

**TO:** Region C Prioritization Subcommittee

**FROM:** Simone Kiel, Abbie Gardner, Kristal Williams

**CC:** Project File – TR116409

**SUBJECT:** Methodology for 2021 RCWP Project Prioritization

**DATE:** June 2020

## 1.00 INTRODUCTION

As required by regulation and rule, all recommended regional water planning projects with a capital cost must be prioritized based on uniform standards. To assist with this effort, the TWDB provided a standard scoring template. This memorandum outlines the methodology applied to complete the TWDB Project Prioritization Template for 2021 RCWP projects. This methodology incorporates guidance from the TWDB. The uniform standards for project scoring were developed by a stakeholders committee consisting of the 16 RWPG chairs. Each uniform standard has a maximum score as developed by the stakeholder committee. Additionally, each criterion has a weighting factor as developed by the stakeholder committee and are applied automatically on each criterion's final score. These scoring standards and weighting factors cannot be changed.

TWDB's standard scoring template (Excel spreadsheet) was used for the prioritization process. TWDB provided the template pre-populated with projects from DB22 to Region C on March 24, 2020.

## 2.00 STRATEGY GROUPING (ROLLUP)

Some projects that were sponsored by multiple entities were grouped to give a cohesive score to the overall project. These projects were scored based on the total cost, total need, and total supply volume for all participating entities. These projects included the:

- Marvin Nichols (328 ft) Strategy for NTMWD, TRWD, and UTRWD,

- Wright Patman Reallocation for NTMWD, TRWD, and UTRWD
- Lake Chapman Pump Station Expansion for NTMWD and Irving
- Integrated Pipeline (IPL) for TRWD and DWU

## **2.01 CRITERIA 1 - DECADE OF NEED FOR PROJECT (40% TOTAL WEIGHT)**

### **Uniform Standard 1A - What is the decade the RWP shows the project comes online?**

#### **Weight: 20%**

Scoring of this standard is as follows:

2070 = 0 points; 2060 = 2; 2050 = 4; 2040 = 6; 2030 = 8; 2020 = 10.

The following methodology was applied to determine project online decade:

- All projects were scored based on the first decade with a supply allocation/strategy volume.

### **Uniform Standard 1B - In what decade is initial funding needed? Weight: 20%**

Scoring of this standard is as follows:

2070 = 0 points; 2060 = 2; 2050 = 4; 2040 = 6; 2030 = 8; 2020 = 10.

The following methodology was applied to determine project initial funding decade:

- If an infrastructure financing report (IFR) survey was received indicating the date of initial funding needed, this date was used. If the date provided was a non-decadal value, the preceding decade was used for scoring purposes (i.e. if response was funding needed in 2033, 2030 was selected and was given a score of 8).
- If an IFR survey was not received, the following assumptions were used:
  - For projects with a capital cost of more than \$100 million, the funding is assumed to be needed two decades before the project comes online (with the maximum score being 10).

- For projects with a capital cost of \$100 million or less, the funding is assumed to be needed one decade before the project comes online (with the maximum score being 10).

## **2.02 CRITERIA 2 - PROJECT FEASIBILITY (10% TOTAL WEIGHT)**

### **Uniform Standard 2A - What supporting data is available to show that the quantity of water needed is available? Weight: 2%**

The TWDB scoring of this standard is as follows:

- Models suggest insufficient quantities of water or no modeling performed = 0 points;
- Models suggest sufficient quantity of water = 3;
- Field tests, measurements, or project specific studies confirm sufficient quantities of water = 5

In an effort to further define and document the specific data for each project, Region C has developed a more detailed/expanded scoring guide as follows:

- Score of 0 for:
  - No Modeling performed
  - Assumed no Modeling
- Score of 3 for:
  - Conservation analyzed in 2021 Plan
  - GAM modeling for groundwater supply
  - WAM modeling for surface water supply
  - Reuse – relying on projected future effluent

- Score of 5 for:
  - Detailed study
  - Pilot tests for wells
  - Reuse – relying on existing effluent flows

Each project has been individually assessed on this scoring criteria.

**Uniform Standard 2B - If necessary, does the sponsor hold necessary legal rights, water rights, and/or contracts to use the water that this project would require? Weight: 2%**

The TWDB scoring of this standard is as follows:

- Legal rights, water rights and/or contract application not submitted = 0 points;
- application submitted = 2;
- application is administratively complete = 3;
- legal rights, water rights and/or contracts obtained or not needed = 5

In an effort to further define and document the specific data for each project, Region C has developed a more detailed/expanded scoring guide as follows:

- Score of 5 for:
  - Conservation - no water right needed
  - Contract in place
  - Existing water supplies
  - Water treatment plant - no right needed

If information was known about a strategy, it was utilized. In instances where specific information was not known, it was assumed that:

- If a strategy came online in 2030 or later, that permits had not yet been obtained.
- If a groundwater strategy came online in 2020 and was in a County with no GCD, that no other permits were needed.
- If an entity was an existing customer of a wholesale provider and contract amount was not known, it was assumed that they did not need an increase in contract to obtain additional water supply.
- If an entity was considered a future customer of a wholesale provider, it was assumed that a contract was not in place.

Each project has been individually assessed on this scoring criteria.

**Uniform Standard 2C - What level of engineering and/or planning has been accomplished for this project? Weight: 4%**

The TWDB scoring of this standard is as follows:

- 1 = Outlined in RWP
- 2 = Feasibility study initiated
- 3 = Feasibility study completed
- 4 = Conceptual design initiated
- 5 = Conceptual design completed
- 6 = Preliminary engineering report initiated
- 7 = Preliminary engineering report completed
- 8 = Preliminary design initiated
- 9 = Preliminary design completed
- 10 = Final design completed

This criterion was answered using available data and judgment as available. Potential sources of information include the 2021 RWP and support material, updated stakeholder data, or WUG/WWP survey data. In many cases, reliable information is not readily available even through the sources named above. For that reason, the following approach was considered:

- If specific information was available, score as appropriate based on specific information
- For Projects without specific information, the following assumptions were applied:
  - Projects coming online in 2020 were scored as 8 (preliminary design initiated)
  - Projects coming online in 2030 were scored as 3 (feasibility studies completed)
  - Projects coming online in 2040-70 were scored a 1 (outlined in Regional Water Plan)

Each project has been individually assessed on this scoring criteria.

**Uniform Standard 2D - Has the project sponsor requested in writing that the project be included in the Regional Water Plan? Weight: 2%**

Several surveys were distributed throughout the planning process concerning water management strategies. If an entity responded to any one of these surveys, the project received a “yes” and was scored 5 points. All conservation projects received a “yes” and were scored 5 points due the required Water Conservation and Drought Contingency Plans for entities. Freese and Nichols staff met directly with major wholesale water providers (WWPs). If FNI had an in-person meeting with the entity concerning the Region C plan, the meeting notes were considered to be a request in writing and were scored with as “yes.” Further, if an entity responded in writing during any previous planning cycle, the project received a “yes” and was

scored 5 points. If the entity never responded to a survey indicating their agreement with the strategies, the project received a “no” and was given 0 points.

## **2.03 CRITERIA 3 – PROJECT VIABILITY (25% TOTAL WEIGHT)**

### **Uniform Standard 3A - In the decade the project supply comes online, what is the % of the WUG's (or WUGs') needs satisfied by this project? Weight: 8.33%**

Addressing this criterion requires a more complex dataset than that provided in the TWDB Prioritization Template, which only includes projects. Projects in the database by definition do not directly have a supply volume. Only strategies have a supply volume and then projects are the infrastructure necessary to develop a strategy. However, a project can be related to multiple strategies and the total volume of the multiple strategies can exceed the capacity of the given project. In order to address this, an alternate table of supply volumes was developed that is referenced for each project. The following logic was applied in scoring this criterion:

- Entities with no needs received a score of 100% (rather than a calculated “error” of supply divided by 0 need). This applied mostly to conservation projects.
- If the project served only one WUG, then the score was auto-calculated based on the supply and need in the first decade online for that one WUG.
- If the project applied to multiple WUGs/WWPs, the sum of needs for those WUGs/WWPs was calculated. The score was then auto-calculated based on the supply and need in the first decade online.

### **Uniform Standard 3B - In the final decade of the planning period, what is the % of the WUG's (or WUGs') needs satisfied by this project? Weight: 8.33%**

This criterion was addressed in the same manner as Uniform Standard 3A, using the last online year of needs and supplies.

### **Uniform Standard 3C - Is this project the only economically feasible source of new supply for the WUG, other than conservation? Weight: 4.17%**

All conservation strategies were given 0 points. The number of non-conservation projects were then counted for each sponsor entity and when there was more than one project, it was given a “no” and scored zero points. If the project was the only non-conservation project, it was considered the only economically feasible source of new supply and given a “yes” with a score of 5 points.

**Uniform Standard 3D - Does this project serve multiple WUGs? Weight: 4.17%**

The TWDB scoring of this standard is 0 for “No” and 5 for “Yes”. This question was answered individually for each project. In general, all conservation was assumed to apply to only the entity listed as the sponsor. In the same way, most projects sponsored by non-municipal and County Other WUGs were assumed to serve only the WUG listed as the sponsor. In general, projects sponsored by WWP were assumed to serve multiple WUGS (all WWP customers) unless specific information dictated otherwise. In all other cases, this standard was answered individually based on project knowledge.

