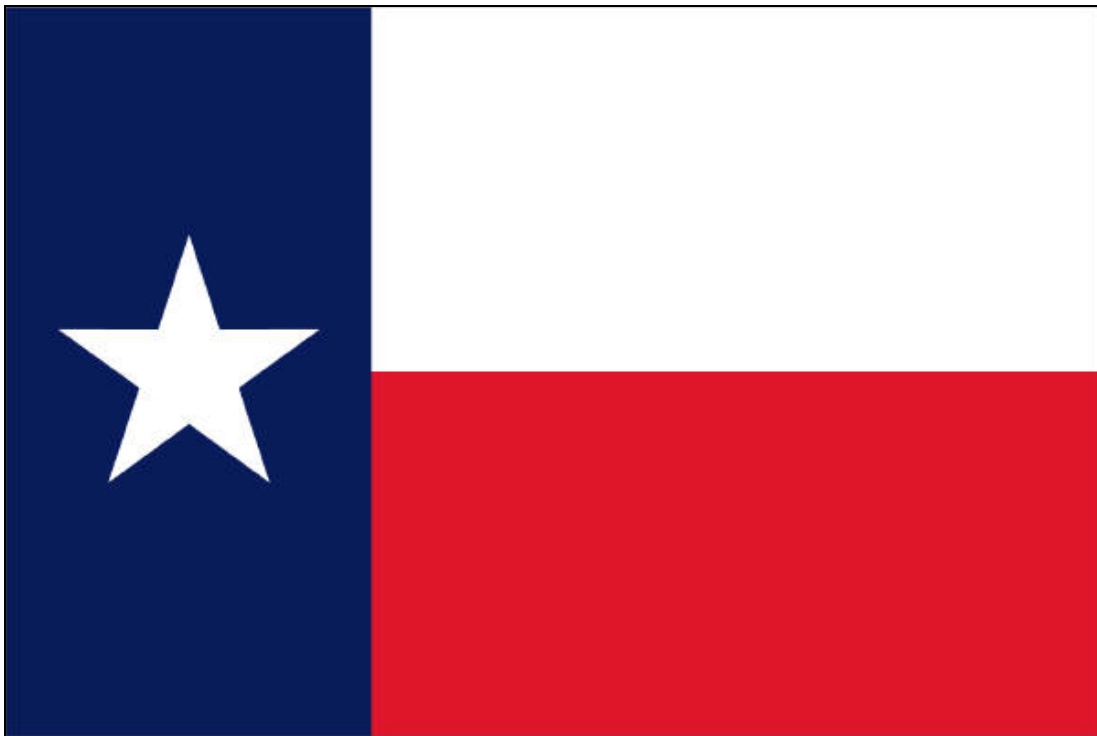


TEXAS BOND REVIEW BOARD

DEBT AFFORDABILITY STUDY

THIS STUDY PROVIDES DATA ON THE STATE'S HISTORICAL, CURRENT, AND PROJECTED DEBT POSITIONS AND DEVELOPS FINANCIAL DATA FROM WHICH POLICYMAKERS CAN REVIEW VARIOUS DEBT STRATEGIES BY USE OF THE STUDY'S DEBT CAPACITY MODEL.



FEBRUARY 2014

Debt Affordability Study

February 2014

Rick Perry, Governor
Chairman

David Dewhurst, Lieutenant Governor

Joe Straus, Speaker of the House of Representatives

Susan Combs, Comptroller of Public Accounts

Robert C. Kline
Executive Director

Executive Summary

The 80th Legislature (2007) passed Senate Bill 1332 that amended the Texas Government Code Chapter 1231 to require the Texas Bond Review Board in consultation with the Legislative Budget Board to prepare annually the state's Debt Affordability Study (DAS).

The DAS' Debt Capacity Model (DCM) assesses the impact on general revenue of the state's annual debt-service requirements for current and projected levels of not self-supporting (NSS) debt over the next five years. Credit rating agencies examine variations of these debt capacity measures to assess the state's debt burden, a key factor affecting the state's credit rating and thus capacity for debt issuance.

State Debt Outstanding and the Constitutional Debt Limit

At the end of FY2013, Texas had \$43.54 billion in total debt outstanding. Of this amount \$4.84 billion (11.0%) was NSS debt, and \$38.69 billion (89%) was self-supporting. The state's total NSS debt outstanding has increased from \$3.15 billion in FY2004 to the current \$4.84 billion as of August 31, 2013, an increase of 53.7 percent.

As of August 31, 2013 the Constitutional Debt Limit (CDL) for outstanding debt was 1.34 percent and 3.04 percent for outstanding and authorized but unissued debt. For FY2012 these figures were 1.34 and 3.48, respectively and represent an increase of 0.3 percent and a decrease of 12.7 percent, respectively.

Assumptions for the Debt Capacity Model

The DCM contains assumptions for the fiscal years under review (2014-2018) including:

- Estimates of unrestricted general revenue (UGR)
- Estimates of NSS debt issuance
- Estimates of appropriations for Special Debt Commitments (Tuition Revenue Bonds, Instruction Facilities Allotment and Existing Debt Allotment)
- Estimates of Texas' future population and total personal income

Ratios used in the Debt Capacity Model

The DCM uses five ratio calculations to assess the impact of the state's annual debt-service requirements paid from general revenue for current and projected levels of NSS debt over the next five years. A summary of each ratio follows:

- Ratio 1: Not Self-Supporting Debt Service as a Percentage of Unrestricted General Revenue measures the impact of debt service on the rolling three year average of UGR. Because NSS debt service as a percentage of UGR has historically been below 2 percent, Ratio 1 is set up with a target of 2 percent, a cap at 3 percent and a maximum of 5 percent. Ratio 1 resembles the CDL but is only a guideline while the CDL is a legal limit set by the state's constitution (See Appendix D for a discussion of the CDL). Ratio 1 is calculated two ways: 1) using only NSS debt service and 2) using NSS debt service plus Special Debt Commitments to show their impact on the state's debt capacity (see *Chapters 1, 3 and Appendix C*).
- Ratio 2: Not Self-Supporting Debt Service as a Percentage of Budgeted General Revenue does not use a rolling three year average and is generally more restrictive because the amount of available general revenue in this ratio is limited to budgeted general revenue based on the 2014-15 General Appropriations Bill (Senate Bill 1).

- Ratio 3: Not Self-Supporting Debt as a Percentage of Personal Income is a direct indicator of the state's ability to repay debt obligations by transforming personal income into revenue through taxation.
- Ratio 4: Not Self-Supporting Debt per Capita measures the dollar amount of debt per person.
- Ratio 5: Rate of Debt Retirement is the rate at which long-term debt is retired and measures the extent to which new debt capacity is created for future debt issuance.

Major Findings

- With a growing economy, the state's General Revenue Fund is expected to increase for FY 2014-2018. Assuming projected NSS debt issuance of \$4.74 billion over the next five fiscal years, Ratio 1 remains below the target of 2 percent.
- Including Special Debt Commitments (TRBs, IFA and EDA), total debt service exceeds Ratio 1's target of 2 percent and cap of 3 percent but remains below the 5 percent max. (*See Figure 1.2, Chapter 3 and Appendix C*)
- Special Debt Commitments are projected to account for more than half of the total NSS debt service for fiscal years 2014-2018.
- For FY2014-2018, NSS debt service including Special Debt Commitments is projected to peak in fiscal 2016 (*see Figure 4.1*).
- NSS debt as a percentage of personal income and debt per capita are expected to be better than rating agency benchmarks through fiscal 2018.
- The rates of debt retirement for NSS debt for five and ten year periods are better than rating agency benchmarks. However, the state's rate of debt retirement is expected to decline as the remaining \$3 billion of Texas Transportation Commission (Proposition 12) debt is issued.
- Ratio 1 remains below the 2 percent target after a one-time hypothetical debt issuance of \$1 billion in addition to the \$4.74 billion of NSS debt expected to be issued over the next five fiscal years.
- Assuming \$4.74 billion of projected NSS debt issuance over the next five fiscal years, Texas is expected to have approximately \$1.74 billion of authorized but unissued NSS debt remaining by FY 2019.

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Cautionary Statements

Chapter 1231 of the Texas Government Code directs the Bond Review Board (BRB) to annually prepare a study regarding the state's current debt burden. The report must analyze the amount of additional not self-supporting debt the state can accommodate; include analysis which may serve as a guideline for debt authorizations and debt-service appropriations by including ratios of such debt to personal income, population, budgeted and expended general revenue, as well as the rate of debt retirement and a target and limit ratio for not self-supporting debt service as a percentage of unrestricted general revenues. BRB shall deliver the report to the governor, lieutenant governor, comptroller of public accounts, Senate Committee on Finance and House Appropriations Committee. This report is intended to satisfy these Chapter 1231 duties.

The data in this report and on the BRB's website is compiled from information reported to the BRB from various sources and has not been independently verified. The reported debt data of state agencies may vary from actual debt outstanding, and the variance for a specific issuer could be substantial.

State debt data compiled does not include all installment purchase obligations, but certain lease-purchase obligations are included. In addition, SECO LoanSTAR Revolving Loan Program and certain other revolving loan program debt and privately-placed loans are not included. Outstanding debt excludes debt for which sufficient funds have been escrowed to retire the debt either from proceeds of refunding debt or from other sources.

Future revenues, population and personal income information of the state are derived from third-party estimates. They are inherently subject to various known and unknown risks and uncertainties, including the possible invalidity of underlying assumptions and estimates; possible changes or developments in social, economic, business, industry, market, legal, and regulatory circumstances and conditions; extreme weather events; and actions taken or omitted to be taken by third parties, including consumers, taxpayers, and legislative, judicial, and other governmental authorities and officials, all of which are beyond the control of the BRB. Future debt issuance is based on estimates supplied by each issuing agency. Future debt service on variable rate, commercial paper, and other short-term and demand debt is estimated on the basis of interest rate and refinancing assumptions described in the report. Actual future issuance and debt service could be affected by changes in agency financing decisions, prevailing interest rates, market conditions, and other factors that cannot be predicted. Consequently, actual future data could differ from estimates included in this report, and the difference could be substantial. The BRB assumes no obligation to update any such estimate of future data.

Historical data and trends presented are not intended to predict future events or continuing trends, and no representation is made that past experience will continue in the future.

This report is intended to meet Chapter 1231 requirements and inform the state leadership and the Legislature to provide a guideline for state debt authorizations and debt-service appropriations. This report is not intended to inform investors in making a decision to buy, hold, or sell any securities, nor may it be relied upon as such. Data is provided as of the date indicated and may not reflect debt, debt service, population or other data as of any subsequent date. This data may have changed from the date as of which it is provided. For more detailed or more current information, see the issuers' web sites or their filings at Electronic Municipal Market Access (EMMA®). The BRB does not control or make any representation regarding the accuracy, completeness or currency of any such site, and no referenced site is incorporated herein by that reference or otherwise.

Chapter 1 – Summary of Results

Background

The 80th Legislature (2007) passed Senate Bill 1332 that amended the Texas Government Code Chapter 1231 to require the Texas Bond Review Board (BRB) in consultation with the Legislative Budget Board annually to prepare the state's Debt Affordability Study (DAS).

As defined in this study, debt affordability is the determination of the state's capacity for additional not self-supporting (NSS) debt, i.e., debt funded from unrestricted general revenues that has a direct impact on state finances. Debt affordability provides an integrated approach that helps manage and prioritize state debt by analyzing data on historical, current and projected uses of NSS debt in conjunction with the financial and economic resources of the state and its long-term capital needs.

Debt service for NSS debt depends solely on legislative appropriations from the state's general revenue fund and thus draws upon the same sources otherwise used to finance the operation of state government. The DAS' Debt Capacity Model (DCM) provides financial data policymakers can use to review the impact of various strategies for NSS debt to determine acceptable levels of annual debt service and thus prioritize the state's available revenues to meet the highest priority needs.

The DCM uses five ratio calculations to assess the impact on general revenue of the state's annual debt-service requirements for current and projected levels of NSS debt over the next five years. Credit rating agencies examine variations of these debt capacity measures to assess the state's debt burden, a key factor affecting the state's credit rating and thus capacity for debt issuance.

Summary of Results

This study is based on the \$4.84 billion of NSS debt outstanding as of August 31, 2013 and an estimated \$4.74 billion in new, NSS debt which is expected to be issued between fiscal years 2014 through 2018 for the following transactions:

- \$2.90 billion in General Obligation (GO) debt, related to Proposition 12 for transportation projects (TTC);
- \$1.32 billion in GO debt, related to Proposition 15 for cancer research (TPFA);
- \$339.3 million in GO debt for capital projects for certain state agencies (TPFA), including Proposition 4 authorization;
- \$131.3 million in GO bonds for the Higher Education Assistance Fund; and
- \$50.0 million in GO bonds for the Texas Water Development Board's (TWDB) Economically Distressed Areas Program.

In November 2011 voters approved Proposition 2 that enables the TWDB to issue additional debt for its Development Fund II Program in an amount not to exceed \$6 billion of debt outstanding at any time. Legislative action is required for the issuance of NSS debt under this authorization. See Appendix B for an analysis of the debt ratios if a hypothetical \$1 billion is issued in addition to the \$4.74 billion in new NSS debt issuances currently projected for fiscal years 2014-2018.

See *Figure E2* for detail on the state's debt outstanding as of August 31, 2013.

If the recent growth in the state’s economy continues for FY 2014-2018, the General Revenue Fund is expected to increase at an average growth rate of 3.12%. Additionally, the February 2014 DAS estimates that \$4.74 billion of projected NSS debt is remaining to be issued during FY 2014-2018 compared to the \$5.62 billion estimated for FY 2013-2017 in last year’s DAS.

The following explains the ratios used in the DAS. The table below shows the results of the study.

Ratio 1: Not Self-Supporting Debt Service as a Percentage of Unrestricted General Revenue

Ratio 1 is calculated by dividing future debt service by the rolling three year average of unrestricted general revenue (UGR). Statute requires the DAS to include a target and cap for Ratio 1, both of which can be adjusted as requested or as directed by the BRB or Legislative Budget Board. Since Texas has historically appropriated less than 2 percent of its UGR for NSS debt service, the analysis of Ratio 1 utilizes 2 percent as the target ratio, 3 percent for the cap ratio and a maximum of 5 percent. UGR projections are provided by the Legislative Budget Board.

Ratio 1 can be used to assess the impact of special debt commitments (SDC) on the general revenue fund. SDC consist of tuition revenue bonds (TRBs) for higher education and the Existing Debt Allotment (EDA) and Instructional Facilities Allotment (IFA) for public education.

Figure 1.1 illustrates Ratio 1 for NSS annual debt service and SDC. Figure 1.2 provides additional detail showing the impact of SDC on Ratio 1. (See Chapter 3 and Appendix C.)

**Figure 1.1
Debt Service Commitments as a Percentage of Unrestricted General Revenue**

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------------------|--------------|--------------|--------------|--------------|--------------|
| February 2014 | | | | | |
| NSS Annual Debt Service | 1.49% | 1.66% | 1.75% | 1.64% | 1.61% |
| Tuition Revenue Bonds (TRBs) | 0.66% | 0.64% | 0.61% | 0.59% | 0.54% |
| IFA and EDA | 1.45% | 1.28% | 1.28% | 1.19% | 1.14% |
| Total | 3.60% | 3.58% | 3.64% | 3.41% | 3.29% |

SOURCE: Texas Bond Review Board.

Results

- Excluding SDC, debt service as a percentage of unrestricted general revenue is projected to remain below the 2 percent target and the 3 percent cap. (see Figure 1.2, Chapter 3 and Appendix C).
- Including SDC, debt service as a percentage of unrestricted general revenue is expected to exceed the 2 percent target and the 3 percent cap, but remains below the 5 percent maximum. SDC are projected to account for more than half of total debt service for fiscal years 2014-2018

Ratio 2: Not Self-Supporting Debt Service as a Percentage of Budgeted General Revenue

Unlike Ratio 1 this ratio does not use a rolling 3-year average of UGR but uses instead the budgeted general revenue figures and projections for fiscal years 2014, and 2015 based on the 2014-15 General Appropriations Bill (Senate Bill 1).

Results

Ratio 2 is 1.41 percent for fiscal 2014 and rises to 1.57 percent for fiscal 2015. Historically, Texas' NSS debt-service commitment has been less than 1.5 percent of budgeted general revenue as shown in *Figure 3.3*. However, in fiscal year 2015 the ratio increases because the increase in annual debt service based on expected future debt issuances outweighs the increase in budgeted general revenue in 2015.

Ratio 3: Not Self-Supporting Debt as a Percentage of Personal Income

This ratio is obtained by dividing NSS debt by total personal income and is a direct indicator of the state's ability to repay debt obligations by transforming personal income into revenues through taxation. This ratio is a component of the state's credit ratings. Personal income projections are provided by the Legislative Budget Board.

Results

Ratio 3 is 0.53 percent for fiscal 2014 and peaks at 0.62 percent in fiscal 2016. These figures are below the rating agency benchmark of 3 percent.

Ratio 4: Not Self-Supporting Debt per Capita

This ratio is the amount of NSS debt divided by the state's population and measures the dollar amount of debt per person. Like Ratio 3, Ratio 4 is a component of the state's credit rating.

Results

Ratio 4 is \$228 for fiscal 2014 and peaks to \$286 in fiscal 2016. These figures are below the rating agency benchmark of \$1,000 per Capita.

Ratio 5: Rate of Debt Retirement

The rate at which long-term debt is retired measures the extent to which new debt capacity is created for future debt issuance. Credit rating agencies review the length of time needed for debt to be retired with the expectation that on average, 25 percent of the principal amount of debt with a 20-year maturity is retired in five years and 50 percent is retired in 10 years.

Results

In five years 28.8 percent of NSS debt will be retired; 51.6 percent will be retired in 10 years. These figures are better than rating agency benchmarks but are expected to decrease with the issuance of additional Texas Transportation Commission Highway Improvement (Proposition 12) Bonds. In 15 years, approximately 71.0 percent of NSS debt will be retired.

Figure 1.2 summarizes the ratio analysis for fiscal years 2014 through 2018. The negative numbers in Ratio 1 indicate shortfalls in debt service when compared to the corresponding target, cap or maximum percentage.

