

**APPENDIX U**

**TEXAS WATER DEVELOPMENT BOARD TABLE 13  
RECOMMENDED MANAGEMENT STRATEGIES  
BY MAJOR WATER PROVIDER**

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## **Introduction**

One of the tables the Texas Water Development Board requires in the development of regional water plans is TWDB Table 13, which shows the recommended strategies for meeting water shortages for each Major Water Provider (MWP). The TWDB requires that the table include the following information <sup>(56)</sup>:

- A. Major Water Provider Name
- B. Major Water Provider Number (TWDB Alpha Number)
- C. Basin Number (see key before TWDB Table 13)
- D. Type of Water Supply (see key before TWDB Table 12)
- E. Regional Water Planning Group where Source is Located
- F. County Number of Source (see key to counties before TWDB Table 12)
- G. Basin Number of Source (see key before TWDB Table 12)
- H. Name of Water Management Strategy
- I. Specific Source Identifier (see key before TWDB Table 12)
- J. Specific Source Name
- K. Total Capital Cost (1999 Second Quarter Dollars)
- L-Q. Total Supply Available from Each Strategy During the Drought of Record Conditions for the Years 2000-2050
- R. Exception from Meeting Needs (Due to (a) no water management strategy being feasible or (b) political subdivision that provides water supply has not participated in the regional water planning effort)
- S. Scenario Number for Meeting Long-Term Needs. Leave blank if only one scenario is considered in TWDB Table 11.

TWDB Table 13 shows the amount of water made available by each recommended water management strategy and the associated capital cost for each strategy. The recommended water management strategies are chosen from the feasible options listed in TWDB Table 11.

## **Key to Texas Water Development Board Codes in TWDB Table 13**

### ***Major Water Provider Numbers***

The TWDB assigned identification numbers for all of the entities determined to be Major Water Providers within their regions. The following are the five Major Water Providers in Region C:

160	North Texas Municipal Water District
171	Trinity River Authority
190	Tarrant Regional Water District
206800	Dallas Water Utilities
298900	City of Fort Worth

### ***Basin Numbers***

The TWDB also assigned numbers to correspond to the various river basins in Texas. The following are the river basins in Region C:

2	Red River Basin
3	Sulphur River Basin
5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

### ***Type of Water Supply***

The TWDB developed a coding system for the various water management strategies. The strategies all begin with the number 4 and are followed by one or more letters matching the description of the management strategy. The Type of Water Supply is defined in the following table:

a	Water conservation and drought response planning including water demand management
b	Reuse of wastewater
c	Expanded use or acquisition of existing supplies including systems optimization and conjunctive use of surface water and groundwater
d	Reallocation of reservoir storage to new uses
e	Voluntary redistribution of water resources including water marketing, regional water banks, sales, leases, options, subordination agreements, and financing agreements
f	Subordination of existing water rights through voluntary agreements
g	Enhancements of yields of existing sources
h	Control of naturally occurring chlorides or other minerals
i	Interbasin transfers
j	New supply development including construction and improvement of surface water resources
k	Water management strategies identified in the state water plan for the regional water planning area
l	Brush control, precipitation enhancement, and desalinization
m	Water supply that could be made available by cancellation of water rights based on data provided by the TNRCC
n	Aquifer storage and recovery
o	Other measures
p	Renewal of existing contracts

### ***Regional Water Planning Groups***

The TWDB divided the State of Texas into 16 regions in Senate Bill One (SB1) for the purpose of water planning. The following are the 16 SB1 regions:

- A Panhandle Water Planning Group
- B Region B Water Planning Group
- C Region C Water Planning Group
- D North East Texas Regional Water Planning Group
- E Far West Texas Water Planning Group
- F Region F Water Planning Group
- G Brazos G Water Planning Group
- H Region H Water Planning Group
- I East Texas Water Planning Group

- J Plateau Water Planning Group
- K Lower Colorado Water Planning Group
- L South Central Texas Water Planning Group
- M Rio Grande Water Planning Group
- N Coastal Bend Water Planning Group
- O Llano-Estacado Water Planning Group
- P Lavaca Water Planning Group

