

Agenda Item 7.A.2: Update and Discussion on Draft Population and Municipal Demand Projections from TWDB and WUG Feedback

WUG Requested Revisions

WUG Coordination

WUG requested revisions (5)

- East Rio Hondo WSC (Cameron)
- Laredo (Webb)
- McAllen (Hidalgo)
- Primera (Cameron)
- Webb County Water Utility (Webb)

▶ WUG indicated TWDB-provided projections appear reasonable (9)

- Elsa (Hidalgo)
- Los Fresnos (Cameron)
- North Alamo WSC (Cameron, Hidalgo, Willacy)
- Olmito WSC (Cameron)
- Port Mansfield PUD (Willacy)
- San Juan (Hidalgo)
- Sharyland WSC (Hidalgo)
- Union WSC (Starr)
- Zanata County Waterworks (Zanata)

Region M County Populations (0.5 Migration Scenario)

		0.5 migration scenario					
Region	County	2030	2040	2050	2060	2070	2080
M	CAMERON	433,804	445,013	449,091	447,915	446,726	445,524
M	HIDALGO	932,285	995,377	1,036,526	1,058,241	1,080,194	1,102,388
M	JIM HOGG	4,676	4,622	4,508	4,391	4,273	4,154
M	MAVERICK	62,424	66,814	70,294	72,996	75,728	78,490
M	STARR	70,499	75,394	79,002	81,275	83,573	85,896
M	WEBB	279,673	290,779	294,162	291,218	288,242	285,233
M	WILLACY	19,933	19,647	19,083	18,366	17,641	16,908
M	ZAPATA	14,075	14,288	14,295	14,158	14,019	13,878
Region M Total		1,817,369	1,911,934	1,966,961	1,988,560	2,010,396	2,032,471

Methodology to Adjust County Populations

- TWDB staff provided information for a methodology another region is using to increase their county populations
- 2020 Census had undercount issues with certain populations
 - Texas had a 2% state-wide undercount
 - Nationwide, there was a 5% undercount for Hispanic populations
 - Nationwide, there was a 5.6% undercount for Native American populations on reservations
 - Nationwide, there was a 3% undercount for Black populations
- For the counties where we've received request for revisions, the high percentage of Hispanic populations there would allow for a significant increase to the county population based on the 5% undercount of Hispanics.
 - Cameron County – 90% Hispanic
 - Hidalgo County – 92.5% Hispanic
 - Webb County – 95.3% Hispanic

Region M Proposed County Populations (0.5 Migration Scenario with Bump to Cameron, Hidalgo, and Webb Counties)

		0.5 migration scenario with Bump to Cameron, Hidalgo, and Webb Counties					
Region	County	2030	2040	2050	2060	2070	2080
M	CAMERON	453,325	465,039	469,300	468,071	466,829	465,573
M	HIDALGO	975,403	1,041,413	1,084,465	1,107,185	1,130,153	1,153,373
M	JIM HOGG	4,676	4,622	4,508	4,391	4,273	4,154
M	MAVERICK	62,424	66,814	70,294	72,996	75,728	78,490
M	STARR	70,499	75,394	79,002	81,275	83,573	85,896
M	WEBB	292,999	304,635	308,179	305,095	301,977	298,824
M	WILLACY	19,933	19,647	19,083	18,366	17,641	16,908
M	ZAPATA	14,075	14,288	14,295	14,158	14,019	13,878
Region M Total		1,893,335	1,991,851	2,049,126	2,071,536	2,094,192	2,117,096

Cameron County

CAMERON COUNTY POPULATION	2030	2040	2050	2060	2070	2080
0.5 migration scenario	433,804	445,013	449,091	447,915	446,726	445,524
0.5 migration scenario plus 5% Hispanic population bump	453,325	465,039	469,300	468,071	466,829	465,573

- No response from WUG
 - ✓ WUG indicated draft projections appear reasonable
 - WUG requested revision
- Brownsville
 - Combes
 - County-Other, Cameron
 - East Rio Hondo WSC
 - El Jardin WSC
 - Harlingen
 - La Feria
 - Laguna Madre Water District
 - ✓ Los Fresnos
- Military Highway WSC*
 - ✓ North Alamo WSC*
 - ✓ Olmito WSC
 - Palm Valley
 - Primera
 - Rio Hondo
 - San Benito
 - Santa Rosa
 - Valley MUD 2