Figure 1.2
Summary of Ratios 1-5

| Fiscal Year | 2014 | | 2015 | | 2016 | | 2017 | | 2018 | | | | | | |
|--|------|---------------|----------|-------|---------------|--------|------|---------------|--------|-------|---------------|--------|----|---------------|--------|
| RATIO 1: Not Self-Supporting Debt Service as a Percentage of Unrestricted General Revenue | | | | | | | | | | | | | | | |
| NSS Debt Service | | | | | | | | | | | | | | | |
| Issued | \$ | 564,430,877 | 1 27% | \$ | 550,773,802 | 1 20% | \$ | 501,230,494 | 1 07% | \$ | 439,900,202 | 0 91% | \$ | 425,694,165 | 0 84% |
| Authorized but Unissued | | 87,394,611 | 0 20% | | 190,793,820 | 0 42% | | 288,889,682 | 0 62% | | 302,123,655 | 0 62% | | 310,013,705 | 0 61% |
| Projected | | 7,503,844 | 0 02% | | 17,846,176 | 0 04% | | 32,821,746 | 0 07% | | 52,661,424 | 0 11% | | 78,682,989 | 0 16% |
| Total NSS Debt Service (excluding SDC) | \$ | 659,329,332 | 1 49% | \$ | 759,413,798 | 1 66% | \$ | 822,941,922 | 1 75% | \$ | 794,685,281 | 1 64% | \$ | 814,390,859 | 1 61% |
| Special Debt Commitments | \$ | 939,450,245 | 2 12% | \$ | 878,350,719 | 1 92% | \$ | 886,891,299 | 1 89% | \$ | 861,684,989 | 1 77% | \$ | 848,630,743 | 1 68% |
| Total Debt Service (including SDC) | \$ | 1,598,779,577 | 3 60% | \$ | 1,637,764,517 | 3 58% | \$ | 1,709,833,221 | 3 64% | \$ | 1,656,370,270 | 3 41% | \$ | 1,663,021,602 | 3 29% |
| SDC as a % of Total | | 58 8% | | 53 6% | | 51 9% | | 52 0% | | 51 0% | | | | | |
| Remaining Debt-Service Capacity excluding SDC* | | | | | | | | | | | | | | | |
| Target (2%) | \$ | 228,270,366 | 0 51% | \$ | 155,986,434 | 0 34% | \$ | 115,546,419 | 0 25% | \$ | 176,228,052 | 0 36% | \$ | 196,895,748 | 0 39% |
| Cap (3%) | \$ | 672,070,215 | 1 51% | \$ | 613,686,550 | 1 34% | \$ | 584,790,590 | 1 25% | \$ | 661,684,718 | 1 36% | \$ | 702,539,052 | 1 39% |
| Max (5%) | \$ | 1,559,669,914 | 3 51% | \$ | 1,529,086,782 | 3 34% | \$ | 1,523,278,931 | 3 25% | \$ | 1,632,598,050 | 3 36% | \$ | 1,713,825,659 | 3 39% |
| Remaining Debt-Service Capacity including SDC* | | | | | | | | | | | | | | | |
| Target (2%) | \$ | (711,179,879) | -1 60% | \$ | (722,364,285) | -1 58% | \$ | (771,344,879) | -1 64% | \$ | (685,456,938) | -1 41% | \$ | (651,734,995) | -1 29% |
| Cap (3%) | \$ | (267,380,029) | -0 60% | \$ | (264,664,169) | -0 58% | \$ | (302,100,709) | -0 64% | \$ | (200,000,272) | -0 41% | \$ | (146,091,691) | -0 29% |
| Max (5%) | \$ | 620,219,669 | 1 40% | \$ | 650,736,063 | 1 42% | \$ | 636,387,633 | 1 36% | \$ | 770,913,061 | 1 59% | \$ | 865,194,917 | 1 71% |
| RATIO 2: Not Self-Supporting Debt Service as a Percentage of Budgeted General Revenue | | 1 41% | | 1 57% | | | | | | | | | | | |
| RATIO 3: Not Self-Supporting Debt as a Percentage of Personal Income | | 0 53% | | 0 59% | | 0 62% | | 0 58% | | 0 55% | | | | | |
| RATIO 4: Not Self-Supporting Debt Per Capita | | \$228 | | \$260 | | \$286 | | \$279 | | \$273 | | | | | |
| Ratio 5: Rate of Debt Retirement in | | 5 Years | 10 Years | | | | | | | | | | | | |
| Not Self-Supporting Debt | | 28 8% | 51 6% | | | | | | | | | | | | |
| Self-Supporting Debt | | 19 6% | 36 7% | | | | | | | | | | | | |

* Debt-service capacity is the available capacity to meet target, cap or maximum percentages.

SOURCE: Texas Bond Review Board

Chapter 2 – Current Debt Position of the State

Texas has a decentralized approach to debt management. Debt issuance occurs at the level of the agency or institution of higher education rather than at the state level. With the exception of Tax Revenue Anticipation Notes, Permanent University Fund issuances and non-general obligation issuances by university systems that have an unenhanced long-term debt rating of at least AA- or its equivalent, the Bond Review Board provides oversight for all state debt issuances with a maturity of more than 5 years or a principal amount greater than \$250,000.

When the legislature considers the issuance of new debt, the authorizing legislation is typically considered by legislative finance committees. The legislature usually appropriates debt-service payments for existing debt in the General Appropriations Act that is organized by article based on governmental function. Subsequently, this process leads policymakers to review, develop and approve proposed budget requests by agency or program.

Debt Types

Debt issued by entities of the state of Texas falls into two major categories:

- **General Obligation (GO) debt** is legally secured by a constitutional pledge of the first monies coming into the state treasury that are not constitutionally dedicated for another purpose. GO debt must be passed by a 2/3 vote of both houses of the legislature and a majority of the voters.
- **Non-General Obligation (Revenue) debt** is legally secured by a specific revenue source and does not require voter approval.

State debt is further classified based on its impact on the state’s General Revenue Fund:

- **Self-Supporting (SS) debt** is designed to be repaid with revenues other than state general revenue and can be either GO debt or revenue debt. For purposes of this report, revenue SS debt also includes conduit debt that is not an obligation of the state and is repaid from funds generated by a third party borrower. For more information regarding conduit debt see the Bond Review Board’s Fiscal Year 2013 Annual Report.
- **Not Self-Supporting (NSS) debt** is intended to be repaid with state general revenue and can be either GO debt or revenue debt.

Figure 2.1 illustrates the classifications for state debt and provides program examples for each type.

Figure 2.1
Debt Type and Project Examples

| Debt Type | General Revenue Impact | Debt Program |
|--------------------|------------------------|--|
| General Obligation | Not self-supporting | Highway Improvement (Prop 12) Bonds Cancer Prevention and Research Bonds |
| General Obligation | Self-supporting | Certain Texas Water Development Bonds Veterans' Land and Housing Bonds |
| Revenue | Not self-supporting | Texas Military Facilities Commission Bonds Parks and Wildlife Improvement Bonds |
| Revenue | Self-supporting | College and University Revenue Financing System Bonds Texas Department of Housing Single Family Mort. Bonds |

Source: Texas Bond Review Board.

State Debt Outstanding

Figure 2.2 provides detail for the state's total debt outstanding at August 31, 2013.

Figure 2.2
Current Debt Outstanding (thousands)

| Bond Types | Self-Supporting | Not Self-Supporting | Total |
|--------------------|----------------------|---------------------|----------------------|
| General Obligation | \$ 10,729,986 | \$ 4,619,547 | \$ 15,349,533 |
| Revenue* | \$ 27,963,701 | \$ 224,914 | \$ 28,188,615 |
| Total | \$ 38,693,687 | \$ 4,844,461 | \$ 43,538,148 |

* Revenue SS debt contains \$5.64 billion of conduit debt.

Source: Texas Bond Review Board.

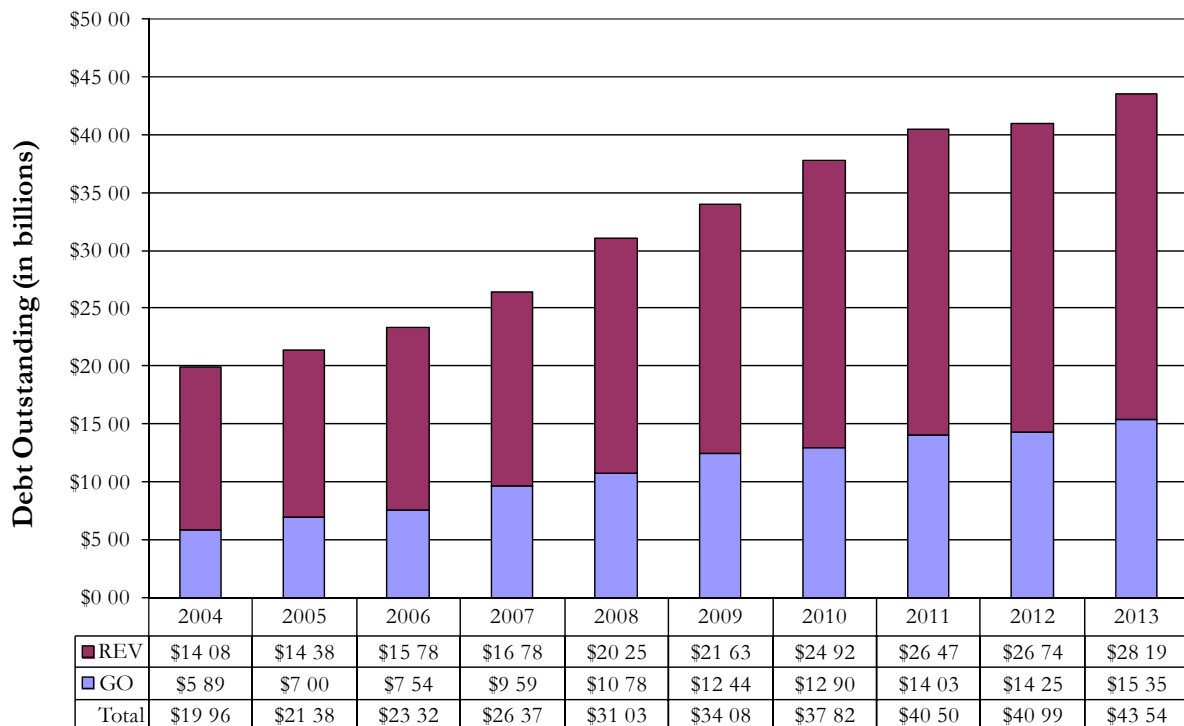
Growth Rates in Unrestricted General Revenue and Total Debt Outstanding

The state's Unrestricted General Revenue (UGR) increased from \$28.36 billion in FY2004 to \$45.05 billion in FY2013, an increase of 58.9 percent over the 10-year period.

From FY 2004 to FY2013, GO debt increased from \$5.89 billion to \$15.35 billion, an increase of 160.6 percent, most of which occurred in the last five fiscal years. Of the GO debt outstanding at FYE 2013, 30.1 percent was NSS.

Figure 2.3 illustrates Texas' debt outstanding during the past 10-year period by debt type.

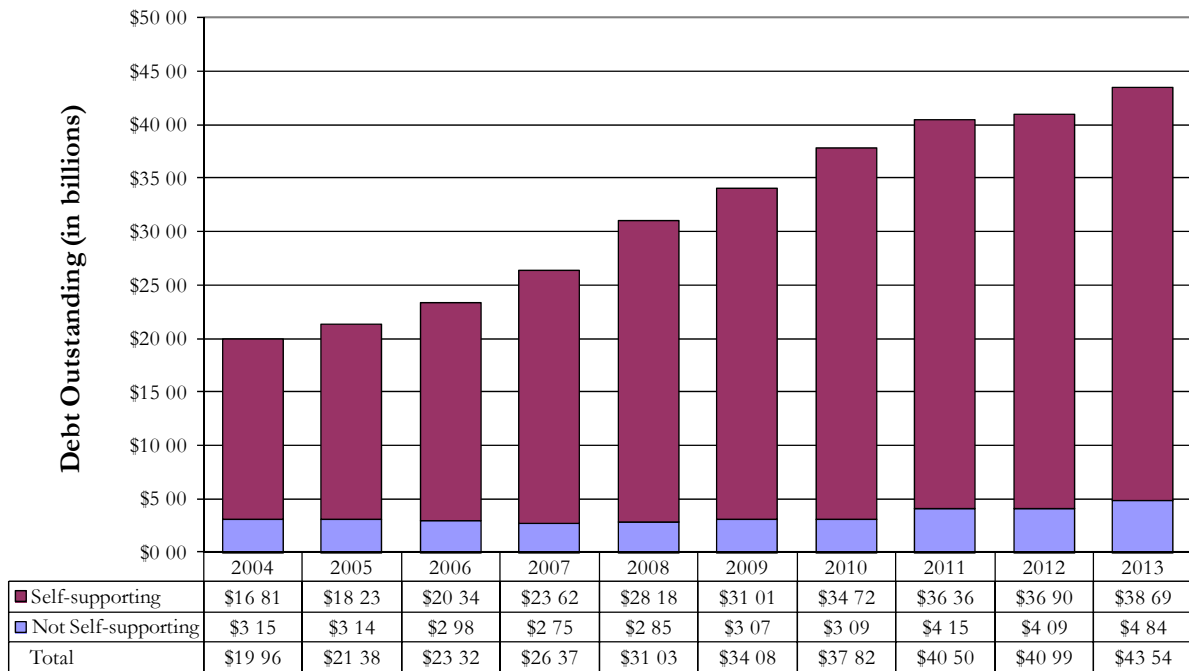
Figure 2.3
Texas Debt Outstanding: General Obligation and Revenue for Fiscal Years 2004-2013



SOURCE: Texas Bond Review Board

During the 10-year period, revenue debt increased by 100.2 percent from \$14.08 billion to \$28.19 billion, and the state’s total debt outstanding increased by 118.1 percent from \$19.96 billion to \$43.54 billion.

Figure 2.4
Texas Debt Outstanding: Self-Supporting and Not Self-Supporting for Fiscal Years 2004-2013



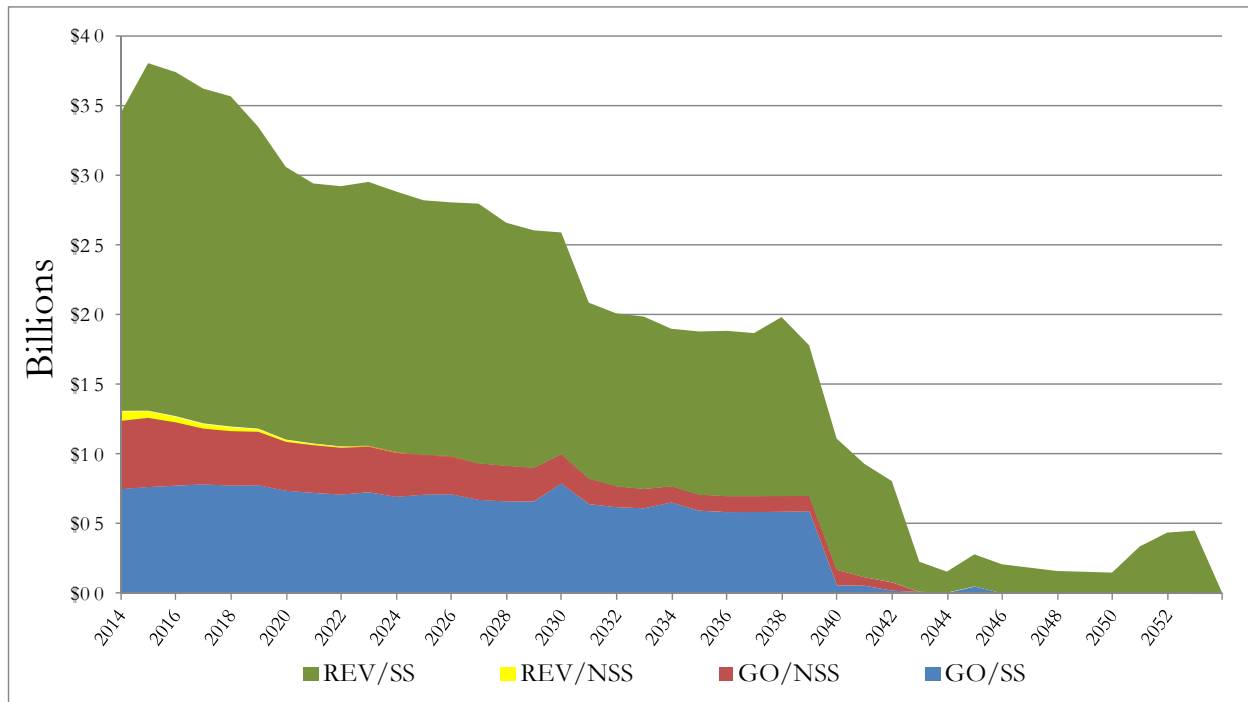
SOURCE: Texas Bond Review Board

As shown in *Figure 2.4*, SS debt which is repaid with program revenues increased by 130.2 percent. During the same time period, NSS debt which is typically repaid with general revenue increased by 53.7 percent. With projected issuances totaling approximately \$4.74 billion in FY2014-18 and projected debt retirement totaling approximately \$1.39 billion during the same period, NSS debt outstanding is expected to continue to increase in upcoming fiscal years.

Debt-Service Commitments

Figure 2.5 illustrates the projected annual debt service for NSS and SS debt outstanding as of August 31, 2013.

