

AGENDA ITEM 17

Hear report from Water Visionary Committee.

Water Visionary Committee Chairman Jim Mills discussed the bill passed in the last State Legislative session allowing an interbasin transfer of up to 25,000 acre feet of water out of the Lower Colorado River Authority basin. The Brazos River Authority is currently in the process of purchasing 25,000 acre feet of water to deploy for Williamson County which could suffice into the middle of the next century.

Mr. Mills suggested the continuance of the Water Visionary Committee on an as-needed basis as well as to monitor and participate in water issues before the next State Legislature. He also, suggested the commissioners form a Williamson County Water Coalition to continue to work with the BRA and LCRA to secure a total of 50,000 acre feet of water

Attorney Ed Small discussed a state legislative committee now gathering information for possible regulation of Texas underground water. He did not feel the next session of the State Legislature would make a decision on underground water issues which would designate a definite aquifer for Williamson County. He also felt as soon as the supply problems are solved, the pressure comes off the aquifer.

Jim Nuse discussed the Little River Reservoir, answered questions and distributed Water Visionary Committee Recommendations to the Williamson County Commissioners court.

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WATER VISIONARY COMMITTEE RECOMMENDATIONS
to the
WILLIAMSON COUNTY COMMISSIONERS
June 20, 2000

MOTION 1

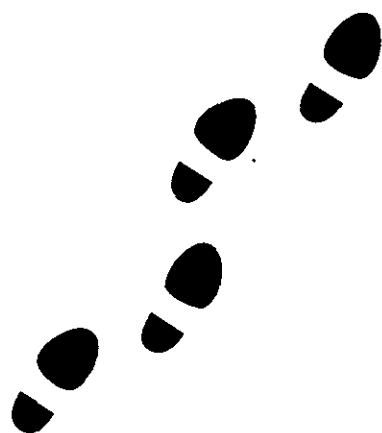
1. **Continue the Water Visionary Committee** on an as needed basis and add to the voting membership the representatives of the water purveyors holding CCNs within Williamson County. Its mission would be to:
 - A. Continue to monitor the progress of the purchase of the 25,000 acre feet of LCRA water by the Brazos River Authority and/or the Alliance of the two river authorities.
 - B. Monitor and participate in legislative issues during the 2001 legislative session that impact ground water and alternative water supplies for Williamson County.

 2. **Commissioner's Court form an entity called the Williamson County Water Coalition.** The mission of this entity would be:
 - A. Develop a Strategic Water Master Plan for the supply, treatment and distribution water throughout Williamson County to insure that the citizens of both the rural and urban areas of Williamson County are efficiently and adequately supplied with water.
 - B. Coordinate and support the efforts of all holders of CCN's within the County to insure an adequate supply of water to the water distribution entities so that their customers can be served in the most reliable, efficient, and economical manner.
 - C. Work with the BRA/LCRA Alliance to encourage their efforts to work together to fund the Strategic Water Master Plan for the county and include the plan within the Area G recommendations required under Senate Bill One.
 - B. Hire consultants to prepare a Strategic Water Master Plan to the extent that such a plan would not be undertaken by the BRA/LCRA Alliance. Consultants will include professional engineers and legal council.
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3. The committee recommends that the Commissioners not form a Williamson County Underground Water Conservation District. The county citizens would be better served by undertaking the above listed initiatives to solve the long term water supplies of the county. The implementation of surface supply programs will continue to reduce the reliance on underground supplies.

MOTION 2

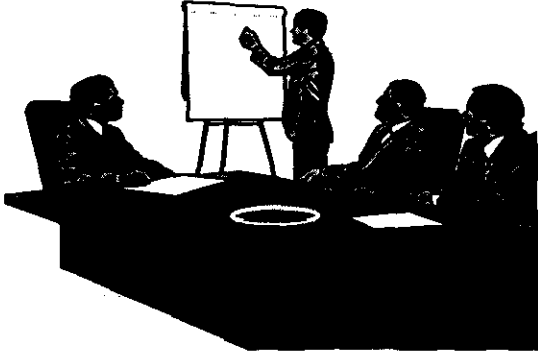
The Water Visionary Committee recommends that the Commissioners ask Brazos River Authority/Lower Colorado River Authority Alliance to secure 50,000 acre-feet of additional water supplies to meet Williamson County's fifty-year planning needs. To the extent that this additional supply is not available within the Brazos Basin on a timely basis, the committee recommends that the Commissioner request BRA/LCRA Alliance go to the legislature for additional interbasin transfer authorization.



