays												
2021	55,584	73,243	94,747	121,629	152,007	186,579						
2016	55,584	73,243	94,747	121,629	152,007	186,579						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						

RWP 2020		2030 2040		2050	2060	2070						
Llano												
2021	21,291	22,453	22,422	22,035	22,779	23,549						
2016	21,291	22,453	22,422	22,035	22,779	23,549						
Difference 0		0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
		I	Matagorda									
2021	39,166	41,226	42,548	43,570	44,296	44,815						
2016	39,166	41,226	42,548	43,570	44,296	44,815						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
	Mills											
2021	4,912	5,076	5,213	5,417	5,625	5,859						
2016	4,912	5,076	5,213	5,417	5,625	5,859						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
San Saba												
2021	6,484	6,793	6,833	6,722	6,879	7,039						
2016	6,484	6,793	6,833	6,722	6,879	7,039						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
Travis												
2021	1,298,624	1,538,784	1,767,636	1,936,583	2,075,875	2,233,259						
2016	1,273,260	1,508,642	1,732,860	1,897,769	2,033,120	2,185,909						
Difference	25,364	30,142	34,776	38,814	42,755	47,350						
% Change	2.0	2.0	2.0	2.0	2.1	2.2						
			Wharton									
2021	27,184	28,928	30,322	31,529	32,643	33,629						
2016	27,184	28,928	30,322	31,529	32,643	33,629						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						
Williamson												
2021	70,678	88,787	102,566	117,404	134,232	152,695						
2016	70,678	88,787	102,566	117,404	134,232	152,695						
Difference	0	0	0	0	0	0						
% Change	0.0	0.0	0.0	0.0	0.0	0.0						