Figure 2.5
Texas Debt Service on Outstanding Debt as of 8/31/2013



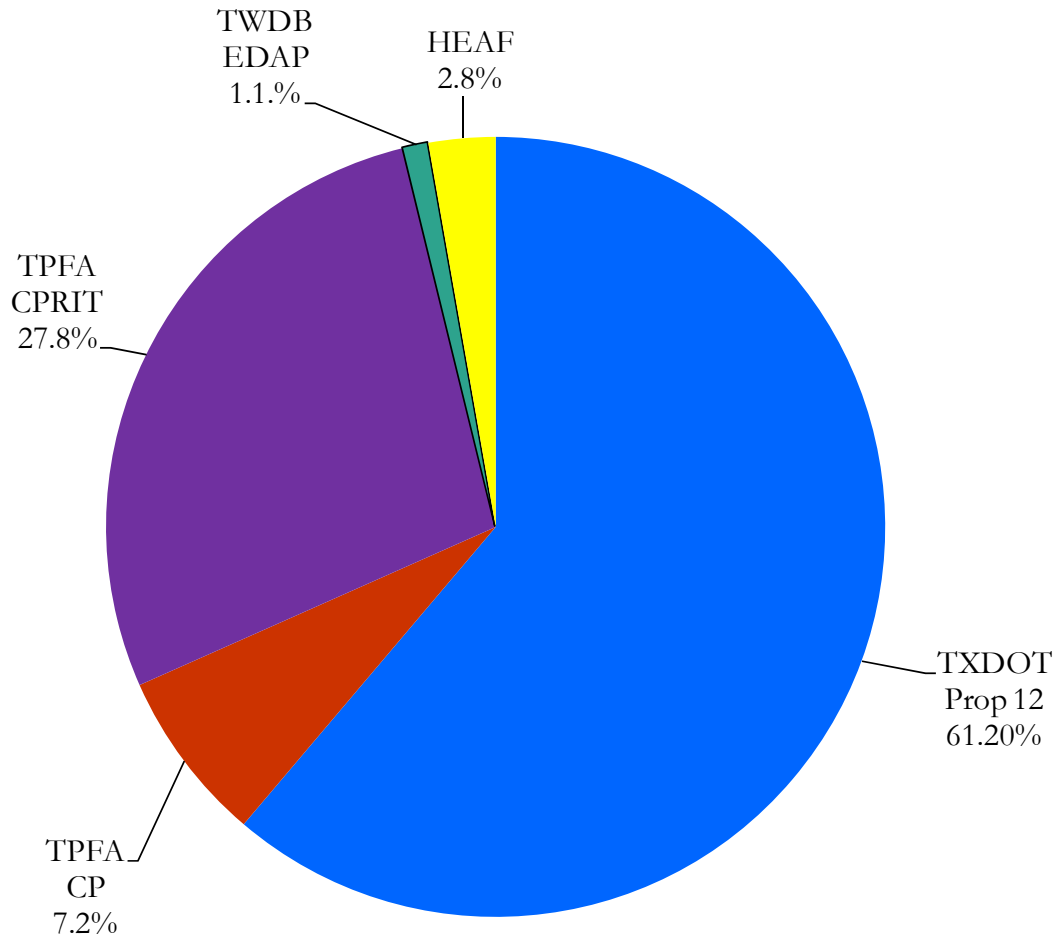
SOURCE: Texas Bond Review Board.

Not Self-Supporting Debt

NSS debt is generally repaid from the state's General Revenue Fund. At FYE 2013 NSS debt outstanding comprised 11.1 percent of the state's total debt outstanding and consisted of 95.4 percent GO and 4.6 percent revenue debt.

Based on the authorizations for which the approximate issuance date is known, an estimated \$4.74 billion in new, NSS debt is expected to be issued between fiscal years 2014 to 2018. These issuances are included in each of the five ratios discussed throughout this report. Figure 2.6 shows NSS debt projections by debt program for fiscal years 2014-18.

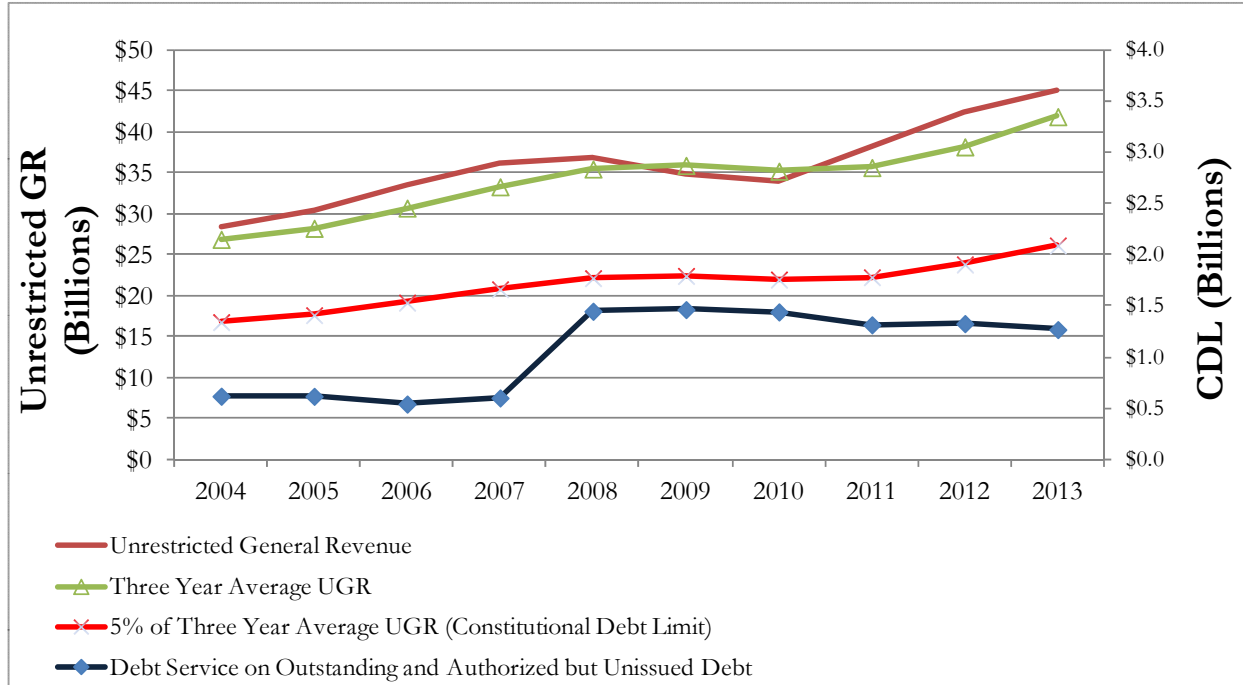
Figure 2.6
NSS Debt Projections for Fiscal Years 2014-18 (\$4.74 billion)



The Constitutional Debt Limit

As of August 31, 2013 the Constitutional Debt Limit (CDL) percentage for not self-supporting (NSS) debt outstanding was 1.34 percent for outstanding debt and 3.04 percent including both outstanding and authorized but unissued debt. These figures were 1.34 and 3.48, respectively for FY2012 and represent an increase of 0.3 percent and a decrease of 12.7 percent, respectively. (See *Appendix D* for more discussion regarding the CDL.)

Figure 2.7
Unrestricted General Revenue and Constitutional Debt Limit, Fiscal Years 2004 to 2013



SOURCE: Texas Bond Review Board.

The two curves at the top of *Figure 2.7* show the state’s UGR (brown curve) and the 3-year moving average for UGR (green curve) used to calculate the CDL. (Note the scale for those curves is on the left side of the graph.)

The red curve at the bottom of *Figure 2.7* shows the maximum amount of UGR available for debt service under the CDL, i.e., five percent of the moving average of the UGR. The blue curve shows debt service for outstanding and authorized but unissued NSS debt. (Note the scale for those curves is on the right side of the graph.) The white space between the red and blue curves represents available debt-service capacity under the CDL.

During the 10-year period from FY2004 to FY2013, UGR increased by 58.8 percent from \$28.36 billion to \$45.05 billion. The projected debt service on outstanding and authorized but unissued debt increased by 104.3 percent from \$622.4 million in FY2004 to \$1.27 billion in FY2013. The increase in the blue curve (Debt Service on Outstanding and Authorized but Unissued Debt) for 2008 results from the increased debt service required for the \$9.75 billion in authorized but unissued NSS debt approved by the voters in the November 2007 general election.

Chapter 3 - Debt Ratios in the Debt Capacity Model

An analysis of state debt ratios helps to assess the impact of bond issuances on the state's fiscal position. Credit rating agencies use ratios to evaluate the state's debt position and to help determine its credit rating. As a mechanism for the state to determine debt affordability, the Debt Capacity Model (DCM) computes five key ratios that provide an overall view of the state's debt burden. Projections of these ratios under varying debt assumptions can provide state leadership with guidelines for decision making for future debt authorization and debt-service appropriations.

Ratio 1: Not Self-Supporting Debt Service as a Percentage of Unrestricted General Revenue

Ratio 1 is calculated by dividing NSS debt service by a rolling three year average of unrestricted general revenue (UGR). The Comptroller's December 2013 Certification Revenue Estimate was used for DCM calculations. Funds available for debt service are expected to increase during fiscal 2014 as a result of a slight increase in projected general revenue over the next five years.

This ratio is a critical determinant of debt capacity because both the ability to generate revenue through taxation and to appropriate funds for debt service are within the state's control. State revenues available to pay debt service are legislatively determined by taxation on such items as sales, business franchises, fuels, crude oil production and natural gas production. The legislature then appropriates debt service based on the amounts needed for both existing and newly authorized debt.

Target and cap limits for Ratio 1 provide the legislature with realistic benchmarks against which to weigh the fiscal impact of new bond authorizations. For the purposes of this report, guideline ratios include a 2 percent target, a 3 percent cap to provide room for growth and flexibility and a maximum of 5 percent. Two percent is used as the target ratio because NSS debt service as a percent of UGR has historically been less than 2 percent.

Figure 3.1 shows that the annual debt-service requirements over the next five fiscal years for issued, authorized but unissued and projected NSS debt will increase from \$659.3 million in fiscal year 2014 to a peak in FY2016 of \$822.9 million. Debt service as a percentage of UGR will increase from 1.49 percent in fiscal year 2014 to a peak in FY2016 of 1.75 percent. *Figure 3.1* only considers the projected debt-service ratios for NSS debt for which the state's general revenue is required for repayment. (Neither *Figure 3.1* nor Ratio 1 should be confused with the Constitutional Debt Limit (CDL) calculation. See Appendix D for further discussion of the CDL.)

Figure 3.1

Ratio 1: Not Self-Supporting Debt Service as a Percentage of Unrestricted General Revenue, Fiscal Years 2014 to 2018

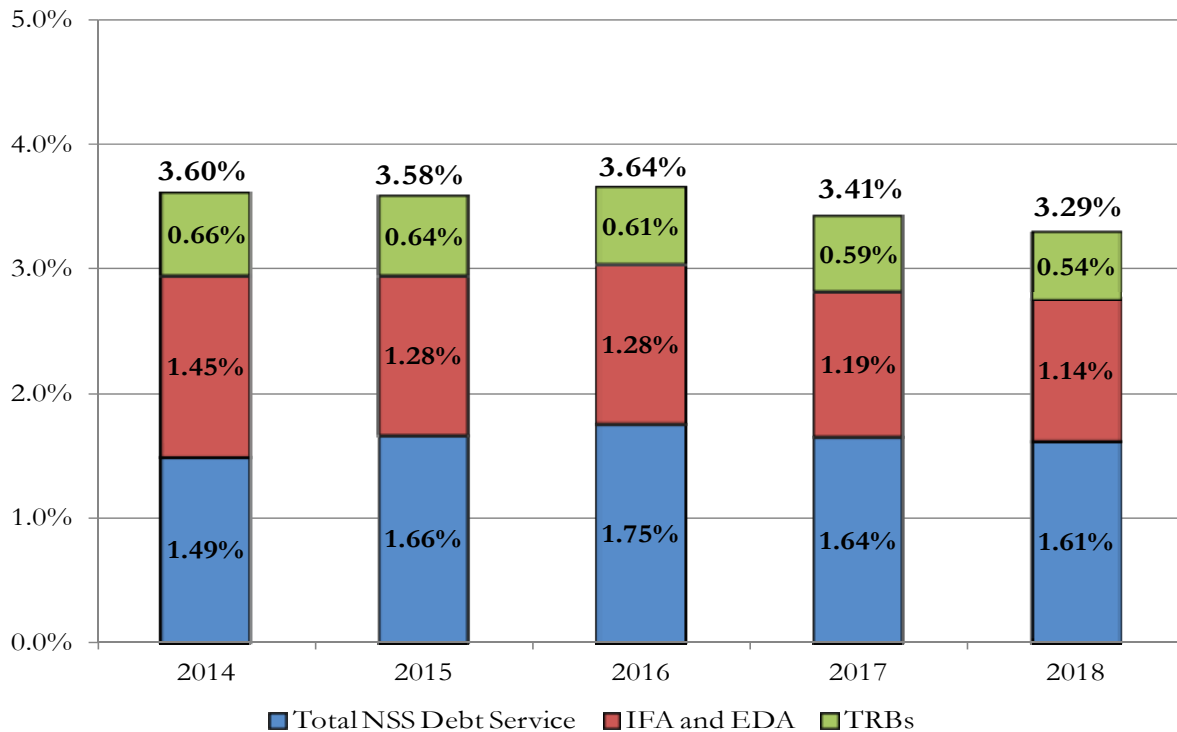
| Fiscal Year | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Projected Unrestricted General Revenue | \$45,807,733,396 | \$46,457,192,656 | \$48,508,325,183 | \$50,671,481,998 | \$52,513,183,941 |
| Not Self-Supporting Annual Debt Service | | | | | |
| Issued Debt | \$564,430,877 | \$550,773,802 | \$501,230,494 | \$439,900,202 | \$425,694,165 |
| Authorized but Unissued Debt | \$87,394,611 | \$190,793,820 | \$288,889,682 | \$302,123,655 | \$310,013,705 |
| Projected Debt | \$7,503,844 | \$17,846,176 | \$32,821,746 | \$52,661,424 | \$78,682,989 |
| Total Debt Service | \$ 659,329,332 | \$ 759,413,798 | \$ 822,941,922 | \$ 794,685,281 | \$ 814,390,859 |
| Debt Service as a Percentage of Unrestricted General Revenue | | | | | |
| Issued Debt | 1.27% | 1.20% | 1.07% | 0.91% | 0.84% |
| plus Authorized but Unissued Debt | 1.47% | 1.62% | 1.68% | 1.53% | 1.45% |
| plus Projected | 1.49% | 1.66% | 1.75% | 1.64% | 1.61% |
| Remaining Debt-Service Capacity | | | | | |
| Target (2.0%) | \$228,270,366 | \$155,986,434 | \$115,546,419 | \$176,228,052 | \$196,895,748 |
| Cap (3.0%) | \$672,070,215 | \$613,686,550 | \$584,790,590 | \$661,684,718 | \$702,539,052 |
| Max (5.0%) | \$1,559,669,914 | \$1,529,086,782 | \$1,523,278,931 | \$1,632,598,050 | \$1,713,825,659 |

SOURCE: Texas Bond Review Board.

Ratio 1 of the DCM can be used to provide various scenarios to assess the impact of increasing or decreasing the debt-service capacity of special debt commitments. Special Debt Commitments (SDC) consists of tuition revenue bonds (TRBs) for higher education and the Existing Debt Allotment (EDA) and Instructional Facilities Allotment (IFA) for public education. The impacts of these payments on total debt capacity are shown in *Figure 3.2*.

Figure 3.2

Debt Service Commitments as a Percentage of Unrestricted General Revenue



SOURCE: Texas Bond Review Board.

Ratio 1 resembles the CDL calculation, but the latter includes certain items that are not included in Ratio 1. For example, because debt service for Higher Education Fund (HEF) bonds is paid from a general revenue appropriation, the CDL calculation process requires that the maximum annual debt-service for these bonds be included while Ratio 1 uses annual projections for debt service.

In addition, the CDL calculation omits certain debt service for Economically Distressed Areas Program (EDAP) bonds issued by the Texas Water Development Board (TWDB). Proceeds from the sale of EDAP bonds are used to make loans or grants to local governments or other political subdivisions for projects involving water conservation, transportation, storage and treatment. Up to 90 percent of the bonds can be used for grants, and at least 10 percent must be used to make loans. For purposes of the CDL calculation, the debt service on the 10 percent used for loans is assumed to be repaid from sources other than general revenue and is thus omitted from the CDL calculation.

The CDL calculation for authorized but unissued debt assumes a single issue date for all debt, level debt service, a conservative interest rate (6 percent in recent fiscal years) and a 20-year term. By comparison, Ratio 1 uses projections provided by each issuer to more accurately reflect issuance timing, structure, interest rate and term.

For fiscal year 2014 Ratio 1 is 1.49 percent but increases to 3.60 percent with the addition of SDC. Including SDC, Ratio 1 peaks at 3.64 percent in fiscal 2016. (See *Appendix C* for more information on the impact of special debt commitments.)

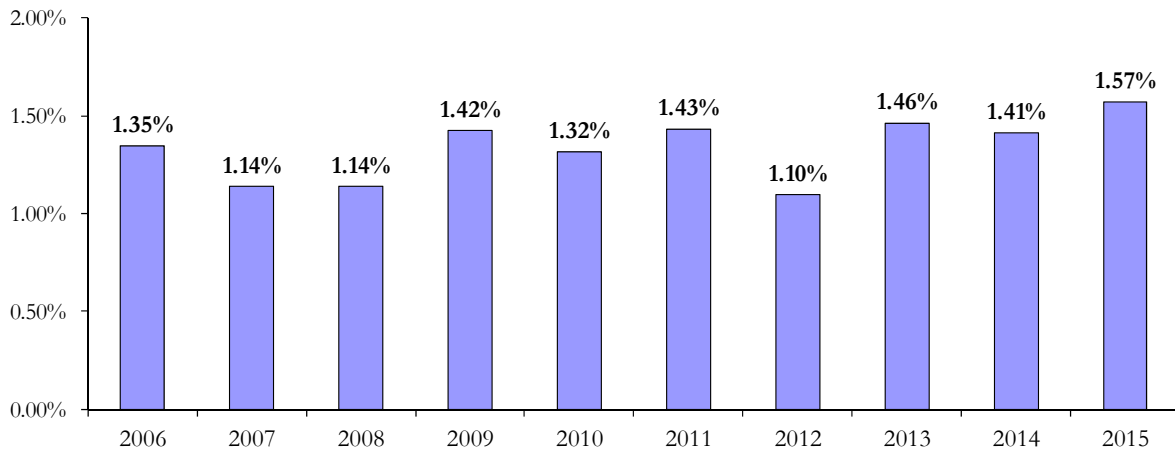
Ratio 2: Not Self-Supporting Debt Service as a Percentage of Budgeted General Revenue

This ratio is similar to Ratio 1 but is generally more restrictive because the amount of available general revenue in this ratio is limited to budgeted general revenue. Unlike Ratio 2, UGR in Ratio 1 is based on a rolling three-year average (FY2012-2014).

