

BLACKROCK MUNIVEST FUND INC
Form N-CSRS
May 01, 2012
UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-05611

Name of Fund: BlackRock MuniVest Fund, Inc. (MVF)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniVest Fund, Inc., 55 East 52nd Street, New York, NY 10055

Registrant's telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 08/31/2012

Date of reporting period: 02/29/2012

Item 1 – Report to Stockholders

February 29, 2012

Semi-Annual Report (Unaudited)

BlackRock Municipal Bond Investment Trust (BIE)

BlackRock Municipal Bond Trust (BBK)

BlackRock Municipal Income Investment Quality Trust (BAF)

BlackRock Municipal Income Quality Trust (BYM)

BlackRock Municipal Income Trust II (BLE)

BlackRock MuniHoldings Investment Quality Fund (MFL)

BlackRock MuniVest Fund, Inc. (MVF)

**Not FDIC Insured § No
Bank Guarantee § May
Lose Value**

Table of Contents

	Page
<u>Dear Shareholder</u>	3
Semi-Annual Report:	
<u>Municipal Market Overview</u>	4
<u>Trust Summaries</u>	5
<u>The Benefits and Risks of Leveraging</u>	12
<u>Derivative Financial Instruments</u>	12
Financial Statements:	
<u>Schedules of Investments</u>	13
<u>Statements of Assets and Liabilities</u>	43
<u>Statements of Operations</u>	44
<u>Statements of Changes in Net Assets</u>	45
<u>Statements of Cash Flows</u>	47
<u>Financial Highlights</u>	49
<u>Notes to Financial Statements</u>	56
<u>Officers and Trustees</u>	65
<u>Additional Information</u>	66

Dear Shareholder

Risk assets were advancing at this time last year despite a wave of geopolitical revolutions, soaring oil prices and natural disasters in Japan. Markets reversed sharply in May, however, when escalating political strife in Greece rekindled fears about sovereign debt problems spreading across Europe. Concurrently, global economic indicators signaled that the recovery had slowed. Confidence was further shaken by the prolonged debt ceiling debate in Washington, DC. On August 5, 2011, Standard & Poor's downgraded the US government's credit rating and turmoil erupted in financial markets around the world. Extraordinary levels of volatility persisted in the months that followed as Greece teetered on the brink of default, debt problems escalated in Italy and Spain, and exposure to European sovereign bonds stressed banks globally. Financial markets whipsawed on hopes and fears. Macro news flow became a greater influence on trading decisions than the fundamentals of the securities traded. By the end of the third quarter, equity markets had fallen nearly 20% from their April peak while safe-haven assets such as US Treasuries and gold had rallied to historic highs.

October brought enough positive economic data to assuage fears of a global double-dip recession. Additionally, European leaders began to show progress toward stemming the region's debt crisis. Investors began to reenter the markets and risk assets recovered through the month. But a lack of definitive details about Europe's rescue plan eventually raised doubts among investors and thwarted the rally at the end of October. The last two months of 2011 saw more political instability in Greece, unsustainable yields on Italian government bonds, and US policymakers in gridlock over budget issues. Global central bank actions and improving economic data invigorated the markets, but investor confidence was easily tempered by sobering news flow.

Investors showed more optimism at the start of 2012. Risk assets rallied through January and February as economic data grew stronger and debt problems in Europe stabilized. In the United States, jobs data signaled solid improvement in the labor market and the Federal Reserve indicated that it would keep short-term interest rates low through 2014. In Europe, policymakers made significant progress toward securing a Greek bailout plan and restructuring the nation's debt. Nevertheless, considerable headwinds remain. Europe faces a prolonged recession, the US economy still remains somewhat shaky and the risks of additional flare ups of euro-zone debt problems and slowing growth in China weigh heavily on the future of the global economy.

Risk assets, including equities and high yield bonds, recovered their late-summer losses and posted strong returns for the 6-month period ended February 29, 2012. On a 12-month basis, US large-cap stocks and high yield bonds delivered positive results, while small-cap and emerging-market stocks finished slightly negative. International markets, which experienced some significant downturns in 2011, lagged the broader rebound. Fixed income securities, which benefited from declining yields, advanced over the 6- and 12-month periods. Despite their quality rating downgrade, US Treasury bonds performed particularly well. Municipal bonds also delivered superior results. Continued low short-term interest rates kept yields on money market securities near their all-time lows.

Many of the themes that caused uncertainty in 2011 remain. For investors, the risks appear daunting, but this challenging environment offers new opportunities. BlackRock was built for these times. Visit blackrock.com/newworld for more information.

Sincerely

Rob Kapito

President, BlackRock Advisors, LLC

For investors, the risks appear daunting, but this challenging environment offers new opportunities. BlackRock was built for these times.

Rob Kapito

President, BlackRock Advisors, LLC

Total Returns as of February 29, 2012

6-month	12-month
13.31%	5.12%

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

US large cap equities (S&P 500® Index)		
US small cap equities (Russell 2000® Index)	12.40	(0.15)
International equities (MSCI Europe, Australasia, Far East Index)	4.13	(7.45)
Emerging market equities (MSCI Emerging Markets Index)	5.27	(0.11)
3-month Treasury bill (BofA Merrill Lynch 3-Month Treasury Bill Index)	0.00	0.08
US Treasury securities (BofA Merrill Lynch 10- Year US Treasury Index)	3.70	17.22
US investment grade bonds (Barclays US Aggregate Bond Index)	2.73	8.37
Tax-exempt municipal bonds (S&P Municipal Bond Index)	5.93	12.88
US high yield bonds (Barclays US Corporate High Yield 2% Issuer Capped Index)	8.62	6.92

Past performance is no guarantee of future results. Index performance is shown for illustrative purposes only. You cannot invest directly in an index.

THIS PAGE NOT PART OF YOUR FUND REPORT

3

Municipal Market Overview

For the 12-Month Period Ended February 29, 2012

One year ago, the municipal bond market was steadily recovering from a difficult fourth quarter of 2010 that brought severe losses amid a steepening US Treasury yield curve and a flood of inflated headlines about municipal finance troubles. Retail investors had lost confidence in municipals and retreated from the market. Political uncertainty surrounding the midterm elections and tax policies exacerbated the situation. These conditions combined with seasonal illiquidity weakened willful market participation from the trading community. December 2010 brought declining demand with no comparable reduction in supply as issuers rushed their deals to market before the Build America Bond program was retired. This supply-demand imbalance led to wider quality spreads and higher yields for municipal bonds heading into 2011.

Demand is usually strong at the beginning of a new year, but retail investors continued to move away from municipal mutual funds in the first half of 2011. From the middle of November 2010, outflows persisted for 29 consecutive weeks, totaling \$35.1 billion before the trend finally broke in June 2011. However, weak demand was counterbalanced by lower supply in 2011. According to Thomson Reuters, new issuance was down 32% in 2011 as compared to the prior year. While these technical factors were improving, municipalities were struggling to balance their budgets, although the late-2010 predictions for widespread municipal defaults did not materialize. Other concerns that resonated at the beginning of the year, such as rising interest rates, weakening credits and higher rates of inflation, abated as these scenarios also did not come to fruition.

On August 5, 2011, Standard & Poor's (S&P) downgraded the US government's credit rating from AAA to AA+. While this led to the downgrade of approximately 11,000 municipal issues directly tied to the US debt rating, this represented a very small fraction of the municipal market and said nothing about the individual municipal credits themselves. In fact, demand for municipal bonds increased as severe volatility in US equities drove investors to more stable asset classes. The municipal market benefited from an exuberant Treasury market and continued muted new issuance. As supply remained constrained, demand from both traditional and non-traditional buyers was strong, pushing long-term municipal bond yields lower and sparking a curve-flattening trend that continued through year end. Ultimately, 2011 was one of the strongest performance years in municipal market history. The S&P Municipal Bond Index returned 10.62% in 2011, making municipal bonds a top-performing fixed income asset class for the year.

Market technicals often begin a new year quite strong, only to moderate by the end of February as increasing supply begins to satisfy demand. This theme remained intact for 2012. Overall, the municipal yield curve flattened during the period from February 28, 2011 to February 29, 2012. As measured by Thomson Municipal Market Data, yields declined by 146 basis points (bps) to 3.23% on AAA-rated 30-year municipal bonds and by 112 bps to 1.85% on 10-year bonds, while yields on 5-year issues fell 108 bps to 0.68%. While the entire municipal curve flattened over the 12-month time period, the spread between 2- and 30-year maturities tightened by 101 bps, and in the 2- to 10-year range, the spread tightened by 67 bps.

The fundamental picture for municipalities continues to improve. Austerity has been the general theme across the country, while a small number of states continue to rely on a "kick-the-can" approach to close their budget shortfalls, with aggressive revenue projections and accounting gimmicks. It has been over a year since the first highly publicized interview about the fiscal problems plaguing state and local governments. Thus far, the prophecy of widespread defaults across the municipal market has not materialized. In 2011, there were fewer municipal defaults than seen in 2010. Throughout 2011 monetary defaults in the S&P Municipal Bond Index totaled roughly \$805 million, representing less than 0.48% of the index. BlackRock maintains the view that municipal bond defaults will remain in the periphery and the overall market is fundamentally sound. We continue to recognize that careful credit research and security selection remain imperative amid uncertainty in this economic environment.

Past performance is no guarantee of future results. Index performance is shown for illustrative purposes only. You cannot invest directly in an index.

Trust Summary as of February 29, 2012

BlackRock Municipal Bond Investment Trust

Trust Overview

BlackRock Municipal Bond Investment Trust s (BIE) (the Trust) investment objective is to provide current income exempt from regular federal income tax and Florida intangible personal property tax. The Trust seeks to achieve its investment objective by investing primarily in municipal bonds exempt from federal income taxes (except that the interest may be subject to the federal alternative minimum tax). Under normal market conditions, the Trust invests at least 80% of its assets in municipal bonds that are investment grade quality at the time of investment. The Trust may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Trust s investment objective will be achieved.

Performance

For the six months ended February 29, 2012, the Trust returned 17.53% based on market price and 13.50% based on net asset value (NAV). For the same period, the closed-end Lipper General & Insured Municipal Debt Funds (Leveraged) category posted an average return of 14.97% based on market price and 11.83% based on NAV. All returns reflect reinvestment of dividends. The Trust moved from a discount to NAV to a premium by period end, which accounts for the difference between performance based on price and performance based on NAV. The following discussion relates to performance based on NAV. As the yield curve flattened during the period (longer-term interest rates fell more than shorter-term rates), rising bond prices in the long end of the municipal curve contributed positively to the Trust s performance. The Trust s longer-dated holdings in the health, transportation and education sectors experienced the strongest price appreciation.

The views expressed reflect the opinions of BlackRock as of the date of this report and are subject to change based on changes in market, economic or other conditions. These views are not intended to be a forecast of future events and are no guarantee of future results.

Trust Information

Symbol on New York Stock Exchange (NYSE)	BIE
Initial Offering Date	April 30, 2002
Yield on Closing Market Price as of February 29, 2012 (\$16.19) ¹	6.00%
Tax Equivalent Yield ²	9.23%
Current Monthly Distribution per Common Share ³	\$0.0810
Current Annualized Distribution per Common Share ³	\$0.9720
Economic Leverage as of February 29, 2012 ⁴	38%

¹ Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

² Tax equivalent yield assumes the maximum federal tax rate of 35%.

³ The distribution rate is not constant and is subject to change.

⁴ Represents Variable Rate Demand Preferred Shares (VRDP Shares) and tender option bond trusts (TOBs) as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to VRDP Shares and TOBs, minus the sum of accrued liabilities. For a discussion of leveraging techniques utilized by the Trust, please see The Benefits and Risks of Leveraging on page 12.

The table below summarizes the changes in the Trust s market price and NAV per share:

	2/29/12	8/31/11	Change	High	Low
Market Price	\$16.19	\$14.22	13.85%	\$16.60	\$14.18
Net Asset Value	\$16.13	\$14.67	9.95%	\$16.19	\$14.67

The following charts show the sector and credit quality allocations of the Trust s long-term investments:

Sector Allocations

	2/29/12	8/31/11
Transportation	21%	21%
County/City/Special District/School District	21	17
Utilities	17	19
Health	15	23
State	10	6
Education	9	7
Housing	5	5
Corporate	1	1
Tobacco	1	1

Credit Quality Allocations⁵

	2/29/12	8/31/11
AAA/Aaa	11%	10%
AA/Aa	64	62
A	19	21
BBB/Baa	5	6
BB/Ba		1
Not Rated	1	

⁵ Using the higher of Standard & Poor's (S&P's) or Moody's Investors Service (Moody's) ratings.

Trust Summary as of February 29, 2012**BlackRock Municipal Bond Trust****Trust Overview**

BlackRock Municipal Bond Trust s (BBK) (the Trust) investment objective is to provide current income exempt from regular federal income tax. The Trust seeks to achieve its investment objective by investing primarily in municipal bonds exempt from regular federal income taxes (except that the interest may be subject to the federal alternative minimum tax). The Trust invests, under normal market conditions, at least 80% of its assets in municipal bonds that are investment grade quality. The Trust may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Trust s investment objective will be achieved.