**TWDB Table 13  
Recommended Management Strategies by Major Provider of Municipal and Manufacturing Water**

A	B	C		D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	
Major Water Provider Name	Major Water Provider Number (TWDB Alpha Number)	Basin Number for Basin of Use	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source (Groundwater Supplies only)	County Name of Source	Basin Number of Source	Basin Name of Source	Name of Water Management Strategy	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Exception from Meeting Needs Due To	Scenario Number for Meeting Long-Term Needs (Blank if only one listed)	Comments
North Texas Municipal Water District	160	5	Sabine	4e3	C			2	Red	Additional indirect reuse.	02230P	Additional Reuse	\$1,000,000	0	38	213	523	561	584			Additional reuse
North Texas Municipal Water District	160	5	Sabine	4e3	C			2	Red	Additional Lake Texoma	02230P	Additional Lake Texoma	\$5,286,000	0	100	100	100	100	100			Additional Lake Texoma
North Texas Municipal Water District	160	5	Sabine	4e3						Oklahoma water		Oklahoma water	\$68,777,000	0	246	423	678	720	746			Import Oklahoma water
North Texas Municipal Water District	160	5	Sabine	4e3	C			2	Red	Lower Bois d'Arc Creek Lake		Lower Bois d'Arc Creek Lake	\$167,324,000	0	0	829	1,330	1,412	1,463			New surface water supply
North Texas Municipal Water District	160	5	Sabine	4e3	D			3	Sulphur	Marvin Nichols I Lake (Phase I)	03050	Marvin Nichols I Lake (Phase I)	\$259,218,000	0	0	0	1,107	1,175	1,175			New surface water supply
North Texas Municipal Water District	160	5	Sabine	4e3	D			3	Sulphur	Marvin Nichols I Lake (Phase II)	03050	Marvin Nichols I Lake (Phase II)	\$132,387,000	0	0	0	0	0	1,262			New surface water supply
North Texas Municipal Water District	160	8	Trinity	4e3	C			2	Red	Additional indirect reuse.	02230P	Additional Reuse		0	17,898	26,691	35,349	35,311	35,288			Cost included above
North Texas Municipal Water District	160	8	Trinity	4e3	C			2	Red	Additional Lake Texoma	02230P	Additional Lake Texoma		0	9,900	9,900	9,900	9,900	9,900			Cost included above
North Texas Municipal Water District	160	8	Trinity	4e3						Oklahoma water		Oklahoma water		0	49,754	49,577	49,322	49,280	49,254			Cost included above
North Texas Municipal Water District	160	8	Trinity	4e3	C			2	Red	Lower Bois d'Arc Creek Lake		Lower Bois d'Arc Creek Lake		0	0	97,171	96,670	96,588	96,537			Cost included above
North Texas Municipal Water District	160	8	Trinity	4e3	D			3	Sulphur	Marvin Nichols I Lake (Phase I)	03050	Marvin Nichols I Lake (Phase I)		0	0	0	80,543	80,475	80,475			Cost included above
North Texas Municipal Water District	160	8	Trinity	4e3	D			3	Sulphur	Marvin Nichols I Lake (Phase II)	03050	Marvin Nichols I Lake (Phase II)		0	0	0	0	0	80,388			Cost included above
North Texas Municipal Water District	160	8	Trinity	4o	C			8	Trinity	Water Treatment Plant Expansions in 2010		Water Treatment Plant Expansions in 2010	\$194,409,000	0	0	0	0	0	0			