Texas expended an average of 1.33 percent of budgeted general revenue for NSS debt service in fiscal years 2006-2015. Based on the amounts in the 2014-15 General Appropriations Act (Senate Bill 1), NSS debt service as a percentage of budgeted general revenue is projected to be 1.41 percent and 1.57 percent for fiscal years 2014 and 2015, respectively. Although the state's NSS debt-service commitment has historically been less than 1.5 percent of budgeted general revenue, the increase to 1.57% in fiscal 2015 occurred because the projected increase in debt service outweighs the projected increase in budgeted general revenue. (See *Figure 3.3*).

Figure 3.3

Ratio 2: Not Self-Supporting Debt Service as a Percentage of Budgeted General Revenue, Fiscal Years 2006 to 2015



SOURCE: Texas Bond Review Board.

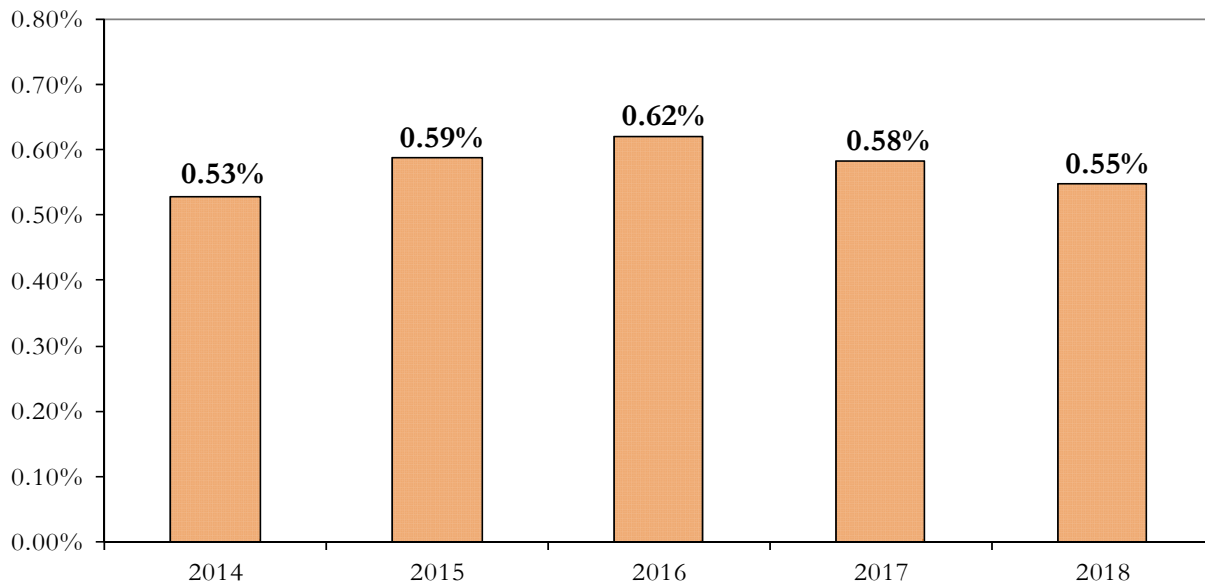
Ratio 3: Not Self-Supporting Debt as a Percentage of Personal Income

Ratio 3 is NSS debt divided by total personal income and is a direct indicator of a government’s ability to repay debt obligations by transforming personal income into revenues through taxation. This ratio is a component of the state’s credit ratings.

Based on personal income projections from the Comptroller of Public Accounts, Ratio 3 ranges from 0.53 percent in 2014 to 0.62 percent for fiscal 2016 (*Figure 3.4*). Standard and Poor’s considers a debt burden of less than 3 percent to be low.

Figure 3.4

Ratio 3: Not Self-Supporting Debt as a Percentage of Personal Income, Fiscal Years 2014 to 2018



SOURCE: Texas Bond Review Board.

Ratio 4: Not Self-Supporting Debt per Capita

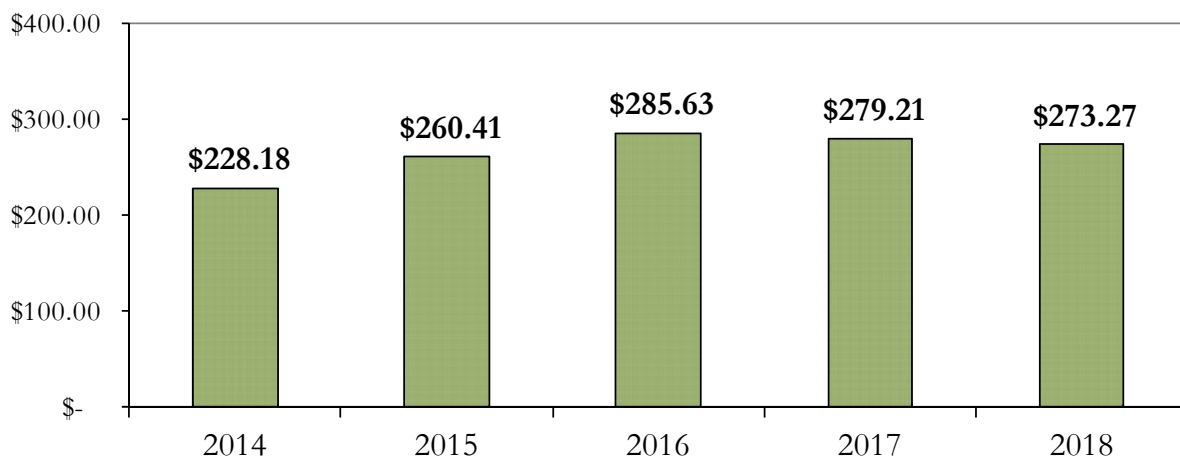
Ratio 4 is the amount of NSS debt divided by the state's population and measures the dollar amount of debt per person. Like Ratio 3, this ratio is a component of the state's credit ratings.

Based on population projections by the Comptroller of Public Accounts, the NSS debt per capita is expected to be \$228 in fiscal 2014 and is projected to increase to \$286 in fiscal 2016 (*Figure 3.5*). Standard & Poor's considers less than \$1,000 of state debt per capita to be low.

Although tax-supported debt per capita and debt as a percent of personal income at the state level are low, it is important to note that Texas' local debt burden is higher than other states'. Among the nation's ten most populous states, Texas ranks second in population, ninth in state debt per capita but second in local debt per capita with an overall rank of fourth for total (state and local) debt per capita. Approximately 85.1 percent of state's total debt is local debt. See *Appendix F* for a comparison of Texas' debt with that of other states.

Figure 3.5

Ratio 4: Not Self-Supporting Debt per Capita, Fiscal Years 2014 to 2018



SOURCE: Texas Bond Review Board.

Ratio 5: Rate of Debt Retirement

The rate of debt retirement is calculated as Ratio 5 in the DCM. This rate measures the extent to which new debt capacity is created for future debt issuance. Level principal payments result in more rapid payment of principal than other structures such as level debt-service payments. Annual debt service is higher in the earlier years for debt structured with level principal payments, but the more rapid principal amortization results in lower overall interest costs and more rapid replacement of debt capacity than level debt payments. Credit rating agencies use the rate of principal retirement for NSS debt as a measure of the state's debt capacity and have benchmarked a rate of 25 percent of the principal amount of 20-year maturities to be retired in five years and 50 percent in 10 years.

Of Texas' NSS debt outstanding as of August 31, 2013, 28.8 percent will be retired in five years and 51.6 percent will be retired in 10 years (*See Figure 3.6*). The rate of debt retirement decreased from fiscal year 2010's rates of 46.4 percent and 72.3 percent for the five year and ten year periods,

respectively primarily due to the Texas Transportation Commission’s (TTC) issuance of \$977.8 million of Proposition 12 Bonds in September 2010 and an additional \$918.2 million issued in December 2012 with level debt service instead of level principal payments and a maturity of 30 years. In 15 years, approximately 71.0 percent of NSS debt will be retired. The rate of retirement is expected to decline further as TTC continues to issue the remaining \$3 billion of Proposition 12 debt with a similar structure.

Approximately 19.6 percent of the state’s self-supporting (SS) debt will be retired in five years and 36.7 percent of debt will be retired in 10 years. The slower rate of retirement for SS debt is due in part to the use of level debt service or other forms of delayed principal repayment as well as the issuance of debt with maturities of 30 years or more to match the useful life of the projects financed (i.e. housing and water development programs).

Figure 3.6
Ratio 5: Rate of Debt Retirement in Five and 10 Years for Not Self-Supporting and Self-Supporting Debt

| | 5 Years | 10 Years |
|--------------------------|---------|----------|
| Not Self-Supporting Debt | 28.8% | 51.6% |
| Self Supporting Debt | 19.6% | 36.7% |

Chapter 4 - Conclusion

The 80th Legislature mandated the Texas Bond Review Board, in consultation with the Legislative Budget Board, to prepare annually the state's Debt Affordability Study (DAS). The DAS and its Debt Capacity Model provide the state's policymakers, leadership and credit rating agencies with a comprehensive tool to evaluate current and proposed debt levels.

Statute requires the DAS to include a target and cap for Ratio 1, both of which can be adjusted as requested or as directed by the BRB or Legislative Budget Board. Since Texas has historically appropriated less than 2 percent of its unrestricted general revenue (UGR) for not self-supporting (NSS) debt service, this study utilizes 2 percent as the target, 3 percent as the cap, and 5 percent as the maximum for the key ratio, NSS Debt Service as a Percentage of UGR (Ratio 1).

Major Findings – Figure 4.1

- With a growing economy, the state's General Revenue Fund is expected to increase for FY 2014-2018. Assuming projected NSS debt issuance of \$4.74 billion over the next five fiscal years, Ratio 1 remains below the target of 2 percent.
- Including Special Debt Commitments (TRBs, IFA and EDA), total debt service exceeds Ratio 1's target of 2 percent and cap of 3 percent but remains below the 5 percent max. (*See Figure 4.1, Chapter 3 and Appendix C*)
- Special Debt Commitments are projected to account for more than half of the total NSS debt service for fiscal years 2014-2018.
- For FY2014-2018, NSS debt service including Special Debt Commitments is projected to peak in fiscal 2016 (*see Figure 4.1*).
- NSS debt as a percentage of personal income and debt per capita are expected to be better than rating agency benchmarks through fiscal 2018.
- The rates of debt retirement for NSS debt for five and ten year periods are better than rating agency benchmarks. However, the state's rate of debt retirement is expected to decline as the remaining \$3 billion of Texas Transportation Commission (Proposition 12) debt is issued.
- Ratio 1 remains below the 2 percent target after a one-time hypothetical debt issuance of \$1 billion in addition to the \$4.74 billion of NSS debt expected to be issued over the next five fiscal years.
- Assuming \$4.74 billion of projected NSS debt issuance over the next five fiscal years, Texas is expected to have approximately \$1.74 billion of authorized but unissued NSS debt remaining by FY 2019.

Figure 4.1 - Summary of Ratios 1 – 5

| Fiscal Year | 2014 | | 2015 | | 2016 | | 2017 | | 2018 | | | | | | |
|--|------|---------------|----------|-------|---------------|--------|------|---------------|--------|----|---------------|--------|----|---------------|--------|
| RATIO 1: Not Self-Supporting Debt Service as a Percentage of Unrestricted General Revenue | | | | | | | | | | | | | | | |
| NSS Debt Service | | | | | | | | | | | | | | | |
| Issued | \$ | 564,430,877 | 1.27% | \$ | 550,773,802 | 1.20% | \$ | 501,230,494 | 1.07% | \$ | 439,900,202 | 0.91% | \$ | 425,694,165 | 0.84% |
| Authorized but Unissued | | 87,394,611 | 0.20% | | 190,793,820 | 0.42% | | 288,889,682 | 0.62% | | 302,123,655 | 0.62% | | 310,013,705 | 0.61% |
| Projected | | 7,503,844 | 0.02% | | 17,846,176 | 0.04% | | 32,821,746 | 0.07% | | 52,661,424 | 0.11% | | 78,682,989 | 0.16% |
| Total NSS Debt Service (excluding SDC) | \$ | 659,329,332 | 1.49% | \$ | 759,413,798 | 1.66% | \$ | 822,941,922 | 1.75% | \$ | 794,685,281 | 1.64% | \$ | 814,390,859 | 1.61% |
| Special Debt Commitments | \$ | 939,450,245 | 2.12% | \$ | 878,350,719 | 1.92% | \$ | 886,891,299 | 1.89% | \$ | 861,684,989 | 1.77% | \$ | 848,630,743 | 1.68% |
| Total Debt Service (including SDC) | \$ | 1,598,779,577 | 3.60% | \$ | 1,637,764,517 | 3.58% | \$ | 1,709,833,221 | 3.64% | \$ | 1,656,370,270 | 3.41% | \$ | 1,663,021,602 | 3.29% |
| SDC as a % of Total | | 58.8% | | 53.6% | | 51.9% | | 52.0% | | | 51.0% | | | | |
| Remaining Debt-Service Capacity excluding SDC* | | | | | | | | | | | | | | | |
| Target (2%) | \$ | 228,270,366 | 0.51% | \$ | 155,986,434 | 0.34% | \$ | 115,546,419 | 0.25% | \$ | 176,228,052 | 0.36% | \$ | 196,895,748 | 0.39% |
| Cap (3%) | \$ | 672,070,215 | 1.51% | \$ | 613,686,550 | 1.34% | \$ | 584,790,590 | 1.25% | \$ | 661,684,718 | 1.36% | \$ | 702,539,052 | 1.39% |
| Max (5%) | \$ | 1,559,669,914 | 3.51% | \$ | 1,529,086,782 | 3.34% | \$ | 1,523,278,931 | 3.25% | \$ | 1,632,598,050 | 3.36% | \$ | 1,713,825,659 | 3.39% |
| Remaining Debt-Service Capacity including SDC* | | | | | | | | | | | | | | | |
| Target (2%) | \$ | (711,179,879) | -1.60% | \$ | (722,364,285) | -1.58% | \$ | (771,344,879) | -1.64% | \$ | (685,456,938) | -1.41% | \$ | (651,734,995) | -1.29% |
| Cap (3%) | \$ | (267,380,029) | -0.60% | \$ | (264,664,169) | -0.58% | \$ | (302,100,709) | -0.64% | \$ | (200,000,272) | -0.41% | \$ | (146,091,691) | -0.29% |
| Max (5%) | \$ | 620,219,669 | 1.40% | \$ | 650,736,063 | 1.42% | \$ | 636,387,633 | 1.36% | \$ | 770,913,061 | 1.59% | \$ | 865,194,917 | 1.71% |
| RATIO 2: Not Self-Supporting Debt Service as a Percentage of Budgeted General Revenue | | 1.41% | | | 1.57% | | | | | | | | | | |
| RATIO 3: Not Self-Supporting Debt as a Percentage of Personal Income | | 0.53% | | | 0.59% | | | 0.62% | | | 0.58% | | | 0.55% | |
| RATIO 4: Not Self-Supporting Debt Per Capita | | \$228 | | | \$260 | | | \$286 | | | \$279 | | | \$273 | |
| Ratio 5: Rate of Debt Retirement in | | 5 Years | 10 Years | | | | | | | | | | | | |
| Not Self-Supporting Debt | | 28.8% | 51.6% | | | | | | | | | | | | |
| Self-Supporting Debt | | 19.6% | 36.7% | | | | | | | | | | | | |

* Debt-service capacity is the available capacity to meet target, cap or maximum percentages.

SOURCE: Texas Bond Review Board

Appendix A - Methodology and the Debt Capacity Model

The core of the Debt Affordability Study is the Debt Capacity Model (DCM) which uses revenue and debt information to calculate the five debt ratios described in the study. This financial model provides a platform for economic sensitivity analyses by considering the state’s financial condition, economic and demographic trends and outstanding debt levels. Local debt was omitted from the analysis in the DCM.

Economic Assumptions

The DCM contains three separate scenarios of general revenue available for not self-supporting (NSS) debt service to show the effect of economic factors on additional debt capacity. The model uses information and projections for FY2014 through 2023 for general revenues, personal income and population changes.

As described in *Figure A1*, Scenario A (base scenario) uses a 10-year average for general revenues available for NSS debt service (i.e., 3.60 percent growth from FY2014-2023), a 10-year annual average for personal income (i.e., 5.19 percent growth from FY2014-2023) and a 10-year annual average for population change (i.e., 1.61 percent growth from FY2014-2023). All the figures listed in this report are based on Scenario A.

Scenario B (positive scenario) reflects a 0.5 percent increase in available general revenues over the base scenario. Total personal income and population change are based on the highest annual growth in the 10-year period (FY2014-2023). Scenario C (negative scenario) assumes a 0.5 percent decrease relative to the base scenario in general revenues available for NSS debt service. Total personal income and population changes are based on the lowest rates in the 10-year period (FY2014-2023).

Figure A1
Percentage Growth Rates of Economic Factors Used in the Debt Capacity Model

| Economic Factor | Base Scenario (A) | Positive Scenario (B) | Negative Scenario (C) |
|--|----------------------|--------------------------|--------------------------|
| General Revenue Available for Debt Service | 3.60 | 4.10 | 3.10 |
| Total Personal Income | 5.19 | 5.85 | 3.98 |
| Population Change | 1.61 | 1.68 | 1.49 |

SOURCE: Texas Bond Review Board.

General Revenue Available for Not Self-Supporting Debt Service

Fiscal year 2013 is from Table 11 of the Comptroller's 2013 Annual Cash Report. The Comptroller's December 2013 Certification Revenue Estimate was used for fiscal year 2014 and fiscal year 2015.

Except as noted below, estimates for many revenue sources for fiscal year 2016 and later were based on the estimated average annual growth rate for each revenue object from fiscal year 2005 through fiscal year 2015, using actual 2005 data and the CPA estimates for 2015.

Some exceptions to this method must be noted:

- As provided by the LBB, sales tax is projected to grow at 5 percent annually after FY2015.
- Motor sales taxes were projected to grow at the combined rate of inflation and population.

- Cigarette tax revenues were adjusted to reflect their irregular collections cycle.
- Revenues from the natural gas tax and oil production tax were estimated using the Comptroller's Fall 2013 forecast for natural gas and oil price and production.
- The estimate assumes no state inheritance tax collections.
- Certain minor revenue sources that were estimated by the CPA to have no growth between fiscal year 2014 and fiscal year 2015 were maintained at the fiscal year 2015 level throughout the forecast period. The revenue forecast does not include tax revenue deposited to the Property Tax Relief Fund because those revenues are statutorily dedicated.