Performance

For the six months ended February 29, 2012, the Trust returned 17.13% based on market price and 14.84% based on NAV. For the same period, the closed-end Lipper General & Insured Municipal Debt Funds (Leveraged) category posted an average return of 14.97% based on market price and 11.83% based on NAV. All returns reflect reinvestment of dividends. The Trust s premium to NAV, which widened during the period, accounts for the difference between performance based on price and performance based on NAV. The following discussion relates to performance based on NAV. During the period, the Trust benefited from the declining interest rate environment (bond prices rise when interest rates fall), the flattening of the yield curve (long-term interest rates fell more than short and intermediate rates) and tightening of credit spreads. The Trust s exposure to zero-coupon bonds and the health sector had a significant impact on performance as these holdings derived the greatest benefit from the decline in interest rates and spread tightening during the period.

The views expressed reflect the opinions of BlackRock as of the date of this report and are subject to change based on changes in market, economic or other conditions. These views are not intended to be a forecast of future events and are no guarantee of future results.

Trust Information

Symbol on NYSE	BBK
Initial Offering Date	April 30, 2002
Yield on Closing Market Price as of February 29, 2012 (\$16.81) ¹	6.32%
Tax Equivalent Yield ²	9.72%
Current Monthly Distribution per Common Share ³	\$0.0885
Current Annualized Distribution per Common Share ³	\$1.0620
Economic Leverage as of February 29, 2012 ⁴	35%

¹ Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

² Tax equivalent yield assumes the maximum federal tax rate of 35%.

³ The distribution rate is not constant and is subject to change.

⁴ Represents Variable Rate Muni Term Preferred Shares (VMTP Shares) and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to VMTP Shares and TOBs, minus the sum of accrued liabilities. For a discussion of leveraging techniques utilized by the Trust, please see The Benefits and Risks of Leveraging on page 12.

The table below summarizes the changes in the Trust s market price and NAV per share:

	2/29/12	8/31/11	Change	High	Low
Market Price	\$16.81	\$14.86	13.12%	\$17.44	\$14.80
Net Asset Value	\$16.06	\$14.48	10.91%	\$16.10	\$14.48

The following charts show the sector and credit quality allocations of the Trust s long-term investments:

Sector Allocations

	2/29/12	8/31/11
Health	20%	21%
State	15	14
Education	13	10
County/City/Special District/School District	13	12
Transportation	12	10
Housing	10	14
Corporate	9	10
Utilities	5	7
Tobacco	3	2

Credit Quality Allocations⁵

	2/29/12	8/31/11
AAA/Aaa	6%	11%
AA/Aa	39	35
A	25	18
BBB/Baa	18	22
BB/Ba	5	1
B	1	6
CCC/Caa		1
Not Rated ⁶	6	6

⁵ Using the higher of S&P's or Moody's ratings.

⁶ The investment advisor has deemed certain of these non-rated securities to be of investment grade quality. As of February 29, 2012 and August 31, 2011, the market value of these securities was \$3,120,455, representing 1%, and \$4,646,558, representing 2%, respectively, of the Trust's long-term investments.

Trust Summary as of February 29, 2012

BlackRock Municipal Income Investment Quality Trust

Trust Overview

BlackRock Municipal Income Investment Quality Trust s (BAF) (the Trust) investment objective is to provide current income exempt from federal income tax, including the alternative minimum tax and Florida intangible property tax. The Trust seeks to achieve its investment objective by investing, under normal circumstances, at least 80% of its assets in municipal bonds exempt from federal income taxes, including the alternative minimum tax. The Trust also invests at least 80% of its assets in municipal bonds that are investment grade quality at the time of investment. The Trust may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Trust s investment objective will be achieved.

Performance

For the six months ended February 29, 2012, the Trust returned 16.65% based on market price and 13.40% based on NAV. For the same period, the closed-end Lipper General & Insured Municipal Debt Funds (Leveraged) category posted an average return of 14.97% based on market price and 11.83% based on NAV. All returns reflect reinvestment of dividends. The Trust s discount to NAV, which narrowed during the period, accounts for the difference between performance based on price and performance based on NAV. The following discussion relates to performance based on NAV. As the yield curve flattened during the period (longer-term interest rates fell more than shorter-term rates), rising bond prices in the long end of the municipal curve contributed positively to the Trust s performance. The Trust s longer-dated holdings in the health, transportation and education sectors experienced the strongest price appreciation.

The views expressed reflect the opinions of BlackRock as of the date of this report and are subject to change based on changes in market, economic or other conditions. These views are not intended to be a forecast of future events and are no guarantee of future results.

Trust Information

Symbol on NYSE	BAF
Initial Offering Date	October 31, 2002
Yield on Closing Market Price as of February 29, 2012 (\$15.76) ¹	5.67%
Tax Equivalent Yield ²	8.72%
Current Monthly Distribution per Common Share ³	\$0.0745
Current Annualized Distribution per Common Share ³	\$0.8940
Economic Leverage as of February 29, 2012 ⁴	35%

¹ Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

² Tax equivalent yield assumes the maximum federal tax rate of 35%.

³ The distribution rate is not constant and is subject to change.

⁴ Represents VMTP Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to VMTP Shares and TOBs, minus the sum of accrued liabilities. For a discussion of leveraging techniques utilized by the Trust, please see The Benefits and Risks of Leveraging on page 12.

The table below summarizes the changes in the Trust s market price and NAV per share:

	2/29/12	8/31/11	Change	High	Low
Market Price	\$15.76	\$13.92	13.22%	\$16.17	\$13.76
Net Asset Value	\$15.96	\$14.50	10.07%	\$16.01	\$14.50

The following charts show the sector and credit quality allocations of the Trust s long-term investments:

Sector Allocations

	2/29/12	8/31/11
County/City/Special District/School District	29%	34%
Utilities	29	22
Transportation	17	16
Health	11	9
Education	6	9
State	6	8
Housing	1	1
Tobacco	1	1

Credit Quality Allocations⁵

	2/29/12	8/31/11
AAA/Aaa	7%	14%
AA/Aa	78	70
A	14	12
BBB/Baa	1	4

⁵ Using the higher of S&P's or Moody's ratings.

Trust Summary as of February 29, 2012

BlackRock Municipal Income Quality Trust

Trust Overview

BlackRock Municipal Income Quality Trust s (BYM) (the Trust) investment objective is to provide current income exempt from federal income taxes, including the alternative minimum tax. The Trust seeks to achieve its investment objective by investing, under normal circumstances, at least 80% of its assets in municipal bonds exempt from federal income taxes, including the alternative minimum tax. The Trust also invests at least 80% of its assets in municipal bonds that are investment grade quality at the time of investment. The Trust may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Trust s investment objective will be achieved.

Performance

For the six months ended February 29, 2012, the Trust returned 17.33% based on market price and 13.28% based on NAV. For the same period, the closed-end Lipper General & Insured Municipal Debt Funds (Leveraged) category posted an average return of 14.97% based on market price and 11.83% based on NAV. All returns reflect reinvestment of dividends. The Trust moved from a discount to NAV to a premium by period end, which accounts for the difference between performance based on price and performance based on NAV. The following discussion relates to performance based on NAV. During the period, the Trust benefited from the declining interest rate environment (bond prices rise when interest rates fall), the flattening of the yield curve (long-term interest rates fell more than short and intermediate rates) and tightening of credit spreads. The Trust s exposure to zero-coupon bonds and the health sector had a positive impact on performance as these holdings derived the greatest benefit from the decline in interest rates and spread tightening during the period.

The views expressed reflect the opinions of BlackRock as of the date of this report and are subject to change based on changes in market, economic or other conditions. These views are not intended to be a forecast of future events and are no guarantee of future results.

Trust Information

Symbol on NYSE	BYM
Initial Offering Date	October 31, 2002
Yield on Closing Market Price as of February 29, 2012 (\$15.75) ¹	5.87%
Tax Equivalent Yield ²	9.03%
Current Monthly Distribution per Common Share ³	\$0.0770
Current Annualized Distribution per Common Share ³	\$0.9240
Economic Leverage as of February 29, 2012 ⁴	36%

¹ Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

² Tax equivalent yield assumes the maximum federal tax rate of 35%.

³ The Monthly Distribution per Common Share, declared on March 1, 2012, was increased to \$0.0780 per share. The Yield on Closing Market Price, Current Monthly Distribution per Common Share and Current Annualized Distribution per Common Share do not reflect the new distribution rate. The new distribution rate is not constant and is subject to change in the future.

⁴ Represents VMTP Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to VMTP Shares and TOBs, minus the sum of accrued liabilities. For a discussion of leveraging techniques utilized by the Trust, please see The Benefits and Risks of Leveraging on page 12.

The table below summarizes the changes in the Trust s market price and NAV per share:

2/29/12	8/31/11	Change	High	Low
---------	---------	--------	------	-----

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Market Price	\$15.75	\$13.85	13.72%	\$15.86	\$13.76
Net Asset Value	\$15.47	\$14.09	9.79%	\$15.52	\$14.09

The following charts show the sector and credit quality allocations of the Trust's long-term investments:

Sector Allocations

	2/29/12	8/31/11
Transportation	23%	24%
County/City/Special District/School District	20	18
Utilities	18	21
State	15	14
Health	9	8
Education	6	6
Tobacco	5	6
Corporate	3	2
Housing	1	1

Credit Quality Allocations⁵

	2/29/12	8/31/11
AAA/Aaa	28%	21%
AA/Aa	49	58
A	14	13
BBB/Baa	9	8

⁵ Using the higher of S&P's or Moody's ratings.

Trust Summary as of February 29, 2012

BlackRock Municipal Income Trust II

Trust Overview

BlackRock Municipal Income Trust II s (BLE) (the Trust) investment objective is to provide current income exempt from regular federal income tax. The Trust seeks to achieve its investment objective by investing primarily in municipal bonds exempt from federal income taxes (except that the interest may be subject to the federal alternative minimum tax). The Trust invests, under normal market conditions, at least 80% of its assets in municipal bonds that are investment grade quality at the time of investment. The Trust may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Trust s investment objective will be achieved.

Performance

For the six months ended February 29, 2012, the Trust returned 15.47% based on market price and 13.99% based on NAV. For the same period, the closed-end Lipper General & Insured Municipal Debt Funds (Leveraged) category posted an average return of 14.97% based on market price and 11.83% based on NAV. All returns reflect reinvestment of dividends. The Trust s premium to NAV, which widened during the period, accounts for the difference between performance based on price and performance based on NAV. The following discussion relates to performance based on NAV. Among contributing factors, the most significant were the Trust s duration profile (sensitivity to interest rate movements) and yield curve positioning, both of which were designed to benefit in an environment where interest rates moved broadly lower and, more specifically, where long-term municipal yields decline relative to short-term yields. Security selection and sector allocation also provided meaningful contributions to the Trust s performance. Most notably, the Trust s holdings in transportation, health and tobacco boosted returns as these sectors outperformed the broader market during the period. The Trust s investments in local municipalities and school districts within the tax-backed sector were a modest drag on returns as these segments tended to underperform the overall market.

The views expressed reflect the opinions of BlackRock as of the date of this report and are subject to change based on changes in market, economic or other conditions. These views are not intended to be a forecast of future events and are no guarantee of future results.

Trust Information

Symbol on NYSE Amex	BLE
Initial Offering Date	July 30, 2002
Yield on Closing Market Price as of February 29, 2012 (\$15.77) ¹	6.35%
Tax Equivalent Yield ²	9.77%
Current Monthly Distribution per Common Share ³	\$ 0.0835
Current Annualized Distribution per Common Share ³	\$ 1.0020
Economic Leverage as of February 29, 2012 ⁴	38%

¹ Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

² Tax equivalent yield assumes the maximum federal tax rate of 35%.

³ The Monthly Distribution per Common Share, declared on March 1, 2012, was increased to \$0.0850 per share. The Yield on Closing Market Price, Current Monthly Distribution per Common Share and Current Annualized Distribution per Common Share do not reflect the new distribution rate. The new distribution rate is not constant and is subject to change in the future.

⁴ Represents VMTP Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to VMTP Shares and TOBs, minus the sum of accrued liabilities. For a discussion of leveraging techniques utilized by the Trust, please see The Benefits and Risks of Leveraging on page 12.

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

The table below summarizes the changes in the Trust's market price and NAV per share:

	2/29/12	8/31/11	Change	High	Low
Market Price	\$ 15.77	\$ 14.13	11.61%	\$ 16.05	\$13.85
Net Asset Value	\$ 15.38	\$ 13.96	10.17%	\$ 15.40	\$13.96

The following charts show the sector and credit quality allocations of the Trust's long-term investments:

Sector Allocations

	2/29/12	8/31/11
Health	19%	21%
Transportation	17	13
State	16	16
Utilities	14	13
Corporate	9	10
County/City/Special District	9	10
Education	8	8
Tobacco	5	4
Housing	3	5

Credit Quality Allocations⁵

	2/29/12	8/31/11
AAA/Aaa	10%	10%
AA/Aa	34	32
A	27	26
BBB/Baa	17	16
BB/Ba	2	5
B	3	4
Not Rated ⁶	7	7

⁵ Using the higher of S&P's or Moody's ratings.

