

Commonwealth of Virginia



Debt Capacity Advisory Committee

REVISED

Report to the Governor and General Assembly

February 25, 2008



COMMONWEALTH of VIRGINIA

Office of the Governor

Jody M. Wagner
Secretary of Finance

P. O. Box 1475
Richmond, Virginia 23218

February 25, 2008

The Honorable Timothy M. Kaine
Governor of Virginia
Patrick Henry Building, 3rd Floor
Richmond, Virginia 23219

The Honorable Bruce F. Jamerson
Clerk of the House of Delegates
Virginia House of Delegates
State Capitol, Room 303
Richmond, Virginia 23219

The Honorable Susan Clarke Schaar
Clerk of the Senate
Senate of Virginia
State Capitol, 3rd Floor
Richmond, Virginia 23219

Dear Governor Kaine, Mr. Jamerson, and Ms. Schaar:

On December 17, 2007, the Debt Capacity Advisory Committee (the "Committee") submitted to you our estimate of the maximum amount of new tax-supported debt that prudently may be authorized for the next two years. The Committee reconvened on February 25, 2008 to re-evaluate the Debt Capacity Model (the "Model") in light of the February 11, 2008 revised revenue forecast. Other assumptions used in the December 17, 2007 report (e.g., interest rates, issuance of authorized and unissued debt, etc. remain unchanged. We are pleased to present this revised report.

The Debt Capacity Model

The Model calculates the maximum amount of incremental debt that may prudently be issued by the Commonwealth over the next ten years and features an additional two years of debt issuance capacity as a reserve beyond the end of the ten-year issuance period. The reserve is used as a hedge against variations in other assumptions used in the Model, such as interest rates and revenue growth. The Model uses as a base assumption that tax-supported debt service should be no greater than five percent of revenues. In our view, five percent is consistent with maintaining the Commonwealth's premier credit ratings. The Debt Capacity Model is attached as Exhibit A.

The Honorable Timothy M. Kaine
The Honorable Bruce F. Jamerson
The Honorable Susan Clarke Schaar
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Recommendation

The Committee believes that based upon the Debt Capacity Model and the Governor's Revised Official Revenue Forecast of February 11, 2008:

- A maximum of \$795.74 million of tax-supported debt could prudently be authorized by the 2008 Session of the General Assembly; and
- A maximum of \$795.74 million of tax-supported debt could prudently be authorized by the 2009 Session of the General Assembly.

This authorization is above and beyond the tax-supported debt that is currently authorized but unissued. The recommendation does not include any pending debt authorization currently before the 2008 General Assembly.

Although the Committee's statutory requirement is to recommend the amount of debt that prudently may be authorized for the biennium, we have noted the period of time between the authorization of capital projects and permanent financing can span several years. When factoring authorized and unissued debt into the Model's assumptions, issuance expectations are considered. Similarly, when evaluating debt proposals that involve issuance over multiple years, issuance expectations may lessen the immediate impact on debt capacity.

The Committee makes no recommendation as to the actual amount of debt to be authorized by the General Assembly and approved by the Governor, or which projects, if any, should be chosen for debt financing. These decisions are most appropriately made through the budgetary and legislative processes. Please see charts in Exhibits C-8 through C-11 for information on the Commonwealth's outstanding debt.

Sensitivity

The Committee recognizes that it cannot predict the future level of interest rates or the pace of revenue growth and recognizes the sensitivity of the Model results to such factors. For example, a one percent change in general fund revenues in each and every year of the Model solution horizon will change the amount of annual debt capacity by approximately \$14.26 million. A change in general fund revenues of \$100 million in each and every year of the Model solution horizon will produce approximately \$6.89 million of incremental annual debt capacity change. Attached as Exhibit B are sensitivity analyses that demonstrate the impact on the Model of changes in external factors such as interest rates and revenues, or internal factors such as excess capacity.

The Honorable Timothy M. Kaine
The Honorable Bruce F. Jamerson
The Honorable Susan Clarke Schaar
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Conclusion

We trust this report and our recommendations are useful as we move forward to conclude the 2008 Session of the General Assembly. It has been our pleasure to advise you on including the concepts of debt affordability and debt capacity management into the Commonwealth's debt management programs. The Commonwealth of Virginia has become an acknowledged leader among states in the area of debt capacity management, and is repeatedly held out as an example of how the process should work.

Sincerely,

/s/ Jody M. Wagner, Chairman
Jody M. Wagner, Chairman

/s/ Walter W. Craigie
Walter W. Craigie

/s/ William K. Butler, II
William K. Butler, II

/s/ J. Braxton Powell
J. Braxton Powell

/s/ Philip A. Leone
Philip A. Leone

/s/ Walter J. Kucharski
Walter J. Kucharski

/s/ Richard D. Brown
Richard D. Brown

Attachments

Exhibit A

The Debt Capacity Model

Commonwealth Debt

- Rating agencies view control of tax-supported debt as one of four key factors affecting credit quality.
 - control of debt burden
 - economic vitality and diversity
 - fiscal performance and flexibility
 - administrative capabilities of government
- Virginia’s goal is to maintain AAA/Aaa/AAA ratings for General Obligation debt.
 - Commonwealth’s “AAA” rating reaffirmed by Fitch Ratings, Moody’s and Standard & Poor’s (November 2007)
- Definition of tax-supported debt.
 - debt service payments made or ultimately pledged to be made from general government funds
 - corresponds with rating agency definition
 - contrast with debt not supported by taxes such as moral obligation debt

Debt Capacity Model

General Observations and Assumptions

- Virginia's Debt Affordability Model:
 - Debt Affordability Measure
 - $$\frac{\text{Tax-Supported Debt Service}}{\text{Revenues}} \leq 5\%$$
 - 10-year issuance period
 - Incorporates currently authorized but unissued debt
 - Blended revenue growth rate
 - Term and structure:
 - 20-year bonds
 - Assumed interest rate of 4.34% for 9(b) and 9(c) General Obligation debt. 9(d) debt has an assumed interest rate of 4.84%.
 - Level debt service (except 9(b) debt)
 - 9(b) General Obligation debt is amortized on a level principal basis
 - Actual debt service of all issued tax-supported debt, including capital leases, installment purchases and regional jail reimbursement agreements (see page A-3 for liability inclusion criteria).
 - Blended Revenues:
 - General fund revenues and state revenues in Transportation Trust Fund, including transfers of ABC and Lottery profits. For purposes of the Model, 9(c) revenues and debt service of self-supporting projects are offset and have a neutral impact on debt capacity.
 - Interest Rates:
 - Assumed issuance of authorized but unissued tax-supported debt and associated debt service, computed using estimated interest rates based on the average of the last eight quarters of The Bond Buyer 11 Bond Index for general obligation debt 9(b) and 9(c), and a 50 basis point higher rate for 9(d) debt.

Debt Capacity Model

General Observations and Assumptions

Debt Capacity Advisory Committee

Liabilities included in the Debt Capacity Model

- 1) Outstanding tax-supported debt as determined by the DCAC.
 - General obligation bonds (Section 9(a), 9(b), and 9(c)).
 - Obligations issued by the Commonwealth Transportation Board or Virginia Port Authority that are secured, in whole or in part, by the Transportation Trust Fund.
 - Obligations issued by the Virginia Public Building Authority and the Virginia College Building Authority secured, in whole or in part, by general fund appropriations.
 - Obligations payable under regional jail Reimbursement Agreements between the Treasury Board and localities, regional jail authorities or other combination of localities.
 - Capital leases (80% of total of first year amounts in Commonwealth CAFR for both primary government and component units).
 - Installment purchases (80% of total of first year amounts in Commonwealth CAFR for both primary government and component units).
 - Obligations for which the debt service is paid from payments received from the Commonwealth on a capital lease.
- 2) Authorized but unissued tax-supported debt as determined by the DCAC.
 - The issuance of obligations to fund a project(s) must be authorized by an Act of the General Assembly (either an Act specifically authorizing the issuance of debt, or Appropriation Act language) with no contingency for subsequent General Assembly approval. If obligations are authorized but will require further action by the General Assembly before they can be issued, then such obligations will not be included in the Model. The practical application of this rule will be that if debt can be issued for a project without any further action on the part of the General Assembly, such debt will be considered as authorized for issuance.