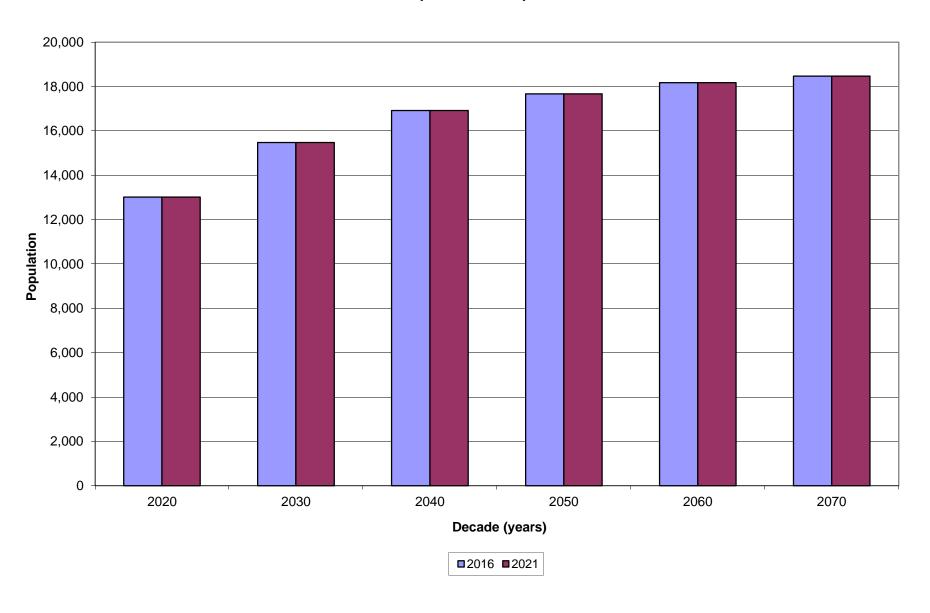
Region K Population Comparison



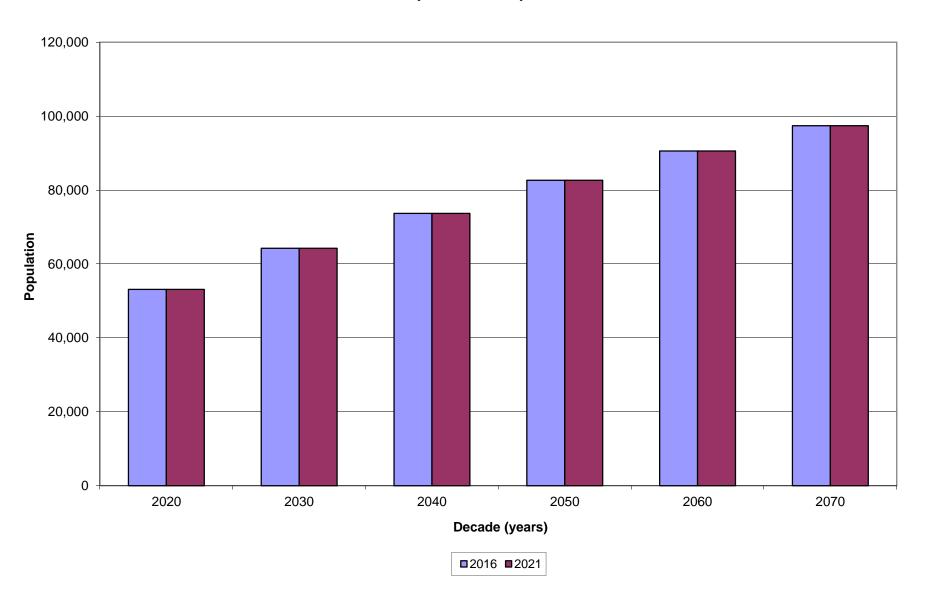
Bastrop Population Comparison



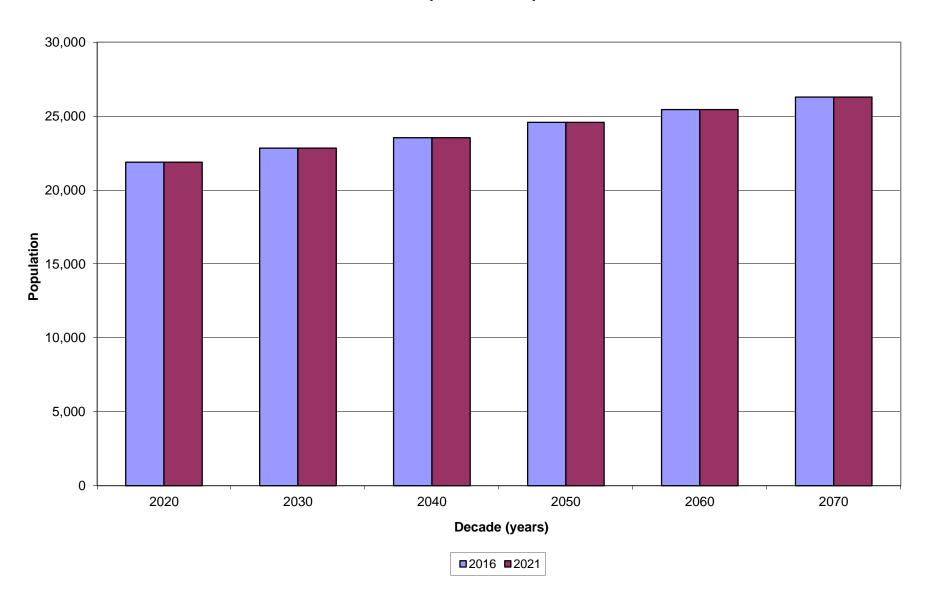
Blanco Population Comparison



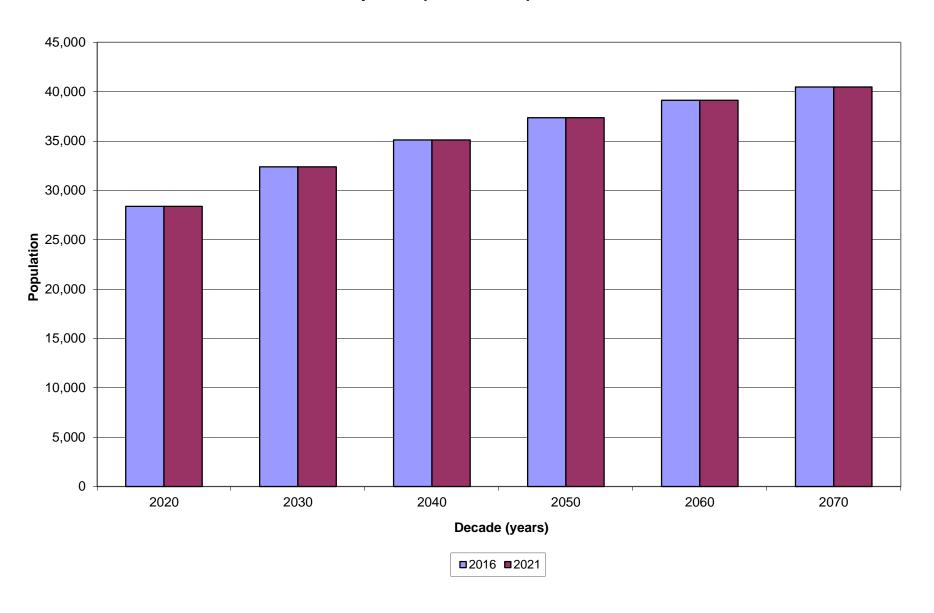
Burnet Population Comparison



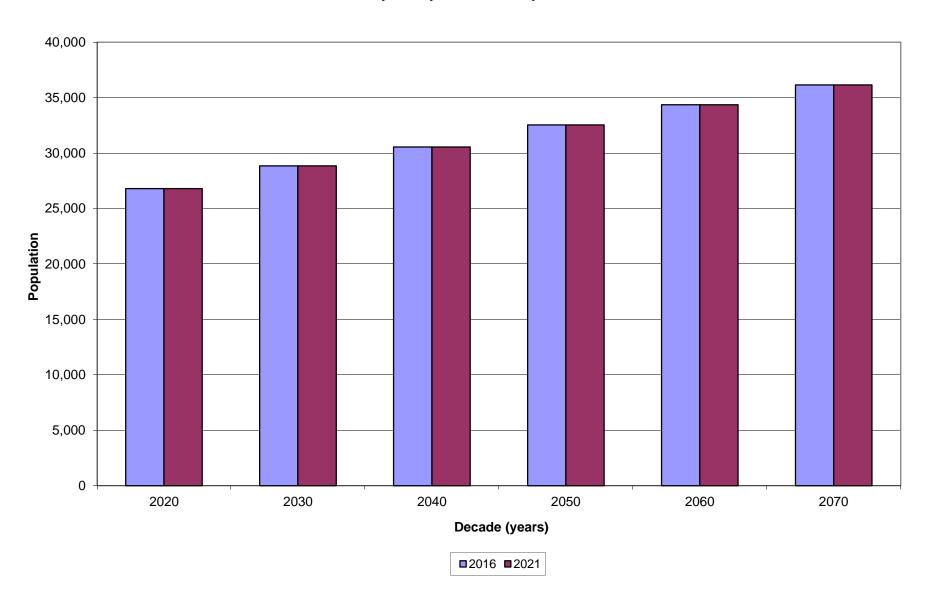
Colorado Population Comparison



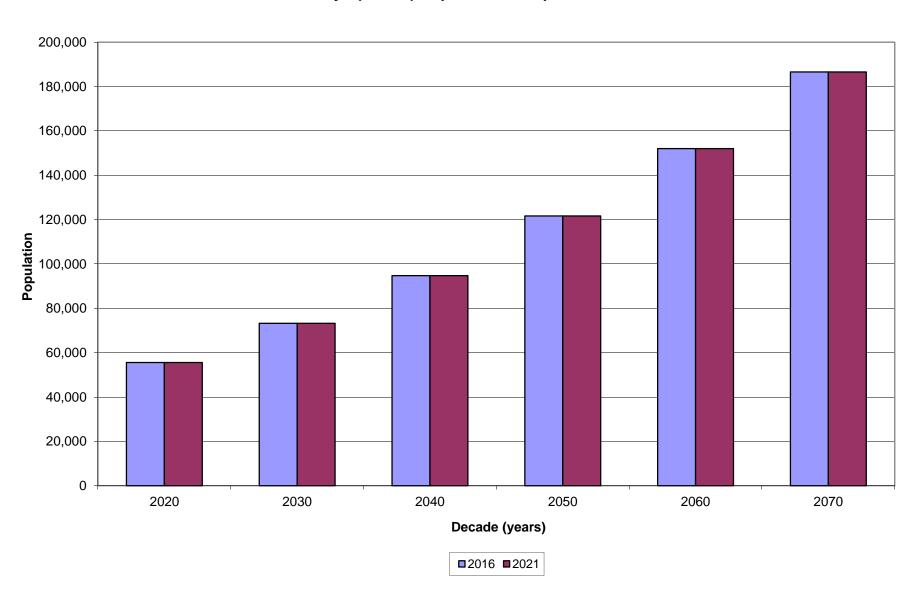
Fayette Population Comparison



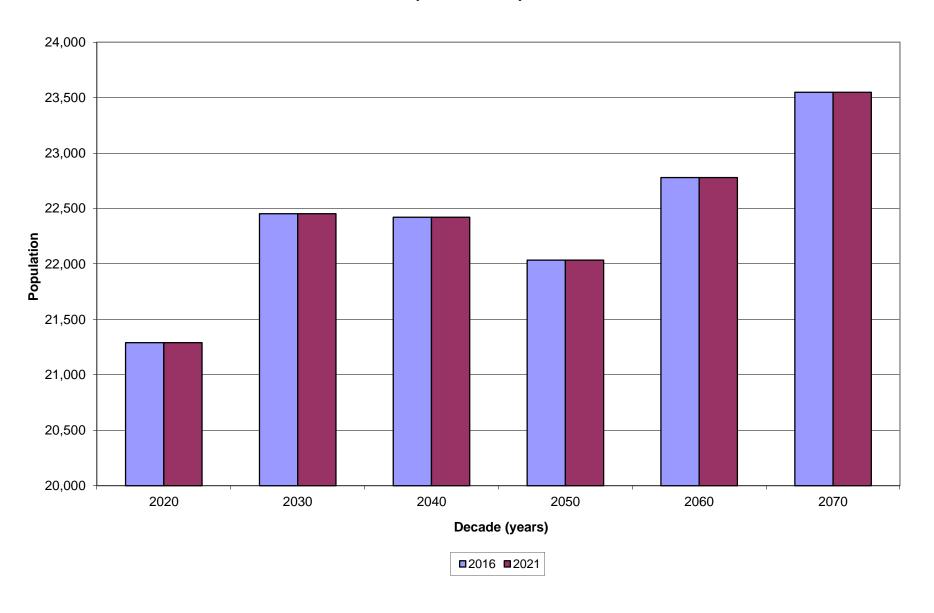
Gillespie Population Comparison



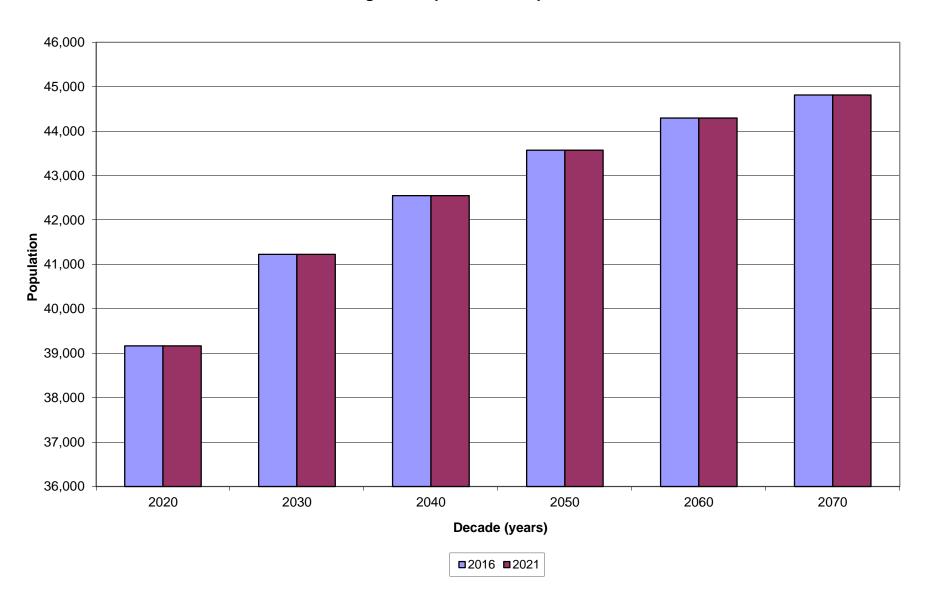
Hays (Partial) Population Comparison