⁶ The investment advisor has deemed certain of these non-rated securities to be of investment grade quality. As of February 29, 2012 and August 31, 2011, the market value of these securities was \$15,304,944, representing 3%, and \$11,677,703, representing 2%, respectively, of the Trust's long-term investments.

Trust Summary as of February 29, 2012

BlackRock MuniHoldings Investment Quality Fund

Trust Overview

BlackRock MuniHoldings Investment Quality Fund s (MFL) (the Trust) investment objective is to provide shareholders with current income exempt from federal income tax and to provide shareholders with the opportunity to own shares the value of which is exempt from Florida intangible personal property tax. The Trust seeks to achieve its investment objective by investing primarily in long-term, investment grade municipal obligations exempt from federal income taxes (except that the interest may be subject to the federal alternative minimum tax). Under normal market conditions, the Trust invests at least 80% of its assets in municipal obligations with remaining maturities of one year or more at the time of investment. The Trust may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Trust s investment objective will be achieved.

Performance

For the six months ended February 29, 2012, the Trust returned 14.18% based on market price and 13.02% based on NAV. For the same period, the closed-end Lipper General & Insured Municipal Debt Funds (Leveraged) category posted an average return of 14.97% based on market price and 11.83% based on NAV. All returns reflect reinvestment of dividends. The Fund s discount to NAV, which narrowed during the period, accounts for the difference between performance based on price and performance based on NAV. The following discussion relates to performance based on NAV. As the yield curve flattened during the period (longer-term interest rates fell more than shorter-term rates), rising bond prices in the long end of the municipal curve contributed positively to the Trust s performance. The Trust s longer-dated holdings in the health, transportation and education sectors experienced the strongest price appreciation.

The views expressed reflect the opinions of BlackRock as of the date of this report and are subject to change based on changes in market, economic or other conditions. These views are not intended to be a forecast of future events and are no guarantee of future results.

Trust Information

Symbol on NYSE	MFL
Initial Offering Date	September 26, 1997
Yield on Closing Market Price as of February 29, 2012 (\$15.31) ¹	6.00%
Tax Equivalent Yield ²	9.23%
Current Monthly Distribution per Common Share ³	\$0.0765
Current Annualized Distribution per Common Share ³	\$0.9180
Economic Leverage as of February 29, 2012 ⁴	39%

¹ Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

² Tax equivalent yield assumes the maximum federal tax rate of 35%.

³ The distribution rate is not constant and is subject to change.

⁴ Represents VRDP Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to VRDP Shares and TOBs, minus the sum of accrued liabilities. For a discussion of leveraging techniques utilized by the Trust, please see The Benefits and Risks of Leveraging on page 12.

The table below summarizes the changes in the Trust s market price and NAV per share:

2/29/12	8/31/11	Change	High	Low
---------	---------	--------	------	-----

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Market Price	\$ 15.31	\$ 13.84	10.62%	\$ 15.39	\$13.20
Net Asset Value	\$ 15.33	\$ 14.00	9.50%	\$ 15.40	\$14.00

The following charts show the sector and credit quality allocations of the Trust's long-term investments:

Sector Allocations

	2/29/12	8/31/11
Transportation	24%	25%
Utilities	21	25
County/City/Special District/School District	21	18
State	11	10
Health	10	11
Education	9	6
Housing	3	4
Tobacco	1	1

Credit Quality Allocations⁵

	2/29/12	8/31/11
AAA/Aaa	9%	12%
AA/Aa	76	72
A	14	12
BBB/Baa	1	2
Not Rated ⁶		2

⁵ Using the higher of S&P's or Moody's ratings.

⁶ The investment advisor has deemed certain of these non-rated securities to be of investment grade quality. As of February 29, 2012 and August 31, 2011, the market value of these securities was \$1,114,020 and \$3,979,631, each representing less than 1%, respectively, of the Trust's long-term investments.

Trust Summary as of February 29, 2012

BlackRock MuniVest Fund, Inc.

Trust Overview

BlackRock MuniVest Fund, Inc. s (MVF) (the Trust) investment objective is to provide shareholders with as high a level of current income exempt from federal income taxes as is consistent with its investment policies and prudent investment management. The Trust seeks to achieve its investment objective by investing at least 80% of its assets in municipal obligations exempt from federal income taxes (except that the interest may be subject to the federal alternative minimum tax). The Trust invests, under normal market conditions, primarily in long term municipal obligations rated investment grade at the time of investment and invests primarily in long term municipal obligations with maturities of more than ten years at the time of investment. The Trust may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Trust s investment objective will be achieved.

Performance

For the six months ended February 29, 2012, the Trust returned 14.27% based on market price and 11.65% based on NAV. For the same period, the closed-end Lipper General & Insured Municipal Debt Funds (Leveraged) category posted an average return of 14.97% based on market price and 11.83% based on NAV. All returns reflect reinvestment of dividends. The Fund s premium to NAV, which widened during the period, accounts for the difference between performance based on price and performance based on NAV. The following discussion relates to performance based on NAV. During the period, municipal bond prices generally rose as the yield curve flattened (longer-term interest rates fell more than shorter-term rates) and credit spreads tightened. Given these market conditions, the Fund s exposure to longer-maturity bonds and lower-quality investment grade bonds had a significant positive impact on the Fund s performance. The Fund s exposure to zero-coupon bonds and the health sector also boosted returns as these types of bonds derived the greatest benefit from the decline in interest rates and spread tightening during the period.

The views expressed reflect the opinions of BlackRock as of the date of this report and are subject to change based on changes in market, economic or other conditions. These views are not intended to be a forecast of future events and are no guarantee of future results.

Trust Information

Symbol on NYSE Amex	MVF
Initial Offering Date	September 29, 1988
Yield on Closing Market Price as of February 29, 2012 (\$10.73) ¹	6.60%
Tax Equivalent Yield ²	10.15%
Current Monthly Distribution per Common Share ³	\$ 0.0590
Current Annualized Distribution per Common Share ³	\$ 0.7080
Economic Leverage as of February 29, 2012 ⁴	40%

¹ Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

² Tax equivalent yield assumes the maximum federal tax rate of 35%.

³ The distribution rate is not constant and is subject to change.

⁴ Represents VMTP Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to VMTP Shares and TOBs, minus the sum of accrued liabilities. For a discussion of leveraging techniques utilized by the Trust, please see The Benefits and Risks of Leveraging on page 12.

The table below summarizes the changes in the Trust s market price and NAV per share:

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

	2/29/12	8/31/11	Change	High	Low
Market Price	\$ 10.73	\$ 9.73	10.28%	\$ 10.99	\$ 9.63
Net Asset Value	\$ 10.29	\$ 9.55	7.75%	\$ 10.32	\$ 9.55

The following charts show the sector and credit quality allocations of the Trust's long-term investments:

Sector Allocations

	2/29/12	8/31/11
Health	23%	23%
Transportation	19	17
Corporate	12	13
Utilities	12	12
County/City/Special District/School District	9	9
Education	9	9
State	8	8
Housing	6	7
Tobacco	2	2

Credit Quality Allocations⁵

	2/29/12	8/31/11
AAA/Aaa	12%	12%
AA/Aa	47	46
A	24	22
BBB/Baa	14	15
BB/Ba		1
B	1	1
Not Rated ⁶	2	3

⁵ Using the higher of S&P's or Moody's ratings.

⁶ The investment advisor has deemed certain of these non-rated securities to be of investment grade quality. As of February 29, 2012 and August 31, 2011, the market value of these securities was \$19,911,457 and \$22,724,541, each representing 2%, respectively, of the Trust's long-term investments.

The Benefits and Risks of Leveraging

The Trusts may utilize leverage to seek to enhance the yield and NAV of their common shares (Common Shares). However, these objectives cannot be achieved in all interest rate environments.

To obtain leverage, the Trusts issue Variable Rate Demand Preferred Shares (VRDP Shares) or Variable Rate Muni Term Preferred Shares (VMTP Shares) and previously issued and had outstanding Auction Market Preferred Shares (AMPS) (VRDP Shares, VMTP Shares, and as applicable AMPS, are collectively referred to as Preferred Shares). Preferred Shares pay dividends at prevailing short-term interest rates, and the Trusts invest the proceeds in long-term municipal bonds. In general, the concept of leveraging is based on the premise that the financing cost of assets to be obtained from leverage, which will be based on short-term interest rates, will normally be lower than the income earned by each Trust on its longer-term portfolio investments. To the extent that the total assets of each Trust (including the assets obtained from leverage) are invested in higher-yielding portfolio investments, each Trust's shareholders will benefit from the incremental net income.

To illustrate these concepts, assume a Trust's Common Shares capitalization is \$100 million and it issues Preferred Shares for an additional \$50 million, creating a total value of \$150 million available for investment in long-term municipal bonds. If prevailing short-term interest rates are 3% and long-term interest rates are 6%, the yield curve has a strongly positive slope. In this case, the Trust pays dividends on the \$50 million of Preferred Shares based on the lower short-term interest rates. At the same time, the securities purchased by the Trust with assets received from Preferred Shares issuance earn income based on long-term interest rates. In this case, the dividends paid to holders of Preferred Shares (Preferred Shareholders) are significantly lower than the income earned on the Trust's long-term investments, and therefore the Common Shareholders are the beneficiaries of the incremental net income.

If short-term interest rates rise, narrowing the differential between short-term and long-term interest rates, the incremental net income pickup will be reduced or eliminated completely. Furthermore, if prevailing short-term interest rates rise above long-term interest rates, the yield curve has a negative slope. In this case, the Trust pays higher short-term interest rates whereas the Trust's total portfolio earns income based on lower long-term interest rates.

Furthermore, the value of the Trusts' portfolio investments generally varies inversely with the direction of long-term interest rates, although other factors can influence the value of portfolio investments. In contrast, the redemption value of the Trusts' Preferred Shares and/or debt securities does not fluctuate in relation to interest rates. As a result, changes in interest rates can influence the Trusts' NAVs positively or negatively in addition to the impact on Trust performance from leverage from Preferred Shares and borrowings discussed above.

The Trusts may also leverage their assets through the use of tender option bond trusts (TOBs), as described in Note 1 of the Notes to Financial Statements. TOB investments generally will provide the Trusts with economic benefits in periods of declining short-term interest rates, but expose the Trusts to risks during periods of rising short-term interest rates similar to those associated with Preferred Shares issued by the Trusts, as described above. Additionally, fluctuations in the market value of municipal bonds deposited into the TOB trust may adversely affect each Trust's NAV per share.

The use of leverage may enhance opportunities for increased income to the Trusts and Common Shareholders, but as described above, it also creates risks as short- or long-term interest rates fluctuate. Leverage also will generally cause greater changes in the Trusts' NAVs, market prices and dividend rates than comparable portfolios without leverage. If the income derived from securities purchased with assets received from leverage exceeds the cost of leverage, the Trusts' net income will be greater than if leverage had not been used. Conversely, if the income from the securities purchased is not sufficient to cover the cost of leverage, each Trust's net income will be less than if leverage had not been used, and therefore the amount available for distribution to Common Shareholders will be reduced. Each Trust may be required to sell portfolio securities at inopportune times or at distressed values in order to comply with regulatory requirements applicable to the use of leverage or as required by the terms of leverage instruments, which may cause a Trust to incur losses. The use of leverage may limit each Trust's ability to invest in certain types of securities or use certain types of hedging strategies, such as in the case of certain restrictions imposed by rating agencies that rate the Preferred Shares issued by the Trusts. Each Trust will incur expenses in connection with the use of leverage, all of which are borne by the Common Shareholders and may reduce income to the Common Shares.

Under the Investment Company Act of 1940, as amended (the 1940 Act), the Trusts are permitted to issue senior securities in the form of equity securities (e.g., Preferred Shares) up to 50% of their total managed assets (each Trust's net assets plus the proceeds of any outstanding borrowings). In addition, each Trust voluntarily limits its economic leverage to 45% of its total managed assets for Trusts with VRDP Shares or VMTP Shares. As of February 29, 2012, the Trusts had economic leverage from Preferred Shares and/or TOBs as a percentage of their total managed assets as follows:

	Percent of Economic Leverage
BIE	38%
BBK	35%
BAF	35%
BYM	36%
BLE	38%
MFL	39%
MVF	40%

Derivative Financial Instruments

The Trusts may invest in various derivative financial instruments, including financial futures contracts, as specified in Note 2 of the Notes to Financial Statements, which may constitute forms of economic leverage. Such derivative financial instruments are used to obtain exposure to a market without owning or taking physical custody of securities or to hedge market and/or interest rate risks. Derivative financial instruments involve risks, including the imperfect correlation between the value of a derivative financial instrument and the underlying asset, possible default of the counterparty to the transaction or illiquidity of the derivative financial instrument. The Trusts' ability to use a derivative financial instrument successfully depends on the investment advisor's ability to predict pertinent market movements accurately, which cannot be assured. The use of derivative financial instruments may result in losses greater than if they had not been used, may require a Trust to sell or purchase portfolio investments at inopportune times or for distressed values, may limit the amount of appreciation a Trust can realize on an investment, may result in lower dividends paid to shareholders or may cause a Trust to hold an investment that it might otherwise sell. The Trusts' investments in these instruments are discussed in detail in the Notes to Financial Statements.