Various scenarios can be created by simply varying the forecast assumptions in the DCM. The model can be rerun at any time the Office of the Comptroller issues new revenue updates.

Appendix B - Debt Capacity – Ratio Analysis

The information presented in this appendix focuses on existing and projected debt issuances for NSS debt. Existing debt consists of both issued as well as authorized but unissued debt with a line item for each in the Ratio analyses.

Figure B1 illustrates Ratio 1 (Not Self-Supporting Debt Service as a Percentage of Unrestricted General Revenue) assuming current and projected debt levels for FY2014-2018. As discussed in Chapter 3, if no new debt is added to the existing or projected issuances, not self-supporting (NSS) debt service as a percentage of unrestricted general revenue will be less than the 2 percent target - ranging from 1.49 percent in FY2014 to a high of 1.75 percent in FY2016.

The report uses 2 percent as the target and 3 percent as the cap for Ratio 1. Based on projections from FY2014 through FY2018 for unrestricted general revenue and debt issuances, the 2 percent target for Ratio 1 would not be exceeded (See *Chapter 1* and *Appendix D* for a list of projected debt issuances). For fiscal years 2014-2018 under the 2 percent target, the state's additional debt-service capacity ranges from a high of \$228.3 million for FY2014 and a low of \$115.5 for FY2016.

Figure B1
Ratio 1: Not Self-Supporting Debt Service as a Percentage of Unrestricted General Revenue, Fiscal Years 2014 to 2018

| Fiscal Year | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|------------------|------------------|------------------|------------------|------------------|
| Projected Unrestricted General Revenue | \$45,807,733,396 | \$46,457,192,656 | \$48,508,325,183 | \$50,671,481,998 | \$52,513,183,941 |
| Not Self-Supporting Annual Debt Service | | | | | |
| Issued Debt | \$564,430,877 | \$550,773,802 | \$501,230,494 | \$439,900,202 | \$ 425,694,165 |
| Authorized but Unissued Debt | \$87,394,611 | \$190,793,820 | \$288,889,682 | \$302,123,655 | \$ 310,013,705 |
| Projected Debt | \$7,503,844 | \$17,846,176 | \$32,821,746 | \$52,661,424 | \$ 78,682,989 |
| Total Debt Service | \$ 659,329,332 | \$ 759,413,798 | \$ 822,941,922 | \$ 794,685,281 | \$ 814,390,859 |
| Debt Service as a Percentage of Unrestricted General Revenue | | | | | |
| Issued Debt | 1.27% | 1.20% | 1.07% | 0.91% | 0.84% |
| plus Authorized but Unissued Debt | 1.47% | 1.62% | 1.68% | 1.53% | 1.45% |
| plus Projected | 1.49% | 1.66% | 1.75% | 1.64% | 1.61% |
| Remaining Debt-Service Capacity | | | | | |
| Target (2.0%) | \$228,270,366 | \$155,986,434 | \$115,546,419 | \$176,228,052 | \$196,895,748 |
| Cap (3.0%) | \$672,070,215 | \$613,686,550 | \$584,790,590 | \$661,684,718 | \$702,539,052 |
| Max (5.0%) | \$1,559,669,914 | \$1,529,086,782 | \$1,523,278,931 | \$1,632,598,050 | \$1,713,825,659 |

SOURCE: Texas Bond Review Board.

The Debt Capacity Model (DCM) provides policymakers with the ability to review the impact on the state's finances of a state-bond financed project or projects of any size. *Figure B2* shows the impact of new, NSS debt authorizations on Ratio 1. The first scenario assumes a \$250 million project, and the second scenario assumes a \$1 billion project. For purposes of this analysis, the debt was assumed to be issued in September 2014 with first debt-service payments in February 2015. The examples also assume a 20-year repayment term with 6 percent interest and level principal payments.

Figure B2
Impact of Additional Debt on Ratio 1

| Fiscal Year | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|----------------|----------------|----------------|----------------|----------------|
| Debt Service as a Percent of Unrestricted General Revenue | | | | | |
| Actual | 1.49% | 1.66% | 1.75% | 1.64% | 1.61% |
| With \$250M Project | 1.54% | 1.72% | 1.81% | 1.69% | 1.66% |
| With \$1B Project | 1.72% | 1.89% | 1.98% | 1.85% | 1.80% |
| Remaining Debt-Service Capacity | | | | | |
| Target (2.0%) | | | | | |
| Actual | \$ 228,269,789 | \$ 155,985,857 | \$ 115,546,419 | \$ 176,228,052 | \$ 196,895,748 |
| With \$250M Project | \$ 201,990,623 | \$ 129,206,690 | \$ 89,517,252 | \$ 150,948,885 | \$ 172,366,581 |
| With \$1B Project | \$ 123,153,123 | \$ 48,869,190 | \$ 11,429,752 | \$ 75,111,385 | \$ 98,779,081 |
| Cap (3.0%) | | | | | |
| Actual | \$ 672,069,350 | \$ 613,685,685 | \$ 584,790,590 | \$ 661,684,718 | \$ 702,539,052 |
| With \$250M Project | \$ 645,790,184 | \$ 586,906,518 | \$ 558,761,423 | \$ 636,405,551 | \$ 678,009,885 |
| With \$1B Project | \$ 566,952,684 | \$ 506,569,018 | \$ 480,673,923 | \$ 560,568,051 | \$ 604,422,385 |

SOURCE: Texas Bond Review Board.

The \$250 million project would decrease annual debt-service capacity by approximately \$26.2 million in each fiscal year beginning in 2014, and Ratio 1 would rise from 1.54 percent in FY2014 to a high of 1.81 percent in FY2016.

The \$1 billion project would decrease annual debt-service capacity by approximately \$105.1 million in each fiscal year beginning in 2014, and Ratio 1 would rise from 1.72 percent in FY2014 to a high of 1.98 percent in FY2016. This percentage approximates the target ratio of 2 percent but is still well below the cap of 3 percent.

For the \$1 billion project Ratio 2 (Not Self-Supporting Debt Service as a Percentage of Budgeted General Revenue) would increase from 1.41 percent to 1.64 percent in FY2014 and from 1.57 percent to 1.79 percent in FY2015. Only years 2014 and 2015 are analyzed for this ratio.

Figure B3 illustrates Ratio 3 (Not Self-Supporting Debt as a Percentage of Personal Income) for FY2014-2018. For this time period Texas will maintain a percentage of NSS debt to personal income from 0.53 percent in FY2014 to a peak of 0.62 percent in FY2016. The effects of the assumed \$250 million and \$1 billion projected debt are also shown in *Figure B3*.

Figure B3**Ratio 3: Not Self-Supporting Debt as a Percentage of Personal Income, Fiscal Years 2014 to 2018**

| Fiscal Year | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Not Self-Supporting Debt | | | | | |
| Beginning Outstanding | \$ 4,844,461,462 | \$ 6,135,101,335 | \$ 7,119,069,833 | \$ 7,938,986,516 | \$ 7,888,884,038 |
| Planned Issuances | \$ 1,574,421,940 | \$ 1,340,938,953 | \$ 1,202,010,983 | \$ 299,153,539 | \$ 322,308,272 |
| Retirements - Existing Debt | \$ 269,627,066 | \$ 310,515,601 | \$ 304,846,945 | \$ 256,047,042 | \$ 252,763,620 |
| Retirements - New Debt | \$ 14,155,000 | \$ 46,454,854 | \$ 77,247,354 | \$ 93,208,977 | \$ 111,430,463 |
| Ending Outstanding | \$ 6,135,101,335 | \$ 7,119,069,833 | \$ 7,938,986,516 | \$ 7,888,884,038 | \$ 7,846,998,226 |
| Total Personal Income | \$ 1,161,132,120,000 | \$ 1,210,381,300,000 | \$ 1,278,087,760,000 | \$ 1,352,832,990,000 | \$ 1,431,599,100,000 |
| Not Self-Supporting Debt as a Percentage of Personal Income | | | | | |
| with \$250 million project | 0 53% | 0 59% | 0 62% | 0 58% | 0 55% |
| with \$250 million project | 0 55% | 0 61% | 0 64% | 0 60% | 0 57% |
| with \$1 billion project | 0 61% | 0 67% | 0 70% | 0 66% | 0 62% |

SOURCE: Texas Bond Review Board and Comptroller of Public Accounts.

Figure B4 illustrates the impact of the \$250 million and \$1 billion projects on Ratio 4 (Not Self-Supporting Debt per Capita).

Figure B4**Ratio 4: Not Self-Supporting Debt per Capita, Fiscal Years 2014 to 2018**

| Fiscal Year | 2014 | 2015 | 2016 | 2017 | 2018 |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Not Self-Supporting Debt Outstanding | \$ 6,135,101,335 | \$ 7,119,069,833 | \$ 7,938,986,516 | \$ 7,888,884,038 | \$ 7,846,998,226 |
| Projected Population | 26,886,930 | 27,338,300 | 27,794,860 | 28,254,250 | 28,715,390 |
| Not Self-Supporting Debt Per Capita | \$ 228 | \$ 260 | \$ 286 | \$ 279 | \$ 273 |
| with \$250 million project | \$ 237 | \$ 270 | \$ 295 | \$ 288 | \$ 282 |
| with \$1 billion project | \$ 265 | \$ 297 | \$ 322 | \$ 315 | \$ 308 |

SOURCE: Texas Bond Review Board and Comptroller of Public Accounts.

The \$250 million and \$1 billion project scenarios were structured with level principal payments over the 20-year term and do not impact Ratio 5 (rate of debt retirement) as Ratio 5 is calculated using authorized and issued debt and does not consider projected debt. For FY2014-2023, the NSS debt issued for both projects are retired at a rate of approximately 50 percent in 10 years.

Appendix C - Special Debt Commitments – TRBs, EDA and IFA

Two distinct versions of Ratio 1: Not Self-Supporting Debt Service as a Percentage of Unrestricted Revenue have been computed. The first considers only debt service for not self-supporting (NSS) debt for which the state is legally obligated. The second shows the impact of Special Debt Commitments (SDC) on the DCM ratios. Although not legal obligations of the state, the state appropriates debt service for SDC which includes tuition revenue bonds (TRBs) for higher education and the Existing Debt Allotment (EDA) and Instructional Facilities Allotment (IFA) for public schools. The following tables provide policymakers with metrics to review not only the impact of NSS debt but also the impact of these special debt commitments that are paid with general revenue.

Description of Special Debt Commitments

Three special debt commitments (SDC) are either reimbursed by, or receive a contribution from the state. These obligations include:

Tuition Revenue Bonds (TRBs)

TRBs are revenue bonds issued by the individual higher education institutions, systems or the Texas Public Finance Authority (on behalf of certain institutions) for new building construction or renovation. The Legislature has to authorize the projects in statute, and the TRBs cannot be used for auxiliary space, such as dormitories. All college and university revenue bonds are equally secured by, and payable from a pledge of all or a portion of certain “revenue funds” as defined in the Texas Education Code, Chapter 55. Though legally secured through an institution’s tuition and fee revenue, historically the state has used general revenue to reimburse the universities for debt service for these bonds. As of August 31, 2013 no significant TRB authority remains unissued.

Instructional Facilities Allotment (IFA)

The IFA program was authorized in House Bill 4 by the 75th Legislature (1997). The provisions that authorize the IFA program are incorporated into the Texas Education Code as Chapter 46, Subchapter A. The IFA program provides assistance to school districts in making debt-service payments on qualifying bonds and lease-purchase agreements. Districts must make application to the Texas Education Agency (TEA) to receive assistance. Bond or lease-purchase proceeds must be used for the construction or renovation of an instructional facility. A maximum allotment is determined based upon the lesser of annual debt-service payments or \$250 per student in average daily attendance (ADA).

Expansion of the IFA program through new award cycles is contingent on a specific appropriation for that purpose each biennium. Appropriations for the current biennium do not include funding for new IFA awards.

Existing Debt Allotment (EDA)

In 1999, the 76th Legislature added Subchapter B to Chapter 46 of the Texas Education Code to create the EDA. The EDA is similar to the IFA program in that it provides tax-rate equalization for local debt-service taxes. The original qualification for EDA eligibility was debt “for which the district levied and collected taxes in the 1998–99 school year.” Legislative action each session updated the years defining qualifying debt to include debt through the last year of the biennium.

The eligibility date for the EDA program was amended by the passage of House Bill 3646, 81st Legislature. Section 76 of the bill changed the Texas Education Code §46.033 to provide a permanent roll-forward provision to establish bond eligibility for the EDA program. The amendments to the section deleted the eligibility dates in the statute and replaced those dates with references to the last year of the preceding biennium. As a result, bonds that have been issued during a biennium, with the first payment made during that biennium, will become automatically eligible for the EDA in the following biennium without the need for legislative action.

EDA must be used for debt that is not receiving IFA funding. In the initial biennium of operation, the EDA was limited to \$0.12 per \$100 of valuation but was raised in 2001 to a level of \$0.29 per \$100 of valuation. Currently, the guaranteed yield for EDA provides \$35 per student in average daily attendance (ADA) per penny of tax effort.

EDA funding is shared between state and local resources. The amount of state aid on eligible bonds during the coming biennium (2014–15) will be determined by the 2012–13 Interest and Sinking tax collections. If a district’s 2012–13 tax rate did not include tax effort for newly eligible bonds, it is possible the district may not receive EDA funding for those bonds until the 2015–16 school year, depending on local circumstances.

The EDA program operates without applications and has no award cycles. Instead, the program is based on a statutory definition of eligible debt, presently determined by the first payment of debt service in accordance with Texas Education Code §46.033. Refunding bonds as defined by Texas Education Code §46.007 are also eligible for EDA assistance. Only general obligation debt is eligible for the program. The projects originally financed by the debt do not impact eligibility since no restriction to instructional facilities exists.

By statute, both EDA and IFA have a higher priority for appropriations than any other program funded under the Foundation School Program. The Foundation School Program, of which state support for school district bond indebtedness are a part, contains additional revenue sources not included in the definition of unrestricted General Revenue that are available to fund the state’s obligations for EDA and IFA. These sources include lottery proceeds (GR), the Property Tax Relief Fund, and school district recapture payments. *Figure C1* shows the expected annual debt-service payments to be made for TRBs, EDA and IFA assuming no further statutory changes are made to EDA eligibility or new grants are made pursuant to IFA appropriations.

Figure C1
Annual Debt-Service Payments for Special Debt Commitments, Fiscal Years 2014 to 2018

| Commitment | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Special Debt | | | | | |
| Outstanding TRBs | 293,850,245 | 290,850,719 | 287,091,299 | 285,084,989 | 271,930,743 |
| Authorized but Unissued TRBs | - | - | - | - | - |
| Instructional Facilities Allotment | 294,300,000 | 280,300,000 | 270,900,000 | 261,000,000 | 251,300,000 |
| Existing Debt Allotment | 351,300,000 | 307,200,000 | 328,900,000 | 315,600,000 | 325,400,000 |
| Total Debt Service | \$ 939,450,245 | \$ 878,350,719 | \$ 886,891,299 | \$ 861,684,989 | \$ 848,630,743 |

SOURCE: Texas Bond Review Board and Legislative Budget Board.

Figure C2 summarizes Ratio 1 for fiscal years 2014 through 2018. Special Debt Commitments are projected to account for more than half of the total NSS debt service for fiscal years 2014-2018. The

negative numbers indicate shortfalls in debt service capacity for the corresponding target, cap or maximum percentage. Excluding SDC for Ratio 1, NSS Annual Debt Service never exceeds the target capacity of 2 percent. Including SDC, debt service exceeds the 2 percent target and 3 percent cap beginning in 2014.

Figure C2
Impact of Special Debt Commitments on Ratio 1, Fiscal Years 2014 to 2018

| Fiscal Year | 2014 | | 2015 | | 2016 | | 2017 | | 2018 | | | | | | |
|--|------|---------------|--------|----|---------------|--------|------|---------------|--------|----|---------------|--------|----|---------------|--------|
| RATIO 1: Not Self-Supporting Debt Service as a Percentage of Unrestricted General Revenue | | | | | | | | | | | | | | | |
| NSS Debt Service | | | | | | | | | | | | | | | |
| Issued | \$ | 564,430,877 | 1.27% | \$ | 550,773,802 | 1.20% | \$ | 501,230,494 | 1.07% | \$ | 439,900,202 | 0.91% | \$ | 425,694,165 | 0.84% |
| Authorized but Unissued | | 87,394,611 | 0.20% | | 190,793,820 | 0.42% | | 288,889,682 | 0.62% | | 302,123,655 | 0.62% | | 310,013,705 | 0.61% |
| Projected | | 7,503,844 | 0.02% | | 17,846,176 | 0.04% | | 32,821,746 | 0.07% | | 52,661,424 | 0.11% | | 78,682,989 | 0.16% |
| Total NSS Debt Service | \$ | 659,329,332 | 1.49% | \$ | 759,413,798 | 1.66% | \$ | 822,941,922 | 1.75% | \$ | 794,685,281 | 1.64% | \$ | 814,390,859 | 1.61% |
| Remaining Debt-Service Capacity (Without SDC) | | | | | | | | | | | | | | | |
| Target (2%) | \$ | 228,269,789 | 0.51% | \$ | 155,985,857 | 0.34% | \$ | 115,546,419 | 0.25% | \$ | 176,228,052 | 0.36% | \$ | 196,895,748 | 0.39% |
| Cap (3%) | \$ | 672,069,350 | 1.51% | \$ | 613,685,685 | 1.34% | \$ | 584,790,590 | 1.25% | \$ | 661,684,718 | 1.36% | \$ | 702,539,052 | 1.39% |
| Max (5%) | \$ | 1,559,668,472 | 3.51% | \$ | 1,529,085,340 | 3.34% | \$ | 1,523,278,931 | 3.25% | \$ | 1,632,598,050 | 3.36% | \$ | 1,713,825,659 | 3.39% |
| Debt Service including Special Debt Commitments | | | | | | | | | | | | | | | |
| NSS Debt Service | \$ | 659,329,332 | 1.49% | \$ | 759,413,798 | 1.66% | \$ | 822,941,922 | 1.75% | \$ | 794,685,281 | 1.64% | \$ | 814,390,859 | 1.61% |
| Special Debt Commitments | | 939,450,245 | 2.12% | | 878,350,719 | 1.92% | | 886,891,299 | 1.89% | | 861,684,989 | 1.77% | | 848,630,743 | 1.68% |
| Total | \$ | 1,598,779,577 | 3.60% | \$ | 1,637,764,517 | 3.58% | \$ | 1,709,833,221 | 3.64% | \$ | 1,656,370,270 | 3.41% | \$ | 1,663,021,602 | 3.29% |
| Remaining Debt-Service Capacity (Includes SDC) | | | | | | | | | | | | | | | |
| Target (2%) | \$ | (711,180,456) | -1.60% | \$ | (722,364,862) | -1.58% | \$ | (771,344,879) | -1.64% | \$ | (685,456,938) | -1.41% | \$ | (651,734,995) | -1.29% |
| Cap (3%) | \$ | (267,380,895) | -0.60% | \$ | (264,665,035) | -0.58% | \$ | (302,100,709) | -0.64% | \$ | (200,000,272) | -0.41% | \$ | (146,091,691) | -0.29% |
| Max (5%) | \$ | 620,218,227 | 1.40% | \$ | 650,734,620 | 1.42% | \$ | 636,387,633 | 1.36% | \$ | 770,913,061 | 1.59% | \$ | 865,194,917 | 1.71% |

Appendix D - Constitutional Debt Limit

Constitutional Debt Limit

Article III, Section 49-j of the Texas Constitution prohibits the legislature from authorizing additional state debt if the annual debt service in any fiscal year on state debt payable from the General Revenue Fund exceeds 5 percent of the average of unrestricted general revenue from the preceding three fiscal years. The Texas Constitution also stipulates that state debt payable from the General Revenue Fund does not include debt that, although backed by the full faith and credit of the state, is reasonably expected to be paid from other revenue sources and is not expected to create a general revenue draw.