Debt Capacity Model

General Observations and Assumptions

Debt Capacity Advisory Committee

Liabilities included in the Debt Capacity Model

- 3) That portion of outstanding moral obligation debt for which the underlying debt service reserve fund has been utilized to pay all or a portion of debt service and for which the General Assembly has appropriated funds to replenish all or a portion of such debt service reserve fund as requested by the moral obligation issuer.
- In the event that a moral obligation issuer has experienced an event of a default on the underlying revenue stream and such issuer has been forced to draw on the debt service reserve fund to pay debt service, the Committee shall immediately meet and review the circumstances surrounding such event and report its findings to the Governor and the General Assembly.
 - In the event this section is invoked, the Committee's Report to the Governor and General Assembly shall include, one Model scenario showing annual tax-supported debt capacity with inclusion of the moral obligation debt (or portion thereof) in question.
 - Inclusion of the debt in the Model is in no way intended to bind the Governor or General Assembly to make future appropriations to replenish future draws on such debt service reserve fund(s).
 - The subject debt will be removed from the Model once the General Assembly has not appropriated funds to replenish such debt service reserve fund(s).

Debt Capacity Model

Currently Authorized Tax-Supported Debt Issuance Assumptions (Dollars in Millions)

	9(b)	9(c) Higher Education	VPBA	VCBA 21st Century Equipment	VCBA 21st Century Projects	9(d) Transportation	Capital Leases	Total
Authorized & Unissued as of December 31, 2007	\$ 341.8	\$ 316.5	\$ 414.4	\$ 51.7	\$ 112.9	\$ 3,097.1	\$ 34.2	\$ 4,368.6
Assumed Issued ⁽¹⁾ :								
FY 2008	-	-	-	-	-	-	-	-
FY 2009	-	-	206.1	51.7	60.0	100.0	34.2	452.0
FY 2010	198.7	-	208.3	-	52.9	397.1	-	857.0
FY 2011	143.1	-	-	-	-	300.0	-	443.1
FY 2012-17	-	316.5	-	-	-	1,800.0	-	2,116.5
Total	341.8	316.5	414.4	51.7	112.9	2,597.1	34.2	3,868.6
Authorized Debt Assumed Unissued	\$ 0.0	\$ -	\$ 0.0	\$ 0.0	\$ (0.0)	N/A	\$ -	\$ 0.0

⁽¹⁾ Debt is assumed issued when the first full year of debt service is paid.

Debt Capacity Model

DEBT CAPACITY MODEL (Dollars in Millions) February 25, 2008

Debt Capacity Maximum Ratio

Debt Service as a % of Revenue =

5.0%

Fiscal Year	[1] Blended Revenues	[2] Debt Service to Pay	[3] 9(c) Revenue Equal to Debt Service	[4] Total Capacity to Pay Debt Service	[5] Annual Payments for Debt Service on Debt Issued	[6] Annual Payments for Debt Service on All Planned Debt Issuances	[7] Actual & Projected Debt Service as a % of Revenues	[8] Net Capacity to Pay Debt Service	[9] Amount of Additional Debt that may Be Issued	[10] Debt Service on Amount of Additional Debt that may Be Issued	[11] Remaining Capacity to Pay Debt Service	[12] Total Debt Service as a % of Revenues
Actual 2001	12,271.52	613.58	70.68	684.26	395.54	N/A	2.65%	288.72	N/A	N/A	288.72	2.65%
Actual 2002	11,717.85	585.89	67.36	653.25	413.58	N/A	2.95%	239.67	N/A	N/A	239.67	2.95%
Actual 2003	12,102.51	605.13	68.41	673.53	430.60	N/A	2.99%	242.93	N/A	N/A	242.93	2.99%
Actual 2004	13,169.32	658.47	72.41	724.14	439.23	N/A	2.84%	284.91	N/A	N/A	284.91	2.84%
Actual 2005	15,523.45	776.17	61.77	837.94	446.27	N/A	2.48%	391.67	N/A	N/A	391.67	2.48%
Actual 2006	16,520.10	826.01	61.83	887.84	480.84	N/A	2.54%	407.00	N/A	N/A	407.00	2.54%
Actual 2007	17,282.60	864.13	64.34	928.47	546.67	N/A	2.79%	381.80	N/A	N/A	381.80	2.79%
2008	17,493.90	874.70	69.42	944.11	405.94	54.59	2.24%	483.58	795.74	0.000	483.58	2.24%
2009	18,022.20	901.11	69.74	970.85	617.77	102.26	3.61%	250.82	795.74	61.685	189.14	3.95%
2010	19,171.60	958.58	66.46	1,025.04	597.51	132.58	3.46%	294.95	795.74	123.371	171.58	4.11%
2011	20,125.10	1,006.26	62.00	1,068.26	571.04	162.47	3.34%	334.75	795.74	185.056	149.70	4.26%
2012	20,946.80	1,047.34	67.76	1,115.10	534.92	208.34	3.22%	371.85	795.74	246.741	125.11	4.40%
2013	21,791.40	1,089.57	78.47	1,168.04	495.67	240.52	3.02%	431.85	795.74	308.426	123.42	4.43%
2014	22,538.40	1,126.92	72.04	1,198.96	467.10	248.70	2.86%	483.16	795.74	370.112	113.05	4.50%
2015	23,710.83	1,185.54	71.72	1,257.26	453.26	267.21	2.74%	536.80	795.74	431.797	105.00	4.56%
2016	24,946.73	1,247.34	69.40	1,316.74	429.76	287.62	2.60%	599.37	795.74	493.482	105.88	4.58%
2017	26,249.56	1,312.48	62.86	1,375.34	388.77	308.03	2.42%	678.54	795.74	555.167	123.37	4.53%

10 Year Average:	\$795.74	Excess Capacity:	\$1,591.51
			2,0000

[1] Revenues include the actual fiscal year revenues per the Annual Reports of the Comptroller (2001-2006), February (Dated-2/11/08) Standard Re-forecast of the General Fund, including Virginia Health Care Fund revenue as permitted by Section 32.1-366 of the Code of Virginia and transfers from the Virginia Lottery and the Alcoholic Beverage Control Board, dated December 17, 2007.

[2] Base Capacity to Pay Debt Service equals 5% of the Revenues listed in Column [1].

[3] Self-supporting 9(c) Revenue Equal to 9(c) Debt Service.

[4] Total Capacity to Pay Debt Service equals Column [2] plus Column [3].

[5] Equals the annual payments of principal and interest for all currently outstanding tax-supported debt issued through December 31, 2007.

[6] Equals the annual payments of principal and interest for all currently authorized tax-supported debt planned for issuance within the next ten fiscal years. See Assumed Issuances of

Currently Authorized but Unissued Tax-Supported Debt. Also includes debt service for long-term capital leases, installment purchase obligations, and regional jail reimbursements.

[7] Equals annual payments for debt service on debt issued and planned debt issuances less 9(c) revenue equal to debt service, divided by Revenues. 9(c) revenues and debt service are treated as offsetting.

[8] Equals the amount of revenue available to pay debt service after principal and interest on all currently outstanding and all planned issuances of tax-supported debt has been paid.

[9] Equal to annual amount of additional principal that may be issued without violating the parameters of the model.

[10] Equals Column [8] minus Column [9].

[11] Equals the sum of all debt service payments (less 9(c) debt service) divided by Revenues. (Column [5] + Column [6] + Column [10] - Column 3) / Column [1].