Schedule of Investments February 29, 2012 (Unaudited)

BlackRock Municipal Bond Investment Trust (BIE)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Alabama 0.3%		
Selma IDB, RB, International Paper Co. Project, Series A, 5.38%, 12/01/35	\$ 145	\$ 151,883
Alaska 0.3%		
Northern Tobacco Securitization Corp., RB, Asset-Backed Series A, 5.00%, 6/01/46	180	131,441
California 10.6%		
California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%, 10/01/38	700	798,672
California Health Facilities Financing Authority, RB, Scripps Health, Series A, 5.00%, 11/15/40	90	97,782
California Health Facilities Financing Authority, Refunding RB, Catholic Healthcare West, Series A, 6.00%, 7/01/39	120	137,341
Grossmont Union High School District, GO, Election of 2008, Series B, 4.75%, 8/01/45	950	998,412
Los Angeles Department of Water & Power, RB, Power System, Sub-Series A-1, 5.25%, 7/01/38	1,660	1,892,782
San Diego Regional Building Authority California, RB, County Operations Center & Annex, Series A, 5.38%, 2/01/36	850	943,067
State of California, GO, Various Purpose, 6.00%, 3/01/33	685	820,048
		5,688,104
Colorado 1.2%		
Colorado Health Facilities Authority, Refunding RB, Catholic Healthcare, Series A, 5.50%, 7/01/34	580	640,256
Delaware 1.3%		
County of Sussex Delaware, RB, NRG Energy, Inc., Indian River Project, 6.00%, 10/01/40	655	705,468
District of Columbia 1.4%		
District of Columbia Water & Sewer Authority, RB, Series A, 5.25%, 10/01/29	640	747,418
Florida 1.7%		
Orange County Health Facilities Authority, RB, The Nemours Foundation Project, Series A, 5.00%, 1/01/29	415	453,076
Village Community Development District No. 9, RB, Special Assessment Revenue, 5.25%, 5/01/31	475	480,491
		933,567
Municipal Bonds		
Georgia 1.2%		
Municipal Electric Authority of Georgia, Refunding RB, Project One, Sub-Series D, 6.00%, 1/01/23	\$ 555	\$ 667,837
Illinois 11.7%		
Chicago Board of Education Illinois, GO, Series A: 5.50%, 12/01/39	500	566,100
5.00%, 12/01/41	565	609,285

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Chicago Transit Authority, RB, Sales Tax Receipts Revenue, 5.25%, 12/01/36	165	183,629
City of Chicago Illinois, RB:		
O Hare International Airport Revenue, General, Third Lien, Series C, (AGM), 6.50%, 1/01/41	1,590	1,913,629
Sales Tax Revenue, Series A, 5.25%, 1/01/38	205	229,737
Illinois Finance Authority, RB:		
Carle Foundation, Series A, 6.00%, 8/15/41	750	823,162
Navistar International, Recovery Zone, 6.50%, 10/15/40	270	289,478
Northwestern Memorial Hospital, 6.00%, 8/15/39	1,000	1,148,040
Railsplitter Tobacco Settlement Authority, RB:		
5.50%, 6/01/23	365	420,400
6.00%, 6/01/28	105	117,482
		6,300,942
Indiana 5.4%		
Indiana Finance Authority Wastewater Utility, RB, First Lien, CWA Authority Project, Series A, 5.25%, 10/01/31	770	880,965
Indiana Municipal Power Agency, RB, Series B, 6.00%, 1/01/39	1,190	1,353,208
Indianapolis Local Public Improvement Bond Bank, RB, Series K (AGM), 5.00%, 6/01/25	605	688,599
		2,922,772
Iowa 0.2%		
Iowa Tobacco Settlement Authority, RB, Asset-Backed, Series C, 5.63%, 6/01/46	140	107,930
Kansas 1.9%		
Kansas Development Finance Authority, Refunding RB, Adventist Health, 5.50%, 11/15/29	900	1,038,420
Kentucky 3.8%		
Kentucky Economic Development Finance Authority, RB, Owensboro Medical Health System, Series A, 6.38%, 6/01/40	350	392,501

Portfolio Abbreviations

To simplify the listings of portfolio holdings in the Schedules of Investments, the names and descriptions of many of the securities have been abbreviated according to the following list:

AGC	Assured Guaranty Corp.
AGM	Assured Guaranty Municipal Corp.
AMBAC	American Municipal Bond Assurance Corp.
AMT	Alternative Minimum Tax (subject to)
BHAC	Berkshire Hathaway Assurance Corp.
CAB	Capital Appreciation Bonds
CIFG	CDC IXIS Financial Guaranty
COP	Certificates of Participation
EDA	Economic Development Authority
EDC	Economic Development Corp.
ERB	Education Revenue Bonds
FGIC	Financial Guaranty Insurance Co.
FHA	Federal Housing Administration
GARB	General Airport Revenue Bonds
GO	General Obligation Bonds
HDA	Housing Development Authority
HFA	Housing Finance Agency
HRB	Housing Revenue Bonds
IDA	Industrial Development Authority

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

IDB	Industrial Development Board
ISD	Independent School District
MRB	Mortgage Revenue Bonds
NPFGC	National Public Finance Guarantee Corp.
PSF-GTD	Permanent School Fund Guaranteed
Q-SBLF	Qualified School Bond Loan Fund
RB	Revenue Bonds
S/F	Single Family
SBPA	Stand-by Purchase Agreement
VRDN	Variable Rate Demand Notes

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

13

Schedule of Investments (continued)

BlackRock Municipal Bond Investment Trust (BIE)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Kentucky (concluded)		
Louisville & Jefferson County Metropolitan Government, RB, Jewish Hospital & St. Mary's HealthCare, 6.13%, 2/01/37	\$ 675	\$ 723,114
Louisville & Jefferson County Metropolitan Government Parking Authority, RB, Series A, 5.75%, 12/01/34	800	928,360
		2,043,975
Louisiana 0.8%		
Louisiana Local Government Environmental Facilities & Community Development Authority, RB, Westlake Chemical Corp., Series A-1, 6.50%, 11/01/35	380	424,498
Maine 1.5%		
Maine Health & Higher Educational Facilities Authority, RB, Maine General Medical Center, 7.50%, 7/01/32	675	776,763
Massachusetts 1.3%		
Massachusetts Development Finance Agency, Refunding RB, Trustees of Deerfield Academy, 5.00%, 10/01/40	375	427,144
Massachusetts State College Building Authority, RB, Series A, 5.50%, 5/01/39	250	279,777
		706,921
Michigan 3.4%		
Lansing Board of Water & Light, RB, Series A, 5.50%, 7/01/41	485	561,678
Michigan State Building Authority, Refunding RB, Facilities Program, Series I, 6.00%, 10/15/38	500	570,175
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	530	667,599
		1,799,452
Multi-State 6.1%		
Centerline Equity Issuer Trust, 7.20%, 11/15/52 (a)(b)	3,000	3,274,380
Nevada 7.9%		
City of Las Vegas Nevada, GO, Limited Tax, Performing Arts Center, 6.00%, 4/01/34	1,000	1,162,530
County of Clark Nevada, RB: Motor Vehicle Fuel Tax, 5.00%, 7/01/28	1,130	1,265,193
Series B, 5.75%, 7/01/42	1,630	1,827,214
		4,254,937
New Jersey 7.1%		
New Jersey EDA, Refunding RB, School Facilities Construction, Series AA, 5.50%, 12/15/29	750	850,433
New Jersey State Housing & Mortgage Finance Agency, RB, S/F Housing, Series CC, 5.25%, 10/01/29	620	665,818
New Jersey Transportation Trust Fund Authority, RB, Transportation System: Series A, 5.88%, 12/15/38	695	794,906
Series A, 5.50%, 6/15/41	500	571,055
Series B, 5.25%, 6/15/36	850	952,068
		3,834,280
New York 6.9%		

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Hudson New York Yards Infrastructure Corp., RB, Series A, 5.75%, 2/15/47	145	163,833
New York City Transitional Finance Authority, RB: Building Aid, Sub-Series 1A, 5.25%, 7/15/37	1,000	1,130,290
Fiscal 2009, Series S-3, 5.25%, 1/15/39	1,000	1,098,420
New York Liberty Development Corp., Refunding RB, Second Priority, Bank of America Tower at One Bryant Park Project, 6.38%, 7/15/49	325	352,680
Triborough Bridge & Tunnel Authority, RB, General, Series A-2, 5.38%, 11/15/38	840	952,770
		3,697,993

Municipal Bonds	Par (000)	Value
Pennsylvania 8.1%		
Pennsylvania Economic Development Financing Authority, RB, American Water Co. Project, 6.20%, 4/01/39	\$ 300	\$ 346,380
Pennsylvania Turnpike Commission, RB: Sub-Series A, 5.63%, 12/01/31	1,000	1,135,580
Sub-Series A, 6.00%, 12/01/41	1,500	1,663,440
Sub-Series C (AGC), 6.25%, 6/01/38	500	594,895
Philadelphia Hospitals & Higher Education Facilities Authority, RB, Children s Hospital of Philadelphia, Series D, 5.00%, 7/01/32	575	635,939
		4,376,234
Texas 12.0%		
Central Texas Regional Mobility Authority, RB, Senior Lien, 6.00%, 1/01/41	890	954,863
Conroe ISD Texas, GO, School Building, Series A, 5.75%, 2/15/35	470	573,499
Harris County Cultural Education Facilities Finance Corp., RB, Texas Children s Hospital Project, 5.25%, 10/01/29	340	387,607
Harris County Health Facilities Development Corp., Refunding RB, Memorial Hermann Healthcare System, Series B, 7.13%, 12/01/31	250	301,412
Lamar Texas Consolidated Independent School District, GO, Refunding RB, Schoolhouse Improvements, Series A, 5.00%, 2/15/45 (c)	350	395,083
North Texas Tollway Authority, RB, Special Projects System, Series A, 5.50%, 9/01/41	900	1,035,837
North Texas Tollway Authority, Refunding RB, System, First Tier, Series K-1 (AGC), 5.75%, 1/01/38	250	279,743
Tarrant County Cultural Education Facilities Finance Corp., RB, Scott & White Healthcare, 6.00%, 8/15/45	1,020	1,165,982
Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien, NTE Mobility Partners LLC, North Tarrant Express Managed Lanes Project, 6.88%, 12/31/39	500	566,705
University of Texas System, Refunding RB, Financing System Bonds, Series B, 5.00%, 8/15/43 (c)	715	820,420
		6,481,151
Virginia 1.6%		
Virginia Public School Authority, RB, School Financing, 6.50%, 12/01/35	750	882,300
Washington 3.7%		
Port of Seattle, Refunding RB, Intermediate Lien, Series A, 5.00%, 8/01/32 (c)	1,000	1,137,520
	730	829,703

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

University of Washington, Refunding, RB, Series A, 5.00%, 7/01/41 (c)		1,967,223
Wisconsin 1.8%		
Wisconsin Health & Educational Facilities Authority, RB, Froedtert & Community Health, 5.25%, 4/01/39	890	962,615
Total Municipal Bonds 103.2%		55,518,760

See Notes to Financial Statements.