As of August 31, 2013 the Constitutional Debt Limit (CDL) percentage for not self-supporting (NSS) debt outstanding was 1.34 percent and 3.04 percent including both outstanding and authorized but unissued debt. These figures were 1.34 and 3.48, respectively for FY2012 and represent an increase of 0.3 percent and a decrease of 12.7 percent, respectively.

Based on the authorizations for which the approximate issuance date is known, an estimated \$4.74 billion in new, NSS debt is expected to be issued between fiscal years 2014 to 2018 for the following transactions:

- \$2.90 billion in General Obligation (GO) debt, related to Proposition 12 for transportation projects (TTC);
- \$1.32 billion in GO debt, related to Proposition 15 for cancer research (TPFA);
- \$339.3 million in GO debt for capital projects for certain state agencies (TPFA), including Proposition 4 authorization;
- \$131.3 million in GO bonds for the Higher Education Assistance Fund; and
- \$50.0 million in GO bonds for the Texas Water Development Board's (TWDB) Economically Distressed Areas Program (as of August 31, 2013, the total authority remaining is \$151.9 million, however TWDB is only able to provide projected issuances through fiscal 2015).

Factors Affecting the Constitutional Debt Limit

Five main factors impact the CDL percentage. The first is the level of outstanding NSS debt service. Assuming all other variables are held constant, the CDL varies directly with the amount of NSS debt service to be paid.

The second factor is the inverse relationship between Unrestricted General Revenue (UGR) and the CDL, i.e., as UGR increases, the CDL percentage decreases and vice-versa. Because the calculation uses the average of UGR over the previous three years, the impact of a substantial change in UGR for one year is reduced.

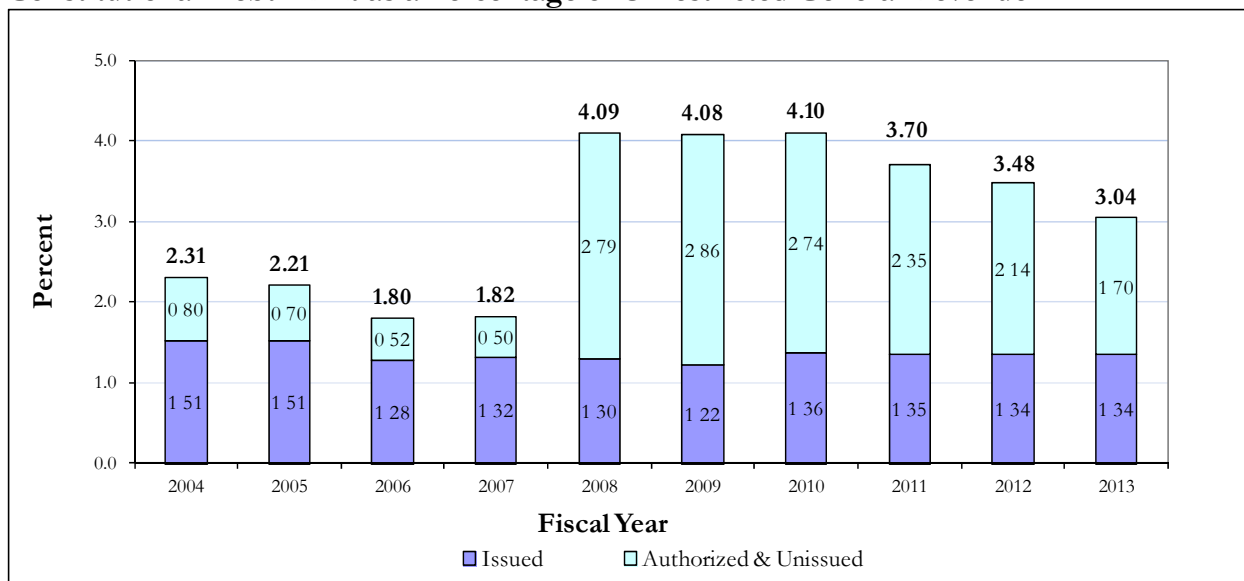
The third factor is the estimate of debt service for the authorized but unissued NSS debt. Debt-service amounts vary directly with interest rates, and a conservative rate of 5.0 percent was used for the Master Lease Purchase Program and 6.0 percent for all other authorized but unissued debt. In addition, debt service varies inversely with the debt-amortization period, and a conservative maturity of 20 years is used.

The impact of the fourth factor is determined by legislative action. The Constitution provides that debt service for NSS debt reasonably expected to be paid from other revenue sources and not expected to create a general revenue draw is excluded from the CDL calculation. Thus NSS debt is excluded from the CDL calculation if it becomes self-supporting (SS) through legislative action that provides debt-service support from an adequate revenue stream. For example, without a stated revenue stream for debt service, \$5.00 billion transportation authorization approved by the 80th Legislature and later approved by voters in the November 2007 general election is defined as NSS debt but would be reclassified to SS if legislative action provided a dedicated revenue stream for debt service.

The impact of the fifth factor is determined by a reclassification of NSS debt to SS debt. This occurred for the first time in fiscal 2010 when seven series of bonds totaling \$369.9 million comprised of \$139.6 million from the TWDB State Participation Program and \$230.1 million from the Water Infrastructure Fund were certified by the TWDB to have sufficient cash flow for debt service. In March 2013 an additional \$35.1 million of State Participation Program debt was removed for a total of \$405.0 million of TWDB debt removed from the CDL. These reclassifications reduced the CDL by approximately 7 basis points (0.07%).

Figure D1 shows the CDL percentages from FY2004-2013. For FY2013 the CDL percentage was 1.34 for issued debt and 3.04 for issued and authorized but unissued debt.

Figure D1
Constitutional Debt Limit as a Percentage of Unrestricted General Revenue



SOURCE: Texas Bond Review Board.

Calculation of the Constitutional Debt Limit

The CDL is calculated by dividing: 1) the total annual debt service for the fiscal year with the highest debt service for *issued* not self-supporting (NSS) debt, plus 2) an estimate of the projected annual debt service for one fiscal year for *authorized but unissued* NSS debt under the assumptions of an interest rate of 6.0 percent and 20-year maturity with level debt-service payments, by the average of UGR from the preceding three fiscal years. The Constitution prohibits the legislature from authorizing additional state debt if this calculation yields a percentage greater than five percent.

Calculation of the CDL requires the use of three components of state debt (see *Figures D2 through D4*):

- *Unrestricted General Revenue for the three preceding fiscal years*
- *Debt Service on Outstanding Debt*
- *Debt Service for Authorized But Unissued Debt*

Unrestricted General Revenue

UGR is the net amount of general revenue remaining after deducting all constitutional allocations and other restricted revenue from total general revenue. The UGR figure can be found in Table 11 in the *Comptroller's Annual Cash Report*. The average UGR was \$41.85 billion for fiscal years 2011, 2012 and 2013 (*Figure D2*). Thus the maximum amount available for debt service is five percent of \$41.85 billion, or \$2.09 billion.

Figure D2
Unrestricted General Revenue

| Unrestricted General Revenue (amounts in thousands) | |
|---|---------------|
| General Revenue Available After Constitutional Dedications (Year Ending 8/31/11) | \$ 38,213,158 |
| General Revenue Available After Constitutional Dedications (Year Ending 8/31/12) | 42,287,113 |
| General Revenue Available After Constitutional Dedications (Year Ending 8/31/13) | 45,045,108 |
| Average Amount of Unrestricted General Revenue Available for the three preceding Fiscal Years | \$ 41,848,460 |

Debt Service on Outstanding Debt

The Debt Service on the outstanding debt portion of the CDL calculation uses debt service for the peak year for GO and non-GO NSS debt. Due to debt service amortizations and staggered issuances, the peak year usually occurs within five years of the current year. For the August 31, 2013 CDL the peak debt service year is 2014 (*Figure D3*).

Figure D3
Not Self-Supporting Debt-Service Requirements of Texas State Debt by Fiscal Year

| (amounts in thousands) | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|--------------------|
| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 & beyond |
| Not Self-Supporting¹ | | | | | | |
| General Obligation Debt | | | | | | |
| Higher Education Constitutional Bonds ² | \$10,314 | \$7,459 | \$1,424 | \$1,415 | \$1,414 | \$3,473 |
| Texas Public Finance Authority Bonds | 250,798 | 262,919 | 227,653 | 175,607 | 168,432 | 1,279,823 |
| Park Development Bonds | 1,830 | 1,781 | 1,740 | 1,693 | 903 | 1,663 |
| Agriculture Water Conservation Bonds | - | - | - | - | - | - |
| Cancer Prevention and Research Institute of Texas | 30,760 | 30,318 | 29,876 | 29,433 | 29,020 | 342,784 |
| Water Development Bonds - EDAP ³ | 24,659 | 24,485 | 24,120 | 23,890 | 23,656 | 161,581 |
| Water Development Bonds - State Participation | - | - | - | - | - | - |
| Water Development Bonds - WIF | 53,653 | 52,762 | 51,972 | 50,949 | 49,892 | 501,596 |
| TTC GO Transportation Bonds | 123,443 | 123,443 | 123,442 | 123,441 | 123,437 | 2,725,009 |
| Total General Obligation Debt | \$495,458 | \$503,167 | \$460,227 | \$406,428 | \$396,755 | \$5,015,929 |
| Non-General Obligation Debt | | | | | | |
| Texas Public Finance Authority Bonds | 50,239 | 30,076 | 25,650 | 20,108 | 16,449 | 17,735 |
| TPFA Master Lease Purchase Program | 13,253 | 12,412 | 10,588 | 8,661 | 7,846 | 25,811 |
| Texas Military Facilities Commission Bonds | 1,974 | 1,674 | 1,377 | 1,375 | 1,377 | 7,224 |
| Parks and Wildlife Improvement Bonds | 3,507 | 3,445 | 3,388 | 3,328 | 3,268 | 3,225 |
| Total Non-General Obligation Debt | \$68,973 | \$47,607 | \$41,003 | \$33,472 | \$28,939 | \$53,996 |
| Total Not Self-Supporting | \$564,430 | \$550,774 | \$501,231 | \$439,900 | \$425,694 | \$5,069,925 |
| ¹ Bonds that are not self-supporting (general obligation and non-general obligation) depend solely on the state's general revenue for debt service. ² While not explicitly a general obligation or full faith and credit bond, the revenue pledge contained in Constitutional Bonds has the same effect. Debt service is paid from annual constitutional appropriation to qualified institutions of higher education from first monies coming into the state treasury not otherwise dedicated by the Constitution. ³ Economically Distressed Areas Program (EDAP) bonds do not depend totally on the state's general revenue fund for debt service. Source: Texas Bond Review Board - Bond Finance Office. | | | | | | |

As of August 31, 2013, debt service for issued debt will require 1.34 percent of the average of UGR for the prior three fiscal years.

Debt Service for Authorized but Unissued Debt

The CDL calculation for authorized but unissued debt is based on the cumulative debt-service for all authorized but unissued debt assuming that the debt is issued at an interest rate of 5.0 percent for the Master Lease Purchase Program and 6.0 percent for all other authorized but unissued debt. The calculation assumes a maturity of 20 years and level debt-service payments. *Figure D4* illustrates the principal amounts used for the CDL calculation for authorized but unissued debt as of August 31, 2013.

Figure D4
Authorized but Unissued Not Self-Supporting Debt

| Not Self-Supporting Program Name | General Obligation Authorization | | Total Authorized but Unissued (amounts in thousands) |
|---|---|--|--|
| | Constitutional Authorization | Statutory Authorization | |
| Agricultural Water Conservation Bonds | Article III Section 50-d | Texas Water Code, Chapter 15, Subchapters G, H, I & J | \$164,840 |
| Higher Education Constitutional Bonds (HEF) | Article VII Section 17 | No bond issuance limit, but debt service may not exceed \$131.25 | ** |
| Texas Public Finance Authority | Article III 49-h, 49-h(a), 49-h-(c)(1), 49-h-(d)(1), 49-h(e)(1), 50-f, 49-l, 50-g, 67 | | 2,954,697 |
| Transportation Commission GO Transportation Bonds | Article III Section 49-p | Transportation Code, Section 222.04 | 2,901,359 |
| Water Development Bonds - EDAP ¹ | Article III Sections 49-d-7 & 40-d-10 | Texas Water Code, Chapter 17, Subchapter K | 151,976 |
| Water Development Bonds - State Participation | Article III Sections 49-c, 49-d, 49-d-2, 49-d-6 thru 49-d-9 | Texas Water Code, Chapter 16, Subchapters E & F, Chapter 17 | 0 |
| Water Development Bonds - WIF ² | Article III Sections 49-d-8 & 49-d-9 | Texas Water Code, Chapter 15, Subchapter Q | 101,836 |
| Total General Obligation Authorized But Unissued | | | \$6,274,708 |
| Revenue Authorization | | | |
| Texas Public Finance Authority Bonds | | Texas Government Code, Sections 1232.104, 1232.110; Senate Bill 1, 81st Leg. RS, p. II-93, Rider 33 | \$120,881 |
| TPFA Master Lease Purchase Program | | Texas Government Code, Section 1232.103 | 85,033 |
| Texas Military Facilities Commission Bonds | No issuance limit has been set by the Texas Constitution. | Bonds may be issued by the agency without further authorization by the Legislature. However, bonds may not be issued without the approval of the Bond Review Board and the Attorney General. | ** |
| Total Revenue Authorized But Unissued | | | 205,914 |
| Total Not Self-Supporting | | | \$6,480,622 |

¹ Economically Distressed Areas Program (EDAP) bonds do not depend totally on the state's general revenue fund for debt service.
² WIF bonds authorized with appropriations under the 82nd Legislature will expire August 31, 2013.

Source: Texas Bond Review Board - Bond Finance Office

As of August 31, 2013, debt service for authorized but unissued debt will require 1.70 percent of the average of UGR for the prior three fiscal years.

Completing the CDL Calculation

For fiscal 2013 the CDL for both debt classifications was computed by adding the 1.34 percent computed for debt service on outstanding debt plus the 1.70 percent computed for debt service on authorized but unissued debt to obtain the total of 3.04 percent.

Calculation detail for the CDL for the fiscal year 2013

Figure D5 illustrates the calculations made for fiscal 2013.

Additional debt capacity under the CDL

At fiscal year-end 2013, BRB staff estimated that approximately \$9.40 billion in additional debt capacity was available before reaching the CDL. However, because the interest rate for authorized but unissued debt is conservatively assumed to be 6.0 percent, debt issuance actually increases debt capacity under the CDL. Staff thus expects the CDL capacity for authorized but unissued debt to increase at fiscal year-end 2014 due to the expected issuance of \$1.0 billion of Proposition 12 debt for the Texas Department of Transportation during fiscal 2014.