[12] Equals the sum of all debt service payments (less 9(c) debt service) divided by Revenues. (Column [5] + Column [6] + Column [10] - Column 3) / Column [1].

Debt Capacity Model

DEBT CAPACITY MODEL REVENUE DATA February 25, 2008 (Dollars In Millions)

Fiscal Year	General Fund		Transportation Trust Fund ⁽¹⁰⁾		General Fund		Transportation Trust Fund		ABC Profit Transfer		Lottery Profit Transfer		Total Revenue ⁽⁷⁾	Blended Revenue Growth Rate ⁽⁸⁾
Actual 1997	8,133.55	(1)	588.08	(3)	11.67%	(1)	4.69%	(3)	23.80	(1)	343.00	(1)	9,088.43	10.78%
Actual 1998	8,811.04	(1)	603.00	(3)	8.33%	(1)	2.54%	(3)	20.70	(1)	318.90	(1)	9,753.64	7.32%
Actual 1999	9,373.70	(1)	643.82	(3)	10.52%	(1)	6.77%	(3)	25.50	(1)	321.90	(1)	10,728.92	10.00%
Actual 2000	10,831.53	(1)	689.78	(3)	11.23%	(1)	7.14%	(3)	30.20	(1)	324.30	(1)	11,875.81	10.69%
Actual 2001	11,160.73	(1)	753.29	(3)	3.04%	(1)	9.21%	(3)	28.10	(1)	329.40	(1)	12,271.52	3.33%
Actual 2002	10,575.93	(1)	749.33	(4)	-5.24%	(1)	-0.53%	(4)	25.40	(1)	367.20	(1)	11,717.85	-4.51%
Actual 2003	10,968.27	(1)	744.94	(4)	3.71%	(1)	-0.59%	(4)	14.20	(1)	375.10	(1)	12,102.51	3.28%
Actual 2004	11,945.01	(1)	799.70	(4)	8.91%	(1)	7.35%	(4)	16.80	(1)	407.80	(1)	13,169.32	8.81%
Actual 2005	14,228.15	(1)	846.50	(4)	19.11%	(1)	5.85%	(4)	24.90	(1)	423.90	(1)	15,523.45	17.88%
Actual 2006	15,123.20	(1)	912.90	(4)	6.29%	(2)	7.84%	(4)	30.00	(2)	454.00	(2)	16,520.10	6.42%
Actual 2007	15,851.10	(1)	969.00	(4)	4.81%	(2)	6.15%	(4)	27.60	(2)	434.90	(2)	17,282.60	4.62%
2008	16,052.70	(2)	956.90	(4)	1.27%	(2)	-1.25%	(4)	34.30	(2)	450.00	(2)	17,493.90	1.22%
2009	16,389.30	(2)	1,148.30	(4)	2.10%	(2)	20.00%	(4)	34.60	(2)	450.00	(2)	18,022.20	3.02%
2010	17,495.20	(2)	1,191.90	(4)	6.75%	(2)	3.80%	(4)	34.50	(2)	450.00	(2)	19,171.60	6.38%
2011	18,406.80	(2)	1,233.80	(4)	5.21%	(2)	3.52%	(4)	34.50	(2)	450.00	(2)	20,125.10	4.97%
2012	19,187.60	(2)	1,274.70	(4)	4.24%	(2)	3.31%	(4)	34.50	(2)	450.00	(2)	20,946.80	4.08%
2013	19,986.10	(2)	1,320.80	(4)	4.16%	(2)	3.62%	(6)	34.50	(2)	450.00	(2)	21,791.40	4.03%
2014	20,702.70	(2)	1,351.20	(6)	3.59%	(2)	2.30%	(6)	34.50	(2)	450.00	(2)	22,538.40	3.43%
2015	21,841.35	(5)	1,384.98	(6)	5.50%	(5)	2.50%	(6)	34.50	(9)	450.00	(9)	23,710.83	5.20%
2016	23,042.62	(5)	1,419.60	(6)	5.50%	(5)	2.50%	(6)	34.50	(9)	450.00	(9)	24,946.73	5.21%
2017	24,309.97	(5)	1,455.09	(6)	5.50%	(5)	2.50%	(6)	34.50	(9)	450.00	(9)	26,249.56	5.22%

(1) Annual Reports of the Comptroller, FY 1995-2005. December Standard General Fund Actual and Forecast for FY 2006-2007

(2) The February Standard General Fund Re-Forecast for FY 2008-2014, dated February 11, 2008, including Virginia Health Care Fund revenue as permitted by Section 32.1-366 of the Code of Virginia, per December Standard Forecast.

(3) Department of Motor Vehicles.

(4) Department of Taxation.

(5) Flat growth rate of 5.50% for years 2015-2016, per Department of Taxation on December 7, 2007.

(6) Flat growth rate of 2.50% for years 2014-2016, per Department of Taxation on December 7, 2007.

(7) Total Revenue = GF + TTF + ABC + Lottery Revenues.

(8) Blended Revenue Growth Rate = (Current FY Total Revenue / Prior FY Total Revenue) - 1.

(9) FY 2015 - 2017 based on FY 2008 - 2014 Forecasts per December Standard General Fund Forecast, dated December 17, 2007.

(10) Does not include Highway Maintenance and Operating Fund, Federal Grants and Contracts or Toll Revenues.

Debt Capacity Model

Annual Debt Service Requirements and Other Long-Term Obligations Outstanding As of June 30, 2007 Plus Fiscal Year 2008 Issuance Through December 31, 2007* (Dollars in Thousands)

Fiscal Year Ending June 30	General Obligation Debt Sections 9(a), 9(b) and 9(c)	Other Tax-Supported Debt Section 9(d)	Capital Lease and Installment Purchases	Regional Jail Reimbursements	Debt Service on Planned Issuances	Debt Service on Unallocated Debt Capacity	GRAND TOTAL
2008	152,451	253,487	51,957	2,632	-	-	460,527
2009	176,398	441,375	51,957	2,634	66,369	65,052	803,785
2010	169,893	427,614	51,957	2,633	96,697	130,104	878,898
2011	162,446	408,592	51,957	2,636	126,574	195,156	947,361
2012	146,900	388,016	51,957	2,636	172,449	260,208	1,022,165
2013	142,515	353,157	51,957	2,637	185,832	325,260	1,061,358
2014	127,813	339,287	51,957	1,902	194,836	390,312	1,106,107
2015	119,631	333,626	51,957	-	215,250	455,364	1,175,828
2016	107,155	322,602	51,957	-	235,658	520,416	1,237,788
2017	90,797	297,971	51,957	-	256,071	585,467	1,282,263
TOTAL	\$ 1,395,998	\$ 3,565,727	\$ 519,573	\$ 17,709	\$ 1,549,737	\$ 2,927,337	\$ 9,976,081

* Preliminary and unaudited

The Debt Capacity Model

Parameters of the Model

- (1) **Blended Revenues** include all general fund revenues (exclusive of transfers), ABC and Lottery profits transferred to the general fund and state tax revenues in the Transportation Trust Fund.
- (2) **Base Capacity to Pay Debt Service** is calculated as the product of the Debt Capacity Maximum Ratio and Revenues. [Column 2 = Column 1 x .05]
- (3) **9(c) Revenues** represents 9(c) revenue equal to debt service on outstanding 9(c) debt.
- (4) **Total Capacity to Pay Debt Service** is calculated as the Base Capacity plus 9(c) revenues equivalent to 9(c) debt service. It represents the maximum level of debt service allowed given the 5% debt service/revenues ratio. [Column 4 = Column 1 x 5%+ Column 3]
- (5) **Annual Payments for Debt Service on Debt Issued** is actual debt service on all tax-supported debt outstanding at the end of the most recent fiscal year and on any issuance to date since fiscal year end.
- (6) **Annual Payments for Debt Service on All Planned Debt Issuances** is the estimated amount of debt service for currently authorized and unissued tax-supported debt assumed to be issued within the ten-year period.