Schedule of Investments (continued)

BlackRock Municipal Bond Investment Trust (BIE)
(Percentages shown are based on Net Assets)

Municipal Bonds Transferred to Tender Option Bond Trusts (d)	Par (000)	Value
California 19.3%		
California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%, 10/01/39	\$ 1,005	\$ 1,133,489
Grossmont Union High School District, GO, Election of 2008, Series B, 5.00%, 8/01/40	1,300	1,419,340
Los Angeles Community College District California, GO, Election of 2008:		
Series A, 6.00%, 8/01/33	2,079	2,482,119
Series C, 5.25%, 8/01/39	1,410	1,616,283
Los Angeles Unified School District California, GO, Series I, 5.00%, 1/01/34	200	221,030
San Diego Public Facilities Financing Authority, Refunding RB, Series B, 5.50%, 8/01/39	2,234	2,571,339
University of California, RB, Series O, 5.75%, 5/15/34	810	947,141
		10,390,741
District of Columbia 3.5%		
District of Columbia, RB, Series A, 5.50%, 12/01/30	735	879,810
District of Columbia Water & Sewer Authority, RB, Series A, 5.50%, 10/01/39	899	1,016,294
		1,896,104
Illinois 7.4%		
Illinois Finance Authority, RB, University of Chicago, Series B, 6.25%, 7/01/38	1,500	1,773,735
Illinois State Toll Highway Authority, RB, Series B, 5.50%, 1/01/33	2,000	2,190,333
		3,964,068
Massachusetts 1.6%		
Massachusetts School Building Authority, RB, Senior Lien, Series B, 5.00%, 10/15/41	790	886,807
Nevada 3.2%		
Clark County Water Reclamation District, GO, Limited Tax, 6.00%, 7/01/38	1,500	1,743,840
New Hampshire 1.2%		
New Hampshire Health & Education Facilities Authority, Refunding RB, Dartmouth College, 5.25%, 6/01/39	585	664,618
New Jersey 2.0%		
New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series A (AGM), 5.00%, 12/15/32	1,000	1,079,640
New York 9.7%		
New York City Municipal Water Finance Authority, RB: Fiscal 2009, Series A, 5.75%, 6/15/40	750	870,539
Series FF-2, 5.50%, 6/15/40	990	1,141,631
New York State Dormitory Authority, ERB, Series B, 5.25%, 3/15/38	1,000	1,111,700
New York State Liberty Development Corp., RB, 1 World Trade Center Project, 5.25%, 12/15/43	1,170	1,312,681
New York State Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51	680	772,596
		5,209,147
Ohio 1.7%		

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

County of Allen Ohio, Refunding RB, Catholic Healthcare, Series A, 5.25%, 6/01/38	840	894,902
Puerto Rico 1.0%		
Puerto Rico Sales Tax Financing Corp., RB, Sales Tax Revenue, Series C, 5.25%, 8/01/40	460	510,858
South Carolina 2.1%		
South Carolina State Public Service Authority, RB, Santee Cooper, Series A, 5.50%, 1/01/38	1,005	1,138,665

Municipal Bonds Transferred to Tender Option Bond Trusts (d)	Par (000)	Value
Texas 5.2%		
City of San Antonio Texas, Refunding RB, Series A, 5.25%, 2/01/31	\$ 1,050	\$ 1,205,613
Harris County Cultural Education Facilities Finance Corp., RB, Hospital, Texas Children s Hospital Project, 5.50%, 10/01/39	1,450	1,616,199
		2,821,812
Virginia 1.0%		
Fairfax County IDA Virginia, Refunding RB, Health Care, Inova Health System, Series A, 5.50%, 5/15/35	460	512,868
Total Municipal Bonds Transferred to Tender Option Bond Trusts 58.9%		31,714,070
Total Long-Term Investments (Cost \$78,705,048) 162.1%		87,232,830

Short-Term Securities	Shares	
FFI Institutional Tax-Exempt Fund, 0.01% (e)(f)	3,025,425	3,025,425
Total Short-Term Securities (Cost \$3,025,425) 5.6%		3,025,425
Total Investments (Cost \$81,730,473) 167.7%		90,258,255
Liabilities in Excess of Other Assets (5.2)%		(2,808,624)
Liability for TOB Trust Certificates, Including Interest		
Expense and Fees Payable (29.4)%		(15,825,594)
VRDP Shares, at Liquidation Value (33.1)%		(17,800,000)
Net Assets Applicable to Common Shares 100.0%		\$ 53,824,037

- (a) Security represents a beneficial interest in a trust. The collateral deposited into the trust is federally tax-exempt revenue bonds issued by various state or local governments, or their respective agencies or authorities. The security is subject to remarketing prior to its stated maturity.
- (b) Security exempt from registration pursuant to Rule 144A under the Securities Act of 1933. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (c) When-issued security. Unsettled when-issued transactions were as follows:

Counterparty	Value	Unrealized Appreciation
Barclays Capital Inc.	\$ 829,703	\$ 5,606
JPMorgan Securities	\$ 1,137,520	\$ 3,280
Morgan Keegan & Co.	\$ 395,083	\$ 1,491
Morgan Stanley Co.	\$ 820,420	\$ 7,279

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

- (d) Securities represent bonds transferred to a TOB in exchange for which the Trust acquired residual interest certificates. These securities serve as collateral in a financing transaction. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to TOBs.
- (e) Investments in companies considered to be an affiliate of the Trust during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

Affiliate	Shares Held at August 31, 2011	Net Activity	Shares Held at February 29, 2012	Income
FFI Institutional Tax-Exempt Fund	2,198,525	826,900	3,025,425	\$ 231

- (f) Represents the current yield as of report date.

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

15

Schedule of Investments (concluded)

BlackRock Municipal Bond Investment Trust (BIE)

Financial futures contracts sold as of February 29, 2012 were as follows:

Contracts	Issue	Exchange	Expiration	Notional Value	Unrealized Depreciation
18	10-Year US Treasury Note	Chicago Board of Trade	March 2012	\$ 2,362,781	\$ (13,815)

Fair Value Measurements Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs are categorized into a disclosure hierarchy consisting of three broad levels for financial statement purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities

Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust's own assumptions used in determining the fair value of investments and derivative financial instruments)

Changes in valuation techniques may result in transfers in or out of an assigned level within the disclosure hierarchy. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investment and derivative financial instrument and does not necessarily correspond to the Trust's perceived risk of investing in those securities. For information about the Trust's policy regarding valuation of investments and derivative financial instruments and other significant accounting policies, please refer to Note 1 of the Notes to Financial Statements.

The following tables summarize the inputs used as of February 29, 2012 in determining the fair valuation of the Trust's investments and derivative financial instruments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments ¹		\$ 87,232,830		\$ 87,232,830
Short-Term Securities	\$ 3,025,425			3,025,425
Total	\$ 3,025,425	\$ 87,232,830		\$ 90,258,255

¹ See above Schedule of Investments for values in each state or political subdivision.

Valuation Inputs	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments ²				
Liabilities:				
Interest rate contracts	\$ (13,815)			\$ (13,815)

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

- ² Derivative financial instruments are financial futures contracts, which are valued at the unrealized appreciation/depreciation on the instrument.

See Notes to Financial Statements.

16

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

Schedule of Investments February 29, 2012 (Unaudited)

BlackRock Municipal Bond Trust (BBK)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Alabama 4.1%		
Birmingham Special Care Facilities Financing Authority, RB, Children s Hospital (AGC):		
6.00%, 6/01/34	\$ 1,150	\$ 1,321,614
6.00%, 6/01/39	450	514,256
Birmingham Water Works Board, RB, 4.75%, 1/01/36	2,100	2,214,597
Hoover City Board of Education, GO, Refunding, 4.25%, 2/15/40	2,750	2,857,277
		6,907,744
Arizona 8.4%		
Arizona Sports & Tourism Authority, RB, Multipurpose Stadium Facilities, Series A (NPFGC), 5.00%, 7/01/31	1,750	1,764,315
Arizona State University, RB, Series D, 5.50%, 7/01/26	200	240,894
County of Pinal Arizona Election District No. 3, Refunding RB, 4.75%, 7/01/31	3,750	3,955,237
Mohave County Unified School District No. 20 Kingman, GO, School Improvement Project of 2006, Series C (AGC), 5.00%, 7/01/26	200	225,954
Pima County IDA, Refunding IRDB, Tucson Electric Power, 5.75%, 9/01/29	900	940,212
Salt Verde Financial Corp., RB, Senior:		
5.00%, 12/01/32	1,500	1,509,540
5.00%, 12/01/37	2,065	2,064,835
San Luis Facility Development Corp., RB, Senior Lien, Regional Detention Center Project:		
6.25%, 5/01/15	245	240,597
7.00%, 5/01/20	300	300,513
7.25%, 5/01/27	600	553,608
State of Arizona, COP, Department of Administration, Series A (AGM), 5.00%, 10/01/29	750	821,768
University Medical Center Corp. Arizona, RB:		
6.00%, 7/01/39	900	996,165
6.50%, 7/01/39	500	566,885
		14,180,523
California 17.9%		
California County Tobacco Securitization Agency, RB, CAB, Stanislaus, Sub-Series C, 6.30%, 6/01/55 (a)	4,500	52,470
California Educational Facilities Authority, RB, Santa Clara University, 5.00%, 2/01/40	1,000	1,092,120
California Health Facilities Financing Authority, Refunding RB, Sutter Health, Series B, 5.88%, 8/15/31	1,900	2,249,353
California HFA, RB, Home Mortgage, Series G, AMT, 5.05%, 2/01/29	2,285	2,194,468
Carlsbad Unified School District, GO, Election of 2006, Series B, 6.09%, 5/01/34 (b)	1,000	741,600
City of San Jose California, RB, San Jose Airport, Series A1, AMT, 5.75%, 3/01/34	2,000	2,206,800
Dinuba Unified School District, GO, Election of 2006 (AGM):		

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

5.63%, 8/01/31	250	286,740
5.75%, 8/01/33	500	576,135
Hartnell Community College District California, GO, CAB, Election of 2002, Series D, 7.46%, 8/01/34 (b)	1,650	1,089,611
Norwalk-La Mirada Unified School District California, GO, CAB, Election of 2002, Series E (AGC), 6.47%, 8/01/38 (a)	8,000	1,873,600
Palomar Community College District, GO, CAB, Election of 2006, Series B:		
6.09%, 8/01/30 (a)	1,500	614,865
6.15%, 8/01/33 (a)	4,000	1,100,040
6.44%, 8/01/39 (b)	2,000	1,066,180
San Diego Community College District California, GO, CAB, Election of 2002, 6.24%, 8/01/19 (b)	2,800	2,095,772

	Par (000)	Value
Municipal Bonds		
California (concluded)		
San Jose Evergreen Community College District, GO, Election of 2010, Series B, 3.50%, 8/01/32	\$ 1,200	\$ 1,165,788
State of California, GO, Various Purpose:		
5.75%, 4/01/31	2,000	2,330,760
6.00%, 3/01/33	1,000	1,197,150
6.50%, 4/01/33	1,950	2,398,246
5.50%, 3/01/40	2,350	2,604,716
State of California, GO, Refunding:		
(CIFG), 4.50%, 8/01/28	500	523,335
Veterans, AMT, 5.05%, 12/01/36	1,000	1,015,200
Val Verde Unified School District California, Special Tax Bonds, Refunding, Junior Lien, 6.25%, 10/01/28	1,585	1,616,431
		30,091,380
Colorado 1.2%		
Colorado Health Facilities Authority, RB, Catholic Health Initiatives, Series D, 6.25%, 10/01/33	1,070	1,241,767
Park Creek Metropolitan District, Refunding RB, Limited Property Tax (AGM), 6.00%, 12/01/38	750	850,350
		2,092,117
Connecticut 2.3%		
Connecticut State Health & Educational Facilities Authority, RB:		
Hartford Healthcare, Series A, 5.00%, 7/01/32	1,390	1,491,762
Lawrence & Memorial Hospital, Series F, 5.00%, 7/01/36	1,100	1,163,855
Sacred Heart University, Series G, 5.38%, 7/01/31	400	435,976
Western Connecticut Health, Series M, 5.38%, 7/01/41	700	762,391
		3,853,984
Delaware 0.8%		
County of Sussex Delaware, RB, NRG Energy, Inc., Indian River Project, 6.00%, 10/01/40	1,200	1,292,460
District of Columbia 1.5%		
District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.75%, 5/15/40	2,500	2,521,325
Florida 6.1%		
County of Lee Florida, Refunding RB, Lee Airport, Series A, AMT (AGM), 5.00%, 10/01/28	2,000	2,141,580
Palm Beach County Housing Finance Authority, HRB, Indian Trace Apartments, Series A, AMT (AGM), 5.63%, 1/01/44	7,255	7,259,643
Stevens Plantation Community Development District, Special Assessment Bonds, Series A, 7.10%,	925	791,338

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

5/01/35		10,192,561
Idaho 1.2%		
Idaho Health Facilities Authority, Refunding RB, Trinity Health Group, Series B, 6.25%, 12/01/33	1,750	2,066,033
Illinois 7.5%		
Chicago Transit Authority, RB, 5.25%, 12/01/40	665	738,369
Illinois Finance Authority, RB:		
MJH Education Assistance IV LLC, Sub-Series B, 5.38%, 6/01/35 (c)(d)	425	42,500
Navistar International, Recovery Zone, 6.50%, 10/15/40	1,285	1,377,700
Roosevelt University Project, 6.50%, 4/01/44	1,000	1,086,480
Rush University Medical Center, Series C, 6.63%, 11/01/39	650	770,569
Illinois Finance Authority, Refunding RB, Series A:		
Friendship Village Schaumburg, 5.63%, 2/15/37	210	180,655
OSF Healthcare System, 6.00%, 5/15/39	1,040	1,164,966
Railsplitter Tobacco Settlement Authority, RB:		
6.25%, 6/01/24	1,000	1,114,910
6.00%, 6/01/28	1,150	1,286,712

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

17

Schedule of Investments (continued)