Figure D5
Constitutional Debt Limit Calculation

| Constitutional Debt Limit - Article III Section 49-j | | | |
|---|----------------------------|---------------------|------------------------------|
| Based on estimated Debt Outstanding as of 8/31/13 | | | |
| (All figures are thousands, except percentages) | | | |
| | Authorized Debt | Debt Service | Percentage of UGR |
| Maximum Annual Debt Service on Outstanding Debt* | | | |
| Debt Service on Bonds Payable from the General Revenue Fund | | | |
| General Obligation Bonds (Not Self-Supporting) | | \$495,458 | |
| (10 % of EDAP Considered Self-Supporting) | | (2,466) | |
| Non-General Obligation Bonds (Not Self-Supporting) | | <u>\$55,719</u> | |
| | | 548,711 | |
| Debt Service on Commercial Paper Payable from the General Revenue Fund | | | |
| TPFA MLPP Commercial Paper (\$65 0 million MLPP outstanding)*** | | 13,253 | |
| Lease-Purchase Payments Greater Than \$250,000 Payable from the General Revenue Fund | | - | |
| Total Debt Service on Outstanding Debt Payable from the General Revenue Fund | | <u>561,964</u> | 1.34% |
| Authorized but Unissued Debt | | | |
| TTC Prop 12 General Obligation Bonds (Not Self-Supporting) | 2,901,359 | \$252,954 | |
| General Obligation Bonds (Not Self-Supporting) excluding TTC Prop 12 | \$3,373,349 | | |
| (10 % of EDAP Considered Self-Supporting) | | (15,198) | |
| Non-General Obligation Bonds (Not Self-Supporting) excluding MLPP | <u>120,881</u> | | |
| Total Authorized but Unissued Bonds Payable from the General Revenue Fund | \$3,479,032 | | |
| Estimated Debt Service on Authorized but Unissued Bonds Payable from the General Revenue Fund** | | \$303,318 | |
| Estimated Debt Service on HEAF Bonds Payable from the General Revenue Fund | | 120,922 | |
| Amount of Authorized but Unissued MLPP Commercial Paper | 85,033 | | |
| Estimated Debt Service on MLPP Commercial Paper**** | | 32,596 | |
| Total Debt Service on Authorized but Unissued Debt Payable from the General Revenue Fund | | <u>\$709,790</u> | 1.70% |
| Debt Service on Outstanding and Authorized but Unissued Debt | | <u>1,271,754</u> | 3.04% |
| Unrestricted General Revenue | | | |
| General Revenue Available After Constitutional Dedications (Year Ending 8/31/11) | 38,213,158 | | |
| General Revenue Available After Constitutional Dedications (Year Ending 8/31/12) | 42,287,113 | | |
| General Revenue Available After Constitutional Dedications (Year Ending 8/31/13) | <u>45,045,108</u> | | |
| Average Amount of Unrestricted General Revenue Available for the three preceding Fiscal Years | 41,848,460 | | |
| Debt Limit Percentages | | | |
| Debt Service on Outstanding Debt as a Percentage of Unrestricted General Revenue | | | 1.34 |
| Debt Service on Authorized but Unissued Debt as a Percentage of Unrestricted General Revenue | | | 1.70 |
| Debt Service on Outstanding and Authorized but Unissued Debt as a Percentage of General Revenue After Constitutional Dedications (The Constitutional Debt Limit) | | | 3.04 |
| Notes: | | | |
| * Debt service is based on maximum annual debt service payable from general revenue The maximum amount occurs in FY 2014 | | | |
| ** Estimated debt service assumes 20 year, level debt service financing @ 6.0% | | | |
| *** Amortization provided by TPFA | | | |
| **** Interest rate provided by TPFA | | | |

Appendix E - State Debt Overview and Debt Outstanding

As the state’s debt oversight agency, the Texas Bond Review Board (BRB) approves state debt issues and lease purchases that have an initial principal amount greater than \$250,000 or a term longer than five years excluding the approval of Permanent University Fund debt, Tax and Revenue Anticipation Notes, and non-general obligation debt issuances by university systems that have an unenhanced long-term debt rating of at least AA- or its equivalent.

Texas has nineteen state agencies and institutions of higher education, as well as 4 non-profit corporations authorized to issue debt (*Figure E1*).

Figure E1
State Debt Issuers

| | |
|--|---|
| Midwestern State University | Texas State Affordable Housing Corporation |
| Office of Economic Development and Tourism | Texas State Technical College System |
| Stephen F. Austin State University | Texas State University System |
| Texas Department of Agriculture | Texas Tech University System |
| Texas Department of Housing and Community Affairs | Texas Veterans Land Board (General Land Office) |
| Texas Department of Transportation | Texas Water Development Board |
| Texas Higher Education Coordinating Board | Texas Woman’s University |
| Texas Private Activity Bond Surface Transportation Corp | The Texas A&M University System |
| Texas Grand Parkway Transportation Corp | The University of North Texas System |
| Texas Public Finance Authority | The University of Texas System |
| Texas Public Finance Authority Charter School Finance Corp | University of Houston System |
| Texas Southern University | |

SOURCE: Texas Bond Review Board.

The Texas Public Finance Authority (TPFA) is authorized to issue debt on behalf of twenty state agencies and four universities as well as for specific projects as authorized by the legislature. TPFA issues a significant portion of the state’s not self-supporting (NSS) debt payable from general revenue and administers the state’s Master Lease Purchase Program. Even though TPFA has historically been the issuer of most of the state’s NSS debt, the Texas Transportation Commission will soon become the largest issuer of such debt. For detail on state debt outstanding, see *Figure E2*.

Classifications of Debt Used by the State of Texas

General Obligation (GO) debt is legally secured by a constitutional pledge of the first monies coming into the State Treasury not constitutionally dedicated for another purpose and must be approved by a 2/3 vote of both houses of the legislature and a majority of the voters. GO debt may be issued in installments as determined by the legislatively appropriated debt service or by the issuing agency or institution and often has a 20 to 30 year maturity with level principal or level debt-service payments. The final maturity may depend on the useful life of the project to be financed. Examples include GO bonds issued by TPFA to finance correctional and mental health facilities, GO bonds issued by the Veterans Land Board to finance land and housing loans to qualified veterans and GO bonds issued by the Texas Transportation Commission for road improvements.

Revenue debt is legally secured by a specific revenue source(s), does not require voter approval and usually has a 20 to 30 year final maturity depending on the project to be financed. Examples include State Highway Fund bonds issued by the Texas Department of Transportation secured by the motor fuels tax and other revenues for construction and maintenance of the state’s highway system, and

bonds issued by institutions of higher education secured by tuition and fees used to finance projects such as classroom facilities, dormitories and other university buildings.

Self-Supporting (SS) debt is repaid from revenues other than state general revenues. SS debt can be either GO or revenue debt. Examples of SS GO debt include Veterans Land Board bonds that are repaid from loan payments made by qualified veterans and related interest earnings, and GO bonds issued by the Texas Water Development Board that are repaid with loan payments made by political subdivisions for water projects and related interest earnings. Examples of SS revenue debt include bonds issued by institutions of higher education that are repaid from tuition, fees and other revenues generated by colleges and universities.

Not Self-Supporting (NSS) debt is intended to be repaid with state general revenues. NSS debt can be either GO debt or revenue debt. NSS GO debt is included in the Constitutional Debt Limit. Examples of NSS GO debt include TPFA bonds to finance the Cancer Prevention and Research Institute of Texas. Examples of NSS revenue debt include TPFA bonds to finance parks and wildlife improvements.

Debt Instruments used by the State of Texas

Commercial Paper (CP) is a short-term debt obligation with a maturity between 1 and 270 days. A CP program can be secured by the state's GO pledge or by a specified revenue source(s). A CP program secured by the state's GO pledge must be initially approved by 2/3 vote of both houses and a majority of the voters. When CP matures it can be rolled-over (reissued) or refinanced (repaid) with long-term debt. Examples include CP issued by TPFA to finance its Master Lease Purchase Program and CP issued to finance the early stages of construction projects.

Tax and Revenue Anticipation Notes (TRAN) are issued by the Comptroller of Public Accounts - Treasury Operations to address cash flow shortfalls caused by the timing mismatch of state revenues and expenditures in the general revenue fund. TRAN issuances must be repaid by the end of the biennium in which they are issued but are usually repaid by the end of each fiscal year with tax receipts and other revenues of the general revenue fund. TRAN issuances must be approved by the Cash Management Committee that is comprised of the Governor, Lieutenant Governor, Comptroller of Public Accounts and Speaker of the House as a non-voting member.

Lease purchases finance the purchase of an asset over time through lease payments that include principal and interest. They can be financed through a private vendor or through one of the state's pool programs such as TPFA's Master Lease Purchase Program. Lease purchase financings include purchases such as automobiles, computers, data/telecommunications equipment and equipment purchased for energy savings performance contracts.

The legislature periodically authorizes Tuition Revenue Bonds (TRB) for specific institutions for specific projects or purposes. TRBs are revenue bonds issued by the institution, equally secured by and payable from the same pledge for the institution's other revenue bonds and are considered to be SS debt. However, historically the legislature has appropriated general revenue to the institution to offset all or a portion of the debt service on TRBs.

The University of Texas and Texas A&M University Systems may issue obligations backed by income of the Permanent University Fund (PUF) in accordance with the Texas Constitution, Article VII, Section 18. The state's other institutions may issue Higher Education Assistance Fund (HEAF) bonds in accordance with the Texas Constitution, Article VII, Section 17.

Refunding bonds are issued to refinance existing bonds. They may be issued to obtain lower interest rates, change bond covenants or change repayment schedules (i.e., “restructure” the bonds). A current refunding is a refunding in which the municipal securities being refunded will mature or be redeemed within 90 days or less from the date of issuance of the refunding issue. An advance refunding is a refunding in which the refunded issue remains outstanding for a period of more than 90 days after the issuance of the refunding issue. For tax-exempt bonds issued after 1986, federal tax law allows only one advance refunding but places no limit on the number of current refundings for an issue.

Debt Guidelines

The state’s Debt Guidelines for State Issuers and Policies for Interest Rate Management Agreements can be found online at www.brb.state.tx.us/bfo/bfo.aspx.

Figure E2
State Debt Outstanding, Fiscal Year 2013* (thousands)

| Debt Type | Amount |
|---|---------------------|
| General Obligation Debt | |
| Veterans' Land and Housing Bonds | \$2,381,811 |
| Water Development Bonds | 1,197,775 |
| Water Development Bonds-State Participation | 121,590 |
| Water Development Bonds - WIF | 217,765 |
| Economic Development Bank Bonds | 45,000 |
| College Student Loan Bonds | 751,925 |
| Texas Agricultural Finance Authority | 9,000 |
| Texas Mobility Fund Bonds | 5,957,720 |
| Texas Public Finance Authority - TMVRLF | 47,400 |
| Total - Self-Supporting | \$10,729,986 |
| Higher Education Constitutional Bonds | \$22,962 |
| Texas Public Finance Authority Bonds | 1,652,310 |
| Cancer Prevention and Research Institute of Texas | 343,450 |
| Park Development Bonds | 8,480 |
| Water Development Bonds - EDAP | 211,220 |
| Water Development Bonds - State Participation | 0 |
| Water Development Bonds - WIF | 526,290 |
| TTC GO Transportation Bonds | 1,854,835 |
| Total - Not Self-Supporting | \$4,619,547 |
| Total - General Obligation Debt | \$15,349,533 |
| Non-General Obligation Debt | |
| Permanent University Fund Bonds | |
| The Texas A&M University System | \$707,905 |
| The University of Texas System | 1,816,750 |
| College and University Revenue Bonds | 10,532,448 |
| Texas Water Resources Finance Authority Bonds | 0 |
| Texas Department of Transportation Bonds - CTTS | 2,484,540 |
| Texas Department of Housing & Community Affairs - SF | 898,980 |
| Economic Development Program (Leverage Fund) | 25,000 |
| Veterans' Financial Assistance Bonds | 0 |
| Texas Workforce Commission Unemp Comp Bonds | 1,201,255 |
| State Highway Fund | 3,843,780 |
| Water Development Board Bonds - State Revolving Fund | 810,438 |
| Total - Self-Supporting | \$22,321,096 |
| Texas Public Finance Authority Bonds | \$130,422 |
| TPFA Master Lease Purchase Program | 64,967 |
| Texas Military Facilities Commission Bonds | 12,045 |
| Parks and Wildlife Improvement Bonds | 17,480 |
| Total - Not Self-Supporting | \$224,914 |
| Texas Windstorm Insurance Association | \$0 |
| Texas Small Business I.D.C. Bonds | 1,620 |
| Texas Dept. of Housing and Community Affairs Bonds - MF | 1,012,352 |
| Texas State Affordable Housing Corporation | 437,162 |
| Texas Grand Parkway Transportation Corporation | 2,920,075 |
| Texas PAB Surface Transportation Corporation | 1,015,000 |
| TPFA Charter School Finance Corporation | 256,395 |
| Total - Conduit | \$5,642,604 |
| Total - Non-General Obligation Debt | \$28,188,614 |
| Total - Debt Outstanding | \$43,538,147 |

*Does not include the TRAN or SECO LoanSTAR Revolving Loan Program debt
Source: Texas Bond Review Board.

Appendix F – Texas Debt Compared to Other States

The use of debt affordability studies and debt capacity models is becoming more common, particularly by states with “highest” or “high” credit ratings. Of the nine states that receive triple-A ratings from all three rating agencies, six – Alaska, Georgia, Maryland, North Carolina, Texas and Virginia – use a debt affordability tool. In addition, other highly-rated states including Florida, South Carolina, Vermont, Washington and Oregon as well as lower-rated states such as California, Kentucky, New York, and West Virginia use a debt affordability tool. *Figure F1* provides a comparison of highly-rated states that use debt affordability tools vs. highly-rated states that do not.

Figure F1
Comparison of Highly-Rated States and Debt Affordability Usage as of September 2013

| State | Debt Affordability Study? | Moody's | Standard & Poor's | Fitch |
|----------------|---------------------------|---------|-------------------|-----------|
| Alaska | Yes | Aaa | AAA | AAA |
| Delaware | No | Aaa | AAA | AAA |
| Georgia | Yes | Aaa | AAA | AAA |
| Maryland | Yes | Aaa | AAA | AAA |
| Missouri | No | Aaa | AAA | AAA |
| North Carolina | Yes | Aaa | AAA | AAA |
| Texas | Yes | Aaa | AAA | AAA |
| Utah | No | Aaa | AAA | AAA |
| Virginia | Yes | Aaa | AAA | AAA |
| Florida | Yes | Aa1 | AAA | AAA |
| New Mexico | No | Aaa | AA+ | Not Rated |
| South Carolina | Yes | Aaa | AA+ | AAA |
| Tennessee | No | Aaa | AA+ | AAA |
| Vermont | Yes | Aaa | AA+ | AAA |

SOURCE: Moody's, Standard & Poor's and Fitch 2013 reports.

Factors Affecting State Debt Ratings

Moody's *2013 State Debt Medians* report provides a helpful framework to compare Texas' debt burden with other states. This report annually tracks four key debt measures: 1) net tax-supported debt, 2) gross tax-supported debt, 3) net tax-supported debt per capita and 4) net tax-supported debt as a percentage of personal income. The gross tax-supported debt metric is intended to capture the extent to which a state has made a general obligation pledge of its resources as well as debt that may not have direct tax support but represents commitments to make debt-service payments under certain conditions. Net tax-supported debt refers only to debt issued for which the state has made a general obligation pledge. Moody's cites gross and net tax-supported debt as the most commonly used measurements in determining state bond ratings. (The numbers listed throughout this section for Texas are slightly different from the calculations in the DCM due to timing and classification differences for data available to Moody's at the time its report was created.)

Texas' Debt Compared to Other States

Based on U. S. Census Bureau data for the nation's 10 most populous states, Texas' state debt remains below the mean and median for all four debt measures computed in Figure F2 (Net Tax-Supported Debt, Gross Tax-Supported Debt, Net Tax-Supported Debt per Capita and Net Tax-Supported Debt as a percentage of 2011 Personal Income). Texas ranks sixth for Net Tax-Supported Debt with \$15.11 billion, compared to the group median of \$15.27 billion. Texas ranks sixth for Gross Tax-Supported Debt with \$20.90 billion, compared to the group median of \$23.19 billion. Texas ranks tenth in Net Tax-Supported Debt per Capita with \$580 compared to the group median of \$1,074. For Net Tax-Supported Debt as a percentage of 2011 Personal Income, Texas ranks tenth with 1.5 percent compared to the group median of 2.8 percent (Please note that in *Figure F2* and *Figure F4* debt burdens are ranked on a scale of 1 to 10, with 1 being the highest debt burden. For *Figure F3*, 1 indicates the highest debt burden while 50 represents the lowest).

Figure F2
State Debt: Texas Compared to Ten Most Populous States, 2013

| State | Population | Moody's Credit Rating | Net Tax-Supported Debt (billions) | | Gross Tax-Supported Debt (billions) | | Net Tax-Supported Debt per Capita | | Net Tax-Supported Debt as a % of 2011 Personal Income | |
|--------------------------|-------------------|-----------------------|-----------------------------------|----------|-------------------------------------|----------|-----------------------------------|-----------|---|-----------|
| California | 38,332,521 | A1 | \$97.59 | 1 | \$103.42 | 1 | \$2,565 | 2 | 5.8% | 2 |
| Texas | 26,448,193 | Aaa | 15.11 | 6 | 20.90 | 6 | 580 | 10 | 1.5% | 10 |
| New York | 19,651,127 | Aa2 | 62.12 | 2 | 62.22 | 2 | 3,174 | 1 | 6.3% | 1 |
| Florida | 19,552,860 | Aa1 | 20.99 | 4 | 32.01 | 4 | 1,087 | 5 | 2.8% | 5 |
| Illinois | 12,882,135 | A2 | 32.53 | 3 | 35.62 | 3 | 2,526 | 3 | 5.7% | 3 |
| Pennsylvania | 12,773,801 | Aa2 | 15.42 | 5 | 20.18 | 7 | 1,208 | 4 | 2.8% | 7 |
| Ohio | 11,570,808 | Aa1 | 12.09 | 7 | 17.43 | 8 | 1,047 | 7 | 2.8% | 6 |
| Georgia | 9,992,167 | Aaa | 10.52 | 8 | 10.52 | 9 | 1,061 | 6 | 3.0% | 4 |
| Michigan | 9,895,622 | Aa2 | 7.91 | 10 | 25.47 | 5 | 800 | 9 | 2.2% | 9 |
| North Carolina | 9,848,060 | Aaa | 8.32 | 9 | 8.32 | 10 | 853 | 8 | 2.4% | 8 |
| Ten Most Populous Mean | | | \$28.26 | | \$33.61 | | \$1,490 | | 3.5% | |
| Ten Most Populous Median | | | \$15.27 | | \$23.19 | | \$1,074 | | 2.8% | |
| | | | | | National Mean | | \$1,416 | | 3.4% | |
| | | | | | National Median | | \$1,074 | | 2.8% | |

SOURCE: Moody's 2013 State Debt Medians Report; U.S. Census Bureau – July 1, 2013 data.

Figure F3 provides selected tax-supported debt measures for all fifty states. Texas' Net Tax-Supported Debt as a percentage of 2011 Personal Income was 1.5 percent, 40th among the states and below the national mean and median of 3.4 percent and 2.8 percent, respectively. Texas' Net Tax-Supported Debt per Capita was \$580, 39th among the states and below the national mean of \$1,416 and median of \$1,074.