The Debt Capacity Model (continued)

Parameters of the Model

- (7) **Actual and Projected Debt Service as a % of Revenues** is the sum of Annual Payments for Debt Service on Debt Issued and Annual Payments for Debt Service on All Planned Debt Issuances less 9(c) debt service equal to revenue, divided by Revenues. 9(c) Revenues and 9(c) Debt Service are treated as offsetting.
- (8) **Net Capacity to Pay Debt Service** is Total Capacity to Pay Debt Service less Annual Payments for Debt Service on Debt Issued and Annual Payments for Debt Service on All Planned Debt Issuances. [Column 8= 4-5-6]
- (9) **Amount of Additional Debt that May Be Issued** is the amount of additional tax-supported debt (above and beyond that which is currently authorized but unissued) that may be issued in any given year without exceeding Overall Capacity to Pay Debt Service.
- (10) **Debt Service on the Amount of Additional Debt that May Be Issued** is the estimated amount of debt service for the Additional Debt that may be Authorized and Issued.
- (11) **Remaining Capacity to Pay Debt Service** is Net Capacity to Pay Debt Service less Debt Service on the Amount of Additional Debt that may be Authorized and Issued. [Column 11=8-10]
- (12) **Total Debt Service as a % of Revenues** is the sum of Annual Payments for Debt Service on Debt Issued, Annual Payments for Debt Service on All Planned Debt Issuances and Debt Service on the Amount of Additional Debt that may be Authorized and Issued, divided by Revenues and 9(c) Revenues.

The Debt Capacity Model (continued)

Parameters of the Model

- Model solves for annual capacity, above and beyond authorized amounts assumed issued for the next ten fiscal years at the 5% debt service/revenues level over a ten-year period.

\$ 795.74 million is equal annual issuance capacity.

 - debt service/revenues ratio rises to a maximum of 4.58% in FY 2016
 - projected issuance never reaches 5% capacity and two years excess capacity is maintained at end of ten-year period
- Two years of excess capacity is a function of conservatism.

Exhibit B

The Debt Capacity Model Sensitivity Analysis

The Debt Capacity Model Sensitivity Analysis

Excess Capacity Sensitivity

- Model solution provides for **two years of excess capacity** remaining at end of the ten-year Model period which results in the following annual debt capacity:

2 Year Excess Capacity **\$795.74 million**

- If the Model solution is altered to reduce the two years of excess capacity to **one year of excess capacity**, the following annual debt capacity figures are produced:
 - Debt service as a percentage of revenues peaks at 4.77% in fiscal year 2016.
 - \$875.32 million of annual debt capacity is available for the ten-year Model period.
- If the Model solution is altered to reduce the two years of excess capacity to **no excess capacity**, the following annual debt capacity figures are produced:
 - \$972.00 billion of annual debt capacity is available for the ten-year Model period.
 - Debt service as a percentage of revenues peaks at 4.99% in fiscal years 2016.

The Debt Capacity Model Sensitivity Analysis

Revenue Sensitivity

- If the Model solution is altered to increase or decrease General Fund revenues, the following incremental annual debt capacity changes are produced:

**For each change of \$100 million
in each and every year** **\$ 6.89 million**

**For each 1% change of revenues
in each and every year** **\$ 14.26 million**

Interest Rate Sensitivity

- If the Model solution is altered to change interest rates, the following annual debt capacity figures are produced:

Add 100 basis points to base rate **\$731.05 million**

**Subtract 100 basis points from
base rate** **\$869.73 million**

Exhibit C

Background Information

Background

Creation of the Debt Capacity Advisory Committee was recommended in *An Assessment of Debt Management in Virginia*, December 1990. The Committee was originally created in September 1991, by Executive Order #38. The Committee was subsequently codified under Chapter 43 of the 1994 Virginia Acts of Assembly, as amended.

The Committee's mandate is to annually review the size and condition of the Commonwealth's tax-supported debt and submit to the Governor and the General Assembly before January 1, an estimate of the maximum amount of new tax-supported debt that prudently may be authorized for the next biennium (Section 2.2-2714 Code of Virginia). This estimate is advisory and in no way binds the Governor or the General Assembly.

In developing its annual estimate and in preparing its annual report, the Committee shall, at a minimum, consider:

- the amount of tax-supported debt that, during the next fiscal year and annually for the following nine fiscal years, will be outstanding and the amount of tax-supported debt which has been authorized but not yet issued;
- a projected schedule of affordable, state tax-supported debt authorizations for the next biennium;
- projected debt service requirements during the next fiscal year and annually for the following nine fiscal years based on existing outstanding debt, previously authorized but unissued debt, and projected debt authorizations;
- the criteria that recognized bond rating agencies use to judge the quality of Commonwealth bond issues;

Background (Continued)

- any other factor that is relevant to (i) the ability of the Commonwealth to meet its projected debt service requirements for the next two fiscal years; (ii) the ability of the Commonwealth to support additional debt service in the upcoming biennium; (iii) the requirements of the statewide capital plan; and (iv) the interest rate to be borne by, the credit rating on, or any other factor affecting the marketability of such bonds; and
- the effect of authorizations of new tax-supported debt on each of the considerations listed above.

The Committee is also required to annually review the amount and condition of moral obligation debt and other debt for which the Commonwealth has a contingent or limited liability and make recommendations to ensure the prudent use of such obligations.

In addition, the Committee is also required to review the amount and condition of Commonwealth obligations that are not general obligations or moral obligations, and when appropriate, recommend limits on such additional obligations to the Governor and to the General Assembly.

Review of the December 2006 Report

The Committee issued its fifteenth annual report to the Governor and the General Assembly on December 15, 2006. The report addressed the following issues:

- Reaffirmed the use of debt service on tax-supported debt and related long-term obligations as a percentage of revenues as the debt affordability measure used in the Model. In addition, reaffirmed a maximum ratio of debt service as a percentage of revenues of 5%.
- Concluded that the Commonwealth could issue \$945.57 million of tax-supported debt in each year from fiscal year 2007 through fiscal year 2016 above and beyond tax-supported debt already outstanding or authorized, while still holding the ratio to tax-supported debt service as a percentage of revenues below 5%.
- Recommended that \$945.57 million of tax-supported debt could be prudently authorized by the 2007 and 2008 Sessions of the General Assembly, representing a maximum authorized amount of \$1,891.14 million for the biennium.
- Noted that the Model's results are sensitive to changes in revenues. Specifically, that a one percent change in general fund revenues in each and every year of the Model's solution horizon will change annual debt capacity by approximately \$15.19 million. A change in general fund revenues of \$100 million in each and every year of the Model's solution horizon will produce an incremental debt capacity change of approximately \$6.81 million annually.
- Made no recommendation as to which projects, if any, should be chosen for debt financing or how they should be prioritized. Reaffirmed that this decision was most appropriately made through the budgetary and legislative processes.

Review of the December 2006 Report (Continued)

- Continued to recommend that Cabinet Secretaries work with the Secretary of Finance to develop a proposal for rescinding unnecessary authorizations for consideration in the 2007 General Assembly Session.
- Continued to recommend the use of financing processes which promote the lowest possible cost of funds to the Commonwealth by utilizing traditional financing vehicles such as the Virginia Public Building Authority and the Virginia College Building Authority whenever appropriate.
- Reviewed outstanding moral obligation debt and other debt for which the Commonwealth has a contingent or limited liability. The Committee reconfirmed that the Commonwealth is not unique in its use of moral obligation debt, as a number of other state issuers utilize the moral obligation pledge. The Committee continued to review the types of programs, statutory caps, outstanding amounts and other financial data for certain other states that utilize moral obligation bond programs and compared these to Commonwealth issuers. The Committee recommended no changes to existing programs and recommended no change to levels of statutory caps for the three issuers currently utilizing the moral obligation pledge of the Commonwealth.