## **2.04 CRITERIA 4 - PROJECT SUSTAINABILITY (15% TOTAL WEIGHT)**

**Uniform Standard 4A - Over what period of time is this project expected to provide water (regardless of the planning period)? Weight: 10%**

The TWDB scoring of this standard is 5 for “Less than or equal to 20 years” and 10 for “More than 20 years”. Most of the projects in the regional plan are anticipated to have lifespans of many decades, and therefore the majority of entries in the prioritization template will achieve the maximum points on this criterion. The exceptions to this are:

Conservation, Water Loss Control was considered to provide savings from pipe replacement for 20 years. After that, it was assumed that entity would have to reinvest to continue to recognize the water savings. For this reason, these projects were scored with a 5.

**Uniform Standard 4B - Does the volume of water supplied by the project change over the regional water planning period? Weight: 5%**

The TWDB scoring of this standard is 0 for “Decreases”, 3 for “No change,” and 5 for “Increases”. Projects with a change in supply volume of less than 5 acre-feet were assumed to



have “no change” and were scored a 3. Otherwise, projects were scored based on if the supply volume went up or down over the planning period.

## **2.05 CRITERIA 5 - PROJECT COST EFFECTIVENESS (10% TOTAL WEIGHT)**

**Uniform Standard 5A - What is the expected unit cost of water supplied by this project compared to the median unit cost of all other recommended strategies in the region's current RWP? Weight: 10%**

The TWDB scoring of this standard is as follows:

- 0 = 200% greater than median
- 1 = 150-199% greater than median
- 2 = 101-149% greater than median
- 3 = 100% of median
- 4 = 51-99% of median
- 5 = 0-50% of median

For each project, a unit cost for the first online decade was calculated using the annual cost including debt service and the supply volume. Once the unit costs were calculated for each project, the costs were compiled and a median was developed. The first decade unit cost was then compared to the median first decade unit cost. Each project was scored according to its relation to the median unit cost per TWDB scoring guidelines.

## **3.00 RANKINGS**

Projects were scored utilizing the standard scoring template provided by TWDB and the additional methodologies outlined in this memorandum. Upon completion of project scoring, projects were ranked from highest to lowest uniform standard score. This provides an organized prioritization of Region C projects, which can then be incorporated into state prioritization used for State Water Implementation Fund for Texas (SWIFT) funding decisions.

Among the highest Region C prioritized projects are water infrastructure improvements to deliver water and conservation.

**Table 1 Region C Project (with Conservation) Rankings**

Project Name	FINAL SCORE FOR PROJECT	Rank
DWU - Infrastructure to Treat and Deliver to Customers 2020	950.33	1
UTRWD WTP and Treated Water Distribution System Water Management Strategies 2020-2030	942.33	2
NTMWD Treatment & Treated Water Distribution Improvements 2020-2030	922.33	3
Newark - Connect to Rhome	917.98	4
Midlothian - Expand Tayman WTP to 20 MGD	914.33	5
Terrell - Ground Storage Tank and Pump Station at NTWMD Delivery Point	913.91	6
Terrell - Infrastructure Improvements to wholesale customer	913.91	6
Runaway Bay - Increase Capacity of Lake Intake	906.71	8
B H P WSC - Direct Connection to NTWMD	901.84	9
Manufacturing, Wise County - New Well(s) in Trinity Aquifer	894.79	10
Irving - TRA Central Reuse	892.00	11
Livestock, Henderson - New Well(s) in Carrizo-Wilcox Aquifer	882.33	12
Livestock, Tarrant - New Well(s) in Trinity Aquifer	882.33	12
Mining, Grayson County - New Well(s) in Trinity Aquifer	882.33	12
NTMWD - Bois d'Arc Lake	881.56	15
DWU - Infrastructure to Treat and Deliver to Customers 2030	874.33	16
Willow Park - Connect to Fort Worth	872.61	17
Mining, Parker County - New Well(s) in Trinity Aquifer	862.33	18
East Fork SUD - Additional Delivery Infrastructure from NTMWD	862.09	19
Cash WSC - Additional Delivery Infrastructure from NTMWD	861.34	20
Grand Prairie - Additional Delivery Infrastructure from DWU	858.91	21
Conservation, Water Loss Conservation - Dogwood Estates Water	858.67	22
Conservation, Water Loss Control - Annetta	858.67	22
Conservation, Water Loss Control - Arledge Ridge WSC	858.67	22
Conservation, Water Loss Control - B and B WSC	858.67	22
Conservation, Water Loss Control - Bethel-Ash WSC	858.67	22

Project Name	FINAL SCORE FOR PROJECT	Rank
Conservation, Water Loss Control - Buena Vista - Bethel SUD	858.67	22
Conservation, Water Loss Control - Butler WSC	858.67	22
Conservation, Water Loss Control - Callisburg WSC	858.67	22
Conservation, Water Loss Control - Chatfield WSC	858.67	22
Conservation, Water Loss Control - Cooke County	858.67	22
Conservation, Water Loss Control - Corbet WSC	858.67	22
Conservation, Water Loss Control - Dorchester	858.67	22
Conservation, Water Loss Control - Ellis County	858.67	22
Conservation, Water Loss Control - Fannin County	858.67	22
Conservation, Water Loss Control - Files Valley WSC	858.67	22
Conservation, Water Loss Control - Freestone County	858.67	22
Conservation, Water Loss Control - Grayson County	858.67	22
Conservation, Water Loss Control - Johnson County SUD	858.67	22
Conservation, Water Loss Control - Navarro County	858.67	22
Conservation, Water Loss Control - Navarro Mills WSC	858.67	22
Conservation, Water Loss Control - Pelican Bay	858.67	22
Conservation, Water Loss Control - Pleasant Grove WSC	858.67	22
Conservation, Water Loss Control - Sansom Park	858.67	22
Conservation, Water Loss Control - Trinidad	858.67	22
UTRWD - Lake Ralph Hall and Reuse	856.99	46
Parker - Additional Delivery Infrastructure from NTWMD	856.67	47
Northwest Grayson County WCID 1 - New Well(s) in Trinity Aquifer	855.95	48
Wise County WSD - 9 MGD WTP Expansion	855.14	49
Rockwall - Additional Delivery Infrastructure from NTWMD	854.73	50
Springtown - Infrastructure Improvements- Surface Water Treatment Plant & Supply Project	853.38	51
Conservation, Water Loss Control - Bedford	852.51	52
Azle - 4 MGD WTP Expansion	849.46	53
Crowley - Additional Delivery Infrastructure Fort Worth	846.15	54
Athens MWA - WTP Infrastructure Improvements	845.74	55
Mabank - Additional Delivery Infrastructure from TRWD (Cedar Creek Reservoir)	840.72	56
Conservation, Water Loss Conservation - Desert WSC	838.67	57
Conservation, Water Loss Control - Bolivar WSC	838.67	57

Project Name	FINAL SCORE FOR PROJECT	Rank
Conservation, Water Loss Control - Bonham	838.67	57
Conservation, Water Loss Control - Crescent Heights WSC	838.67	57
Conservation, Water Loss Control - Dawson	838.67	57
Conservation, Water Loss Control - Denton County	838.67	57
Conservation, Water Loss Control - Eustace	838.67	57
Conservation, Water Loss Control - Frognot WSC	838.67	57
Conservation, Water Loss Control - Horseshoe Bend Water System	838.67	57
Conservation, Water Loss Control - Kerens	838.67	57
Conservation, Water Loss Control - M-E-N WSC	838.67	57
Conservation, Water Loss Control - Reno	838.67	57
Conservation, Water Loss Control - Rice WSC	838.67	57
Conservation, Water Loss Control - Virginia Hill WSC	838.67	57
Conservation, Water Loss Control - West Leonard WSC	838.67	57
Watauga & N Richland Hills - Increase Delivery Infrastructure from Fort Worth	837.58	72
Parker County SUD - 3.5 MGD WTP Desal Expansion-BRA Supply	836.31	73
UTRWD WTP and Treated Water Distribution System Water Management Strategies 2030-2040	834.33	74
Wilmer - Increase Capacity of Connection with Lancaster	834.04	75
Bois d'Arc MUD - Connect to NTWMD	830.38	76
Midlothian - Expand Auger WTP to 16 MGD	830.12	77
Wylie Northeast SUD - Additional Delivery Infrastructure from NTWMD	830.06	78
Sunnyvale - Additional Delivery Infrastructure from NTMWD	823.94	79
Muenster - Develop Lake Muenster Supply	822.33	80
Conservation, Water Loss Control - Mountain Spring WSC	818.67	81
NTMWD Treatment & Treated Water Distribution Improvements 2030-2040	814.33	82
Hudson Oaks - Direct Connection to Fort Worth	814.27	83
Rice WSC - Additional Delivery Infrastructure from Corsicana	812.67	84
Prosper - Additional Delivery Infrastructure from NTMWD	811.95	85
Conservation, Water Loss Conservation - South Ellis County WSC	809.47	86
Rowlett - Additional Delivery Infrastructure from NTWMD	806.42	87
Irrigation, Fannin - New Well(s) in Trinity Aquifer	804.84	88
DWU - Connect IPL to Bachman	803.02	89