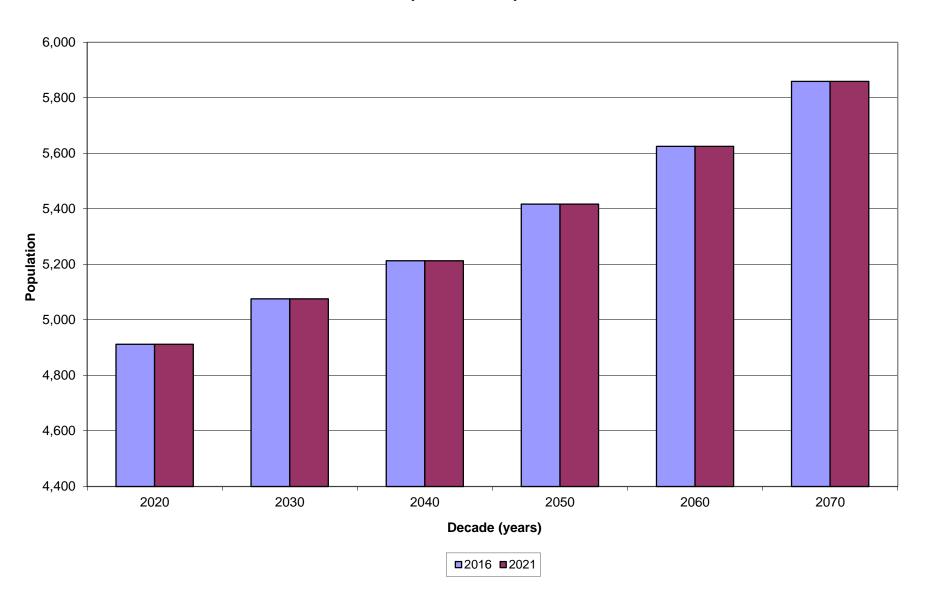
Llano Population Comparison



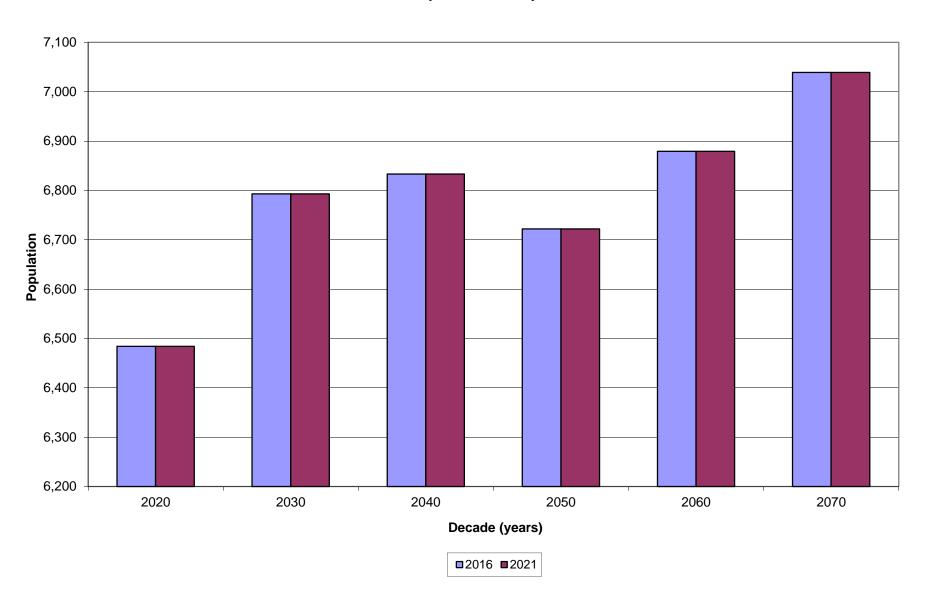
Matagorda Population Comparison



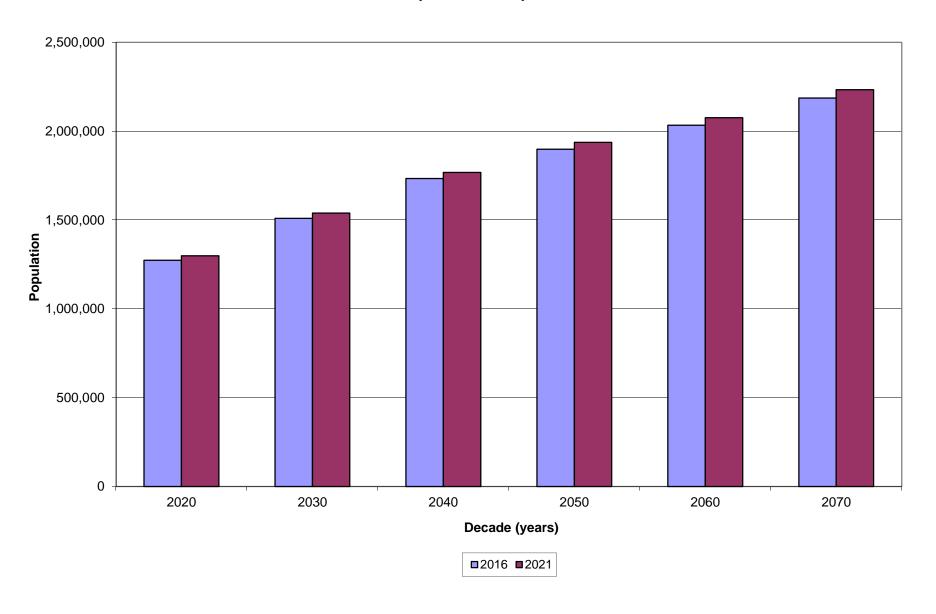
Mills Population Comparison



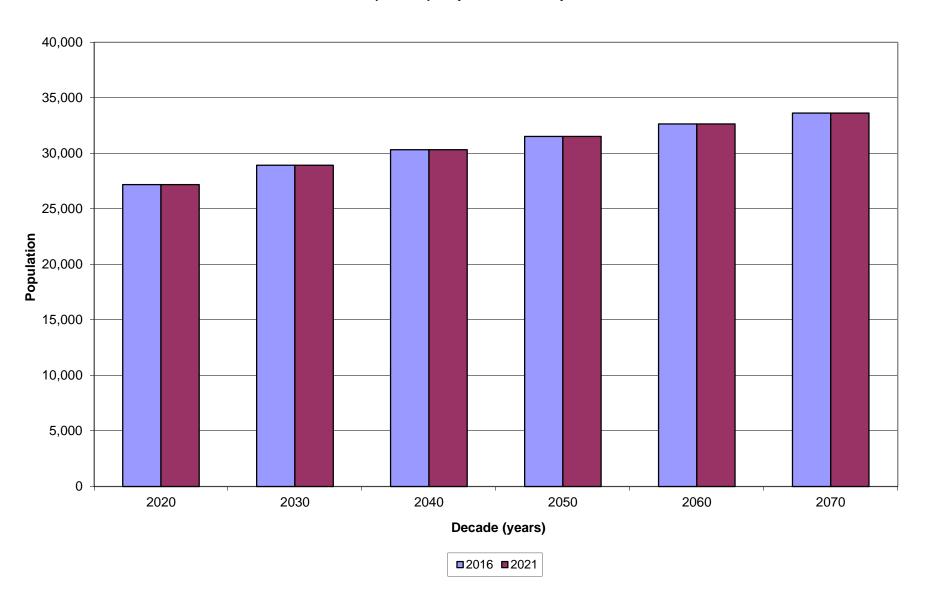
San Saba Population Comparison



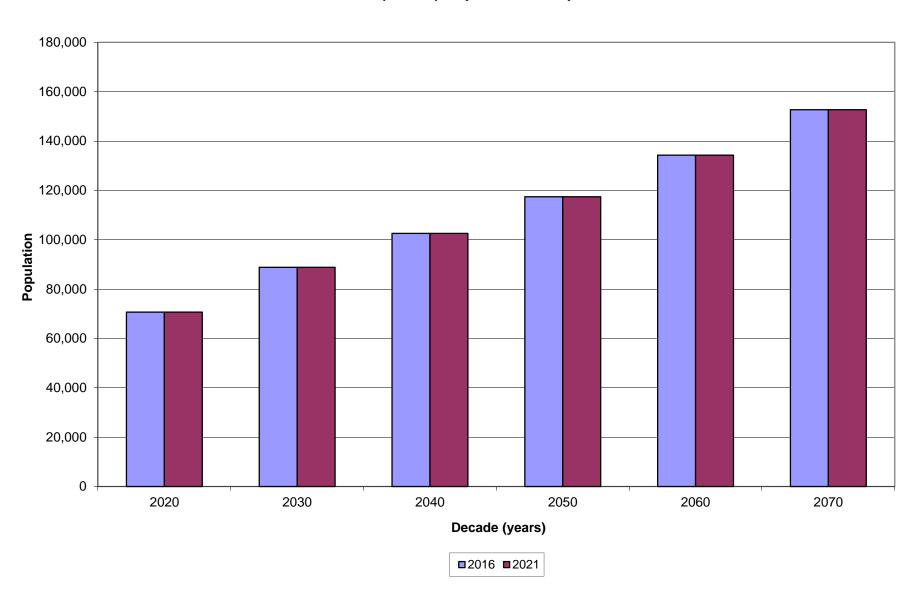
Travis Population Comparison



Wharton (Partial) Population Comparison



Williamson (Partial) Population Comparison

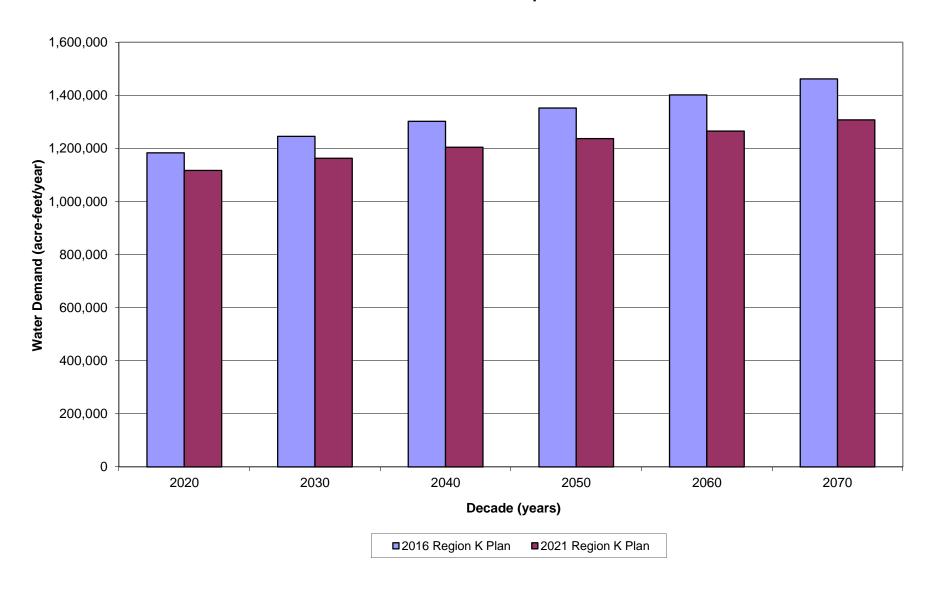


RWP	2020	2030	2040	2050	2060	2070					
Municipal											