Commonwealth Debt

(per the Comprehensive Annual Financial Report, dollars in thousands)

	As of <u>June 30, 2007</u>	As of <u>June 30, 2006</u>
Tax-Supported Debt		
9(b) General Obligation ⁽¹⁾	821,563	626,124
9(c) General Obligation - Higher Education	411,842	325,969
9(c) General Obligation - Transportation	69,962	80,435
9(c) General Obligation - Parking Facilities	8,804	9,939
Commonwealth Transportation Board	987,550	1,021,172
Virginia Public Building Authority	1,575,187	1,292,251
Virginia Port Authority	236,300	251,219
Virginia College Building Authority - 21st Century & Equip	828,488	641,954
Innovative Technology Authority	7,145	7,935
Virginia Biotechnology Research Park Authority	50,200	52,452
Transportation Notes Payable	12,325	12,325
Capital Leases	249,771	186,147
Installment Purchases	186,329	188,273
Regional Jail Reimbursement Agreements	11,693	13,375
Compensated Absences ⁽²⁾	560,895	527,926
Pension Liability ⁽²⁾	1,105,051	969,574
Virginia Public Broadcasting Board	11,070	13,485
Virginia Aviation Board	2,482	2,768
Industrial Development Authority Obligations ⁽³⁾	19,010	23,160
Economic Development Authority Obligations ⁽⁴⁾	100,387	100,592
Other Liabilities ⁽²⁾	16,472	18,114
Total Tax Supported Debt	<u>\$ 7,272,526</u>	<u>\$ 6,365,189</u>
Debt Not Supported By Taxes ⁽²⁾		
Moral Obligation / Contingent Liability Debt		
Virginia Resources Authority	678,600	704,477
Virginia Housing Development Authority	449,350	498,314
Virginia Public School Authority - 1991 Resolution	-	-
Virginia Public School Authority - 1997 Resolution	2,793,195	2,615,040
Virginia Public School Authority - Equipment Technology Notes	172,390	170,385
Total Moral Obligation/Contingent Liability Debt	<u>\$ 4,093,535</u>	<u>\$ 3,988,216</u>
Other Debt Not Supported By Taxes		
9(d) Higher Education	815,247	840,779
Virginia College Building Authority - Pooled Bond Program	850,870	724,640
Virginia College Building Authority - Private College Program	471,750	385,105
Virginia Public School Authority - Stand Alone Program	55,087	63,932
Virginia Public School Authority - Equipment Notes	-	-
Virginia Housing Development Authority	5,548,833	4,656,701
Virginia Port Authority	230,817	141,118
Virginia Equine Center	0	15,320
Hampton Roads Sanitation District	143,658	144,450
Virginia Biotechnology Research Park Authority	10,975	11,880
Virginia Resources Authority	1,017,988	677,382
Federal Highway Reimbursement Anticipation Notes	800,538	918,494
Notes Payable	1,034,475	908,394
Bond Anticipation Notes	40,000	-
Other Long-Term Debt	293,241	284,353
Foundations	1,076,230	738,850
Total Other Debt Not Supported By Taxes	<u>\$ 12,389,709</u>	<u>\$ 10,511,398</u>

Source: Department of the Treasury and Department of Accounts

⁽¹⁾ Voter approved

⁽²⁾ NOT INCLUDED IN DEBT CAPACITY MODEL

⁽³⁾ Newport News Industrial Development Authority for Virginia Advanced Shipbuilding & Carrier Integration Center

**Tax-Supported Debt Issuances in Fiscal Year 2008
As of December 31, 2007**

<u>Issuer</u>	<u>Date Issued</u>	<u>Amount</u>
Virginia Public Building Authority, Public Facilities Series 2007A	October 2007	\$ 242,480,000
Commonwealth of Virginia General Obligation Bonds, Series 2007B	November 2007	\$183,305,000

Commonwealth Debt

Outstanding Tax-Supported Debt As of December 31, 2007* (Dollars in Thousands)

Tax-Supported Debt Included in the Model ⁽¹⁾

9(b) General Obligation Bonds		\$897,063
Bonds	\$897,063	
9(c) Revenue-Supported GOBs		\$598,413
Higher Education	\$519,647	
Transportation	\$69,962	
Parking Facilities	\$8,804	
9(d) Obligations		\$4,384,566
Transportation Board	\$987,550	
Virginia Public Building Authority	1,704,977	
Port Authority	221,645	
Virginia College Building Authority Equipment	192,660	
Virginia College Building Authority 21st Century	632,090	
Bonded Capital Leases and Lease Revenue Bonds(2)	226,097	
Virginia Aviation Board	2,339	
Virginia Public Broadcasting Board	9,810	
Regional Jail Reimbursement Agreements	11,693	
Transportation Notes Payable	12,325	
Capital Leases	197,051	
Installment Purchases	186,329	

Total Tax-Supported Debt Included in Model		<u>\$5,880,042</u>
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Additional Long-Term Obligations Included in the CAFR

But Not Included in the Model

Long-Term Obligations Not Included in Model		\$1,682,418
Compensated Absences	\$560,895	
Pension Liability	1,105,051	
Other Long-Term Liabilities	16,472	

Total Tax-Supported Debt (CAFR Plus Subsequent Issuance)		<u><u>\$7,562,460</u></u>
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(1) June 30, 2007 Balance Plus Fiscal Year 2008 issuances and principal payments through December 31, 2007.

(2) Bonded Capital Leases include the capital lease obligations supporting lease revenue bonds for Innovative Technology Authority, Virginia Biotechnology Research Park Authority, Big Stone Gap Redevelopment and Housing Authority, Norfolk Redevelopment and Housing Authority, Newport News Industrial Development Authority, the Town of Jarratt, Virginia, and the Fairfax County Economic Development Authority.

*Preliminary and unaudited. Certain balances are not net of any unamortized discounts/premiums or deferral on debt defeasance.

Commonwealth Debt

Authorized But Unissued Tax-Supported Debt as of December 31, 2007*

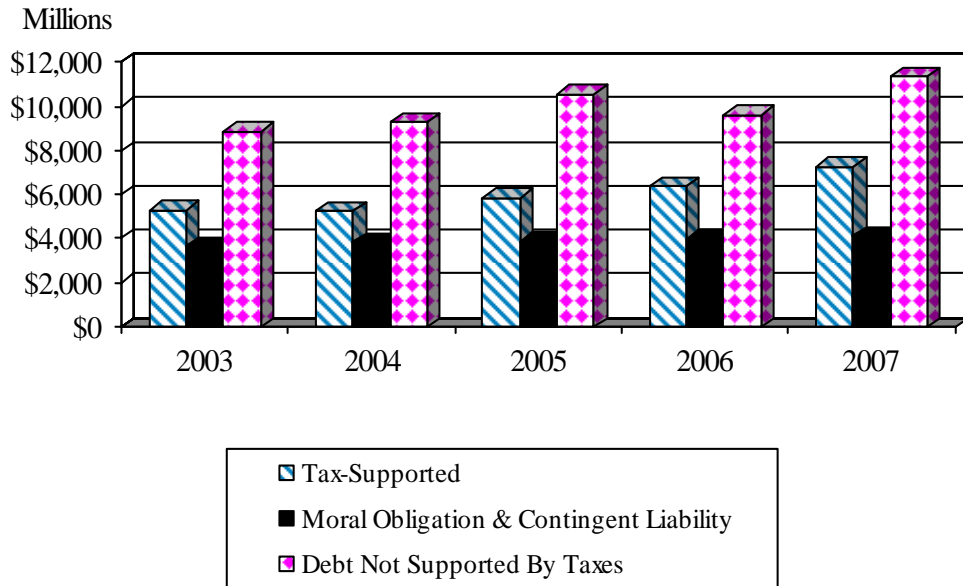
(Dollars in Thousands)