Project Name	FINAL SCORE FOR PROJECT	Rank
Weatherford - Additional Indirect Reuse Phase I	802.51	90
Leonard - Water System Improvements	802.33	91
Watauga - Additional delivery infrastructure North Richland Hills/Fort Worth	798.72	92
Conservation, Water Loss Control - Black Rock WSC	798.67	93
Conservation, Water Loss Control - Blooming Grove	798.67	93
Conservation, Water Loss Control - Everman	798.67	93
Conservation, Water Loss Control - Fairfield	798.67	93
Conservation, Water Loss Control - Honey Grove	798.67	93
Conservation, Water Loss Control - Red River Authority of Texas	798.67	93
Conservation, Water Loss Control - Starr WSC	798.67	93
Conservation, Water Loss Control - Westminster WSC	798.67	93
Conservation, Water Loss Control - East Garrett WSC	797.00	101
DWU - Infrastructure to Treat and Deliver to Customers 2040	794.33	102
Conservation, Water Loss Control - Anna	792.54	103
Weatherford - Expand Lake Benbrook Pump Station	792.53	104
South Freestone County WSC - New Well(s) in Carrizo-Wilcox Aquifer	791.41	105
Denison - Expand Raw Water Delivery from Lake Texoma - Phase I	789.22	106
Runaway Bay - 3 MGD WTP Expansion-1	788.93	107
Kennedale - Connect to Arlington	788.59	108
Cross Timbers WSC - Additional Delivery Infrastructure	788.19	109
Teague - New Wells in Carrizo-Wilcox Aquifer Q-135	788.02	110
Weatherford - 8 MGD WTP Expansion	786.34	111
Waxahachie - Phase I Delivery Infrastructure to Customers in South Ellis County	785.87	112
Conservation, Water Loss Control - Tom Bean	785.08	113
Conservation, Water Loss Control - Southwest Fannin County SUD	784.59	114
TRWD - ASR Pilot	782.84	115
Ladonia - Infrastructure and treatment from water from Ralph Hall (UTRWD)	782.33	116
Athens MWA - New Wells Phase I	781.99	117
Conservation, Water Loss Control - Ladonia	781.29	118
TRWD - Cedar Creek Wetlands Reuse	781.08	119
Athens MWA - New Wells Phase II	780.94	120

Project Name	FINAL SCORE FOR PROJECT	Rank
Conservation, Water Loss Control - White Settlement	780.51	121
Conservation, Water Loss Control - South Grayson WSC	780.24	122
Justin - New Well(s) in Trinity Aquifer	780.11	123
Walnut Creek SUD - 6 MGD WTP Expansion	779.81	124
Conservation, Water Loss Control - Henderson County	779.50	125
Conservation, Water Loss Control - Community WSC	779.21	126
Conservation, Water Loss Control - Westlake	778.78	127
Conservation, Water Loss Control - Kaufman County	778.73	128
Conservation, Water Loss Control - Corsicana	778.67	129
Conservation, Water Loss Control - Highland Park	778.67	129
Conservation, Water Loss Control - Whitesboro	778.67	129
Conservation, Water Loss Control - Whitewright	778.67	129
Conservation, Water Loss Control - High Point WSC	778.38	133
Conservation, Water Loss Control - North Collin WSC	778.25	134
Conservation, Water Loss Control - Rockwall County	778.17	135
Conservation, Water Loss Control - Trenton	778.11	136
Conservation, Water Loss Control - Elmo WSC	777.32	137
Conservation, Water Loss Control - Alvord	777.14	138
Conservation, Water Loss Control - Poetry WSC	776.60	139
Conservation, Water Loss Control - Italy	776.31	140
Mabank - 3 MGD WTP Expansion	776.15	141
Lakeside - New Well(s) in Trinity Aquifer	776.04	142
Blackland WSC - Direct Connection to NTWMD	775.67	143
Mansfield - 15 MGD WTP Expansion	774.69	144
Weatherford - Additional Indirect Reuse Phase II	774.32	145
Midlothian - Expand Auger WTP to 24 MGD	771.70	146
County Other, Jack - Infrastructure to Connect to Walnut Creek SUD	771.69	147
Conservation, Water Loss Control - Murphy	771.07	148
Conservation, Water Loss Control - Plano	770.34	149
SEP, Tarrant - Reuse	769.26	150
Conservation, Water Loss Control - Collin County	769.22	151
Krum - New Well(s) in Trinity Aquifer	769.22	152
Argyle WSC - New Well(s) in Trinity Aquifer	768.73	153
Frisco - Direct Reuse	768.28	154

Project Name	FINAL SCORE FOR PROJECT	Rank
Waxahachie - 8 MGD WTP Expansion-Howard Road	766.47	155
Rockett SUD - 10 MGD WTP Expansion at Sokoll-1	764.39	156
Celina - Connect to and Purchase Water from NTMWD	764.11	157
Conservation, Water Loss Control - Leonard	764.11	158
Conservation, Water Loss Control - Chico	762.91	159
Conservation, Water Loss Control - Keller	762.38	160
Conservation, Water Loss Control - White Shed WSC	761.74	161
Conservation, Water Loss Control - Pink Hill WSC	761.29	162
Conservation, Water Loss Control - Aledo	761.00	163
Conservation, Water Loss Control - Sanger	760.59	164
Bolivar WSC - New Well(s) in Trinity Aquifer	759.88	165
Conservation, Water Loss Control - Richland Hills	759.80	166
Conservation, Water Loss Control - Euless	759.59	167
Conservation, Water Loss Control - Luella SUD	759.50	168
Conservation, Water Loss Control - Dalworthington Gardens	759.16	169
Conservation, Water Loss Control - Bridgeport	759.02	170
Conservation, Water Loss Control - Kentucky Town WSC	758.88	171
Conservation, Water Loss Control - Athens	758.67	172
Conservation, Water Loss Control - Bells	758.67	172
Conservation, Water Loss Control - Gainesville	758.67	172
Conservation, Water Loss Control - Lake Kiowa SUD	758.67	172
Conservation, Water Loss Control - Marilee SUD	758.67	172
Conservation, Water Loss Control - Muenster	758.67	172
Conservation, Water Loss Control - Pantego	758.67	172
Conservation, Water Loss Control - University Park	758.67	172
Conservation, Water Loss Control - Waxahachie	758.67	172
Conservation, Water Loss Control - West Cedar Creek MUD	758.62	181
Conservation, Water Loss Control - Crowley	758.62	182
Conservation, Water Loss Control - Avalon Water Supply and Sewer Service	758.54	183
Conservation, Water Loss Control - Roanoke	758.46	184
Conservation, Water Loss Control - College Mound WSC	758.15	185
Conservation, Water Loss Control - Copeville SUD	758.11	186
Conservation, Water Loss Control - Becker Jiba WSC	758.02	187

Project Name	FINAL SCORE FOR PROJECT	Rank
Conservation, Water Loss Control - Gastonia-Scurry SUD	757.78	188
Conservation, Water Loss Control - Arlington	757.77	189
Conservation, Water Loss Control - Ables Springs WSC	757.62	190
Conservation, Water Loss Control - North Kaufman WSC	757.59	191
Conservation, Water Loss Control - Parker County SUD	757.43	192
Conservation, Water Loss Control - Paloma Creek North	756.77	193
Conservation, Water Loss Control - Paloma Creek South	756.75	194
Conservation, Water Loss Control - Denton County FWSD #7	756.71	195
Waxahachie - 36" Raw water line from IPL to Lake Waxahachie	756.24	196
Waxahachie - 36" Raw Water line from Lake Waxahachie to Howard Rd WTP	756.24	196
Waxahachie - 48" TRWD Parallel Supply Line to Sokoll WTP	756.24	196
Waxahachie - Increase delivery infrastructure to Rockett SUD	756.24	196
Waxahachie - Raw Water Intake Improvements at Lake Bardwell	756.24	196
Conservation, Water Loss Control - Sherman	755.61	201
UTRWD WTP and Treated Water Distribution System Water Management Strategies 2040-2050	754.33	202
Conservation, Water Loss Control - Tarrant County	752.73	203
GTUA - Regional Water System Phase I	752.23	204
Conservation, Water Loss Control - Sunnyvale	751.11	205
Mansfield - 35 MGD WTP Expansion	751.10	206
Conservation, Water Loss Control - Fairview	751.09	207
Grand Prairie - Connect to Arlington	749.36	208
Conservation, Water Loss Control - Ponder	749.35	209
Conservation, Water Loss Control - Fort Worth	748.70	210
County Other, Kaufman - WTP and Connect to TRWD	748.46	211
Waxahachie - 30" Raw water line from IPL to Howard Road WTP	748.24	212
Conservation, Water Loss Control - Richardson	747.71	213
County-Other, Denton - New Well(s) in Woodbine Aquifer	746.38	214
Pilot Point - New Well(s) in Trinity Aquifer	746.00	215
Blue Ridge - Connect to and Purchase Water from NTWMD	743.83	216
County-Other, Denton - New Well(s) in Trinity Aquifer	742.92	217
Dorchester - New Well(s) in Trinity Aquifer	742.33	218