2021	11,708	14,659	17,013	19,559	22,458	25,644					
2016	11,175	13,908	16,147	18,594	21,393	24,472					
Difference 533		751	866	965	1,065	1,172					
% Change	4.8	5.4	5.4	5.2	5.0	4.8					
			Livestock								
2021	0	0	0	0	0	0					
2016	1	1	1	1	1	1					
Difference	-1	-1	-1	-1	-1	-1					
% Change	NA	NA	NA	NA	NA	-100.0					
Irrigation											
2021	0	0	0	0	0	0					
2016	0	0	0	0	0	0					
Difference	0	0	0	0	0	0					
% Change	NA	NA	NA	NA	NA	NA					
	Manufacturing										
2021	25	30	30	30	30	30					
2016	0	0	0	0	0	0					
Difference	25	30	30	30	30	30					
% Change	NA	NA	NA	NA	NA	NA					
			Mining								
2021	5	3	3	3	3	3					
2016	5	3	3	3	3	3					
Difference	0	0	0	0	0	0					
% Change	0.0	0.0	NA	NA	NA	0.0					
Steam-Electric Power Generation											
2021	0	0	0	0	0	0					
2016	0	0	0	0	0	0					
Difference	0	0	0	0	0	0					
% Change	NA	NA	NA	NA	NA	#DIV/0!					

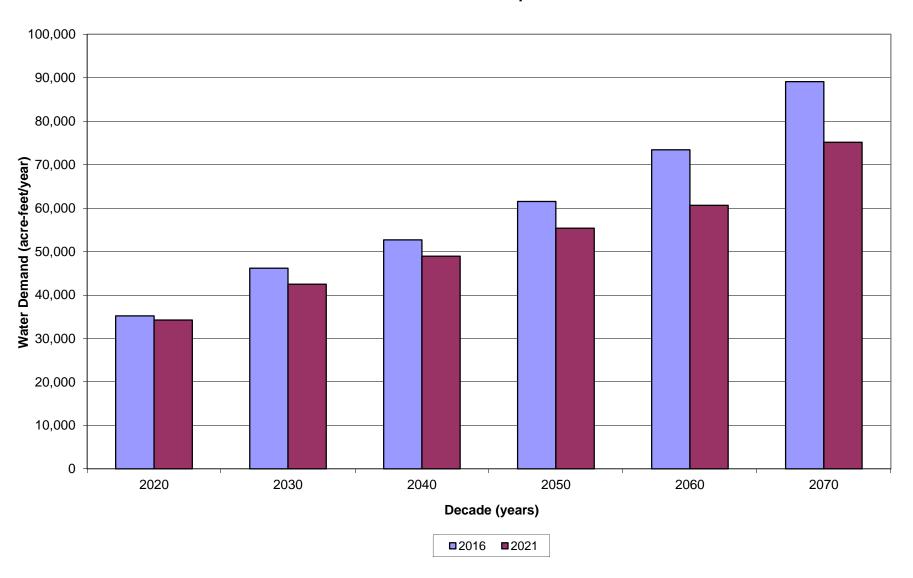
^{*}All values are presented in acre-feet per year

Total Water Demand									
2021	11,738	14,692	17,046	19,592	22,491	25,677			
2016	11,181	13,912	16,151	18,598	21,397	24,476			
Difference	557	780	895	994	1,094	1,201			
% Change	5.0	5.6	5.5	5.3	5.1	4.9			