Steps to a Water Plan

- 1. Estimate Population and Water Demand**
- 2. Estimate Reliable Supplies**
- 3. Coordinate with Other Regions**
- 4. Find When/Where Shortages Occur**
- 5. Identify Feasible Supply Options**
- 6. Adopt Evaluation Criteria**
- 7. Develop Plans ^{that} Contain:**
 -  **Strategies to Meet Near-Term Needs**
 -  **Options to Meet Long-Term Needs**
 -  **May Identify Needs with No Feasible Solution**
- 8. Determine Social and Economic Impacts to Not Meeting Needs**
- 9. Identify Reservoir Sites (if any)**
- 10. Identify Unique Stream Segments (if any)**
- 11. Present to Public/Solicit Input**
- 12. Develop Recommendations to State**

RWPG Responsibility for Plan Development



1. For Plans Forwarded by Local Water Supply Entities:
 - ▢ Compare to Evaluation Criteria
 - ▢ Check for Conflicts
 - ▢ Endorse Local Water Supply Plans (i.e., Support “Bottom Up” Planning)
2. If No Local Water Supply Plans:
 - ▢ Develop a Plan/Meet Shortages/Conform with Criteria
 - ▢ Check for Conflicts
3. By TWDB Rule, Plans Shall Include:
 - ▢ Specific Recommendations to Meet Near-Term Needs (i.e., 2030)
 - ▢ Specific Recommendations or Alternative Long-Term Scenarios to Meet Long-Term Needs (i.e., 2050)
4. Consider Requests for Plan Amendments

Evaluation Criteria for Plan Development

	Evaluation Item	Minimum Criteria
A	Water Supply 1. Quantity 2. Reliability 3. Cost	1. Sufficient to meet needs in plan period 2. M&I: 100%; Ag: 75% 3. Reasonable to meet needs
B	Environmental 1. Env. Water Needs 2. Habitat 3. Cultural Resources 4. Bays and Estuaries	1. Meet permit/provide environmental flows 2. Meet expected permit conditions 3. Avoid known cultural areas (if possible) 4. Meet expected permit conditions
C	Impacts on Other State Water Resources	Recommend follow-up study if any anticipated impacts
D	Threats to Agriculture and Natural Resources	Identify potential impact, compare to benefit, make recommendations
E	Any Factors Chosen by RWPG	None identified
F	Equitable Comparison of Strategies Deemed Feasible	Application of minimum criteria
G	Texas Water Code requirements for Interbasin Transfers	Recognize Texas Water Code requirements
H	Third Party Social/Economic Impacts from Voluntary Redistribution	Identify and describe possible impacts

Work Approach for Plan Development...

Geographic Approach — Work Through County-by-County

**Start in Southeastern End of Region,
Proceed North and West**

Prioritize Options within County:

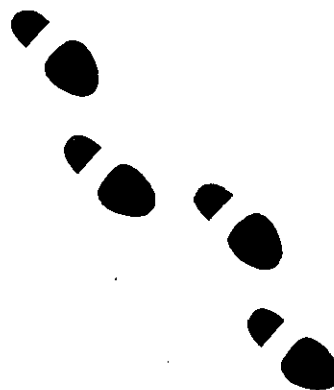
-  **Local Entity Preference**
-  **Past Planning Studies**
-  **“New” Projects**
-  **Common Plan Elements**

May 22 — M&I Shortages °

**June 12 — Agriculture Shortages then
Continue M&I**

Brazos G RWPG

HDR



Near-Term Plans (2030)

One Entity ➡ **One Plan**
Strategy A
and
Strategy B
and
Strategy C

Long-Term Plans (Past 2030)

One Entity ➡ **Alt. Plans O.K.**

Plan 1	or	Plan 2
Strategy A		Strategy A
Strategy B		Strategy D
Strategy C		Strategy E

Brazos G RWPG

HDR

Water Management Strategies

On the list:

Conservation (5.2)	Aquifer Storage/Recovery (5.12)
Wastewater Reuse (5.3)	Cancellation of Water Rights (5.13)
Expanded Use of Existing Supplies (5.4)	New Reservoirs (5.14)
Reallocation of Reservoir Storage (5.5)	Off-Channel Reservoirs (5.15)
Voluntary Redistribution (5.6)	Regional Systems (5.16)
Enhancement of Reservoir Yields (5.7)	Use of C/W Aquifer (5.17)
Chloride Control (5.8)	Water Trades (5.18)
Brush Control (5.9)	Conjunctive Use of Brazos Alluvium (5.19)
Weather Modification (5.10)	Interconnecting Community Systems (5.20)
Demineralization (5.11)	Ag Water Use Strategies (5.21)