Nationwide 2020 Census undercount of Hispanics was 5%
 - Cameron County is 90% Hispanic

* WUG split between other counties

East Rio Hondo WSC

Decrease
Increase

TWDB PROJECTIONS	2030	2040	2050	2060	2070	2080
Population	24,365	25,008	25,270	25,271	25,279	25,296
Demand (ac-ft/yr)	3,292	3,362	3,397	3,397	3,398	3,401
GPCD	120.6	120.0	120.0	120.0	120.0	120.0
REQUESTED PROJECTIONS	2030	2040	2050	2060	2070	2080
Population	26,908	31,911	37,034	40,909	43,001	45,200
Demand (ac-ft/yr)	3,635	4,289	4,978	5,499	5,780	6,076
GPCD	120.6	120.0	120.0	120.0	120.0	120.0

- Increase in population projection is based on historical growth and local economy - SpaceX.
- Historical residential meter growth has been 1.72%. Provided a spreadsheet showing historical and projected growth. BV modified request to project future growth at 1.72% annually until 2040, 1.5% annually until 2050, 1.0% annually until 2060, and 0.5% annually until 2080.
- January 2023....8,590 residential connections – population at 23,380.
- CCN is 407 sq mi. Currently only serving 50 sq mi. Room for growth, but limited documentation.
- Currently conducting a master facility plan but do not have the completed results.

TWDB PROJECTIONS	2030	2040	2050	2060	2070	2080
Population	4,499	4,615	4,654	4,639	4,621	4,603
Demand (ac-ft/yr)	378	385	388	387	386	384
GPCD	75.0	74.5	74.5	74.5	74.5	74.5
REQUESTED PROJECTIONS	2030	2040	2050	2060	2070	2080
Population	6,782	8,749	10,061	11,067	12,174	12,783
Demand (ac-ft/yr)	570	730	840	924	1,016	1,067
GPCD	75.0	74.5	74.5	74.5	74.5	74.5

- Census.gov lists 2020 population at 5,264, which is higher than the 2030 draft population.
- “According to the 2010 Census data the population was 4,070 and the 2020 Census data population was 5,257 the city grew in residents by 1,187 residents, which is a 29% increase.”
- Primer’s request projected that same level of growth out through 2080. BV modified the request to use historical decadal growth rate (29% per decade) until 2040 and then reduced rate after that (15% to 2050, 10% to 2070, and 5% to 2080).

Cameron County Proposed Population Changes

Decrease
Increase

REQUESTED PROJECTIONS	2030	2040	2050	2060	2070	2080
Brownsville	191,689	196,629	198,396	197,812	197,213	196,600
Combes	3,041	3,120	3,146	3,135	3,124	3,111
County-Other, Cameron	26,712	21,315	15,478	10,491	7,194	4,294
East Rio Hondo WSC	26,908	31,911	37,034	40,909	43,001	45,200
El Jardin WSC	12,677	13,004	13,122	13,085	13,048	13,009
Harlingen	85,744	87,959	88,766	88,532	88,296	88,057
La Feria	6,210	6,369	6,425	6,403	6,379	6,353
Laguna Madre Water District	11,100	11,384	11,484	11,445	11,405	11,362
Los Fresnos	7,486	7,678	7,745	7,717	7,689	7,660
Military Highway WSC*	28,305	29,031	29,285	29,182	29,074	28,963
North Alamo WSC*	4,317	4,428	4,467	4,450	4,434	4,418
Olmito WSC	7,329	7,534	7,643	7,706	7,778	7,864
Palm Valley	1,308	1,341	1,353	1,349	1,342	1,337
Primera	6,782	8,749	10,061	11,067	12,174	12,783
Rio Hondo	1,711	1,755	1,770	1,764	1,758	1,751
San Benito	25,980	26,650	26,890	26,810	26,730	26,646
Santa Rosa	2,947	3,023	3,049	3,039	3,026	3,014
Valley MUD 2	3,079	3,159	3,186	3,175	3,163	3,151
Population with Revisions (0.5) and 5% Hispanic population bump	453,325	465,039	469,300	468,071	466,829	465,573