Project Name	FINAL SCORE FOR PROJECT	Rank
Conservation, Water Loss Control - Kaufman County Development District 1	741.56	219
Pelican Bay - New Well(s) in Trinity Aquifer	740.67	220
Anna - New Well(s) in Woodbine Aquifer	740.48	221
Conservation, Water Loss Control - Rose Hill SUD	738.42	222
Conservation, Water Loss Control - Cedar Hill	737.71	223
TRWD - Additional Capacity to Convey Richland Chambers Reuse (IPL)	737.35	224
Melissa - Additional Delivery Infrastructure from NTMWD	736.97	225
NTMWD Treatment & Treated Water Distribution Improvements 2040-2050	734.33	226
Alvord - Connect to West Wise SUD	733.88	227
Sherman - 10 MGD WTP Expansion (Desal)-1	733.77	228
GTUA - Regional Water System Phase II	733.21	229
Annetta - Connect to Weatherford	732.33	230
Benbrook - 3 MGD WTP Expansion	731.86	231
Denton - 30 MGD WTP Expansion- Ray Roberts-1	731.77	232
Conservation, Water Loss Control - Ovilla	730.93	233
Conservation, Water Loss Control - Boyd	730.47	234
Conservation, Water Loss Control - Hackberry	730.36	235
Verona SUD - New Well(s) in Woodbine Aquifer	728.06	236
Conservation, Water Loss Control - Woodbine WSC	727.38	237
Conservation, Water Loss Control - Lindsay	727.24	238
Conservation, Water Loss Control - Lucas	726.51	239
Conservation, Water Loss Control - Van Alstyne	726.09	240
White Shed WSC - New Well(s) in Woodbine Aquifer	725.34	241
Conservation, Water Loss Control - Kaufman	724.00	242
Kennedale - Additional Delivery Infrastructure from Fort Worth	723.83	243
Conservation, Water Loss Control - Tioga	723.67	244
Conservation, Water Loss Control - Malakoff	723.11	245
County-Other, Parker-WTP and Transmission Facilities to TRWD	722.66	246
Conservation, Water Loss Control - River Oaks	722.14	247
Fort Worth Direct Reuse - Alliance Corridor	721.92	248
UTRWD - Additional Direct Reuse	720.69	249

Project Name	FINAL SCORE FOR PROJECT	Rank
Pantego - Connect to Arlington	720.67	250
Conservation, Water Loss Control - Ferris	720.24	251
Conservation, Water Loss Control - Verona SUD	720.10	252
Conservation, Water Loss Control - R C H WSC	717.95	253
Conservation, Water Loss Control - Bear Creek SUD	717.91	254
Conservation, Water Loss Control - Aubrey	717.53	255
Conservation, Water Loss Control - Josephine	717.27	256
Conservation, Water Loss Control - Bethesda WSC	717.23	257
Conservation, Water Loss Control - Collinsville	717.16	258
Conservation, Water Loss Control - Nevada SUD	717.14	259
Conservation, Water Loss Control - Northlake	717.09	260
Conservation, Water Loss Control - Bois D Arc MUD	716.87	261
Conservation, Water Loss Control - Corinth	716.71	262
Conservation, Water Loss Control - Celina	716.70	263
Cross Timbers WSC - New Well(s) in Trinity Aquifer	716.29	264
Conservation, Water Loss Control - Grand Prairie	713.82	265
Conservation, Water Loss Control - Dallas County	712.19	266
Conservation, Water Loss Control - Rowlett	712.08	267
Conservation, Water Loss Control - Wylie	711.56	268
Gainesville - Expand Direct Reuse	711.22	269
Conservation, Water Loss Control - Allen	711.01	270
Conservation, Water Loss Control - Forney Lake WSC	706.21	271
Conservation, Water Loss Control - Jack County	705.89	272
NTMWD & Irving - Lake Chapman Pump Station Expansion	705.67	273
NTMWD & Irving - Lake Chapman Pump Station Expansion	705.67	273
Conservation, Water Loss Control - Caddo Basin SUD	704.66	275
Conservation, Water Loss Control - Springtown	704.25	276
Conservation, Water Loss Control - Cash SUD	704.20	277
Denison - New 4 MGD Desalination WTP	702.14	278
Pantego - Connect to Fort Worth	700.67	279
Conservation, Water Loss Control - Argyle WSC	699.26	280
Conservation, Water Loss Control - Haslet	699.12	281
Conservation, Water Loss Control - Farmersville	698.12	282
Conservation, Water Loss Control - Mount Zion WSC	697.94	283

Project Name	FINAL SCORE FOR PROJECT	Rank
GTUA - Connection from Sherman to CGMA	697.83	284
Conservation, Water Loss Control - Northwest Grayson County WDIS1	697.40	285
Conservation, Water Loss Control - Cross Timbers WSC	697.19	286
Conservation, Water Loss Control - Culleoka WSC	697.19	287
Conservation, Water Loss Control - Howe	696.17	288
Southlake - Additional Delivery Infrastructure Fort Worth	696.08	289
Conservation, Water Loss Control - Lakeside	696.03	290
Conservation, Water Loss Control - Wise County	695.89	291
Conservation, Water Loss Control - Burluson	695.81	292
Conservation, Water Loss Control - Mountain Peak SUD	694.99	293
Conservation, Water Loss Control - Sachse	694.78	294
Conservation, Water Loss Control - Little Elm	694.06	295
Corsicana - New 8 MGD WTP, Halbert-Richland Chambers	693.95	296
Conservation, Water Loss Control - Newark	693.89	297
Conservation, Water Loss Control - Jacksboro	693.70	298
Conservation, Water Loss Control - Mineral Wells	693.34	299
Conservation, Water Loss Control - Rhome	693.09	300
Conservation, Water Loss Control - Runaway Bay	692.69	301
Conservation, Water Loss Control - Irving	691.98	302
Conservation, Water Loss Control - Talty WSC	689.60	303
Conservation, Water Loss Control - Glenn Heights	688.60	304
Conservation, Water Loss Control - Dallas	688.30	305
Flower Mound - Alliance Direct Reuse	687.91	306
Conservation, Water Loss Control - Royse City	687.43	307
Conservation, Water Loss Control - Cockrell Hill	686.31	308
Conservation, Water Loss Control - Wilmer	686.08	309
Conservation, Water Loss Control - Westover Hills	684.84	310
Van Alstyne - Water System Improvements	684.52	311
Conservation, Water Loss Control - Two Way SUD	683.86	312
Conservation, Water Loss Control - Wortham	683.33	313
Conservation, Water Loss Control - South Freestone County WSC	682.58	314
Lewisville - 6 MGD WTP Expansion-1	681.61	315
Sardis Lone Elm - Connect to TRWD	681.56	316

Project Name	FINAL SCORE FOR PROJECT	Rank
Conservation, Water Loss Control - Palmer	681.08	317
Conservation, Water Loss Control - Ennis	681.01	318
Conservation, Water Loss Control - Oak Ridge South Gale WSC	680.73	319
Chico - Additional Delivery Infrastructure from West Wise SUD	680.05	320
Conservation, Water Loss Control - Trophy Club	679.27	321
Conservation, Water Loss Control - Lake Worth	679.24	322
Conservation, Water Loss Control - Hurst	679.00	323
Conservation, Water Loss Control - Watauga	678.92	324
Conservation, Water Loss Control - Saginaw	678.91	325
Conservation, Water Loss Control - Forest Hill	678.91	326
Manufacturing, Collin - New Well(s) in Woodbine Aquifer	678.89	327
Conservation, Water Loss Control - Haltom City	678.86	328
Conservation, Water Loss Control - Southlake	678.84	329
Conservation, Water Loss Control - Colleyville	678.81	330
Conservation, Water Loss Control - Rockett SUD	678.77	331
Conservation, Water Loss Control - Westworth Village	678.67	332
Conservation, Water Loss Control - Parker	678.49	333
Conservation, Water Loss Control - North Richland Hills	678.24	334
Conservation, Water Loss Control - Edgecliff Village	678.21	335
Conservation, Water Loss Control - Wylie Northeast SUD	678.04	336
Conservation, Water Loss Control - East Fork SUD	677.95	337
Conservation, Water Loss Control - Willow Park	677.82	338
Conservation, Water Loss Control - Highland Village	677.79	339
Conservation, Water Loss Control - Denton	677.47	340
Conservation, Water Loss Control - Kennedale	677.29	341
Conservation, Water Loss Control - McKinney	677.28	342
Conservation, Water Loss Control - Melissa	677.20	343
Conservation, Water Loss Control - Justin	677.01	344
County Other, Parker - New Well(s) in Trinity Aquifer	676.95	345
Conservation, Water Loss Control - Providence Village WCID	676.81	346
Conservation, Water Loss Control - Denton County FWSD #10	676.74	347
Conservation, Water Loss Control - Lake Cities MUA	676.69	348
Conservation, Water Loss Control - Mustang SUD	676.29	349
Conservation, Water Loss Control - Pottsboro	676.17	350