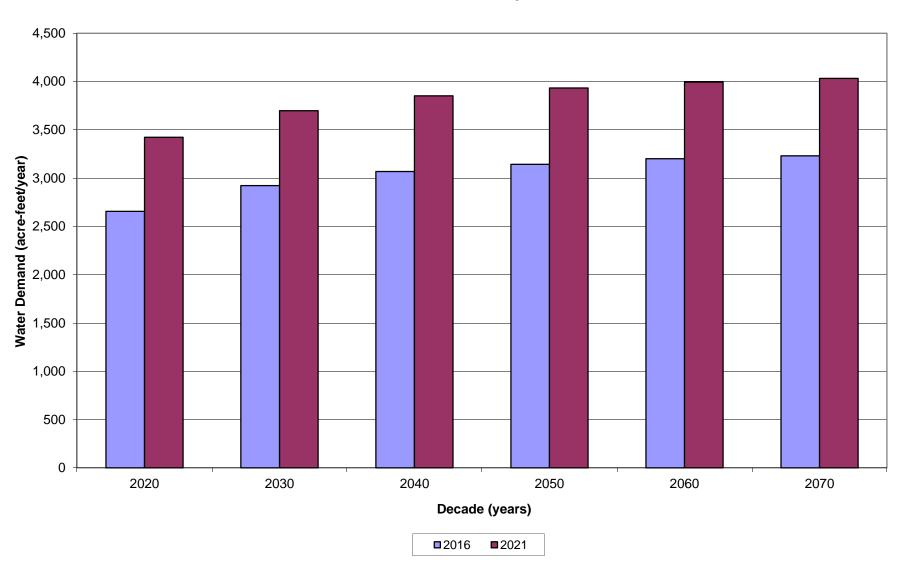
Region K Total Water Demand Comparison



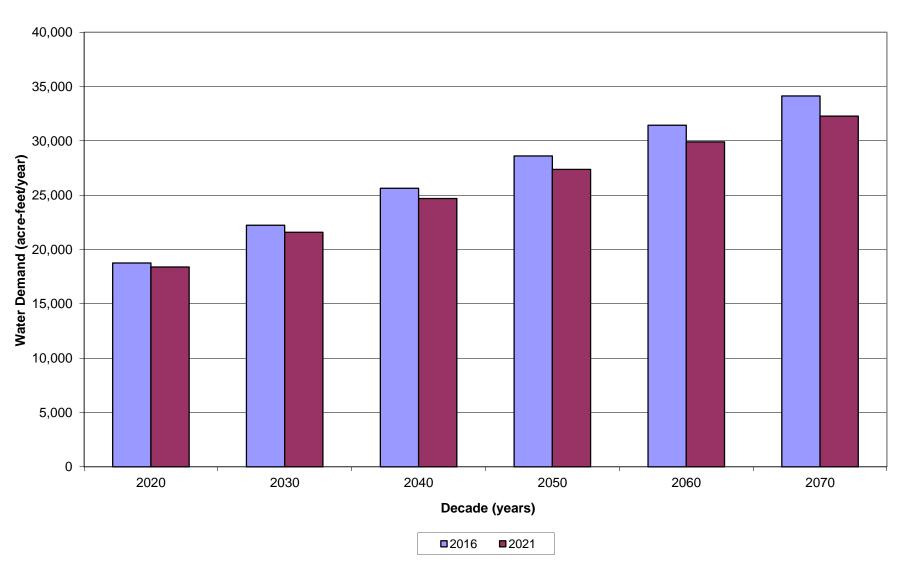
Bastrop County Total Water Demand Comparison



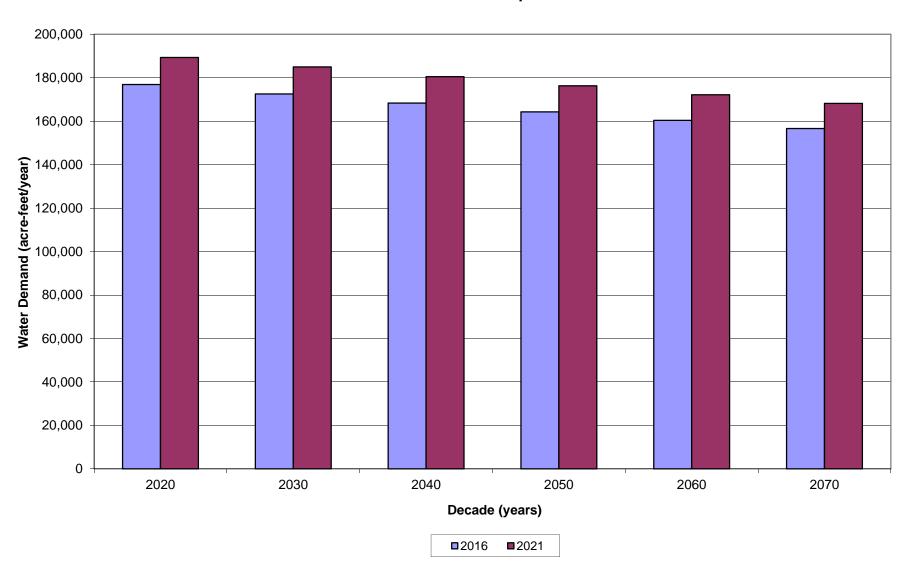
Blanco County Total Water Demand Comparison



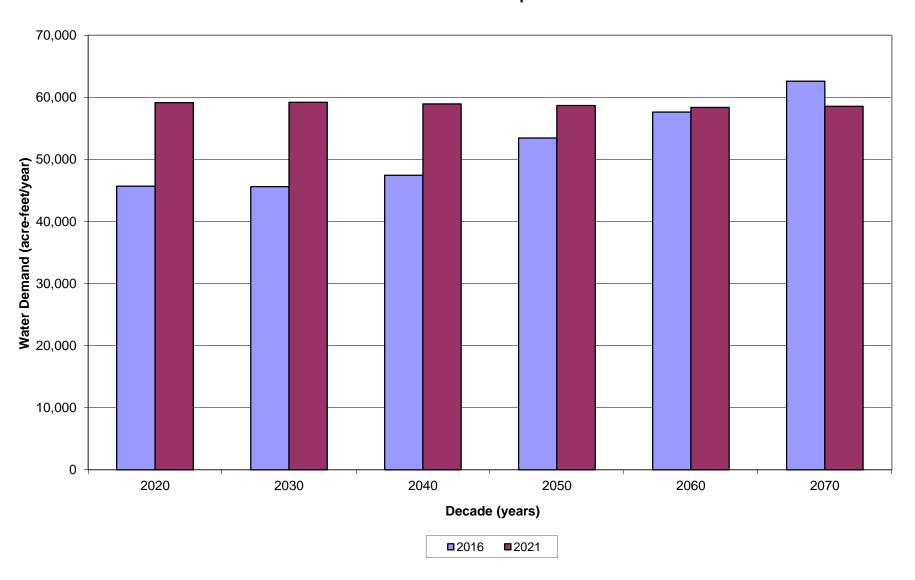
Burnet County Total Water Demand Comparison



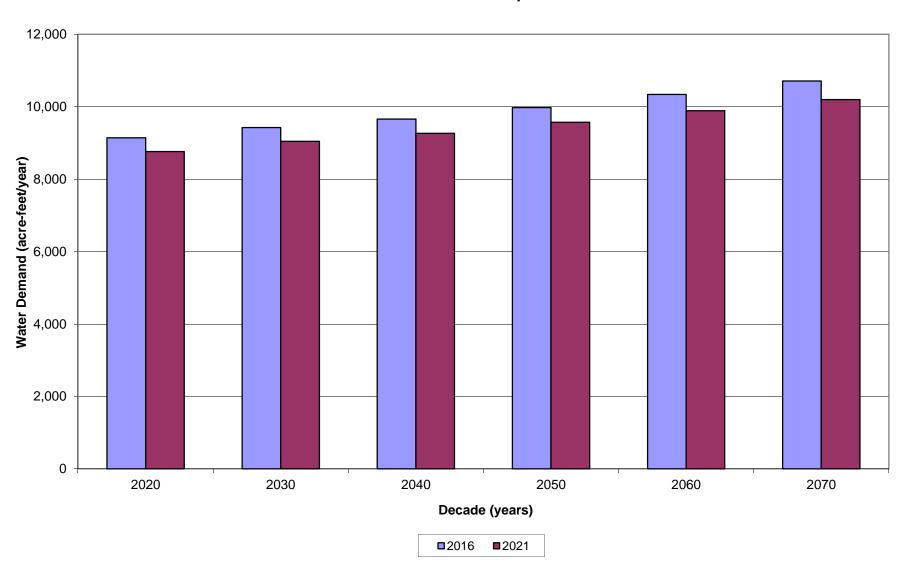
Colorado County Total Water Demand Comparison