Off the list: Dredging

4.2.36 Comparison of Demand to Supply – Williamson County

- Water demand and potential supply summary for all six use categories (Table 4-69). ⁷¹
- Demand and supply summary for municipal use reflects supply constraints such as expiring contracts and infrastructure limitations (Table 4-70). ⁷²

Demands

- Water demand projections for 23 rural municipal water systems in Williamson County were calculated to support County-Other municipal projections.
- For 2000 to 2050 period, municipal demand increases dramatically from 39,227 acft to 116,896 acft.
- No steam-electric demand is anticipated, but mining demand is expected to increase from 1,872 to 2,068 acft.
- For 2000 to 2050 period, manufacturing demand increases from 368 acft to 481 acft, comprising about 0.4 percent of countywide M&I use. *[Note: Projected manufacturing demand is reported from the 1997 Consensus State Water Plan data and appears relatively low for the level of economic activity in the county. Previously, the Trans-Texas Water Plan had projected 23,700 acft/yr of manufacturing demand in the county by 2050. This additional manufacturing water demand will be planned for accordingly.]*
- Irrigation and livestock demand stays fairly constant at about 170 acft over the planning period.

Supplies

- Surface water supplies are obtained from the Lake Georgetown, Stillhouse Hollow Reservoir, and Lake Travis.
- Groundwater sources are the Edwards (BFZ) and Trinity aquifers.

Comparison of Demand to Supply

- County summary shows immediate shortages in mining, and by 2030, in countywide municipal uses.
- Due to constraints (see below) Brushy Creek MUD, City of Georgetown, City of Leander, City of Round Rock, City of Taylor, and County Other are showing projected shortages.
- City of Cedar Park is showing a shortage prior to 2010.
- City of Florence is showing a shortage prior to 2010.
- City of Granger is showing a shortage prior to 2010.
- City of Hutto is showing a shortage prior to 2010.
- City of Thrall is showing a shortage prior to 2010.
- County-Other shows a current and long-term shortage.
- There are sufficient agricultural water supplies through 2050.

Water Supply Constraints

- Brushy Creek MUD surface water supply from a BRA contract from Stillhouse Hollow Reservoir is limited due to no infrastructure.
- Brushy Creek MUD surface water supply is limited due to expiring contract with City of Round Rock in 2006.
- City of Georgetown surface water supply from Lake Georgetown is limited due to infrastructure capacity.
- City of Leander surface water supply from Stillhouse Hollow is limited due to no infrastructure.
- City of Round Rock surface water supply from Lake Georgetown is limited due to infrastructure capacity.
- City of Taylor surface water supply from Lake Granger is limited due to infrastructure capacity.
- Jonah WSD (serves County-Other) surface water supply from Stillhouse Hollow Reservoir is limited due to infrastructure capacity.

Table 4-71
Williamson County
Population, Water Supply, and Water Demand Projections

Population Projection		Year					
		2000	2010	2020	2030	2040	2050
		207,772	321,541	485,299	588,581	675,169	752,892