Section 9(b) Debt:		\$ 341,828
Section 9(c) Debt:		
Higher Education Institutions Bonds		\$ 316,500
Section (9d) Debt:		
Transportation Revenue Bonds (Northern Virginia Transportation District Program)	97,100	
Transportation Revenue Bonds (Chap 896)	3,000,000	
Virginia Public Building Authority - Projects and Virginia Public Building Authority - Jails & Juvenile Detention Facilities	414,428	
Virginia College Building Authority - 21st Century Equipment	51,705	
Virginia College Building Authority - 21st Century Projects	112,869	
Capital Lease Financings	34,238	
Subtotal 9(d) Debt:		\$ <u>3,710,340</u>
Total		\$ <u><u>4,368,668</u></u>

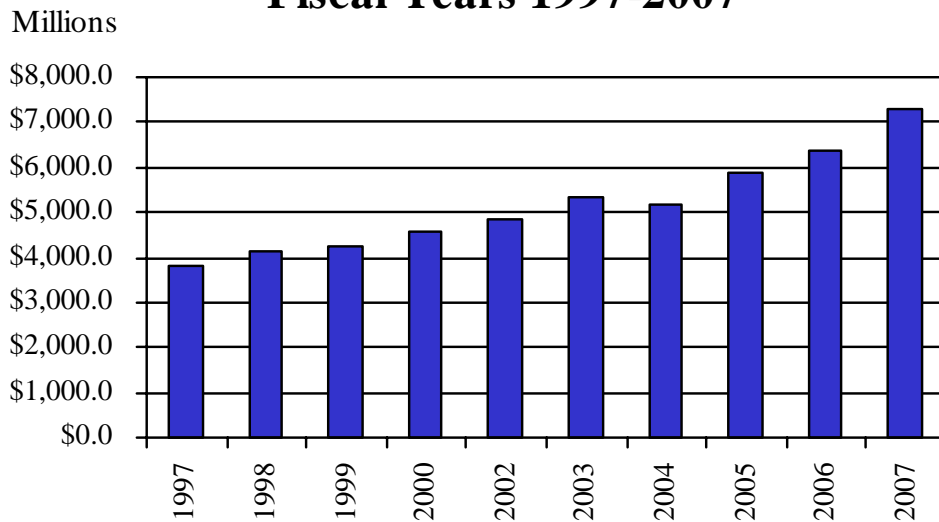
*Preliminary and unaudited

Commonwealth Debt

Outstanding Commonwealth Debt Fiscal Years 2003-2007

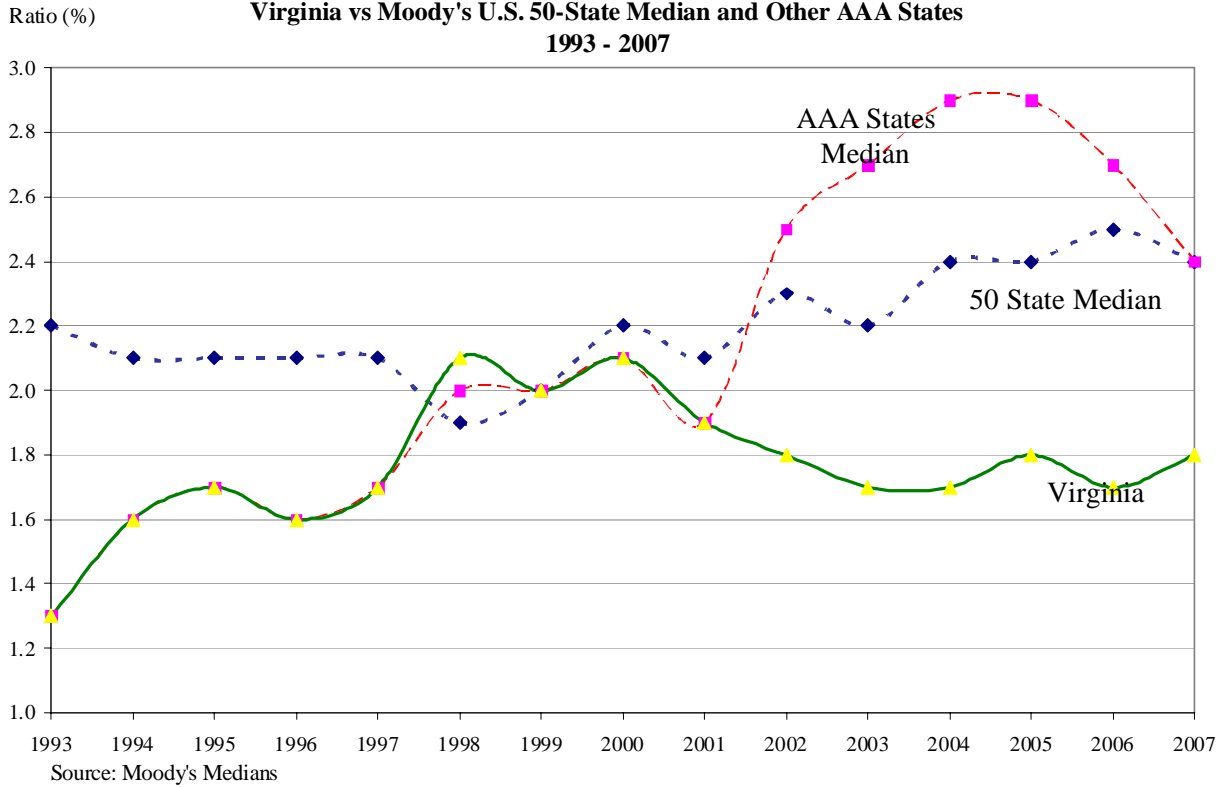


Outstanding Tax-Supported Debt Fiscal Years 1997-2007

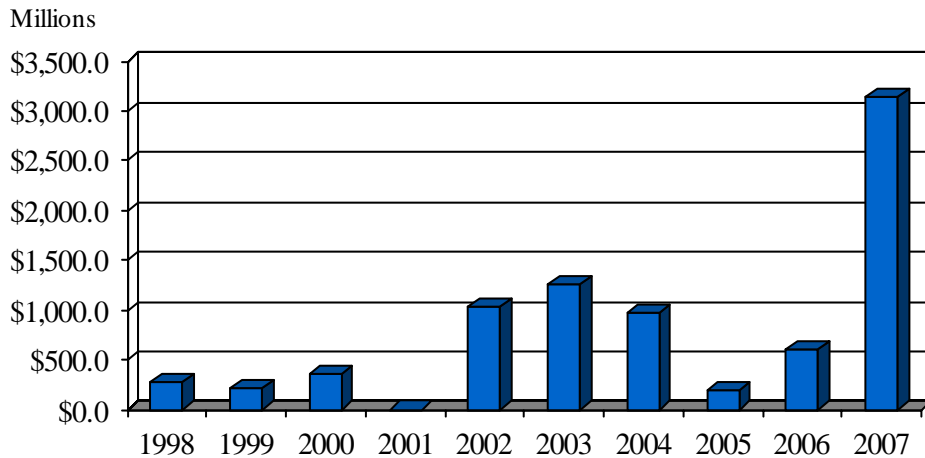


Commonwealth Debt

**Net Tax-Supported Debt As Percentage of Personal Income
Virginia vs Moody's U.S. 50-State Median and Other AAA States
1993 - 2007**