Figure F3
Selected Debt Measures by State

| State | Moody's Rating | Net Tax-Supported | | Net Tax-Supported | |
|---|----------------|-------------------------------------|-----------|-------------------|-----------|
| | | Debt as a % of 2011 Personal Income | Rank | Debt Per Capita | Rank |
| Hawaii | Aa2 | 10.0% | 1 | \$4,246 | 3 |
| Massachusetts | Aa1 | 9.3% | 2 | 4,968 | 2 |
| Connecticut | Aa3 | 9.1% | 3 | 5,185 | 1 |
| New Jersey | Aa3 | 7.6% | 4 | 4,023 | 4 |
| Washington | Aa1 | 6.4% | 5 | 2,817 | 6 |
| New York | Aa2 | 6.3% | 6 | 3,174 | 5 |
| Delaware | Aaa | 6.2% | 7 | 2,536 | 8 |
| Kentucky | Aa2* | 5.9% | 8 | 1,998 | 11 |
| California | A1 | 5.8% | 9 | 2,565 | 7 |
| Illinois | A2 | 5.7% | 10 | 2,526 | 9 |
| Mississippi | Aa2 | 5.4% | 11 | 1,735 | 15 |
| Oregon | Aa1 | 5.2% | 12 | 1,945 | 12 |
| Rhode Island | Aa2 | 4.7% | 13 | 2,085 | 10 |
| Wisconsin | Aa2 | 4.7% | 14 | 1,874 | 13 |
| Utah | Aaa | 3.8% | 15 | 1,275 | 20 |
| New Mexico | Aaa | 3.8% | 16 | 1,316 | 17 |
| Louisiana | Aa2 | 3.7% | 17 | 1,411 | 16 |
| Maryland | Aaa | 3.6% | 18 | 1,799 | 14 |
| West Virginia | Aa1 | 3.3% | 19 | 1,118 | 23 |
| Georgia | Aaa | 3.0% | 20 | 1,061 | 26 |
| Minnesota | Aa1 | 3.0% | 21 | 1,315 | 18 |
| Virginia | Aaa | 2.9% | 22 | 1,315 | 19 |
| Pennsylvania | Aa2 | 2.8% | 23 | 1,208 | 22 |
| Florida | Aa1 | 2.8% | 24 | 1,087 | 25 |
| Alaska | Aaa | 2.8% | 25 | 1,251 | 21 |
| Ohio | Aa1 | 2.8% | 26 | 1,047 | 27 |
| Kansas | Aa1* | 2.8% | 27 | 1,112 | 24 |
| Arizona | Aa3 | 2.5% | 28 | 902 | 28 |
| Alabama | Aa1 | 2.5% | 29 | 867 | 29 |
| North Carolina | Aaa | 2.4% | 30 | 853 | 31 |
| South Carolina | Aaa | 2.3% | 31 | 780 | 35 |
| Michigan | Aa2 | 2.2% | 32 | 800 | 34 |
| Maine | Aa2 | 2.1% | 33 | 814 | 32 |
| Nevada | Aa2 | 1.9% | 34 | 730 | 36 |
| Vermont | Aaa | 1.9% | 35 | 811 | 33 |
| New Hampshire | Aa1 | 1.9% | 36 | 862 | 30 |
| Missouri | Aaa | 1.8% | 37 | 699 | 37 |
| Oklahoma | Aa2 | 1.6% | 38 | 604 | 38 |
| Idaho | Aa1 | 1.6% | 39 | 515 | 41 |
| Texas | Aaa | 1.5% | 40 | 580 | 39 |
| Colorado | Aa1* | 1.2% | 41 | 525 | 40 |
| Indiana | Aaa* | 1.2% | 42 | 424 | 42 |
| Arkansas | Aa1 | 1.2% | 43 | 404 | 43 |
| Tennessee | Aaa | 0.9% | 44 | 343 | 45 |
| South Dakota | NGO** | 0.9% | 45 | 355 | 44 |
| Montana | Aa1 | 0.9% | 46 | 311 | 46 |
| Iowa | Aaa* | 0.7% | 47 | 287 | 48 |
| North Dakota | Aa1* | 0.7% | 48 | 292 | 47 |
| Wyoming | NGO** | 0.1% | 49 | 59 | 49 |
| Nebraska | NGO** | 0.0% | 50 | 14 | 50 |
| Mean | | 3.4% | | \$1,416 | |
| Median | | 2.8% | | \$1,074 | |
| Puerto Rico*** | Baa3 | 88.9% | | \$14,053 | |
| * Issuer Rating (No G.O. Debt) | | | | | |
| ** No general obligation debt | | | | | |
| *** Included for comparison purposes only. Not included in any totals, averages or median calculations. | | | | | |
| Source: Moody's Investors Service, 2013 State Debt Medians. | | | | | |

It is important to note that states with higher state debt levels may have lower local debt levels and vice-versa. During calendar year 2011 (most recent data available compared to other states) local debt accounted for approximately 85.1 percent of Texas' total debt burden. (Local debt includes debt issued by cities, school districts, water districts, counties, community colleges, special districts and health and hospital districts) Among the nation's ten most populous states, Texas ranks second in population, ninth in state debt per capita but second in local debt per capita with an overall rank of fourth for total state and local debt per capita (*Figure F4*).

Figure F4
Total State and Local Debt Outstanding

| State | Total State and Local Debt | | | | State Debt | | | | Local Debt | | | |
|----------------|----------------------------|-------------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|
| | Population (thousands) | Amount (millions) | Per Capita Amount | Per Capita Rank | Amount (millions) | % of Total Debt | Per Capita Amount | Per Capita Rank | Amount (millions) | % of Total Debt | Per Capita Amount | Per Capita Rank |
| New York | 19,570 | \$334,622 | \$17,099 | 1 | \$134,929 | 40.3% | \$6,895 | 1 | \$199,693 | 59.7% | \$10,204 | 1 |
| Illinois | 12,875 | 145,485 | 11,300 | 2 | 64,801 | 44.5% | 5,033 | 2 | 80,684 | 55.5% | 6,267 | 4 |
| California | 38,041 | 418,833 | 11,010 | 3 | 149,671 | 35.7% | 3,934 | 3 | 269,162 | 64.3% | 7,076 | 3 |
| Texas | 26,059 | 258,240 | 9,910 | 4 | 38,530 | 14.9% | 1,479 | 9 | 219,710 | 85.1% | 8,431 | 2 |
| Pennsylvania | 12,764 | 123,483 | 9,674 | 5 | 45,267 | 36.7% | 3,546 | 4 | 78,216 | 63.3% | 6,128 | 5 |
| Florida | 19,318 | 151,904 | 7,863 | 6 | 43,472 | 28.6% | 2,250 | 7 | 108,432 | 71.4% | 5,613 | 6 |
| Michigan | 9,884 | 73,842 | 7,471 | 7 | 30,975 | 41.9% | 3,134 | 5 | 42,867 | 58.1% | 4,337 | 7 |
| Ohio | 11,544 | 77,533 | 6,716 | 8 | 30,974 | 39.9% | 2,683 | 6 | 46,559 | 60.1% | 4,033 | 9 |
| Georgia | 9,920 | 54,368 | 5,481 | 9 | 13,403 | 24.7% | 1,351 | 10 | 40,965 | 75.3% | 4,130 | 8 |
| North Carolina | 9,752 | 51,187 | 5,249 | 10 | 18,556 | 36.3% | 1,903 | 8 | 32,631 | 63.7% | 3,346 | 10 |
| MEAN | | \$168,950 | \$9,177 | | \$57,058 | 34.4% | \$3,221 | | \$111,892 | 65.6% | \$5,956 | |

Note: Detail may not add to total due to rounding.
Source: U.S. Census Bureau, *State and Local Government Finances by Level of Government and by State: 2010-2011*, the most recent data available.

Appendix G – Investment Grade Credit Ratings

Rating Agencies

The three major credit rating agencies for state debt are Moody’s Investors Service (Moody’s), Standard & Poor’s (S&P) and Fitch Ratings (Fitch). Their ratings have a significant impact on interest rates for a given issue and thus the cost of the financing. *Figure G1* provides a summary of the investment grade ratings scale by each agency.

Figure G1
Investment Grade Bond Ratings by Rating Agency

| Rating | Moody’s | S & P | Fitch |
|--------------|---------|-------|-------|
| Highest | Aaa | AAA | AAA |
| High | Aa1 | AA+ | AA+ |
| | Aa2 | AA | AA |
| | Aa3 | AA- | AA- |
| Medium | A1 | A+ | A+ |
| | A2 | A | A |
| | A3 | A- | A- |
| Lower medium | Baa1 | BBB+ | BBB+ |
| | Baa2 | BBB | BBB |
| | Baa3 | BBB- | BBB- |

SOURCE: Moody’s; S&P and Fitch.

Ratings from these agencies provide investors with a measure of an issuer’s overall financial soundness and ability to repay its debt. They have a direct impact on the interest rate state issuers will pay on debt issuances; higher credit ratings result in lower financing costs. Ratings for the state’s general obligation (GO) debt are the most important because the state’s full faith and credit is pledged to its repayment. GO ratings provide a benchmark rate for the state’s revenue debt.

Rating agencies consider four factors in determining a state’s GO bond rating: economy, finances, debt and management. Specific items considered are shown in *Figure G2*.

Figure G2
Factors Affecting State General Obligation Bond Ratings

| Economy | Finances |
|---|---|
| Population trends | Change in major general revenue sources |
| Wealth | Change in permanent or FTE positions |
| Economic diversity | Spending per capita |
| Economic stability | General fund balances, rainy day fund balance |
| Infrastructure needs | Accounting and financial reporting practices |
| | Tax and revenue administration |
| | Investment practices |
| Debt | Management |
| Pay-down price for net long-term debt | Coherent structure of governance |
| Net debt per capita | Constitutional constraints |
| Net debt as a percent of personal income | Initiatives and referenda |
| Net debt as a percent of tax valuation | Executive branch controls |
| Annual debt service on net debt as a percentage of general fund | Mandates to balance budget |
| | Fund reserve policies |

Source: Texas Bond Review Board.

Ratings for Texas General Obligation Debt

Texas GO debt receives the highest available credit rating from Moody’s, Fitch, and S&P and is perceived as a strong credit in the municipal bond market.

S&P’s latest action on Texas’ GO rating was an upgrade from AA+ to AAA in September 2013. S&P’s outlook for the state’s rating remains stable. In its September 2013 report, “State Review: Texas,” S&P stated that “Texas’ economic performance continues to outperform the nation. Although the state was not exempt from the effects of the Great Recession, it has recovered faster and stronger than most other states, particularly faster than those with similar population levels. Through August 2013, Texas had exceeded its pre-recession peak employment by 596,900 jobs, approximately 5.6% higher. By contrast, the nation as a whole has recovered only approximately 78% of the nearly 9 million jobs lost during the recession. Other indicators, such as per capita personal income growth and per capita GDP, also continue to perform better than the nation. While the strength of the state’s energy sector continues to be an important driver of overall economic performance, other sectors such as high tech, manufacturing, and exports have an increasing presence in the state’s economic landscape.”

Moody’s latest action on Texas’ GO rating was to affirm its AAA rating and stable outlook on September 25, 2013. In its report dated September 25, 2013 entitled “Rating Action: Moody’s Assigns Aaa Rating to \$113.5 Million of Texas General Obligation Bonds Issued Through Texas Higher Education Coordinating Board,” Moody’s stated that “The Aaa rating reflects the strong fundamentals of the Texas economy and the expectation that it will continue to perform more strongly than the nation; a notable large rainy day fund even after the state has used a portion of it to help balance the current biennium but that still provides a healthy budgetary cushion; and low debt levels. Those strengths are offset by a relatively low GAAP-basis available fund balance and ongoing

structural pressure to balance the state’s finances as it seeks to maintain education and property tax relief amid high population growth.”

Fitch’s latest action on Texas’ GO rating was to affirm its AAA rating and stable outlook in June 27, 2013. In its report of that date entitled “Fitch Rates Texas Water Development Board’s \$105 Million State GOs AAA,” Fitch stated that “The state’s long-term ‘AAA’ GO rating reflects its low debt burden, conservative financial operations and a growth-oriented economy that continues to outpace national averages. Financial pressures arise from the demand that rapid growth places on that state’s consumption-based tax system, including longer term transportation needs and the state’s commitment to education.”

The state’s GO bond ratings history is shown in *Figure G3*.

Figure G3
Changes in Texas’ GO Bond Ratings from years 1961 to 2013

| <u>Year</u> | <u>Moody's</u> | <u>Standard & Poor's</u> | <u>Fitch</u> |
|------------------|----------------|------------------------------|--------------|
| 1961 (Initial) | * | AAA | * |
| 1962-1985 | Aaa | AAA | * |
| 1986 | Aaa | AA+ | * |
| 1987-1992 | Aa | AA | * |
| 1993-1996 | Aa | AA | AA+ |
| 1997-1998 | Aa2** | AA | AA+ |
| 1999-2008 | Aa1 | AA | AA+ |
| 2009 | Aa1 | AA+ | AA+ |
| 2010-2012 | Aaa** | AA+ | AAA** |
| 2013 | Aaa | AAA | AAA |
| * Not Rated | | | |
| ** Recalibration | | | |

Source: Texas Bond Review Board

Appendix H - Glossary

Advance Refunding – A refunding transaction in which the issue to be refunded remains outstanding for a period of more than 90 days after the issuance of the refunding issue.

Authorized but unissued – Debt that has been authorized for a specific purpose by the voters and/or the legislature but has not yet been issued. Authorized but unissued debt can be issued without the need for further legislative action.

Average Daily Attendance (ADA) – The total number of students in attendance each day of the entire school year divided by the number of instructional days in the school year.

Bond – A certificate of debt issued by a government or corporation guaranteeing payment of the original investment plus interest by a specific future date. The bond specifies the date the debt is due (“term” or “maturity,” i.e. 20 years), the interest rate (i.e. 5%), the repayment dates (i.e. monthly, semi-annually, annually) and the revenue source pledged to make the payments.

Budgeted General Revenue – The amount of revenue budgeted by the legislature to be expended during each fiscal year for state operations. This figure is generally less than unrestricted general revenue available for debt service.

Commercial Paper (CP) – Short-term, unsecured promissory notes that mature within 270 days and are backed by a liquidity provider (usually a bank) that stands by to provide liquidity in the event the notes are not remarketed or redeemed at maturity.

Constitutional Debt Limit (CDL) – Article III, Section 49-j of the Texas Constitution prohibits the legislature from authorizing additional state debt if the annual debt service in any fiscal year on state debt payable from the General Revenue Fund exceeds 5 percent of the average of unrestricted general revenue from the preceding three fiscal years. The Texas Constitution also stipulates that state debt payable from the General Revenue Fund does not include debt that, although backed by the full faith and credit of the state, is reasonably expected to be paid from other revenue sources and is not expected to create a general revenue draw.

Current Refunding – A refunding transaction in which the securities to be refunded will mature or be redeemed within 90 days or less from the date of issuance of the refunding issue.

Debt Capacity Model (DCM) – A financial model that assesses the impact on unrestricted general revenue of the state’s annual debt-service requirements for current and projected levels of not self-supporting debt over the next five years.

General Obligation (GO) Debt – Debt that is legally secured by a constitutional pledge of the first monies coming into the state treasury that are not constitutionally dedicated for another purpose. GO debt must be passed by a 2/3 vote of both houses of the legislature and a majority of the voters.

General Revenue (GR) – The amount of total state tax collections and federal monies distributed to the state for its operations.

Higher Education Fund (HEF) – Appropriations that became available beginning in 1985 through Constitutional Amendment to fund permanent capital improvements for certain public higher education institutions. This term may refer either to Higher Education Assistance Fund (HEAF) Treasury Funds (funds reimbursed from the State HEAF appropriation for university expenditures) or HEAF Bond Funds (monies received through the issuance of bonds and secured by HEAF Treasury Funds).

Instructional Facilities Allotment (IFA) – A program authorized in House Bill 1 by the 75th Legislature (1997) and incorporated into the Texas Education Code as Chapter 46. The IFA program became effective on September 1, 1997 and provides assistance to school districts in making debt-service payments on qualifying bonds and lease-purchase agreements. Districts must make application to the Texas Education Agency (TEA) to receive assistance. Bond or lease-purchase proceeds must be used for the construction or renovation of an instructional facility. A maximum allotment is determined based upon the lesser of annual debt-service payments or \$250 per student in average daily attendance (ADA).

Existing Debt Allotment (EDA) – A program created in 1999 by the 76th Legislature that added Subchapter B to Chapter 46 of the Texas Education Code. The EDA is similar to the IFA program in that it provides tax-rate equalization for local debt-service taxes. Equalization is provided for local levies of up to \$0.29 for eligible debt service. Excluding debt service that is supported through the IFA program, scheduled debt service for school district bonds for which a payment has been made during a prior biennium is generally eligible under the EDA program. Currently, the guaranteed yield for EDA provides \$35 per student in average daily attendance (ADA) per penny of tax effort.

Lease Purchase – The purchase of an asset over time through lease payments that include principal and interest. Lease purchases can be financed through a private vendor or through one of the state's pool programs such as the Texas Public Finance Authority's Master Lease Purchase Program.

Municipal Bond – A debt security issued by a state, municipality or county. Municipal securities are generally exempt from federal taxes and from most state and local taxes.

Non-General Obligation (Revenue) Debt – Debt legally secured by a specific revenue source and does not require voter approval.

Not Self-Supporting (NSS) Debt – Debt that is intended to be repaid with state general revenue and can be either GO debt or revenue debt.

Permanent University Fund (PUF) – The PUF is a state endowment contributing to the support of 21 institutions and certain agencies of The University of Texas System and The Texas A&M University System. The PUF was established by the Texas Constitution in 1876 with land grants ultimately totaling 2.1 million acres, primarily in west Texas (PUF Lands).

Refunding Bond – Bond issued to retire or defease all or a portion of outstanding debt.

Self-Supporting (SS) Debt – Debt that is designed to be repaid with revenues other than state general revenue and can be either GO debt or revenue debt.

Special Debt Commitments – Revenue debt commitments supported by state general revenues but not legally backed by the state’s GO pledge: Tuition Revenue Bonds, Existing Debt Allotment and Instructional Facilities Allotment.

Tax and Revenue Anticipation Notes (TRAN) – Short-term loans used to address a mismatch between state revenues and expenditures.

Tuition Revenue Bonds (TRB) – Revenue bonds issued by the revenue finance systems of institutions of higher education or the Texas Public Finance Authority (on behalf of certain institutions), for new building construction or renovation. The Legislature has to authorize the projects in statute, and the TRBs cannot be used for auxiliary space, such as dormitories. All college and university revenue bonds are equally secured by, and payable from a pledge of all or a portion of certain “revenue funds” as defined in the Texas Education Code, Chapter 55. Though legally secured through an institution’s tuition and fee revenue, historically the state has used general revenue to reimburse the universities for debt service for these bonds.

Unrestricted General Revenue (UGR) – The net amount of general revenue remaining after deducting all constitutional allocations and other restricted revenue from total general revenue.

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