Project Name	FINAL SCORE FOR PROJECT	Rank
Conservation, Water Loss Control - Crandall	675.41	351
TRWD - Additional Transmission Pipeline	675.36	352
Conservation, Water Loss Control - Southmayd	675.11	353
Gunter - New Well(s) in Trinity Aquifer	674.73	354
Conservation, Water Loss Control - Benbrook	674.51	355
Conservation, Water Loss Control - Sardis Lone Elm WSC	674.43	356
UTRWD WTP and Treated Water Distribution System Water Management Strategies 2050-2060	674.33	357
Arledge Ridge WSC - New Well(s) in Woodbine Aquifer	674.33	358
Conservation, Water Loss Control - Heath	674.07	359
Conservation, Water Loss Control - Walnut Creek SUD	673.73	360
GTUA - Parallel Collin-Grayson Municipal Alliance Pipeline	673.15	361
Conservation, Water Loss Control - Fate	672.44	362
TRWD - Reuse from TRA Central WWTP	672.04	363
Bells - New Well(s) in Woodbine Aquifer	668.15	364
Conservation, Water Loss Control - Mesquite	668.05	365
Dogwood Estates Water - New Well(s) in Carrizo-Wilcox Aquifer	666.66	366
Conservation, Water Loss Control - Garland	666.63	367
Fort Worth - 35 MGD WTP Expansion-Eagle Mountain	665.47	368
Conservation, Water Loss Control - Princeton	664.35	369
Wilmer - Direct connection to Dallas (36" Transmission Line)	664.34	370
Conservation, Water Loss Control - Blackland WSC	661.44	371
NTMWD - Additional Measure to Access Full Lake Lavon Yield	661.35	372
Corsicana - 8 MGD WTP Expansion, Halbert-Richland Chambers-1	660.90	373
Conservation, Water Loss Control - Kaufman County MUD 11	657.45	374
Conservation, Water Loss Control - Seis Lagos UD	657.31	375
Conservation, Water Loss Control - Red Oak	656.55	376
NTMWD Treatment & Treated Water Distribution Improvements 2050-2060	654.33	377
Eustace - New Well(s) in Carrizo-Wilcox Aquifer	653.45	378
Conservation, Water Loss Control - Denison	653.40	379
Blue Ridge - Increase Delivery Infrastructure from NTWMD-Phase I	652.95	380
Conservation, Water Loss Control - Milligan WSC	650.68	381
Conservation, Water Loss Control - The Colony	650.30	382

Project Name	FINAL SCORE FOR PROJECT	Rank
Conservation, Water Loss Control - Prosper	649.61	383
Southwest Fannin Co SUD - New Well(s) in Woodbine Aquifer	649.17	384
Forney - Increase Delivery Infrastructure from NTWMD	648.69	385
Conservation, Water Loss Control - Carrollton	647.49	386
Conservation, Water Loss Control - Balch Springs	647.25	387
Conservation, Water Loss Control - Farmers Branch	647.12	388
Pink Hill WSC - New Well(s) in Trinity Aquifer	646.79	389
Pink Hill WSC - New Well(s) in Woodbine Aquifer	646.79	389
Mining, Kaufman County - New Well(s) in Nacatoch Aquifer	645.85	391
Conservation, Water Loss Control - Lewisville	644.86	392
Conservation, Water Loss Control - Azle	643.30	393
Fort Worth Mary's Creek WRF Future Direct Reuse	642.60	394
County Other, Jack - Infrastructure to Connect to Jacksboro	642.42	395
Conservation, Water Loss Control - North Farmersville	642.42	396
Ennis - Indirect Reuse	641.79	397
Conservation, Water Loss Control - Forney	641.27	398
Conservation, Water Loss Control - Combine WSC	640.67	399
Fate - Additional Delivery Infrastructure from NTWMD	640.54	400
Conservation, Water Loss Control - Rockwall	640.46	401
Conservation, Water Loss Control - West Wise SUD	640.20	402
Conservation, Water Loss Control - Frisco	639.64	403
Lewisville - 6 MGD WTP Expansion-2	638.56	404
Conservation, Water Loss Control - East Cedar Creek FWSD	636.91	405
Conservation, Water Loss Control - Markout WSC	634.74	406
Burleson - Additional Infrastructure from Ft Worth	634.45	407
Conservation, Water Loss Control - Mabank	634.09	408
DWU - Main Stem Balancing Reservoir	633.42	409
Marvin Nichols (328) - TRWD, NTMWD, UTRWD	632.09	410
Marvin Nichols (328) - TRWD, NTMWD, UTRWD	632.09	410
Marvin Nichols (328) - TRWD, NTMWD, UTRWD	632.09	410
Conservation, Water Loss Control - Teague	629.91	413
Fort Worth - 50 MGD WTP Expansion-Rolling Hills	628.98	414
Palmer - Additional Delivery Infrastructure from Rockett	627.33	415
Conservation, Water Loss Control - Coppell	627.25	416

Project Name	FINAL SCORE FOR PROJECT	Rank
Conservation, Water Loss Control - Duncanville	626.92	417
M E N WSC - Additional Delivery Infrastructure from Corsicana (Upsize Lake Halbert Connection)	624.86	418
Conservation, Water Loss Control - Denton County FWSD #1A	624.29	419
Fort Worth - 35 MGD WTP Expansion-West Plant	619.23	420
Conservation, Water Loss Control - DeSoto	616.80	421
Conservation, Water Loss Control - Krum	616.00	422
Conservation, Water Loss Control - Hudson Oaks	615.03	423
Conservation, Water Loss Control - Decatur	614.94	424
Conservation, Water Loss Control - Gunter	614.81	425
Fort Worth - 23 MGD WTP Expansion-West Plant	612.52	426
Hackberry - Additional Delivery Infrastructure from NTMWD	611.95	427
TRWD - Carrizo-Wilcox Groundwater	608.35	428
Ennis - 6 MGD WTP Expansion	608.09	429
Conservation, Water Loss Control - Addison	607.20	430
Conservation, Water Loss Control - Hutchins	607.17	431
Conservation, Water Loss Control - Lancaster	606.93	432
Fort Worth - 30 MGD WTP Expansion-Eagle Mountain	605.27	433
Conservation, Water Loss Control - Blue Ridge	604.85	434
Trenton - New Well(s) in Woodbine Aquifer	604.71	435
Fort Worth Village Creek WRF Future Direct Reuse	603.66	436
Conservation, Water Loss Control - Flower Mound	603.62	437
Conservation, Water Loss Control - Weatherford	603.58	438
Conservation, Water Loss Control - Grapevine	602.20	439
Conservation, Water Loss Control - Kemp	600.05	440
Conservation, Water Loss Control - Parker County	599.48	441
Conservation, Water Loss Control - Seagoville	598.51	442
NTMWD - Expanded Wetland Reuse	597.42	443
Conservation, Water Loss Control - Mansfield	596.12	444
Conservation, Water Loss Control - Terrell	595.74	445
Denison - Expand Raw Water Delivery from Lake Texoma - Phase II	594.63	446
UTRWD WTP and Treated Water Distribution System Water Management Strategies 2060-2070	594.33	447
Conservation, Water Loss Control - Pilot Point	593.88	448

Project Name	FINAL SCORE FOR PROJECT	Rank
Conservation, Water Loss Control - Midlothian	593.87	449
TRWD - Tehuacana Reservoir	593.29	450
Denton - 20 MGD WTP Expansion- Ray Roberts	592.54	451
Fairfield - New WTP and transmission system from TRWD	591.60	452
NTMWD - Additional Lake Texoma Blend Phase I	589.84	453
West Wise SUD - 1.5 MGD WTP Expansion	576.13	454
NTMWD Treatment & Treated Water Distribution Improvements 2060-2070	574.33	455
NTWMD - FANNIN COUNTY WATER SUPPLY PROJECT	570.61	456
Fort Worth - 50 MGD WTP Expansion-General 1	562.54	457
Waxahachie - Dredge lake Waxahachie	562.24	458
Weatherford - 14 MGD WTP Expansion	561.91	459
Midlothian - Expand Auger WTP to 32 MGD	560.64	460
Lewisville - 6.5 MGD WTP Expansion	552.66	461
Sherman - 10 MGD WTP Expansion (Desal)-2	548.85	462
Waxahachie - Phase II Delivery Infrastructure to Customers in South Ellis County	544.80	463
Gainesville - Infrastructure to Deliver to Customers	543.35	464
County-Other, Freestone - New Delivery and Treatment Facilities from TRWD	532.67	465
Glenn Heights Additional Delivery Infrastructure from DWU	532.15	466
Ferris - Additional Delivery Infrastructure from Rockett	531.96	467
Gainesville - 5 MGD WTP Expansion 1	520.71	468
Denton - 30 MGD WTP Expansion- Ray Roberts-2	518.98	469
NTMWD - Additional Lake Texoma Blend Phase II	518.02	470
Bridgeport - Expand Capacity of Lake Intake and Pump Station	511.06	471
Black Rock WSC - New Well(s) in Trinity Aquifer	509.85	472
DWU - Neches River Run-of-the-River Diversions	498.15	473
Mansfield - 20 MGD WTP Expansion	486.00	474
NTMWD - Additional Lavon Watershed Reuse	480.97	475
Fort Worth - 50 MGD WTP Expansion-General 2	480.09	476
Weatherford - 18 MGD WTP Expansion	474.86	477
County-Other, Freestone - Additional Delivery Infrastructure from Corsicana	473.01	478
Rockett SUD - 10 MGD WTP Expansion at Sokoll-2	471.98	479