BlackRock Municipal Bond Trust (BBK)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Illinois (concluded)		
Village of Bolingbrook Illinois, GO, Refunding, Series B (NPFGC), 6.23%, 1/01/36 (a)	\$ 21,065	\$ 4,858,221
		12,621,082
Indiana 1.9%		
Indiana Finance Authority, Refunding RB: 5.25%, 10/01/38	2,000	2,226,060
Improvement, U.S. Steel Corp., 6.00%, 12/01/26	1,000	1,020,090
		3,246,150
Iowa 1.5%		
Iowa Higher Education Loan Authority, RB, Private College Facility, Buena Vista University Project, 5.00%, 4/01/31	875	951,528
Iowa Higher Education Loan Authority, Refunding RB, Private College Facility: 5.75%, 9/01/30	500	536,460
6.00%, 9/01/39	1,000	1,049,030
		2,537,018
Louisiana 2.5%		
Jefferson Parish Hospital Service District No. 1, Refunding RB, West Jefferson Medical Center, Series A (AGM), 6.00%, 1/01/39	1,450	1,610,428
Louisiana Local Government Environmental Facilities & Community Development Authority, RB, Westlake Chemical Corp, Series A-1, 6.50%, 11/01/35	1,050	1,172,955
Louisiana Public Facilities Authority, RB, Belle Chasse Educational Foundation Project, 6.50%, 5/01/31	400	433,872
Louisiana Public Facilities Authority, Refunding RB, Entergy Gulf States Louisiana, LLC Project, Series A, 5.00%, 9/01/28	1,000	1,049,080
		4,266,335
Maryland 1.9%		
Maryland EDC, Refunding RB, CNX Marine Terminals, Inc., 5.75%, 9/01/25	250	259,597
Maryland Health & Higher Educational Facilities Authority, Refunding RB, Doctor s Community Hospital, 5.63%, 7/01/30	2,900	3,010,113
		3,269,710
Michigan 3.4%		
Michigan State Building Authority, Refunding RB, Facilities Program, Series I, 6.25%, 10/15/38	1,250	1,444,113
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	1,950	2,456,259
Wayne County Airport Authority, Refunding RB, Airport Revenue, Series A (AGM), 4.00%, 12/01/20	1,750	1,813,682
		5,714,054
Minnesota 4.3%		
City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series B (AGC), 6.50%, 11/15/38	5,350	6,291,760

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Tobacco Securitization Authority Minnesota, Refunding RB, Tobacco Settlement, Series B, 5.25%, 3/01/31	800	870,088
		7,161,848

Mississippi 3.4%

Mississippi Development Bank, RB, Hinds Community College District, CAB (AGM), 5.00%, 4/01/36	845	916,876
Mississippi Development Bank Special Obligation, RB, Jackson County Limited Tax Note (AGC), 5.50%, 7/01/32	1,750	1,965,075
University of Southern Mississippi, RB, Campus Facilities Improvements Project, 5.38%, 9/01/36	2,100	2,347,653

Municipal Bonds	Par (000)	Value
Mississippi (concluded)		
Warren County Mississippi, RB, Gulf Opportunity Zone Bonds (International Paper Company Project), Series A, AMT, 5.38%, 12/01/35	\$ 400	\$ 419,308
		5,648,912

Missouri 1.7%

Missouri State Development Finance Board, RB, St. Joseph Sewage System Improvements, 5.25%, 5/01/31	580	611,053
Missouri State Health & Educational Facilities Authority, RB:		
A.T. Still University Health Sciences, 5.25%, 10/01/31	500	542,300
A.T. Still University Health Sciences, 5.25%, 10/01/41	650	693,869
Lutheran Senior Services, 6.00%, 2/01/41	1,000	1,069,000
		2,916,222

Montana 0.8%

Montana Facility Finance Authority, Refunding RB, Sisters of Leavenworth, Series A, 4.75%, 1/01/40	1,350	1,431,473
---	-------	-----------

Multi-State 6.8%

Centerline Equity Issuer Trust, 7.20%, 11/15/52 (e)(f)	10,500	11,460,330
--	--------	------------

Nebraska 2.3%

Nebraska Investment Finance Authority, Refunding RB, Series A, 6.05%, 9/01/41	990	1,054,172
Omaha Nebraska Sanitation Sewer Revenue, RB, System:		
4.25%, 11/15/38	1,890	1,978,792
4.25%, 11/15/41	775	808,185
		3,841,149

Nevada 1.1%

City of Las Vegas Nevada, Special Assessment Bonds, Summerlin Area, 5.65%, 6/01/23	1,295	1,218,763
County of Clark Nevada, Refunding RB, Alexander Dawson School Nevada Project, 5.00%, 5/15/29	575	602,497
		1,821,260

New Jersey 14.2%

Middlesex County Improvement Authority, RB, Subordinate, Heldrich Center Hotel, Series B, 6.25%, 1/01/37 (c)(d)	915	81,893
New Jersey EDA, RB:		
Cigarette Tax, 5.50%, 6/15/24	3,710	3,730,553
Continental Airlines Inc. Project, AMT, 7.20%, 11/15/30 (g)	3,000	3,003,780
New Jersey EDA, Refunding RB, First Mortgage, Winchester, Series A, 5.80%, 11/01/31	1,500	1,534,965
New Jersey EDA, Special Assessment Bonds, Refunding, Kapkowski Road Landfill Project,	7,500	8,319,075

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

6.50%, 4/01/28		
New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B:		
7.13%, 12/01/23	630	778,037
7.50%, 12/01/32	800	976,448
New Jersey Health Care Facilities Financing Authority, Refunding RB, Barnabas Health, Series A:		
4.63%, 7/01/23	510	516,145
5.63%, 7/01/37	1,700	1,791,358
New Jersey State Housing & Mortgage Finance Agency, RB, Series AA, 6.50%, 10/01/38	615	664,483
New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series B, 5.25%, 6/15/36	1,900	2,128,152
Union County Utilities Authority, Refunding RB, County Deficiency Agreement, Series A:		
4.00%, 6/15/32	250	262,510
5.00%, 6/15/41	95	106,219
		23,893,618

See Notes to Financial Statements.

Schedule of Investments (continued)

BlackRock Municipal Bond Trust (BBK)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
New York 5.8%		
Albany Industrial Development Agency, RB, New Covenant Charter School Project, Series A, 7.00%, 5/01/35 (c)(d)	\$ 455	\$ 104,659
Hudson New York Yards Infrastructure Corp., RB, Series A: 5.00%, 2/15/47	250	257,255
(FGIC), 5.00%, 2/15/47	1,000	1,029,020
(NPFGC), 4.50%, 2/15/47	750	738,293
New York City Industrial Development Agency, RB, American Airlines Inc., JFK International Airport, AMT, 7.75%, 8/01/31 (c)(d)(g)	3,165	2,990,925
New York Convention Center Development Corp., RB (AMBAC), 4.75%, 11/15/45	1,000	1,007,710
New York Liberty Development Corp., Refunding RB, Second Priority, Bank of America Tower at One Bryant Park Project, 6.38%, 7/15/49	800	868,136
New York State Dormitory Authority, RB, Rochester Institute of Technology, Series A, 6.00%, 7/01/33	1,000	1,169,450
Westchester County Healthcare Corp. New York, RB, Senior Lien, Series A, Remarketing, 5.00%, 11/01/30	1,500	1,581,075
		9,746,523
North Carolina 5.4%		
City of Charlotte North Carolina, Refunding RB, Series A, 5.50%, 7/01/34	225	256,592
Gaston County Industrial Facilities & Pollution Control Financing Authority North Carolina, RB, Exempt Facilities, National Gypsum Co. Project, AMT, 5.75%, 8/01/35	2,945	2,413,486
North Carolina Capital Facilities Finance Agency, RB, Duke Energy Carolinas, Series B, 4.38%, 10/01/31	1,000	1,050,750
North Carolina Medical Care Commission, RB, Novant Health Obligation, Series A, 4.75%, 11/01/43	4,450	4,519,287
North Carolina Medical Care Commission, Refunding RB, University Health System, Series D, 6.25%, 12/01/33	800	926,600
		9,166,715
Oklahoma 0.5%		
Tulsa Airports Improvement Trust, RB, Series A, Mandatory Put Bonds, AMT, 7.75%, 6/01/35 (c)(d)(g)	1,025	793,852
Oregon 1.7%		
City of Portland Oregon, Multifamily Housing Revenue Bond Pass-Through Certificates, RB, Pacific Tower Apartments, Series 6, AMT, 6.05%, 11/01/34	505	505,146
Oregon Health & Science University, RB, Series A, 5.75%, 7/01/39	750	852,630
Oregon State Facilities Authority, Refunding RB, Limited College Project, Series A: 5.00%, 10/01/34	850	916,368
5.25%, 10/01/40	500	541,635

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

		2,815,779
Pennsylvania 4.0%		
County of Allegheny Pennsylvania IDA, Refunding RB, U.S. Steel Corp. Project, 6.55%, 12/01/27	1,695	1,800,192
Delaware River Port Authority, RB, Series D (AGM), 5.00%, 1/01/40	2,600	2,798,718
Pennsylvania Economic Development Financing Authority, RB, Aqua Pennsylvania Inc. Project, Series B, 4.50%, 12/01/42	2,000	2,094,220
		6,693,130

	Par (000)	Value
Municipal Bonds		
Puerto Rico 1.4%		
Puerto Rico Sales Tax Financing Corp., RB, CAB, Series A, 5.70%, 8/01/35 (a)	\$ 1,000	\$ 278,690
Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A, 5.75%, 8/01/37	1,000	1,117,510
Puerto Rico Sales Tax Financing Corp., Refunding RB, CAB, Series A (NPFGC), 5.73%, 8/01/41 (a)	5,000	1,001,600
		2,397,800

Rhode Island 1.3%		
Rhode Island Health & Educational Building Corp., RB, Hospital Financing, LifeSpan Obligation, Series A (AGC), 7.00%, 5/15/39	1,000	1,190,110
State of Rhode Island, COP, Series C, School for the Deaf (AGC), 5.38%, 4/01/28	900	1,014,129
		2,204,239

South Dakota 0.9%		
State of South Dakota Board of Regents Housing & Auxiliary Facility System Revenue, RB, 4.25%, 4/01/33	1,535	1,605,410

Tennessee 0.2%		
Memphis-Shelby County Sports Authority Inc., Refunding RB, Memphis Arena Project, Series A, 5.38%, 11/01/28	275	305,896

Texas 13.4%		
Harris County Health Facilities Development Corp., Refunding RB, Memorial Hermann Healthcare System, Series B: 7.13%, 12/01/31	500	602,825
7.25%, 12/01/35	1,750	2,090,498
Harris County Metropolitan Transit Authority Sales and Use Tax, RB, Series A, 5.00%, 11/01/36	940	1,058,919
Harris County-Houston Sports Authority, Refunding RB, CAB, Senior Lien, Series G (NPFGC), 6.18%, 11/15/41 (a)	11,690	1,717,612
Matagorda County Navigation District No. 1 Texas, Refunding RB, Central Power & Light Co. Project, Series A, 6.30%, 11/01/29	1,500	1,722,270
Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien, LBJ Infrastructure Group LLC, LBJ Freeway Managed Lanes Project, 7.00%, 6/30/40	2,000	2,274,160
Texas State Turnpike Authority, RB (AMBAC): CAB, 6.08%, 8/15/35 (a)	50,000	12,308,500
First Tier, Series A, 5.00%, 8/15/42	750	750,375
		22,525,159

Vermont 1.0%		
Vermont Educational & Health Buildings Financing Agency, RB, Hospital, Fletcher Allen Health, Series A,	1,600	1,606,640

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

4.75%, 12/01/36		
Virginia 0.1%		
Roanoke Economic Development Authority, RB, Carilion Clinic Obligated Group, 4.00%, 7/01/29	160	160,938
Washington 1.9%		
City of Lynnwood, GO (AGO), 4.00%, 12/01/37	1,600	1,597,360
Washington Health Care Facilities Authority, RB, MultiCare Health System, Series B (AGC), 6.00%, 8/15/39	1,400	1,588,132
		3,185,492
West Virginia 0.7%		
West Virginia State University, RB, West Virginia University Projects, Series B, 5.00%, 10/01/36	1,100	1,242,956

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

19

Schedule of Investments (concluded)

BlackRock Municipal Bond Trust (BBK)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Wisconsin 0.7%		
Wisconsin State Health & Educational Facilities Authority, RB, Aurora Health Care, Series A, 4.00%, 7/15/28	\$ 1,215	\$ 1,202,000
Wyoming 0.8%		
County of Sweetwater Wyoming, Refunding RB, Idaho Power Co. Project, 5.25%, 7/15/26	1,200	1,372,740
Total Municipal Bonds 136.6%		230,052,557
Municipal Bonds Transferred to Tender Option Bond Trusts (h)		
Colorado 2.3%		
Colorado Health Facilities Authority, RB, Catholic Health, Series C-7 (AGM), 5.00%, 9/01/36	3,750	3,940,537
Massachusetts 1.0%		
Massachusetts Water Resources Authority, Refunding RB, General, Series A, 5.00%, 8/01/41	1,450	1,592,724
New York 7.3%		
Hudson Yards Infrastructure Corp., RB, 5.75%, 2/15/47	2,500	2,824,461
New York City Municipal Water Finance Authority, RB: Fiscal 2009, Series A, 5.75%, 6/15/40	450	522,323
Series FF-2, 5.50%, 6/15/40	405	467,031
New York City Municipal Water Finance Authority, Refunding RB, Series A, 4.75%, 6/15/30	3,000	3,262,770
New York Liberty Development Corp., RB, 5.25%, 12/15/43	2,505	2,810,485
New York State Dormitory Authority, RB, New York University, Series A, 5.00%, 7/01/38	2,199	2,368,575
		12,255,645
Ohio 2.1%		
County of Montgomery Ohio, RB, Catholic Health, Series C-1 (AGM), 5.00%, 10/01/41	1,260	1,355,269
Ohio Higher Educational Facility Commission, Refunding RB, Hospital, Cleveland Clinic Health, Series A, 5.25%, 1/01/33	2,000	2,154,820
		3,510,089
Total Municipal Bonds Transferred to Tender Option Bond Trusts 12.7%		21,298,995
Total Long-Term Investments (Cost \$234,380,899) 149.3%		251,351,552
Short-Term Securities	Shares	
FFI Institutional Tax-Exempt Fund, 0.01% (i)(j)	4,946,999	4,946,999
Total Short-Term Securities (Cost \$4,946,999) 2.9%		4,946,999
Total Investments (Cost \$239,327,898) 152.2%		256,298,551
Other Assets Less Liabilities 1.4%		2,278,896
Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (6.1%)		(10,322,024)