Supply and Demand by Type of Use		Year					
		2000 (acft)	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)
Municipal	Municipal Demand	39,227	56,539	77,010	91,966	104,553	116,896
	Municipal Existing Supply						
	Groundwater	5,270	5,270	5,270	5,270	5,270	5,270
	Surface water	79,491	79,491	79,491	79,491	79,491	79,491
	Total Existing Municipal Supply	84,761	84,761	84,761	84,761	84,761	84,761
	Municipal Balance	45,534	28,222	7,751	(7,205)	(19,792)	(32,135)
Industrial	Manufacturing Demand	368	398	409	405	443	481
	Manufacturing Existing Supply						
	Groundwater	250	250	250	250	250	250
	Surface water	126	126	5,126	5,126	5,126	5,126
	Total Manufacturing Supply	376	376	5,376	5,376	5,376	5,376
	Manufacturing Balance	8	(22)	4,967	4,971	4,933	4,895
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	1,872	1,836	1,891	1,948	2,007	2,068
	Mining Existing Supply						
	Groundwater	405	405	405	405	405	405
	Surface water	0	0	0	0	0	0
	Total Mining Supply	405	405	405	405	405	405
	Mining Surplus Balance	(1,467)	(1,431)	(1,486)	(1,543)	(1,602)	(1,663)
Agriculture	Irrigation Demand	160	160	160	160	160	160
	Irrigation Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	957	957	957	957	957	957
	Total Irrigation Supply	957	957	957	957	957	957
	Irrigation Balance	797	797	797	797	797	797
	Livestock Demand	1,313	1,313	1,313	1,313	1,313	1,313
	Livestock Existing Supply						
	Groundwater	10	10	10	10	10	10
	Surface water	1,303	1,303	1,303	1,303	1,303	1,303
	Total Livestock Supply	1,313	1,313	1,313	1,313	1,313	1,313
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	41,467	58,773	79,310	94,319	107,003	119,445
	Existing Municipal & Industrial Supply						
	Groundwater	5,925	5,925	5,925	5,925	5,925	5,925
	Surface water	79,617	79,617	84,617	84,617	84,617	84,617
	Total Municipal & Industrial Supply	85,542	85,542	90,542	90,542	90,542	90,542
	Municipal & Industrial Balance	44,075	26,769	11,232	(3,777)	(16,461)	(28,903)
	Agriculture Demand	1,473	1,473	1,473	1,473	1,473	1,473
	Existing Agricultural Supply						
	Groundwater	10	10	10	10	10	10
	Surface water	2,260	2,260	2,260	2,260	2,260	2,260
	Total Agriculture Supply	2,270	2,270	2,270	2,270	2,270	2,270
	Agriculture Balance	797	797	797	797	797	797
	Total Demand	42,940	60,246	80,783	95,792	108,476	120,918
	Total Supply						
	Groundwater	5,935	5,935	5,935	5,935	5,935	5,935
	Surface water	81,877	81,877	86,877	86,877	86,877	86,877
	Total Supply	87,812	87,812	92,812	92,812	92,812	92,812
	Total Balance	44,872	27,566	12,029	(2,980)	(15,664)	(28,106)

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Table 4-72
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

<u>City/County</u>	<u>2000</u>	<u>2010</u>	<u>2020</u>	<u>2030</u>	<u>2040</u>	<u>2050</u>
<i>Williamson County</i>						
BARTLETT (P)						
Demand	197	196	203	205	213	227
Supply	254	254	254	254	254	254
Groundwater	254	254	254	254	254	254
Surface water	-	-	-	-	-	-
Balance	57	58	51	49	41	27
BRUSHY CREEK (CDP)						
Demand	2,538	3,955	4,214	4,345	4,239	4,212
Supply	5,313	1,953	1,953	1,953	1,953	1,953
Groundwater	1,953	1,953	1,953	1,953	1,953	1,953
Surface water (1) (3)	3,360	-	-	-	-	-
Balance	2,775	(2,002)	(2,261)	(2,392)	(2,286)	(2,259)
CEDAR PARK						
Demand	3,516	5,933	7,326	8,916	9,513	9,916
Supply	5,916	5,916	5,916	5,916	5,916	5,916
Groundwater	-	-	-	-	-	-
Surface water (a)	5,916	5,916	5,916	5,916	5,916	5,916
Balance	2,400	(17)	(1,410)	(3,000)	(3,597)	(4,000)
FLORENCE						
Demand	195	238	290	340	383	416
Supply	204	204	204	204	204	204
Groundwater	204	204	204	204	204	204
Surface water	-	-	-	-	-	-
Balance	9	(34)	(86)	(136)	(179)	(212)
GEORGETOWN						
Demand	7,052	10,444	13,826	17,416	21,962	27,800
Supply	9,265	9,265	9,265	9,265	9,265	9,265
Groundwater	921	921	921	921	921	921
Surface water (3)	8,344	8,344	8,344	8,344	8,344	8,344
Balance	2,213	(1,179)	(4,561)	(8,151)	(12,697)	(18,535)
GRANGER						
Demand	245	292	311	374	424	469
Supply	245	245	245	245	245	245
Groundwater	245	245	245	245	245	245
Surface water	-	-	-	-	-	-
Balance	-	(47)	(66)	(129)	(179)	(224)
HUTTO						
Demand	131	194	281	396	532	681
Supply	131	131	131	131	131	131
Groundwater	131	131	131	131	131	131
Surface water	-	-	-	-	-	-
Balance	-	(63)	(150)	(265)	(401)	(550)
LEANDER						
Demand	1,891	2,979	3,736	4,832	5,759	6,934
Supply	6,763	6,763	6,763	6,763	6,763	6,763
Groundwater	363	363	363	363	363	363
Surface water (3)	6,400	6,400	6,400	6,400	6,400	6,400
Balance	4,872	3,784	3,027	1,931	1,004	(171)