Project Name	FINAL SCORE FOR PROJECT	Rank
Ovilla - Additional Delivery Infrastructure from DWU	465.81	480
Mabank - 5 MGD WTP Expansion	462.66	481
Pelican Bay - Connect to Azle	461.30	482
Blue Ridge - Increase Delivery Infrastructure from NTWMD-Phase II	461.27	483
Desert WSC - New Well(s) in Woodbine Aquifer	460.67	484
Fort Worth - 50 MGD WTP Expansion-General 3	453.12	485
Ennis - 8 MGD WTP Expansion	450.63	486
Navarro Mills WSC - New Well in Woodbine Aquifer Q-168	450.35	487
Corsicana - 8 MGD WTP Expansion, Halbert-Richland Chambers-2	447.46	488
Denison - 10 MGD Desalination WTP Expansion	446.19	489
Walnut Creek SUD - New 7 MGD WTP-Eagle Mountain	445.97	490
Denton - 25 MGD WTP Expansion	440.62	491
Bridgeport - 2 MGD WTP Expansion	431.06	492
DWU - Lake Columbia	424.78	493
Aledo - Parallel Pipeline & Pump Station Expansion from Fort Worth	420.27	494
DWU - Parallel IPL	412.78	495
Wright Patman Reallocation NTMWD, TRWD, and UTRWD	405.59	496
Wright Patman Reallocation NTMWD, TRWD, and UTRWD	405.59	496
Wright Patman Reallocation NTMWD, TRWD, and UTRWD	405.59	496
Fort Worth - 50 MGD WTP Expansion-General 4	394.77	499
Sherman - 10 MGD WTP Expansion (Desal)-3	384.96	500
Waxahachie - 12 MGD WTP Expansion-Howard Road	380.52	501
Ennis - 16 MGD WTP Expansion	375.68	502
Runaway Bay - 3 MGD WTP Expansion-2	363.21	503
Sherman - 20 MGD WTP Expansion (Desal)	362.74	504
Gainesville - 5 MGD WTP Expansion 2	356.96	505
Denton - 20 MGD WTP Expansion	333.48	506
NTMWD - Oklahoma Water	330.25	507
Rockett SUD - 4 MGD WTP Expansion at Sokoll	327.33	508
Pleasant Grove WSC - New Well(s) in Carrizo-Wilcox Aquifer	313.45	509
College Mound - Additional Delivery Infrastructure from Terrell	280.69	510
Bridgeport - 1 MGD WTP Expansion	246.49	511

**Table 2 Region C Project (without Conservation) Rankings**

Project Name	FINAL SCORE FOR PROJECT	Rank
DWU - Infrastructure to Treat and Deliver to Customers 2020	950.33	1
UTRWD WTP and Treated Water Distribution System Water Management Strategies 2020-2030	942.33	2
NTMWD Treatment & Treated Water Distribution Improvements 2020-2030	922.33	3
Newark - Connect to Rhome	917.98	4
Midlothian - Expand Tayman WTP to 20 MGD	914.33	5
Terrell - Ground Storage Tank and Pump Station at NTWMD Delivery Point	913.91	6
Terrell - Infrastructure Improvements to wholesale customer	913.91	6
Runaway Bay - Increase Capacity of Lake Intake	906.71	8
B H P WSC - Direct Connection to NTWMD	901.84	9
Manufacturing, Wise County - New Well(s) in Trinity Aquifer	894.79	10
Irving - TRA Central Reuse	892.00	11
Livestock, Henderson - New Well(s) in Carrizo-Wilcox Aquifer	882.33	12
Livestock, Tarrant - New Well(s) in Trinity Aquifer	882.33	12
Mining, Grayson County - New Well(s) in Trinity Aquifer	882.33	12
NTMWD - Bois d'Arc Lake	881.56	15
DWU - Infrastructure to Treat and Deliver to Customers 2030	874.33	16
Willow Park - Connect to Fort Worth	872.61	17
Mining, Parker County - New Well(s) in Trinity Aquifer	862.33	18
East Fork SUD - Additional Delivery Infrastructure from NTMWD	862.09	19
Cash WSC - Additional Delivery Infrastructure from NTMWD	861.34	20
Grand Prairie - Additional Delivery Infrastructure from DWU	858.91	21
UTRWD - Lake Ralph Hall and Reuse	856.99	46
Parker - Additional Delivery Infrastructure from NTWMD	856.67	47
Northwest Grayson County WCID 1 - New Well(s) in Trinity Aquifer	855.95	48
Wise County WSD - 9 MGD WTP Expansion	855.14	49
Rockwall - Additional Delivery Infrastructure from NTWMD	854.73	50
Springtown - Infrastructure Improvements- Surface Water Treatment Plant & Supply Project	853.38	51
Azle - 4 MGD WTP Expansion	849.46	53

Project Name	FINAL SCORE FOR PROJECT	Rank
Crowley - Additional Delivery Infrastructure Fort Worth	846.15	54
Athens MWA - WTP Infrastructure Improvements	845.74	55
Mabank - Additional Delivery Infrastructure from TRWD (Cedar Creek Reservoir)	840.72	56
Watauga & N Richland Hills - Increase Delivery Infrastructure from Fort Worth	837.58	72
Parker County SUD - 3.5 MGD WTP Desal Expansion-BRA Supply	836.31	73
UTRWD WTP and Treated Water Distribution System Water Management Strategies 2030-2040	834.33	74
Wilmer - Increase Capacity of Connection with Lancaster	834.04	75
Bois d'Arc MUD - Connect to NTWMD	830.38	76
Midlothian - Expand Auger WTP to 16 MGD	830.12	77
Wylie Northeast SUD - Additional Delivery Infrastructure from NTWMD	830.06	78
Sunnyvale - Additional Delivery Infrastructure from NTMWD	823.94	79
Muenster - Develop Lake Muenster Supply	822.33	80
NTMWD Treatment & Treated Water Distribution Improvements 2030-2040	814.33	82
Hudson Oaks - Direct Connection to Fort Worth	814.27	83
Rice WSC - Additional Delivery Infrastructure from Corsicana	812.67	84
Prosper - Additional Delivery Infrastructure from NTMWD	811.95	85
Rowlett - Additional Delivery Infrastructure from NTWMD	806.42	87
Irrigation, Fannin - New Well(s) in Trinity Aquifer	804.84	88
DWU - Connect IPL to Bachman	803.02	89
Weatherford - Additional Indirect Reuse Phase I	802.51	90
Leonard - Water System Improvements	802.33	91
Watauga - Additional delivery infrastructure North Richland Hills/Fort Worth	798.72	92
DWU - Infrastructure to Treat and Deliver to Customers 2040	794.33	102
Weatherford - Expand Lake Benbrook Pump Station	792.53	104
South Freestone County WSC - New Well(s) in Carrizo-Wilcox Aquifer	791.41	105
Denison - Expand Raw Water Delivery from Lake Texoma - Phase I	789.22	106
Runaway Bay - 3 MGD WTP Expansion-1	788.93	107
Kennedale - Connect to Arlington	788.59	108
Cross Timbers WSC - Additional Delivery Infrastructure	788.19	109

Project Name	FINAL SCORE FOR PROJECT	Rank
Teague - New Wells in Carrizo-Wilcox Aquifer Q-135	788.02	110
Weatherford - 8 MGD WTP Expansion	786.34	111
Waxahachie - Phase I Delivery Infrastructure to Customers in South Ellis County	785.87	112
TRWD - ASR Pilot	782.84	115
Ladonia - Infrastructure and treatment from water from Ralph Hall (UTRWD)	782.33	116
Athens MWA - New Wells Phase I	781.99	117
TRWD - Cedar Creek Wetlands Reuse	781.08	119
Athens MWA - New Wells Phase II	780.94	120
Justin - New Well(s) in Trinity Aquifer	780.11	123
Walnut Creek SUD - 6 MGD WTP Expansion	779.81	124
Mabank - 3 MGD WTP Expansion	776.15	141
Lakeside - New Well(s) in Trinity Aquifer	776.04	142
Blackland WSC - Direct Connection to NTWMD	775.67	143
Mansfield - 15 MGD WTP Expansion	774.69	144
Weatherford - Additional Indirect Reuse Phase II	774.32	145
Midlothian - Expand Auger WTP to 24 MGD	771.70	146
County Other, Jack - Infrastructure to Connect to Walnut Creek SUD	771.69	147
SEP, Tarrant - Reuse	769.26	150
Krum - New Well(s) in Trinity Aquifer	769.22	152
Argyle WSC - New Well(s) in Trinity Aquifer	768.73	153
Frisco - Direct Reuse	768.28	154
Waxahachie - 8 MGD WTP Expansion-Howard Road	766.47	155
Rockett SUD - 10 MGD WTP Expansion at Sokoll-1	764.39	156
Celina - Connect to and Purchase Water from NTMWD	764.11	157
Bolivar WSC - New Well(s) in Trinity Aquifer	759.88	165
Waxahachie - 36" Raw water line from IPL to Lake Waxahachie	756.24	196
Waxahachie - 36" Raw Water line from Lake Waxahachie to Howard Rd WTP	756.24	196
Waxahachie - 48" TRWD Parallel Supply Line to Sokoll WTP	756.24	196
Waxahachie - Increase delivery infrastructure to Rockett SUD	756.24	196
Waxahachie - Raw Water Intake Improvements at Lake Bardwell	756.24	196