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

VMTP Shares, at Liquidation Value	(47.5)%		(79,900,000)
Net Assets Applicable to Common Shares	100.0%		\$ 168,355,423

- (a) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (b) Represents a step-up bond that pays an initial coupon rate for the first period and then a higher coupon rate for the following periods. Rate shown is as of report date.
- (c) Issuer filed for bankruptcy and/or is in default of interest payments.
- (d) Non-income producing security.
- (e) Security represents a beneficial interest in a trust. The collateral deposited into the trust is federally tax-exempt revenue bonds issued by various state or local governments, or their respective agencies or authorities. The security is subject to remarketing prior to its stated maturity.
- (f) Security exempt from registration pursuant to Rule 144A under the Securities Act of 1933. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (g) Variable rate security. Rate shown is as of report date and maturity shown is the date the principal owed can be recovered through demand.
- (h) Securities represent bonds transferred to a TOB in exchange for which the Trust acquired residual interest certificates. These securities serve as collateral in a financing transaction. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to TOBs.
- (i) Investments in companies considered to be an affiliate of the Trust during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

Affiliate	Shares Held at August 31, 2011	Net Activity	Shares Held at February 29, 2012	Income
FFI Institutional Tax-Exempt Fund	2,247,948	2,699,051	4,946,999	\$319

- (j) Represents the current yield as of report date.

Fair Value Measurements Various inputs are used in determining the fair value of investments. These inputs are categorized into a disclosure hierarchy consisting of three broad levels for financial statement purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities

Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust's own assumptions used in determining the fair value of investments)

Changes in valuation techniques may result in transfers in or out of an assigned level within the disclosure hierarchy. The categorization of a value determined for investments is based on the pricing transparency of the investment and does not necessarily correspond to the Trust's perceived risk of investing in those securities. For information about the Trust's policy regarding valuation of investments and other significant accounting policies, please refer to Note 1 of the Notes to Financial Statements.

The following table summarizes the inputs used as of February 29, 2012 in determining the fair valuation of the Trust's investments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Investments:

Long-Term Investments ¹		\$ 251,351,552	\$ 251,351,552
Short-Term Securities	\$ 4,946,999		4,946,999
Total	\$ 4,946,999	\$ 251,351,552	\$ 256,298,551

¹ See above Schedule of Investments for values in each state or political subdivision.

See Notes to Financial Statements.

20

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Schedule of Investments February 29, 2012 (Unaudited)

BlackRock Municipal Income Investment Quality Trust (BAF)
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
Alabama 1.9%		
Birmingham Special Care Facilities Financing Authority, RB, Children's Hospital (AGC):		
6.13%, 6/01/34	\$ 1,000	\$ 1,150,950
6.00%, 6/01/39	1,000	1,142,790
Selma IDB, RB, International Paper Co. Project, Series A, 5.38%, 12/01/35	370	387,564
		2,681,304
California 11.9%		
California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%, 10/01/38	2,155	2,458,769
California Health Facilities Financing Authority, RB: Scripps, Series A, 5.00%, 11/15/40	175	190,132
Sutter Health, Series B, 6.00%, 8/15/42	1,120	1,294,216
County of Sacramento California, RB, Senior Series A (AGC), 5.50%, 7/01/41	1,400	1,518,104
Los Angeles Community College District California, GO: Election of 2001, Series A (NPFGC), 5.00%, 8/01/32	1,000	1,099,900
Election of 2008, Series C, 5.25%, 8/01/39	500	573,150
Los Angeles Department of Water & Power, RB, Power System, Sub-Series A-1, 5.25%, 7/01/38	1,175	1,339,770
Los Angeles Municipal Improvement Corp., Refunding RB, Real Property, Series B (AGC), 5.50%, 4/01/39	3,210	3,537,837
Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34	1,000	1,162,810
San Bernardino Community College District, GO, Election of 2002, Series A, 6.25%, 8/01/33	925	1,100,584
San Diego Public Facilities Financing Authority, Refunding RB, Series B (AGC), 5.38%, 8/01/34	1,125	1,299,960
San Jacinto Unified School District, GO, Election of 2006 (AGM), 5.25%, 8/01/32	1,000	1,085,210
		16,660,442
Colorado 1.2%		
Colorado Health Facilities Authority, RB, Hospital, NMC Inc. Project, Series B (AGM), 6.00%, 5/15/26	1,425	1,670,627
Florida 5.4%		
City of Jacksonville Florida, RB, Series A, 5.25%, 10/01/31	4,525	5,188,998
Orange County Health Facilities Authority, RB, The Nemours Foundation Project, Series A, 5.00%, 1/01/29	1,070	1,168,172
Village Center Community Development District, RB, Series A (NPFGC), 5.00%, 11/01/32	1,250	1,238,789
		7,595,959
Georgia 2.2%		
City of Atlanta Georgia, Refunding RB, General, Series C, 6.00%, 1/01/30	2,500	3,045,850
Illinois 15.4%		
Chicago Board of Education Illinois, GO, Series A: 5.50%, 12/01/39	1,500	1,698,300

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

5.00%, 12/01/41	1,000	1,078,380
Chicago Transit Authority, RB Federal Transit Administration Section 5309, Series A (AGC), 6.00%, 6/01/26	1,300	1,526,304
Chicago Transit Authority, RB, Sales Tax Receipts Revenue:		
5.25%, 12/01/36	415	461,853
5.25%, 12/01/40	1,325	1,471,187
City of Chicago Illinois, RB:		
General Third Lien, Series C, 5.25%, 1/01/30	1,000	1,110,330
Sales Tax Revenue, Series A, 5.25%, 1/01/38	515	577,145
Third Lien, O Hare International Airport, Series A, 5.75%, 1/01/39	825	946,778

	Par (000)	Value
Municipal Bonds		
Illinois (concluded)		
City of Chicago Illinois, Refunding RB, General, Third Lien, (AGM), Series C, 6.50%, 1/01/41	\$ 3,740	\$ 4,501,240
Illinois Finance Authority, RB, Carle Foundation, Series A, 6.00%, 8/15/41	1,885	2,068,882
Illinois Municipal Electric Agency, RB, Series A (NPFGC):		
5.25%, 2/01/28	1,560	1,714,222
5.25%, 2/01/35	1,000	1,069,600
Railsplitter Tobacco Settlement Authority, RB:		
5.50%, 6/01/23	915	1,053,879
6.00%, 6/01/28	260	290,909
State of Illinois, RB, Build Illinois, Series B, 5.25%, 6/15/28	1,750	1,971,952
		21,540,961
Indiana 5.6%		
Indiana Finance Authority Wastewater Utility, RB, First Lien, CWA Authority, Series A:		
5.25%, 10/01/31	1,000	1,144,110
5.25%, 10/01/38	2,000	2,226,060
Indianapolis Local Public Improvement Bond Bank, RB, Series K (AGM), 5.00%, 6/01/25	1,570	1,786,942
Indianapolis Local Public Improvement Bond Bank, Refunding RB, Waterworks Project, Series A (AGC), 5.50%, 1/01/38	2,415	2,697,048
		7,854,160
Iowa 0.2%		
Iowa Finance Authority, Refunding RB, Iowa Health System (AGC), 5.25%, 2/15/29	305	335,149
Louisiana 0.5%		
New Orleans Aviation Board Louisiana, Refunding RB, GARB, Restructuring, (AGC):		
Series A-1, 6.00%, 1/01/23	375	447,656
Series A-2, 6.00%, 1/01/23	150	179,063
		626,719
Michigan 14.7%		
City of Detroit Michigan, RB:		
Second Lien, Series B (NPFGC), 5.50%, 7/01/29	1,690	1,903,227
Senior Lien, Series B (AGM), 7.50%, 7/01/33	580	729,402
Senior Lien, Series B (BHAC), 5.50%, 7/01/35	4,750	5,195,218
System, Second Lien, Series A (BHAC), 5.50%, 7/01/36	2,330	2,570,456
City of Detroit Michigan, RB, Second Lien, Series B (AGM), 6.25%, 7/01/36	1,700	1,949,220
City of Detroit Michigan, Refunding RB, Senior Lien, Series C-1 (AGM), 7.00%, 7/01/27	1,800	2,220,264
	2,765	3,071,887

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Lansing Board of Water & Light Utilities, RB, Series A, 5.00%, 7/01/37		
Michigan State Building Authority, RB, Facilities Program, Series H (AGM), 5.00%, 10/15/26	365	410,771
Michigan State Building Authority, Refunding RB, Facilities Program, Series I (AGC):		
5.25%, 10/15/24	565	649,462
5.25%, 10/15/25	300	343,527
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	1,205	1,517,842
		20,561,276
Minnesota 3.1%		
City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series B (AGC), 6.50%, 11/15/38	3,680	4,327,790
Missouri 1.9%		
Missouri Municipal Electric Utility Commission Power, RB, Prairie State Project, Series A, 5.00%, 1/01/32 (a)	2,500	2,686,775

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

21

Schedule of Investments (continued)

BlackRock Municipal Income Investment Quality Trust (BAF)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Nevada 1.6%		
Clark County Water Reclamation District, GO, Series A, 5.25%, 7/01/34	\$ 2,000	\$ 2,232,940
New Jersey 4.6%		
New Jersey Health Care Facilities Financing Authority, RB, Virtua Health (AGC), 5.50%, 7/01/38	1,300	1,418,573
New Jersey State Housing & Mortgage Finance Agency, RB, S/F Housing, Series CC, 5.25%, 10/01/29	1,575	1,691,393
New Jersey Transportation Trust Fund Authority, RB, Transportation System: Series A (AGC), 5.50%, 12/15/38	2,000	2,219,480
Series B, 5.25%, 6/15/36	1,000	1,120,080
		6,449,526
New York 5.5%		
New York City Transitional Finance Authority, RB: Series S-3, 5.25%, 1/15/39	900	988,578
Sub-Future Tax Secured, Series C, 5.00%, 11/01/39	1,175	1,305,801
New York City Transitional Finance Authority, RB, Fiscal 2009, Series S-4 (AGC), 5.50%, 1/15/29	2,465	2,873,623
New York State Dormitory Authority, RB, General Purpose, Series C, 5.00%, 3/15/41	2,220	2,468,951
		7,636,953
Pennsylvania 0.6%		
Philadelphia Hospitals & Higher Education Facilities Authority, RB, Childrens Hospital Philadelphia, Series D, 5.00%, 7/01/32	710	785,246
Puerto Rico 1.1%		
Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A, 6.38%, 8/01/39	1,350	1,582,470
Texas 22.8%		
Austin Community College District, RB, Educational Facilities Project, Round Rock Campus, 5.25%, 8/01/33	2,000	2,188,860
City of Austin Texas, Refunding RB, Series A (AGM): 5.00%, 11/15/28	705	802,502
5.00%, 11/15/29	895	1,010,052
City of Houston Texas, Refunding RB, Combined, First Lien, Series A (AGC): 6.00%, 11/15/35	2,600	3,134,092
6.00%, 11/15/36	2,215	2,658,797
5.38%, 11/15/38	1,000	1,140,400
Clifton Higher Education Finance Corp., Refunding RB, Baylor University, 5.25%, 3/01/32	1,270	1,453,070
Frisco ISD Texas, GO, School Building (AGC), 5.50%, 8/15/41	3,365	3,997,856
Harris County Cultural Education Facilities Finance Corp., RB, Texas Children's Hospital Project, 5.25%, 10/01/29	875	997,518
Harris County Health Facilities Development Corp., Refunding RB, Memorial Hermann Healthcare System,	500	602,825

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Series B, 7.13%, 12/01/31		
Lamar Texas Consolidated Independent School District, GO, Refunding RB, School House, Series A, 5.00%, 2/15/45 (a)	890	1,004,641
Lubbock Cooper ISD Texas, GO, School Building (AGC), 5.75%, 2/15/42	500	562,715
North Texas Tollway Authority, RB, Special Projects System, Series A, 5.50%, 9/01/41	1,000	1,150,930
North Texas Tollway Authority, Refunding RB: System, First Tier (AGM), 6.00%, 1/01/43	1,000	1,167,070
System, First Tier, Series A (AGC), 5.75%, 1/01/40	1,500	1,654,275
System, First Tier, Series K-1 (AGC), 5.75%, 1/01/38	1,500	1,678,455