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S				
Major Water Provider Name	Major Water Provider Number (TWDB Alpha Number)	Basin Number for Basin of Use	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source (Groundwater Supplies only)	County Name of Source	Basin Number of Source	Basin Name of Source	Name of Water Management Strategy	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Exception from Meeting Needs Due To	Scenario Number for Meeting Long-Term Needs (Blank if only one listed)	Comments
North Texas Municipal Water District	160	8	Trinity	4o	C			8	Trinity	Water Treatment Plant Expansions in 2020		Water Treatment Plant Expansions in 2020	\$67,592,000	0	0	0	0	0	0			
North Texas Municipal Water District	160	8	Trinity	4o	C			8	Trinity	Water Treatment Plant Expansions in 2030		Water Treatment Plant Expansions in 2030	\$187,240,000	0	0	0	0	0	0			
North Texas Municipal Water District	160	8	Trinity	4o	C			8	Trinity	Water Treatment Plant Expansions in 2040		Water Treatment Plant Expansions in 2040	\$168,490,000	0	0	0	0	0	0			
North Texas Municipal Water District	160	8	Trinity	4o	C			8	Trinity	Water Treatment Plant Expansions in 2050		Water Treatment Plant Expansions in 2050	\$183,724,000	0	0	0	0	0	0			
<b>TOTAL NTMWD</b>													\$1,435,447,000	0	77,936	184,904	275,522	275,522	357,172			
Dallas	2E+05	8	Trinity	4e1	C			8	Trinity	Return flows above lakes	086D0	Return flows above lakes	\$0	50,000	40,000	30,000	20,000	10,000	0			
Dallas	2E+05	8	Trinity	4e1	C			8	Trinity	Additional Temporary Overdraft	086D0	Additional Temporary Overdraft	\$0	22,000	0	0	0	0	0			
Dallas	2E+05	8	Trinity	4e1	C			8	Trinity	Extend Elm Fork Term Permit	086D0	Extend Elm Fork Term Permit	\$500,000	0	0	10,000	10,000	10,000	10,000			
Dallas	2E+05	8	Trinity	4e1	D			5	Sabine	Lake Fork Connection	05040	Lake Fork Connection	\$288,000,000	0	120,000	120,000	120,000	120,000	120,000			
Dallas	2E+05	8	Trinity	4e1	I			6	Neches	Lake Palestine Connection	06020	Lake Palestine Connection	\$332,600,000	0	0	111,500	110,900	110,200	109,600			
Dallas	2E+05	8	Trinity	4e1	D			3	Sulphur	Marvin Nichols I Lake (Phase I)	03050	Marvin Nichols I Lake (Phase I)	\$220,796,000	0	0	0	56,000	56,000	56,000			
Dallas	2E+05	8	Trinity	4e1	D			3	Sulphur	Marvin Nichols I Lake (Phase II)	03050	Marvin Nichols I Lake (Phase II)	\$131,530,000	0	0	0	0	0	56,000			
Dallas	2E+05	8	Trinity	4e1	C			8	Trinity	Indirect Reuse		Indirect Reuse	\$124,000,000	0	0	0	0	68,300	68,300			
Dallas	2E+05	8	Trinity	4o	C					Water Treatment Plant Expansions in 2010		Water Treatment Plant Expansions in 2010	\$107,134,000	0	0	0	0	0	0			

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Major Water Provider Name	Major Water Provider Number (TWDB Alpha Number)	Basin Number for Basin of Use	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source (Groundwater Supplies only)	County Name of Source	Basin Number of Source	Basin Name of Source	Name of Water Management Strategy	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Exception from Meeting Needs Due To	Scenario Number for Meeting Long-Term Needs (Blank if only one listed)	Comments
Dallas	2E+05	8	Trinity	4o	C					Water Treatment Plant Expansions in 2020		Water Treatment Plant Expansions in 2020	\$153,351,000	0	0	0	0	0	0			
Dallas	2E+05	8	Trinity	4o	C					Water Treatment Plant Expansions in 2030		Water Treatment Plant Expansions in 2030	\$67,369,000	0	0	0	0	0	0			
Dallas	2E+05	8	Trinity	4o	C					Water Treatment Plant Expansions in 2040		Water Treatment Plant Expansions in 2040	\$67,369,000	0	0	0	0	0	0			
<b>TOTAL DWU</b>													#####	72,000	160,000	271,500	316,900	374,500	419,900			
Tarrant Regional Water District	190	8	Trinity	4e2	C			8	Trinity	Cedar Creek/Richland-Chambers pipeline expansion (Phase I)	086E0	Cedar Creek/Richland-Chambers pipeline expansion	\$24,681,000	0	107,957	108,956	108,774	109,310	109,622			
Tarrant Regional Water District	190	8	Trinity	4e2	C			8	Trinity	Cedar Creek/Richland-Chambers pipeline expansion (Phase II)	086E0	Cedar Creek/Richland-Chambers pipeline expansion	\$233,967,000	0	0	0	0	0	0			
Tarrant Regional Water District	190	8	Trinity	4e2	C			8	Trinity	Reuse (Phase I)		Reuse from the Trinity River (Phase I)	\$34,294,000	0	62,422	62,422	62,422	62,532	62,744			
Tarrant Regional Water District	190	8	Trinity	4e2	C			8	Trinity	Reuse (Phase II)		Reuse from the Trinity River (Phase II)	\$40,874,000	0	0	52,271	52,146	52,324	52,432			
Tarrant Regional Water District	190	8	Trinity	4e2	D			3	Sulphur	Marvin Nichols I (Phase I)	03050	Marvin Nichols I (Phase I)	\$402,081,000	0	0	0	77,365	77,562	77,562			
Tarrant Regional Water District	190	8	Trinity	4e2	D			3	Sulphur	Marvin Nichols I (Phase II)	03050	Marvin Nichols I (Phase II)	\$271,285,000	0	0	0	0	0	77,998			
Tarrant Regional Water District	190	8	Trinity	4e2						Oklahoma Water		Oklahoma Water	\$99,931,000	0	0	0	11,880	11,920	11,960			