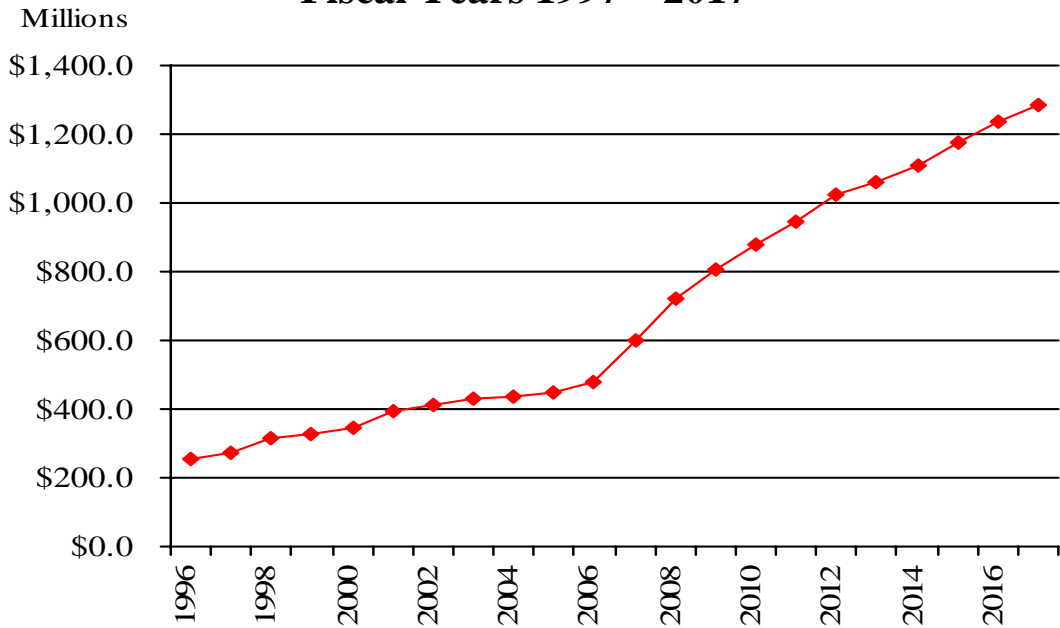


Tax-Supported Debt Authorizations Fiscal Years 1998-2007



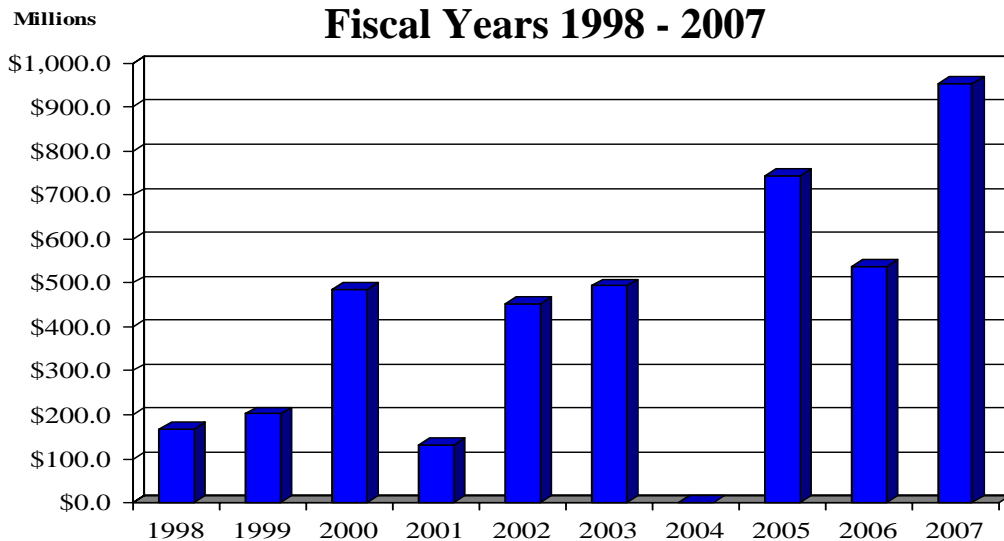
Commonwealth Debt

Tax-Supported Debt Service: Actual and Projected Fiscal Years 1997 – 2017*



* Assumes debt is authorized and issued in future periods in accordance with the Model's maximum recommended annual amounts. Past data includes lease revenue bonds issued by the Virginia Biotech Research Park Authority, Innovative Technology Authority and Newport News Industrial Development Authority. Does not include other capital leases, installment purchase obligations or regional jail reimbursement payments.

Trend in Tax-Supported Debt Issuance Fiscal Years 1998 - 2007



AAA/Aaa/AAA State Debt Burdens

2000 – 2007

AAA/Aaa/AAA STATE DEBT BURDENS FROM 2000-2007 PROVIDED BY MOODY'S INVESTORS SERVICE

Net Tax-Supported Debt per Capita (1)

	<u>2007</u>	<u>2006</u>	<u>2005</u>	<u>2004</u>	<u>2003</u>	<u>2002</u>	<u>2001</u>	<u>2000</u>
Delaware	1998	1845	1,865	1,800	1,599	1,650	1,616	1,544
Maryland	1171	1169	1,064	1,077	977	879	819	895
Georgia	916	784	803	827	802	804	679	697
North Carolina	728	-	-	-	-	375	340	343
VIRGINIA	692	601	589	546	546	566	537	570
Utah	621	707	792	846	682	708	634	693
Missouri	613	496	449	461	368	347	288	245
Minnesota		-	-	-	-	576	546	513
South Carolina		-	-	599	587	615	398	347
AAA Median	728	746	798	827	682	615	546	570
AAA Average	963	934	927	879	794	724	651	650

(1) Population is based on Census data from one year prior to each respective year's debt analyzed.

Net Tax-Supported Debt as Percent of Personal Income (2)

	<u>2007</u>	<u>2006</u>	<u>2005</u>	<u>2004</u>	<u>2003</u>	<u>2002</u>	<u>2001</u>	<u>2000</u>
Delaware	5.5	5.3	5.5	5.6	4.9	5.3	5.5	5.2
Georgia	3.0	2.7	2.8	2.9	2.8	2.9	2.6	2.8
Maryland	2.8	3.0	2.9	3.0	2.7	2.6	2.6	3.0
North Carolina	2.4	-	-	-	-	1.4	1.4	1.4
Utah	2.3	2.7	3.2	3.5	2.8	3.0	2.8	3.3
Missouri	1.9	1.6	1.5	1.6	1.3	1.3	1.1	1.0
VIRGINIA	1.8	1.7	1.8	1.7	1.7	1.8	1.9	2.1
South Carolina		-	-	2.4	2.3	2.5	1.8	1.6
Minnesota		-	-	-	-	1.8	1.8	1.9
AAA Median	2.4	2.7	2.9	2.9	2.7	2.5	1.9	2.1
AAA Average	3.2	2.8	3.0	3.0	2.6	2.5	2.4	2.5

(2) Personal income is based on Census data from two years prior to each respective year's debt analyzed.

Exhibit D

**Moral Obligation Debt
And
Contingent Liability Debt**

Moral Obligation Debt

- Definition of Moral Obligation Debt:

Moral obligation debt refers to a bond issue structure originally created in the 1960s and utilized primarily by state housing finance agencies or state-administered municipal bond banks as additional credit enhancement for revenue bond issues. A government’s moral obligation pledge provides a deficiency make-up for bondholders should underlying project revenues prove insufficient. The mechanics involve funding a debt service reserve fund when the bonds are issued. If a revenue deficiency exists, reserve fund monies are used to pay bondholders. The issuer then informs the legislative body requesting that it replenish the reserve fund before subsequent debt service is due. The legislative body “may”, but is not legally required to, replenish the reserve fund.

- Rating agencies do not include in tax-supported debt ratios as long as bonds are self-supporting.