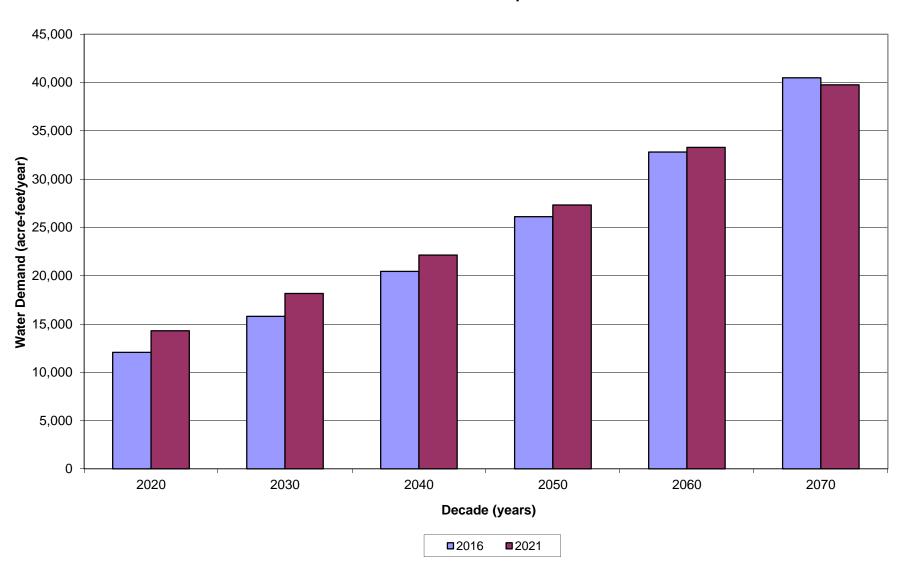
Fayette County Total Water Demand Comparison



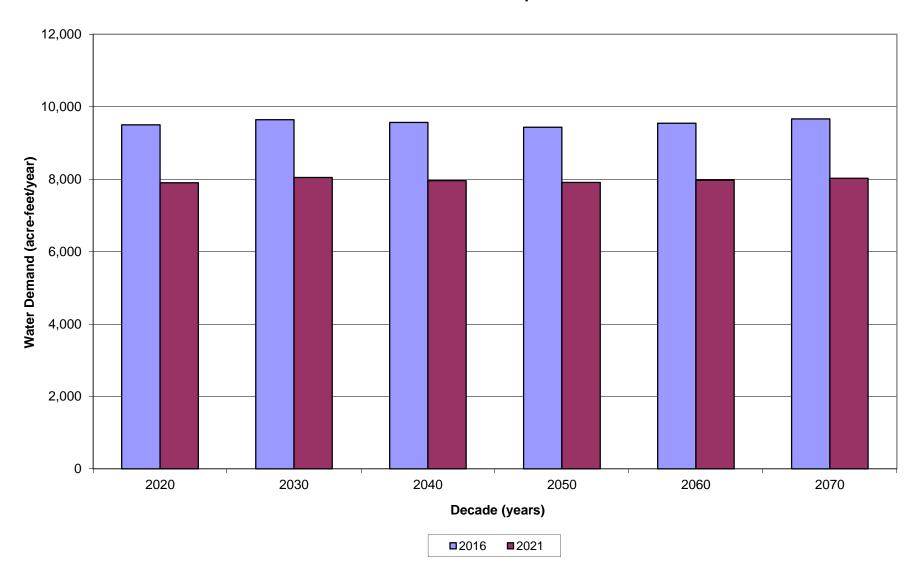
Gillespie County Total Water Demand Comparison



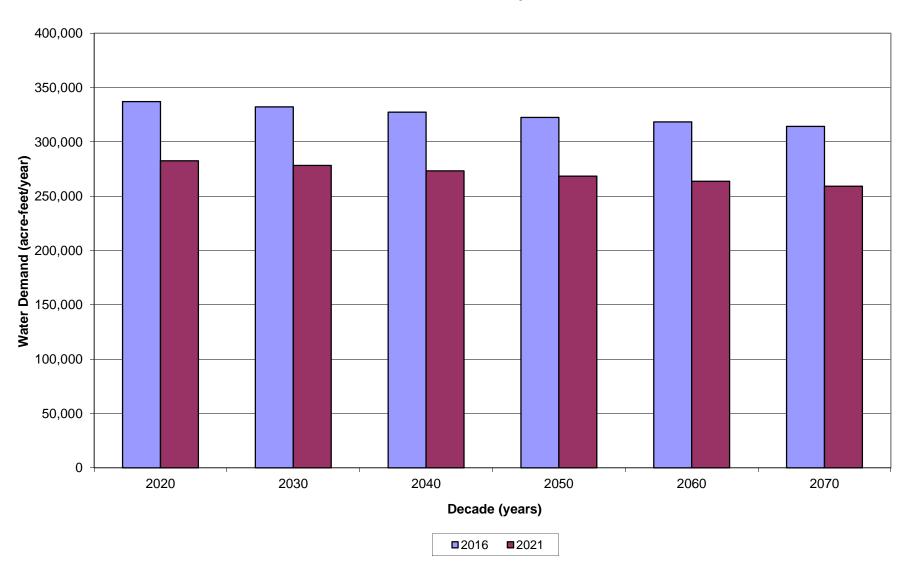
Hays County (Partial) Total Water Demand Comparison



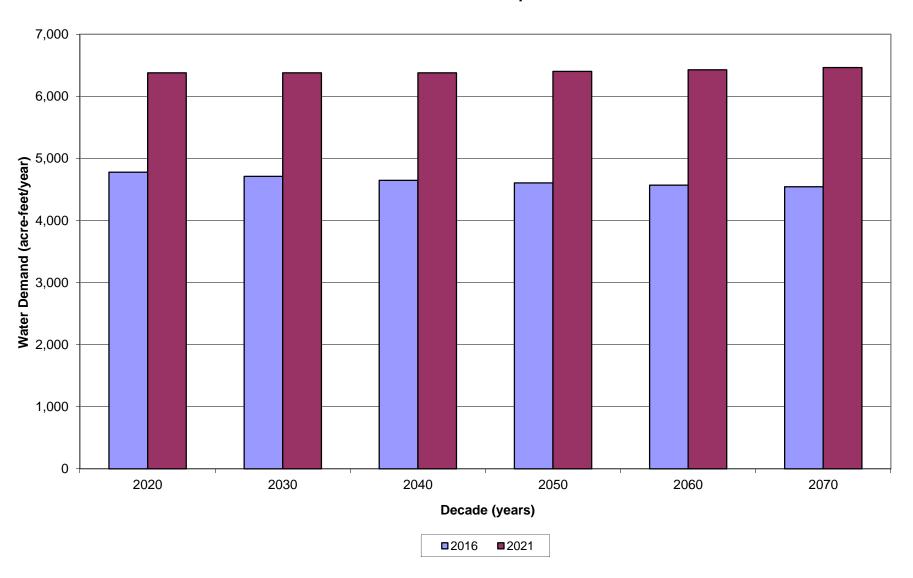
Llano County Total Water Demand Comparison