Project Name	FINAL SCORE FOR PROJECT	Rank
UTRWD WTP and Treated Water Distribution System Water Management Strategies 2040-2050	754.33	202
GTUA - Regional Water System Phase I	752.23	204
Mansfield - 35 MGD WTP Expansion	751.10	206
Grand Prairie - Connect to Arlington	749.36	208
County Other, Kaufman - WTP and Connect to TRWD	748.46	211
Waxahachie - 30" Raw water line from IPL to Howard Road WTP	748.24	212
County-Other, Denton - New Well(s) in Woodbine Aquifer	746.38	214
Pilot Point - New Well(s) in Trinity Aquifer	746.00	215
Blue Ridge - Connect to and Purchase Water from NTWMD	743.83	216
County-Other, Denton - New Well(s) in Trinity Aquifer	742.92	217
Dorchester - New Well(s) in Trinity Aquifer	742.33	218
Pelican Bay - New Well(s) in Trinity Aquifer	740.67	220
Anna - New Well(s) in Woodbine Aquifer	740.48	221
TRWD - Additional Capacity to Convey Richland Chambers Reuse (IPL)	737.35	224
Melissa - Additional Delivery Infrastructure from NTMWD	736.97	225
NTMWD Treatment & Treated Water Distribution Improvements 2040-2050	734.33	226
Alvord - Connect to West Wise SUD	733.88	227
Sherman - 10 MGD WTP Expansion (Desal)-1	733.77	228
GTUA - Regional Water System Phase II	733.21	229
Annetta - Connect to Weatherford	732.33	230
Benbrook - 3 MGD WTP Expansion	731.86	231
Denton - 30 MGD WTP Expansion- Ray Roberts-1	731.77	232
Verona SUD - New Well(s) in Woodbine Aquifer	728.06	236
White Shed WSC - New Well(s) in Woodbine Aquifer	725.34	241
Kennedale - Additional Delivery Infrastructure from Fort Worth	723.83	243
County-Other, Parker-WTP and Transmission Facilities to TRWD	722.66	246
Fort Worth Direct Reuse - Alliance Corridor	721.92	248
UTRWD - Additional Direct Reuse	720.69	249
Pantego - Connect to Arlington	720.67	250
Cross Timbers WSC - New Well(s) in Trinity Aquifer	716.29	264
Gainesville - Expand Direct Reuse	711.22	269
NTMWD & Irving - Lake Chapman Pump Station Expansion	705.67	273

Project Name	FINAL SCORE FOR PROJECT	Rank
NTMWD & Irving - Lake Chapman Pump Station Expansion	705.67	273
Denison - New 4 MGD Desalination WTP	702.14	278
Pantego - Connect to Fort Worth	700.67	279
GTUA - Connection from Sherman to CGMA	697.83	284
Southlake - Additional Delivery Infrastructure Fort Worth	696.08	289
Corsicana - New 8 MGD WTP, Halbert-Richland Chambers	693.95	296
Flower Mound - Alliance Direct Reuse	687.91	306
Van Alstyne - Water System Improvements	684.52	311
Lewisville - 6 MGD WTP Expansion-1	681.61	315
Sardis Lone Elm - Connect to TRWD	681.56	316
Chico - Additional Delivery Infrastructure from West Wise SUD	680.05	320
Manufacturing, Collin - New Well(s) in Woodbine Aquifer	678.89	327
County Other, Parker - New Well(s) in Trinity Aquifer	676.95	345
TRWD - Additional Transmission Pipeline	675.36	352
Gunter - New Well(s) in Trinity Aquifer	674.73	354
UTRWD WTP and Treated Water Distribution System Water Management Strategies 2050-2060	674.33	357
Arledge Ridge WSC - New Well(s) in Woodbine Aquifer	674.33	358
GTUA - Parallel Collin-Grayson Municipal Alliance Pipeline	673.15	361
TRWD - Reuse from TRA Central WWTP	672.04	363
Bells - New Well(s) in Woodbine Aquifer	668.15	364
Dogwood Estates Water - New Well(s) in Carrizo-Wilcox Aquifer	666.66	366
Fort Worth - 35 MGD WTP Expansion-Eagle Mountain	665.47	368
Wilmer - Direct connection to Dallas (36" Transmission Line)	664.34	370
NTMWD - Additional Measure to Access Full Lake Lavon Yield	661.35	372
Corsicana - 8 MGD WTP Expansion, Halbert-Richland Chambers-1	660.90	373
NTMWD Treatment & Treated Water Distribution Improvements 2050-2060	654.33	377
Eustace - New Well(s) in Carrizo-Wilcox Aquifer	653.45	378
Blue Ridge - Increase Delivery Infrastructure from NTWMD-Phase I	652.95	380
Southwest Fannin Co SUD - New Well(s) in Woodbine Aquifer	649.17	384
Forney - Increase Delivery Infrastructure from NTWMD	648.69	385
Pink Hill WSC - New Well(s) in Trinity Aquifer	646.79	389
Pink Hill WSC - New Well(s) in Woodbine Aquifer	646.79	389

Project Name	FINAL SCORE FOR PROJECT	Rank
Mining, Kaufman County - New Well(s) in Nacatoch Aquifer	645.85	391
Fort Worth Mary's Creek WRF Future Direct Reuse	642.60	394
County Other, Jack - Infrastructure to Connect to Jacksboro	642.42	395
Ennis - Indirect Reuse	641.79	397
Fate - Additional Delivery Infrastructure from NTWMD	640.54	400
Lewisville - 6 MGD WTP Expansion-2	638.56	404
Burleson - Additional Infrastructure from Ft Worth	634.45	407
DWU - Main Stem Balancing Reservoir	633.42	409
Marvin Nichols (328) - TRWD, NTMWD, UTRWD	632.09	410
Marvin Nichols (328) - TRWD, NTMWD, UTRWD	632.09	410
Marvin Nichols (328) - TRWD, NTMWD, UTRWD	632.09	410
Fort Worth - 50 MGD WTP Expansion-Rolling Hills	628.98	414
Palmer - Additional Delivery Infrastructure from Rockett	627.33	415
M E N WSC - Additional Delivery Infrastructure from Corsicana (Upsize Lake Halbert Connection)	624.86	418
Fort Worth - 35 MGD WTP Expansion-West Plant	619.23	420
Fort Worth - 23 MGD WTP Expansion-West Plant	612.52	426
Hackberry - Additional Delivery Infrastructure from NTMWD	611.95	427
TRWD - Carrizo-Wilcox Groundwater	608.35	428
Ennis - 6 MGD WTP Expansion	608.09	429
Fort Worth - 30 MGD WTP Expansion-Eagle Mountain	605.27	433
Trenton - New Well(s) in Woodbine Aquifer	604.71	435
Fort Worth Village Creek WRF Future Direct Reuse	603.66	436
NTMWD - Expanded Wetland Reuse	597.42	443
Denison - Expand Raw Water Delivery from Lake Texoma - Phase II	594.63	446
UTRWD WTP and Treated Water Distribution System Water Management Strategies 2060-2070	594.33	447
TRWD - Tehuacana Reservoir	593.29	450
Denton - 20 MGD WTP Expansion- Ray Roberts	592.54	451
Fairfield - New WTP and transmission system from TRWD	591.60	452
NTMWD - Additional Lake Texoma Blend Phase I	589.84	453
West Wise SUD - 1.5 MGD WTP Expansion	576.13	454
NTMWD Treatment & Treated Water Distribution Improvements 2060-2070	574.33	455

Project Name	FINAL SCORE FOR PROJECT	Rank
NTWMD - FANNIN COUNTY WATER SUPPLY PROJECT	570.61	456
Fort Worth - 50 MGD WTP Expansion-General 1	562.54	457
Waxahachie - Dredge lake Waxahachie	562.24	458
Weatherford - 14 MGD WTP Expansion	561.91	459
Midlothian - Expand Auger WTP to 32 MGD	560.64	460
Lewisville - 6.5 MGD WTP Expansion	552.66	461
Sherman - 10 MGD WTP Expansion (Desal)-2	548.85	462
Waxahachie - Phase II Delivery Infrastructure to Customers in South Ellis County	544.80	463
Gainesville - Infrastructure to Deliver to Customers	543.35	464
County-Other, Freestone - New Delivery and Treatment Facilities from TRWD	532.67	465
Glenn Heights Additional Delivery Infrastructure from DWU	532.15	466
Ferris - Additional Delivery Infrastructure from Rockett	531.96	467
Gainesville - 5 MGD WTP Expansion 1	520.71	468
Denton - 30 MGD WTP Expansion- Ray Roberts-2	518.98	469
NTMWD - Additional Lake Texoma Blend Phase II	518.02	470
Bridgeport - Expand Capacity of Lake Intake and Pump Station	511.06	471
Black Rock WSC - New Well(s) in Trinity Aquifer	509.85	472
DWU - Neches River Run-of-the-River Diversions	498.15	473
Mansfield - 20 MGD WTP Expansion	486.00	474
NTMWD - Additional Lavon Watershed Reuse	480.97	475
Fort Worth - 50 MGD WTP Expansion-General 2	480.09	476
Weatherford - 18 MGD WTP Expansion	474.86	477
County-Other, Freestone - Additional Delivery Infrastructure from Corsicana	473.01	478
Rockett SUD - 10 MGD WTP Expansion at Sokoll-2	471.98	479
Ovilla - Additional Delivery Infrastructure from DWU	465.81	480
Mabank - 5 MGD WTP Expansion	462.66	481
Pelican Bay - Connect to Azle	461.30	482
Blue Ridge - Increase Delivery Infrastructure from NTWMD-Phase II	461.27	483
Desert WSC - New Well(s) in Woodbine Aquifer	460.67	484
Fort Worth - 50 MGD WTP Expansion-General 3	453.12	485
Ennis - 8 MGD WTP Expansion	450.63	486