- Commonwealth Moral Obligation Debt Issuers:
 - Virginia Resources Authority
 - Virginia Housing Development Authority
 - Multi-Family Housing Bonds

Moral Obligation Debt

Issuer	Statutory Limit	Outstanding At June 30, 2007	Available Authorization
Virginia Resources Authority	\$ 900,000	\$ 678,600	\$ 221,400
Virginia Housing Development Authority	<u>1,500,000</u>	<u>449,350</u>	<u>1,050,650</u>
Total	<u>\$2,400,000</u>	<u>\$1,127,950</u>	<u>\$1,272,050</u>

Dates upon which issuers expect to meet or exceed statutory borrowing cap:

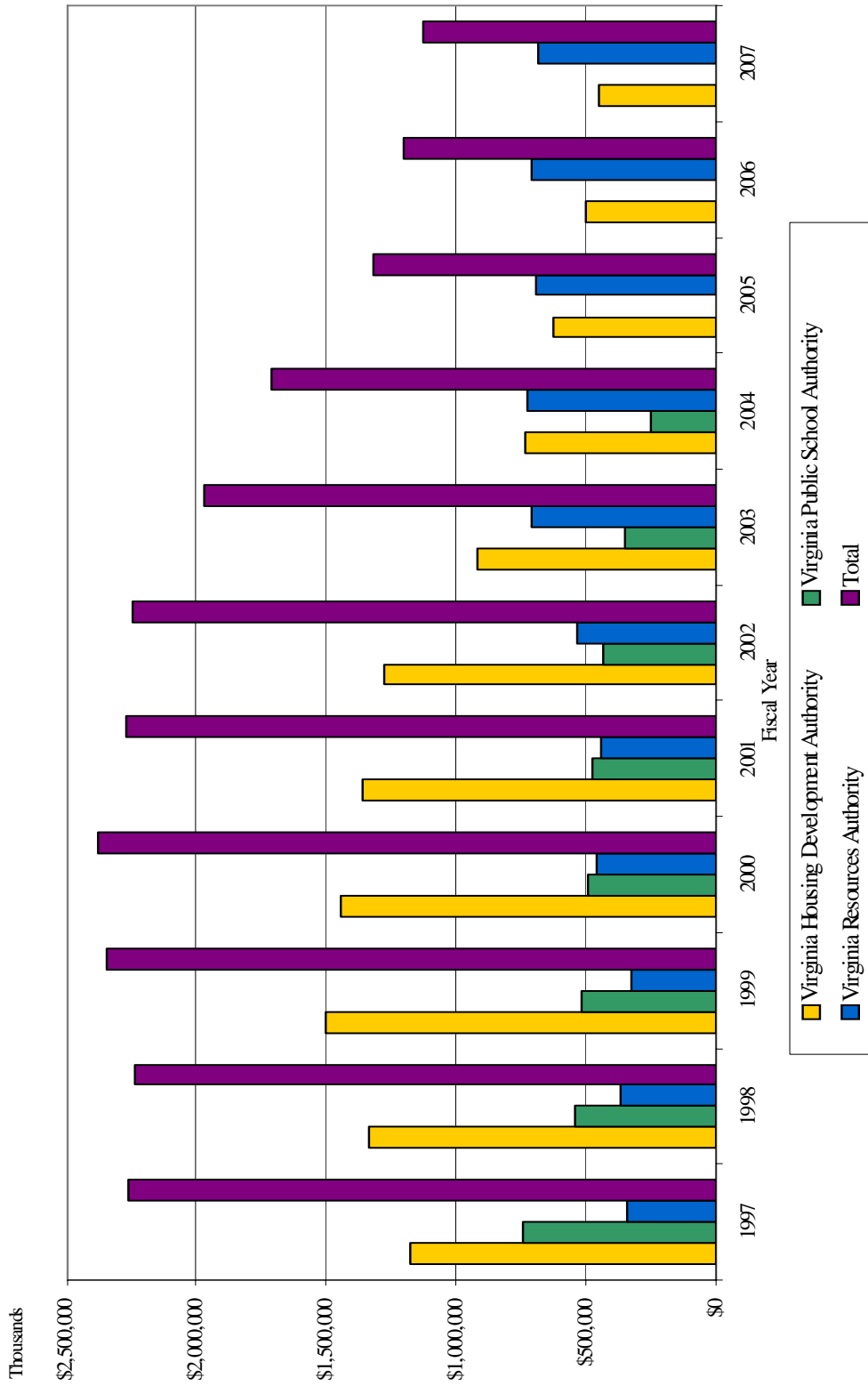
VHDA: - Alternative financing programs initiated in fiscal year 1999 do not require use of moral obligation. Does not expect to issue additional moral obligation debt.

VRA: - Cap raised from \$550 million to \$900 million in 2001. Cap is not expected to be reached prior to fiscal year 2011.

Bond Ratings:	<u>Fitch</u>	<u>Moody's</u>	<u>S&P</u>
VHDA (Multi-Family):	N/R	Aa1	AA+
VRA:	N/R	Aa2	AA

Moral Obligation Debt

Outstanding Moral Obligation Debt Fiscal Years 1997 - 2007



Contingent or Limited Liability Debt

- The only non-tax-supported debt obligations for which the Commonwealth has a contingent or limited liability are those which utilize a “sum sufficient appropriation” (SSA) to pay debt service.
- SSA was previously only used on certain revenue bonds issued by the Virginia Public School Authority under its 1997 Resolution. The Virginia Public School Authority had \$2,793,195,000 of 1997 Resolution bonds outstanding as of June 30, 2007.
- The 2000 Appropriation Act (Chapter 1073) authorized the use of SSA for certain revenue notes issued by the Virginia Public School Authority under its Educational Technology Program. The SSA was codified during the 2001 General Assembly session. The Virginia Public School Authority issued its first series of notes enhanced by the SSA in the Spring of 2001. Notes outstanding as of June 30, 2007 equal \$172,390,000.

Bond Ratings:	<u>Fitch</u>	<u>Moody's</u>	<u>S&P</u>
VPSA (1997 Resolution):	AA+	Aa1	AA+
VPSA (Equipment Technology Notes):	AA+	Aa1	AA+

Moral Obligation Debt

Excess Capacity Sensitivity

- The current Model solution provides for two years of excess capacity remaining at end of the 10-year Model period (excluding moral obligation debt) which results in annual debt capacity of \$795.74 million.

Total Moral Obligation Debt Sensitivity

- If the Model solution is altered to assume conversion of the entire \$2.4 billion statutory cap for all moral obligation debt to tax-supported debt, the following annual debt capacity figures are produced:
 - Debt service as a percentage of revenues peaks at 4.97% in fiscal year 2012.
 - \$577.56 million of annual debt capacity is available for the ten-year model period.

VHDA Sensitivity

- If the Model solution is altered to assume conversion of the VHDA's total outstanding moral obligation debt (as of 6/30/07) to tax-supported debt, the following annual debt capacity figures are produced:
 - Debt service as a percentage of revenues peaks at 4.61% in fiscal year 2016.
 - Annual debt issuance capacity of \$754.89 million is available for the ten-year Model period.

Moral Obligation Debt

VRA Sensitivity

- If the Model solution is altered to assume conversion of the VRA's total statutory moral obligation cap of \$900 million to tax-supported debt, the following annual debt capacity figures are produced:
 - Debt service as a percentage of revenues peaks at 4.63% in fiscal year 2016.
 - \$734.05 million of annual debt issuance capacity is available is available for the ten-year Model period.

Sum Sufficient Appropriation Sensitivity

VPSA Sensitivity

- If the Model solution is altered to assume conversion of the VPSA's total outstanding debt secured by a sum sufficient appropriation (as of 6/30/07) to tax-supported debt, the following annual debt capacity figures are produced:
 - Debt service as a percentage of revenues peaks at 4.93% in fiscal year 2012.
 - Annual capacity of \$250.00 million is available during fiscal years 2008 and 2009, with capacity rising to \$460.00 million during the remaining eight years of the Model period.