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Tarrant Regional Water District	190	8	Trinity	4e2	C			8	Trinity	West Fork Connection	086C0	West Fork Connection	\$60,539,000	0	0	0	0	0	0			West Fork Connection. Does not provide additional water, but it does provide additional flexibility within the system for 67,300 Acre-Feet/Year.	
Tarrant Regional Water District	190	12	Brazos	4e2	C			8	Trinity	Cedar Creek/Richland-Chambers pipeline expansion	086E0	Cedar Creek/Richland-Chambers pipeline expansion	0	2,043	1,044	1,226	690	378			Cost included above		
Tarrant Regional Water District	190	12	Brazos	4e2	C			8	Trinity	Cedar Creek/Richland-Chambers pipeline expansion (Phase I)	086E0	Cedar Creek/Richland-Chambers pipeline expansion	0	0	0	0	0	0			Cost included above		
Tarrant Regional Water District	190	12	Brazos	4e2	C			8	Trinity	Cedar Creek/Richland-Chambers pipeline expansion (Phase II)	086E0	Cedar Creek/Richland-Chambers pipeline expansion	0	0	0	0	0	0			Cost included above		
Tarrant Regional Water District	190	12	Brazos	4e2	C			8	Trinity	Reuse (Phase I)		Reuse from the Trinity River (Phase I)	0	578	578	578	468	256			Cost included above		
Tarrant Regional Water District	190	12	Brazos	4e2	C			8	Trinity	Reuse (Phase II)		Reuse from the Trinity River (Phase II)	0	0	229	354	176	68			Cost included above		
Tarrant Regional Water District	190	12	Brazos	4e2	D			3	Sulphur	Marvin Nichols I (Phase I)	03050	Marvin Nichols I	0	0	0	635	438	438			Cost included above		
Tarrant Regional Water District	190	12	Brazos	4e2	D			3	Sulphur	Marvin Nichols I (Phase II)	03050	Marvin Nichols I	0	0	0	0	0	2			Cost included above		
Tarrant Regional Water District	190	12	Brazos	4e2						Oklahoma Water		Oklahoma Water	0	0	0	120	80	40			Cost included above		
<b>TOTAL TRWD (Including TRA &amp; Fort Worth)</b>													<b>\$1,167,652,000</b>	<b>0</b>	<b>173,000</b>	<b>225,500</b>	<b>315,500</b>	<b>315,500</b>	<b>393,500</b>				
Trinity River Authority	171	8	Trinity	4e2						TRWD		TRWD	0	34,722	38,791	41,776	45,021	47,910			Buying from TRWD. See TRWD costs.		
Trinity River Authority	171	8	Trinity	4e2	C			8		Water Treatment Plant Expansion in 2010 (Tarrant Co Customers)		Water Treatment Plant Expansion in 2010 (Tarrant Co Customers)	\$17,595,000	0	0	0	0	0	0			Water treatment plant expansion	