Hidalgo County

HIDALGO COUNTY POPULATION	2030	2040	2050	2060	2070	2080
0.5 migration scenario	932,285	995,377	1,036,526	1,058,241	1,080,194	1,102,388
0.5 migration scenario plus 5% Hispanic population bump	975,403	1,041,413	1,084,465	1,107,185	1,130,153	1,153,373

- No response from WUG
- ✓ WUG indicated draft projections appear reasonable
- WUG requested revision

- Agua SUD*
- Alamo
- County-Other, Hidalgo
- Donna
- Edcouch
- Edinburg
- ✓ Elsa
- Hidalgo
- Hidalgo County MUD 1
- La Joya

- La Villa
- McAllen
- Mercedes
- Military Highway WSC*
- Mission
- ✓ North Alamo WSC*
- Pharr
- ✓ San Juan
- ✓ Sharyland WSC
- Weslaco

Nationwide 2020 Census undercount of Hispanics was 5%
 - Hidalgo County is 92.5% Hispanic

* WUG split between other counties

TWDB PROJECTIONS	2030	2040	2050	2060	2070	2080
Population	143,072	149,288	153,615	157,957	162,373	166,864
Demand (ac-ft/yr)	33,072	34,398	35,395	36,395	37,413	38,448
GPCD	206.4	205.7	205.7	205.7	205.7	205.7
REQUESTED PROJECTIONS	2030	2040	2050	2060	2070	2080
Population	165,587	184,057	201,554	206,901	212,332	217,849
Demand (ac-ft/yr)	38,283	42,409	46,441	47,673	48,924	50,195
GPCD	206.4	205.7	205.7	205.7	205.7	205.7

- McAllen’s historical reported 2020 population was 146,092 – higher than the draft 2030 population
 - Based on 58,437 residential connections and 2.5 persons per connection
- 2010-2019 annual growth averaged 1.2%. Request was to project annual growth at about 1.2% until 2030, and then drop the growth rate slightly every 5-10 years.
- BV modified the request after 2040 based on keeping the County-Other projections the same as the TWDB draft numbers.

Hidalgo County Proposed Population Changes

Decrease
Increase

REQUESTED PROJECTIONS	2030	2040	2050	2060	2070	2080
Agua SUD*	65,987	70,846	73,984	75,406	76,841	78,289
Alamo	19,549	20,026	20,404	21,105	21,819	22,550
County-Other, Hidalgo	27,570	16,844	4,818	5,523	6,252	6,997
Donna	17,377	18,378	19,045	19,500	19,962	20,430
Edcouch	2,552	2,349	2,246	2,415	2,588	2,765
Edinburg	85,768	93,195	97,911	99,436	100,966	102,501
Elsa	4,659	4,231	4,010	4,334	4,669	5,013
Hidalgo	12,072	12,740	13,187	13,512	13,841	14,175
Hidalgo County MUD 1	5,256	5,449	5,590	5,759	5,931	6,107
La Joya	4,764	5,080	5,286	5,399	5,514	5,630
La Villa	2,092	2,491	2,731	2,704	2,676	2,646
McAllen	165,587	184,057	201,554	206,901	212,332	217,849
Mercedes	14,571	14,784	14,985	15,549	16,125	16,714
Military Highway WSC*	15,911	15,602	15,510	16,284	17,077	17,889
Mission	88,336	93,383	96,747	99,076	101,437	103,831
North Alamo WSC*	212,974	235,887	250,160	252,649	255,098	257,509
Pharr	85,215	91,086	94,908	96,862	98,836	100,833
San Juan	23,805	24,380	24,837	25,693	26,565	27,455
Sharyland WSC	88,944	97,326	102,604	103,989	105,371	106,749
Weslaco	32,414	33,279	33,948	35,089	36,253	37,441
Population with Revisions (0.5) and 5% Hispanic population bump	975,403	1,041,413	1,084,465	1,107,185	1,130,153	1,153,373

Webb County

WEBB COUNTY POPULATION	2030	2040	2050	2060	2070	2080
0.5 migration scenario	279,673	290,779	294,162	291,218	288,242	285,233
0.5 migration scenario plus 5% Hispanic population bump	292,999	304,635	308,179	305,095	301,977	298,824

- No response from WUG
- ✓ WUG indicated draft projections appear reasonable
- WUG requested revision
- County-Other, Webb
 - Laredo
- Mirando City WSC
 - Webb County