Project Name	FINAL SCORE FOR PROJECT	Rank
Navarro Mills WSC - New Well in Woodbine Aquifer Q-168	450.35	487
Corsicana - 8 MGD WTP Expansion, Halbert-Richland Chambers-2	447.46	488
Denison - 10 MGD Desalination WTP Expansion	446.19	489
Walnut Creek SUD - New 7 MGD WTP-Eagle Mountain	445.97	490
Denton - 25 MGD WTP Expansion	440.62	491
Bridgeport - 2 MGD WTP Expansion	431.06	492
DWU - Lake Columbia	424.78	493
Aledo - Parallel Pipeline & Pump Station Expansion from Fort Worth	420.27	494
DWU - Parallel IPL	412.78	495
Wright Patman Reallocation NTMWD, TRWD, and UTRWD	405.59	496
Wright Patman Reallocation NTMWD, TRWD, and UTRWD	405.59	496
Wright Patman Reallocation NTMWD, TRWD, and UTRWD	405.59	496
Fort Worth - 50 MGD WTP Expansion-General 4	394.77	499
Sherman - 10 MGD WTP Expansion (Desal)-3	384.96	500
Waxahachie - 12 MGD WTP Expansion-Howard Road	380.52	501
Ennis - 16 MGD WTP Expansion	375.68	502
Runaway Bay - 3 MGD WTP Expansion-2	363.21	503
Sherman - 20 MGD WTP Expansion (Desal)	362.74	504
Gainesville - 5 MGD WTP Expansion 2	356.96	505
Denton - 20 MGD WTP Expansion	333.48	506
NTMWD - Oklahoma Water	330.25	507
Rockett SUD - 4 MGD WTP Expansion at Sokoll	327.33	508
Pleasant Grove WSC - New Well(s) in Carrizo-Wilcox Aquifer	313.45	509
College Mound - Additional Delivery Infrastructure from Terrell	280.69	510
Bridgeport - 1 MGD WTP Expansion	246.49	511
Bridgeport - 1 MGD WTP Expansion	246.49	513











Alpha/Unique Identifier	WMS Project Sponsor Region	Project Name	Project Sponsor Entity	Capital Cost	ProjectID	WMS/Project Sponsor/Rate	WMS/Project Sponsor/Rate	Human/Agricultural Conservation?	Conservation/Reuse?	Criteria 1 - Decade of Need for Project				Criteria 2 - Project Feasibility				Criteria 3 - Project Viability				Criteria 4 - Project Sustainability				Criteria 5 - Project Cost Effectiveness		FINAL SCORE FOR PROJECT						
										10	10	20	400	5	5	10	5	25	100	100	10	100	10	5	5	30.00	250.00		10	5	15	150	5	100
										Uniform Standard 1A - What is the decade the RWP shows the project comes online? (2070 = 0 points; 2080 = 2; 2090 = 4; 2040 = 6; 2030 = 8; 2020 = 10)	Uniform Standard 1B - In what decade is initial funding needed? (2070 = 0 points; 2080 = 2; 2090 = 4; 2040 = 6; 2030 = 8; 2020 = 10)	Criteria 1 Total Score	Weighted Criteria 1 Total	Uniform Standard 2A - What supporting data is available to show that the quantity of water needed is available? (Models suggest insufficient quantities of water = 0 points; models suggest sufficient quantity of water = 3; field tests, measurements, or project specific studies confirm sufficient quantities of water = 5)	Uniform Standard 2B - If necessary, does the sponsor hold necessary legal rights, water rights and/or contracts to use the water that this project would require? (Legal rights, water rights and/or contract application not submitted = 0 points; application submitted = 2; application is administratively complete = 3; legal rights, water rights and/or contracts obtained or not needed = 5)	Uniform Standard 2C - What level of engineering and/or planning has been accomplished for this project? (Project idea is outlined in RWP = 1 point; feasibility studies initiated = 2; feasibility studies completed = 3; conceptual design initiated = 4; conceptual design completed = 5; preliminary engineering report initiated = 6; preliminary engineering report completed = 7; preliminary design initiated = 8; preliminary design completed = 9; final design complete = 10)	Uniform Standard 2D - Has the project sponsor requested in writing that the project be included in the Regional Water Plan? (No = 0 points; yes = 5)	Criteria 2 Total Score	Weighted Criteria 2 Total	Uniform Standard 3A - In the decade the project supply comes online, what is the % of the WUG's (or WUGs) needs satisfied by this project? (Calculation is based on the needs of all WUGs receiving water from the project.)	Converted Needs-based score for Uniform Standard 3A	Uniform Standard 3B - In the final decade of the planning period, what is the % of the WUG's (or WUGs) needs satisfied by this project? (Calculation is based on the needs of all WUGs receiving water from the project.)	Converted Needs-based score for Uniform Standard 3B	Uniform Standard 3C - Is this project the only economically feasible source of new supply for the WUG, other than conservation? (No = 0 points; Yes = 5)	Uniform Standard 3D - Does this project serve multiple WUGs? (No = 0 points; Yes = 5)	Criteria 3 Total Score	Weighted Criteria 3 Total		Uniform Standard 4A - Over what period of time is this project expected to provide water (regardless of the planning period)? (Less than or equal to 20 yrs = 5 points; greater than 20 yrs = 10)	Uniform Standard 4B - Does the volume of water supplied by the project change over the regional water planning period? (Decreases = 0 points; no change = 3; increases = 5)	Criteria 4 Total Score	Weighted Criteria 4 Total	Uniform Standard 5A - What is the expected unit cost of water supplied by this project compared to the median unit cost of all other recommended strategies in the region's current RWP? (Project's Unit Cost divided by the median project's unit cost) (200% or greater than median = 0 points; 150% to 200% = 1; 101% to 149% = 2; 100% = 3; 51% to 99% = 4; 0% to 50% = 5)	Weighted Criteria 5 Total
938	C	Weatherford - 8 MGD WTP Expansion	WEATHERFORD	\$ 47,753,000	938	146				10	10	20	400	3	5	1	5	14	56	1033.18	10.00	18.41	1.84	0	5	16.84	140.34	10	5	15	150	2	40	786.34
4086	C	Weatherford - Additional Indirect Reuse Phase I	WEATHERFORD	\$ 14,840,000	4086	146	x			10	10	20	400	3	5	1	5	14	56	1033.18	10.00	13.81	1.38	0	5	16.38	136.51	10	3	13	130	4	80	802.51
4098	C	Weatherford - Additional Indirect Reuse Phase II	WEATHERFORD	\$ 486,000	4098	146	x			8	10	18	360	3	5	1	5	14	56	75.39	7.54	4.60	0.46	0	5	13.00	108.32	10	5	15	150	5	100	774.32
1108	C	Weatherford - Expand Lake Benbrook Pump Station	WEATHERFORD	\$ 2,299,000	1108	146				10	10	20	400	3	5	1	5	14	56	206.45	10.00	1.84	0.18	0	5	15.18	126.53	10	3	13	130	4	80	792.33
941	C	West Wise SUD - 1.5 MGD WTP Expansion	WEST WISE SUD	\$ 10,015,000	941	2805				4	6	10	200	3	5	1	5	14	56	58.54	5.85	71.61	7.16	0	5	18.02	150.13	10	5	15	150	1	20	576.13
3822	C	White Shed WSC - New Well(s) in Woodbine Aquifer	WHITE SHED WSC	\$ 6,299,000	3822	13310				8	10	18	360	3	0	3	0	6	24	84.62	8.46	96.99	9.70	0	0	18.36	151.34	10	5	15	150	2	40	725.34
1139	C	Willow Park - Connect to Fort Worth	WILLOW PARK	\$ 4,017,000	1139	2458				10	10	20	400	3	5	8	0	16	64	93.37	9.34	96.96	9.70	0	0	19.03	158.61	10	5	15	150	5	100	873.61
1024	C	Wilmer - Direct connection to Dallas (36" Transmission	WILMER	\$ 18,621,000	1024	2460				10	10	20	400	3	5	1	0	9	36	82.35	8.24	11.65	1.17	0	0	9.40	78.34	10	5	15	150	0	0	664.34
1025	C	Wilmer - Increase Capacity of Connection with Lancaster	WILMER	\$ 5,280,000	1025	2460				10	10	20	400	3	5	8	0	16	64	87.18	8.72	80.87	8.09	0	0	16.80	140.04	10	5	15	150	4	80	834.04
943	C	Wise County WSD - 9 MGD WTP Expansion	WISE COUNTY WSD	\$ 3,139,000	943	157				10	10	20	400	3	5	8	0	21	84	77.06	7.71	90.31	9.03	0	5	21.74	181.14	10	5	15	150	2	40	851.14
3862	C	Wright Patman Reallocation NTMWD, TRWD, and UTRW	NORTH TEXAS MWD	\$ 730,827,000	3862	102				0	6	6	120	5	0	3	0	13	52	13.16	1.32	13.16	1.32	0	5	7.63	63.59	10	3	13	130	2	40	405.59
3862	C	Wright Patman Reallocation NTMWD, TRWD, and UTRW	TARRANT REGIONAL WD	\$ 765,040,000	3862	129				0	6	6	120	5	0	3	0	13	52	13.16	1.32	13.16	1.32	0	5	7.63	63.59	10	3	13	130	2	40	405.59
3862	C	Wright Patman Reallocation NTMWD, TRWD, and UTRW	UPPER TRINITY REGIONAL WD	\$ 149,844,000	3862	141				0	6	6	120	5	0	3	0	13	52	13.16	1.32	13.16	1.32	0	5	7.63	63.59	10	3	13	130	2	40	405.59
1010	C	Wylie Northeast SUD - Additional Delivery Infrastructure	WYLLIE NORTHEAST SUD	\$ 5,731,000	1010	2870				8	10	18	360	3	5	8	0	16	64	92.68	9.27	94.59	9.46	0	0	18.73	156.06	10	5	15	150	2	100	830.06