Table 4-72
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

<u>City/County</u>	<u>2000</u>	<u>2010</u>	<u>2020</u>	<u>2030</u>	<u>2040</u>	<u>2050</u>
ROUND ROCK (P)						
Demand	13,339	19,672	26,345	30,839	35,318	40,225
Supply	18,682	18,682	18,682	18,682	18,682	18,682
Groundwater	921	921	921	921	921	921
Surface water (3)	17,761	17,761	17,761	17,761	17,761	17,761
Balance	5,343	(990)	(7,663)	(12,157)	(16,636)	(21,543)
TAYLOR						
Demand	3,016	3,874	5,155	5,861	6,663	7,958
Supply	6,451	6,451	6,451	6,451	6,451	6,451
Groundwater	-	-	-	-	-	-
Surface water (3)	6,451	6,451	6,451	6,451	6,451	6,451
Balance	3,435	2,577	1,296	590	(212)	(1,507)
THRALL						
Demand	83	87	102	123	133	146
Supply	83	83	83	83	83	83
Groundwater	83	83	83	83	83	83
Surface water	-	-	-	-	-	-
Balance	-	(4)	(19)	(40)	(50)	(63)
COUNTY-OTHER						
Demand	7,024	8,675	15,221	18,319	19,414	17,912
Supply	4,518	4,650	4,735	4,776	4,803	4,817
Groundwater	195	195	195	195	195	195
Surface water (3)	4,323	4,455	4,540	4,581	4,608	4,622
Balance	(2,506)	(4,025)	(10,486)	(13,543)	(14,611)	(13,095)
Total for Williamson County						
Demand	39,227	56,539	77,010	91,966	104,553	116,896
Supply	57,825	54,597	54,682	54,723	54,750	54,764
Groundwater	5,270	5,270	5,270	5,270	5,270	5,270
Surface water	52,555	49,327	49,412	49,453	49,480	49,494
Balance	18,598	(1,942)	(22,328)	(37,243)	(49,803)	(62,132)

(P) Indicates city is in multiple counties. Projections shown are for Taylor County portion only.

(CDP) Census designated place name.

(1) Supply limited due to contract expiration during planning period.

(2) Groundwater supply limited by well capacity.

(3) Surface water supply limited by capacity of infrastructure.

(a) Supply is contract the City has with LCRA to purchase 7,000 acft less their contracts to sell water to Indian Springs Subdivision, Williamson County MUD #3, and Williamson-Travis County MUD #1; also, supply does not include an additional 8,000 acft of supply from LCRA that is still pending approval.

AGENDA ITEM 18

Discuss and consider taking action on final plat of Vineyard at Block House Creek, Section One.

County Engineer Joe England advised the property is located within the extra territorial jurisdiction of City of Cedar Park which has approved this plat.

Moved: **Commissioner Heiligenstein**

Seconded: **Judge Doerfler**

Motion: To approve final plat of Vineyard at Block House Creek, Section One.

Vote: Motion carried 4 – 0

AGENDA ITEM 19

Discuss and consider taking action on preliminary plat of Wade Crossing, Phase 1.

County Engineer Joe England advised this property is located near the Rocky Hollow Cemetery. Also, the developer is working with Williamson County for the possible future extension of Parmer Lane which should be reflected on the final plat.

Moved: **Commissioner Boatright**

Seconded: **Judge Doerfler**

Motion: To approve preliminary plat of Wade Crossing, Phase 1 with provision that 4'x 8' sign advising the future extension of Parmer Lane be posted.

Vote: Motion carried 4 – 0

AGENDA ITEM 20

Discuss and consider taking action on preliminary plat of Mouser Meadows.

Moved: **Commissioner Limmer**

Seconded: **Greg Boatright**

Motion: To approve preliminary plat of Mouser Meadows.

Vote: Motion carried 4 – 0

AGENDA ITEM 21

Discuss and consider taking action on variance from sec. 3.3.13 and A5 requiring 30' lot frontage for Jefferson Center.

County Engineer Joe England advised Bury+Partners Consulting Engineers/Surveyors requested Lot 2 (which is less than 10 acres) be exempted from the minimum 50' requirement. Also Lots 3,6,7 (larger than 10 acres) be exempt from the 30' requirement. Each of these lots is accessing West Parmer Lane through a 15' flag lot.

Moved: **Commissioner Boatright**

Motion: To deny variance from sec. 3.3.13 and A5 requiring 30' lot frontage for Jefferson Center.

Commissioner Boatright withdrew his motion

Moved: **Commissioner Limmer**

Seconded: **Judge Doerfler**

Motion: To table this item until the Commissioners Court meeting of July 11, 2000.

Vote: Motion carried 4 – 0

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