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Trinity River Authority	171	8	Trinity	4e2	C			8		Water Treatment Plant Expansion in 2030 (Tarrant Co Customers)	Water Treatment Plant Expansion in 2030 (Tarrant Co Customers)		\$17,595,000	0	0	0	0	0	0			Water treatment plant expansion
Trinity River Authority	171	8	Trinity	4e2	C			8		Water Treatment Plant Expansion in 2040 (Tarrant Co Customers)	Water Treatment Plant Expansion in 2040 (Tarrant Co Customers)		\$17,595,000	0	0	0	0	0	0			Water treatment plant expansion
Trinity River Authority	171	8	Trinity	4e2	C			8		Ellis County Project	Ellis County Project		\$65,945,000	0	0	0	0	0	0			Ellis County Project (Included in supply from TRWD)
Trinity River Authority	171	8	Trinity	4b	C			8		Las Colinas Reuse	Las Colinas Reuse		\$5,493,000	0	7,000	7,000	7,000	7,000	7,000			Direct reuse from effluent (landscape irrigation, Dallas County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Joe Pool Reuse Phase I	Joe Pool Reuse Phase I		\$5,875,000	0	0	7,000	14,000	14,000	14,000			Indirect reuse from effluent Phase I (Joe Pool Lake, Dallas County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Joe Pool Reuse Phase II	Joe Pool Reuse Phase II		\$6,031,000	0	0	0	0	7,000	14,000			Indirect reuse from effluent Phase II (Joe Pool Lake, Dallas County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Mountain Creek Reuse	Mountain Creek Reuse		\$2,015,000	0	0	3,000	3,000	3,000	3,000			Indirect reuse from effluent (Mountain Creek, Dallas County Steam Electric).
Trinity River Authority	171	8	Trinity	4b	C			8		Ellis County Reuse	Ellis County Reuse		\$22,958,000	0	20,000	20,000	20,000	20,000	20,000			Direct reuse from effluent (Ellis County, Ellis County Steam Electric).
Trinity River Authority	171	8	Trinity	4b	C			8		Denton County Reuse	Denton County Reuse		\$2,653,000	0	2,000	4,000	5,000	5,000	5,000			Indirect reuse from effluent (Denton Creek Plant, Denton County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Tarrant County Reuse	Tarrant County Reuse		\$1,326,000	0	1,000	2,000	2,500	2,500	2,500			Indirect reuse from effluent (Denton Creek Plant, Tarrant County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Grapevine Lake Reuse Phase I	Grapevine Lake Reuse Phase I		\$1,000,000	0	0	4,000	8,000	8,000	8,000			Indirect reuse from effluent Phase I (Grapevine Lake, Dallas County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Grapevine Lake Reuse Phase II	Grapevine Lake Reuse Phase II			0	0	0	0	8,000	8,000			Indirect reuse from effluent Phase II (Grapevine Lake, Dallas County Other).

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<b>TOTAL TRA</b>													\$166,081,000	0	64,722	85,791	101,276	119,521	129,410			Does not include TRWD costs.
Fort Worth	3E+05	8	Trinity	4e2						TRWD		TRWD		0	62,973	121,408	169,040	160,245	205,013			Buying from TRWD. See TRWD costs.
Fort Worth	3E+05	8	Trinity	4b	C			8		Reuse		Reuse	\$2,909,000	0	500	500	1,100	2,000	2,600			Direct Reuse
Fort Worth	3E+05	8	Trinity	4e2	C			8		Water Treatment Plant Expansions in 2000		Water Treatment Plant Expansions in 2000	\$27,300,000	0	0	0	0	0	0			Water treatment plant expansion
Fort Worth	3E+05	8	Trinity	4e2	C			8		Water Treatment Plant Expansions in 2010		Water Treatment Plant Expansions in 2010	\$82,096,000	0	0	0	0	0	0			Water treatment plant expansion
Fort Worth	3E+05	8	Trinity	4e2	C			8		Water Treatment Plant Expansions in 2030		Water Treatment Plant Expansions in 2030	\$52,113,000	0	0	0	0	0	0			Water treatment plant expansion
Fort Worth	3E+05	8	Trinity	4e2	C			8		Water Treatment Plant Expansions in 2050		Water Treatment Plant Expansions in 2050	\$59,966,000	0	0	0	0	0	0			Water treatment plant expansion
<b>TOTAL FORT WORTH</b>													\$224,384,000	0	63,473	121,908	170,140	162,245	207,613			Do not include TRWD costs.

Note:  
Titles in **BOLD** are the columns required by TWDB