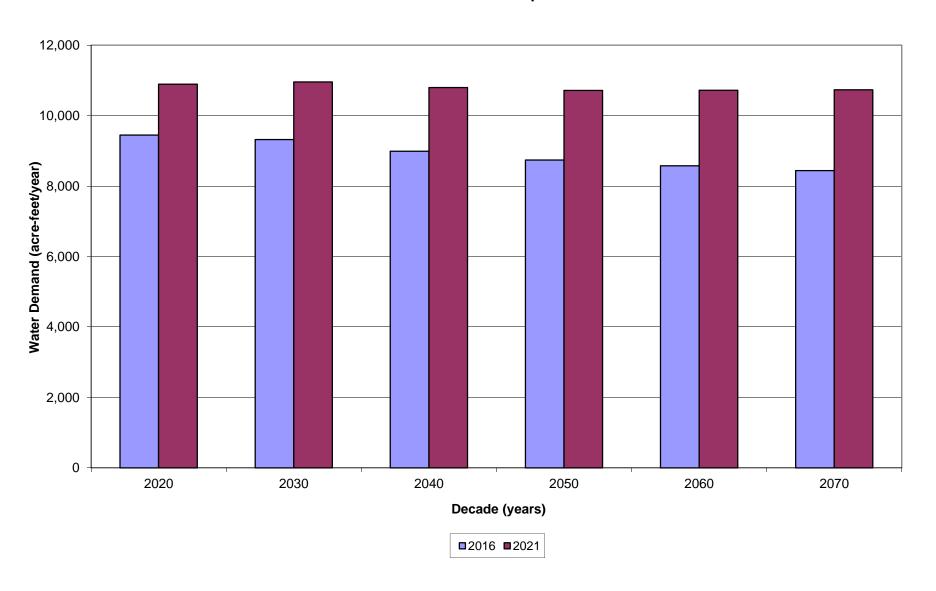
Matagorda County Total Water Demand Comparison



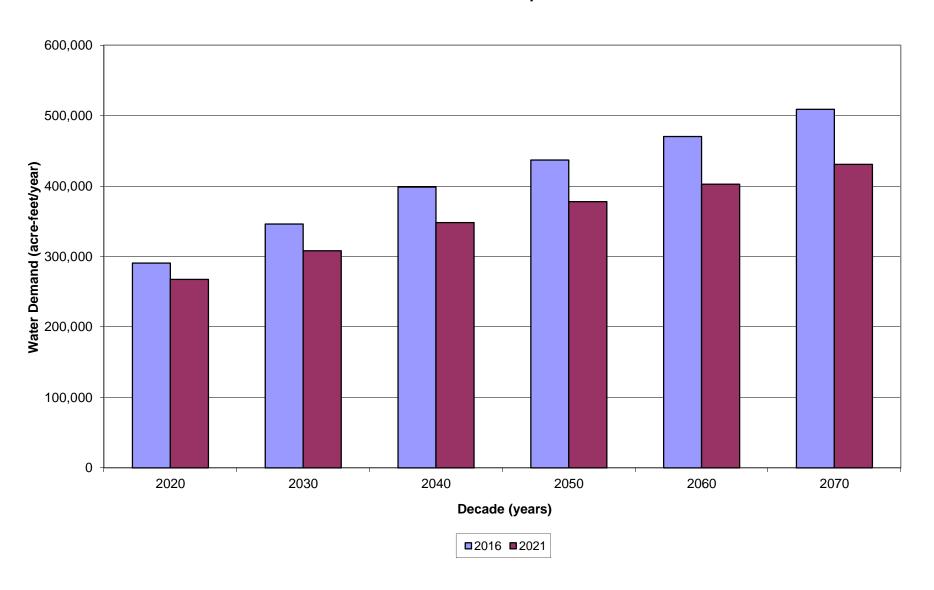
Mills County
Total Water Demand Comparison



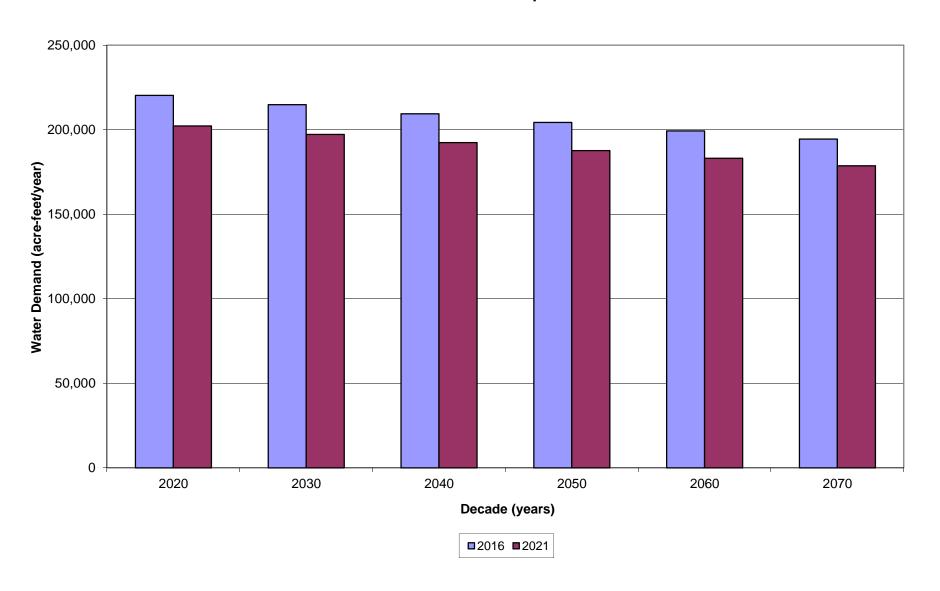
San Saba County Total Water Demand Comparison



Travis County Total Water Demand Comparison



Wharton County (Partial) Total Water Demand Comparison



Williamson County (Partial) Total Water Demand Comparison