Nationwide 2020 Census undercount of Hispanics was 5%
 - Webb County is 95.3% Hispanic

Laredo

Decrease
Increase

TWDB PROJECTIONS	2030	2040	2050	2060	2070	2080
Population	267,373	277,989	281,208	278,353	275,465	272,541
Demand (ac-ft/yr)	36,440	37,687	38,124	37,737	37,345	36,949
GPCD	121.7	121.0	121.0	121.0	121.0	121.0
REQUESTED PROJECTIONS	2030	2040	2050	2060	2070	2080
Population	267,373	277,989	281,208	278,353	275,465	272,541
Demand (ac-ft/yr)	41,831	43,292	43,794	43,349	42,899	42,444
GPCD	139.7	139.0	139.0	139.0	139.0	139.0

- Laredo did not request any change to their population projections.
- Laredo requested to increase their Baseline GPCD to 144, which is their 2021 GPCD.
 - This higher GPCD is more conservative than the draft GPCD numbers, which are based on 2011.
 - In 2011, Laredo had significant restrictions on water use, resulting in a lower water demand than a normal dry year.
 - Increasing the baseline GPCD results in higher municipal demands.

Webb County (WUG)

Decrease
Increase

TWDB PROJECTIONS	2030	2040	2050	2060	2070	2080
Population	9,516	9,895	10,027	9,970	9,917	9,866
Demand (ac-ft/yr)	1,098	1,136	1,151	1,145	1,139	1,133
GPCD	103.0	102.5	102.5	102.5	102.5	102.5
REQUESTED PROJECTIONS	2030	2040	2050	2060	2070	2080
Population	12,854	18,014	22,764	22,536	22,306	22,073
Demand (ac-ft/yr)	1,483	2,068	2,614	2,587	2,561	2,534
GPCD	103.0	102.5	102.5	102.5	102.5	102.5

- Webb County Water Utility is requesting an increase in population from 2030-2080.
- Currently developing a Water/WW Master Plan that looks at growth for the next 50 years.
- They are anticipating growth due to several large-scale improvement projects within the service area.
 - Large diameter water transmission line, International Bridge 4/5, TxDOT thoroughfare expansion, multiple planned residential developments.
- BV modified the request after 2050 by applying the County growth rate each decade, which decreases until 2080.

Webb County Proposed Population Changes

Decrease
Increase

REQUESTED PROJECTIONS	2030	2040	2050	2060	2070	2080
County-Other, Webb	12,504	8,353	3,925	3,926	3,931	3,938
Laredo	267,373	277,989	281,208	278,353	275,465	272,541
Mirando City WSC	268	279	282	279	275	272
Webb County	12,854	18,014	22,764	22,536	22,306	22,073
Population with Revisions (0.5) and 5% Hispanic population bump	292,999	304,635	308,179	305,095	301,977	298,824

Counties with no changes

- No response from WUG
- ✓ WUG indicated draft projections appear reasonable

0.5 MIGRATION SCENARIO POPULATION	2030	2040	2050	2060	2070	2080
Jim Hogg County	4,676	4,622	4,508	4,391	4,273	4,154
Maverick County	62,424	66,814	70,294	72,996	75,728	78,490
Starr County	70,499	75,394	79,002	81,275	83,573	85,896
Willacy County	19,933	19,647	19,083	18,366	17,641	16,908
Zapata County	14,075	14,288	14,295	14,158	14,019	13,878

Jim Hogg County

- County-Other, Jim Hogg
- Jim Hogg County WCID 2

Maverick County

- County-Other, Maverick
- Eagle Pass
- Maverick County

Starr County

- Agua SUD*
- County-Other, Starr
- El Sauz WSC
- El Tanque WSC
- La Grulla
- Rio Grande City
- Rio WSC
- Roma
- ✓ Union WSC

Willacy County

- County-Other, Willacy
- Lyford
- ✓ North Alamo WSC*
- ✓ Port Mansfield PUD
- Raymondville
- Sebastian MUD

Zapata County

- County-Other, Zapata
- Falcon Rural WSC
- Siesta Shores WCID
- ✓ Zapata County
- Zapata County San Ygnacio and Ramireño
- Zapata County WCID-Hwy 16 East

* WUG split between other counties