	Par (000)	Value
Municipal Bonds		
Texas (concluded)		
Tarrant County Cultural Education Facilities Finance Corp., Refunding RB, Christus Health, Series A (AGC), 6.50%, 7/01/37	\$ 1,000	\$ 1,150,810
University of Texas System, Refunding RB, Financing System, Series B, 5.00%, 8/15/43 (a)	1,805	2,071,129
Waco Educational Finance Corporation, RB, Baylor University, 5.00%, 3/01/43	3,000	3,352,920
		31,778,917
Utah 0.8%		
City of Riverton Utah, RB, IHC Health Services Inc., 5.00%, 8/15/41	1,000	1,073,950
Virginia 0.9%		
Virginia Public School Authority, RB, School Financing, 6.50%, 12/01/35	1,000	1,176,400
Washington 5.5%		
City of Seattle Washington, Refunding RB, Series A, 5.25%, 2/01/36	1,025	1,172,395
Port of Seattle, Refunding RB, Intermediate, Series A, 5.00%, 8/01/32 (a)	3,000	3,412,560
State of Washington, GO, Various Purpose, Series B, 5.25%, 2/01/36	795	914,616
University of Washington, Refunding, RB, Series A, 5.00%, 7/01/41 (a)	1,850	2,102,673
		7,602,244
Total Municipal Bonds 107.4%		149,905,658

**Municipal Bonds Transferred to
Tender Option Bond Trusts (b)**

Alabama 1.1%		
Mobile Board of Water & Sewer Commissioners, RB (NPFGC), 5.00%, 1/01/31	1,500	1,583,970
California 10.7%		
San Diego Community College District California, GO, Election of 2002 (AGM), 5.00%, 5/01/30	2,500	2,756,925
San Marcos Unified School District, GO, Election of 2010, Series A, 5.25%, 8/01/31	10,680	12,196,453
		14,953,378
District of Columbia 0.7%		
District of Columbia Water & Sewer Authority, RB, Series A, 6.00%, 10/01/35	760	942,608
Florida 10.1%		
	3,930	4,150,237

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

City of Jacksonville Florida, RB, Better Jacksonville
(NPFGC), 5.00%, 10/01/27

County of Pinellas Florida, RB (AGM), 5.00%,
10/01/32

9,500	9,993,568
	14,143,805

Illinois 4.7%

Chicago Transit Authority, Refunding RB, Federal Transit
Administration Section 5309 (AGM), 5.00%, 6/01/28

2,999	3,247,458
-------	-----------

Illinois State Toll Highway Authority, RB, Series B,
5.50%, 1/01/33

2,999	3,285,500
	6,532,958

Kentucky 0.7%

Kentucky State Property & Building Commission,
Refunding RB, Project No. 93 (AGC), 5.25%,
2/01/27

898	1,025,816
-----	-----------

See Notes to Financial Statements.

Schedule of Investments (continued)

BlackRock Municipal Income Investment Quality Trust (BAF)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds Transferred to Tender Option Bond Trusts (b)		
Massachusetts 1.6%		
Massachusetts School Building Authority, RB, 5.00%, 10/15/41	\$ 2,000	\$ 2,245,080
Nevada 5.0%		
Clark County Water Reclamation District, GO, Limited Tax, 6.00%, 7/01/38	2,000	2,325,120
Las Vegas Valley Water District, GO, Refunding, Series C, 5.00%, 6/01/28	4,100	4,701,101
		7,026,221
New Jersey 0.8%		
New Jersey EDA, RB, School Facilities Construction, Series Z (AGC), 6.00%, 12/15/34	1,000	1,150,600
New York 8.7%		
Hudson Yards Infrastructure Corp., RB, Series A, 5.75%, 2/15/47	1,000	1,129,785
New York City Municipal Water Finance Authority, RB, Second General Resolution, Fiscal 2012, Series BB, 5.25%, 6/15/44	4,993	5,650,012
New York Liberty Development Corp., 5.25%, 12/15/43	2,955	3,315,362
New York State Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51	1,740	1,976,936
		12,072,095
Puerto Rico 1.0%		
Puerto Rico Sales Tax Financing Corp., RB, Series C, 5.25%, 8/01/40	1,180	1,310,461
Texas 1.9%		
North Texas Tollway Authority, RB, Special Projects, System, Series A, 5.50%, 9/01/41	2,310	2,658,648
Total Municipal Bonds Transferred to Tender Option Bond Trusts 47.0%		65,645,640
Total Long-Term Investments (Cost \$197,730,152) 154.4%		215,551,298
Short-Term Securities		
Illinois 2.8%		
Illinois Finance Authority, RB, VRDN, University of Chicago Medical Center, Series B, 0.12%, 3/01/12 (c)	\$ 3,900	\$ 3,900,000
Texas 0.8%		
Harris County Health Facilities Development Corp., RB, VRDN, Baylor College Medicine, Series B, 0.10%, 3/01/12 (c)	1,100	1,100,000
		Shares
Money Market Funds 2.3%		
FFI Institutional Tax-Exempt Fund, 0.01% (d)(e)	3,259,592	3,259,592
Total Short-Term Securities (Cost \$8,259,592) 5.9%		8,259,592
Total Investments (Cost \$205,989,744) 160.3%		223,810,890

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Liabilities in Excess of Other Assets	(6.8)%	(9,444,749)
Liability for TOB Trust Certificates, Including Interest		
Expense and Fees Payable	(23.3)%	(32,587,769)
VMTP Shares, at Liquidation Value	(30.2)%	(42,200,000)
Net Assets Applicable to Common Shares	100.0%	\$ 139,578,372

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

23

Schedule of Investments (concluded)

BlackRock Municipal Income Investment Quality Trust (BAF)

- (a) When-issued security. Unsettled when-issued transactions were as follows:

Counterparty	Value	Unrealized Appreciation
Morgan Keegan & Co.	\$ 1,004,641	\$ 3,791
National Financial	\$ 2,686,775	
Pershing LLC	\$ 1,134,240	\$ 3,280
JPMorgan Securities	\$ 2,268,480	\$ 6,560
Morgan Stanley Co.	\$ 2,071,129	\$ 18,375
Barclays Capital Inc.	\$ 2,102,673	\$ 14,208

- (b) Securities represent bonds transferred to a TOB in exchange for which the Trust acquired residual interest certificates. These securities serve as collateral in a financing transaction. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to TOBs.
- (c) Variable rate security. Rate shown is as of report date and maturity shown is the date the principal owed can be recovered through demand.
- (d) Investments in companies considered to be an affiliate of the Trust during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

Affiliate	Shares Held at August 31, 2011	Net Activity	Shares Held at February 29, 2012	Income
FFI Institutional Tax-Exempt Fund	9,230,241	(5,970,649)	3,259,592	\$ 153

- (e) Represents the current yield as of report date.

Financial futures contracts sold as of February 29, 2012 were as follows:

Contracts	Issue	Exchange	Expiration	Notional Value	Unrealized Depreciation
47	10-Year US Treasury Note	Chicago Board of Trade	March 2012	\$ 6,169,484	\$ (36,074)

Fair Value Measurements Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs are categorized into a disclosure hierarchy consisting of three broad levels for financial statement purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities

Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust's own assumptions used in determining the fair value of investments and derivative financial instruments)

Changes in valuation techniques may result in transfers in or out of an assigned level within the disclosure hierarchy. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investment and derivative financial instrument and does not necessarily correspond to the Trust's perceived risk of investing in those securities. For information about the Trust's policy regarding valuation of investments and derivative financial instruments and other significant accounting policies, please refer to Note 1 of the Notes to Financial Statements.

The following tables summarize the inputs used as of February 29, 2012 in determining the fair valuation of the Trust's investments and derivative financial instruments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments ¹		\$ 215,551,298		\$ 215,551,298
Short-Term Securities	\$ 3,259,592	5,000,000		8,259,592
Total	\$ 3,259,592	\$ 220,551,298		\$ 223,810,890

¹ See above Schedule of Investments for values in each state or political subdivision.

Valuation Inputs	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments ²				
Assets:				
Interest rate contracts	\$ (36,074)			\$ (36,074)

² Derivative financial instruments are financial futures contracts, which are valued at the unrealized appreciation/depreciation on the instrument.

See Notes to Financial Statements.

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Schedule of Investments February 29, 2012 (Unaudited)

BlackRock Municipal Income Quality Trust (BYM)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Alabama 3.7%		
Alabama State Docks Department, Refunding RB, 6.00%, 10/01/40	\$ 3,800	\$ 4,213,592
Birmingham Airport Authority, RB (AGM), 5.50%, 7/01/40	5,800	6,424,428
Birmingham Special Care Facilities Financing Authority, RB, Children s Hospital (AGC), 6.00%, 6/01/39	1,495	1,708,471
County of Jefferson Alabama, RB, Series A, 4.75%, 1/01/25	2,800	2,548,028
		14,894,519
Alaska 0.3%		
Alaska Industrial Development & Export Authority, RB, Providence Health Services, Series A, 5.50%, 10/01/41	1,070	1,194,933
Arizona 0.5%		
State of Arizona, COP, Department of Administration, Series A (AGM): 5.00%, 10/01/27	1,500	1,684,575
5.25%, 10/01/28	250	283,560
		1,968,135
California 22.8%		
California Health Facilities Financing Authority, RB, St. Joseph Health System, Series A, 5.75%, 7/01/39	625	691,419
California Infrastructure & Economic Development Bank, RB, Bay Area Toll Bridges, First Lien, Series A (AMBAC), 5.00%, 7/01/36 (a)	10,100	13,511,174
Coast Community College District California, GO, Refunding, CAB, Election of 2002, Series C (AGM): 5.00%, 8/01/13 (b)	7,450	7,090,463
5.41%, 8/01/36 (c)	4,200	1,105,734
Golden State Tobacco Securitization Corp. California, RB, Series 2003-A-1 (a): 6.75%, 6/01/39	14,500	15,653,765
6.63%, 6/01/40	6,500	7,007,065
Metropolitan Water District of Southern California, RB, Series B-1 (NPFGC), 5.00%, 10/01/33	16,745	17,997,024
Monterey Peninsula Community College District, GO, CAB, Series C (AGM) (c): 5.15%, 8/01/31	13,575	5,091,575
5.16%, 8/01/32	14,150	4,881,325
Orange County Sanitation District, COP, Series B (AGM), 5.00%, 2/01/31	2,500	2,737,950
San Diego Unified School District California, GO, CAB, Election of 2008, Series C, 6.84%, 7/01/38 (c)	2,000	491,500
San Joaquin Hills Transportation Corridor Agency California, Refunding RB, CAB, Series A (NPFGC), 5.51%, 1/15/31 (c)	53,000	14,045,000
San Jose Unified School District Santa Clara County California, GO, Election of 2002, Series B (NPFGC), 5.00%, 8/01/29	2,350	2,502,515
		92,806,509

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Colorado 0.3%

Regional Transportation District, COP, Series A, 5.38%, 6/01/31	960	1,074,883
--	-----	-----------

District of Columbia 2.3%

District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.75%, 5/15/40	9,500	9,581,035
--	-------	-----------

Florida 15.8%

Broward County School Board Florida, COP, Series A (AGM), 5.25%, 7/01/33	1,600	1,722,976
County of Broward Florida, RB, Series A, 5.25%, 10/01/34	6,750	7,523,550
County of Duval Florida, COP, Master Lease Program (AGM), 5.00%, 7/01/33	3,800	4,020,172

	Par (000)	Value
Municipal Bonds		
Florida (concluded)		
County of Miami-Dade Florida, RB: CAB, Sub-Series A (NPFGC), 5.25%, 10/01/38 (c)	\$ 25,520	\$ 5,313,009
Miami International Airport, Series A, 5.50%, 10/01/41	5,000	5,594,400
Series A, 5.50%, 10/01/36	5,000	5,538,250
Series B (AGC), 5.25%, 5/01/31	1,135	1,238,421
Water & Sewer System (AGM), 5.00%, 10/01/39	10,100	10,949,915
County of Miami-Dade Florida, Refunding RB (AGM), 5.00%, 7/01/35	1,300	1,386,333
County of Miami-Dade Florida, School Board, COP, RB, Series B (AGC), 5.25%, 5/01/31	1,135	1,238,421
Florida Housing Finance Corp., RB, Homeowner Mortgage, Series 3, 5.45%, 7/01/33	3,800	4,023,288
Florida State Department of Environmental Protection, RB, Series B (NPFGC), 5.00%, 7/01/27	6,150	6,814,507
Orange County School Board, COP, Series A (AGC), 5.50%, 8/01/34	6,090	6,749,791
Sarasota County Public Hospital District, RB, Sarasota Memorial Hospital Project, Series A, 5.63%, 7/01/39	300	321,651
South Florida Water Management District, COP (AMBAC), 5.00%, 10/01/36	1,000	1,050,490
Tohopekaliga Water Authority, Refunding RB, Series A, 5.25%, 10/01/36	2,000	2,256,880
		64,503,633

Georgia 2.8%

Burke County Development Authority, RB, Oglethorpe Power, Vogtle Project, Series C, 5.70%, 1/01/43	1,250	1,342,237
City of Atlanta Georgia, Refunding RB, General, Series C, 6.00%, 1/01/30	7,500	9,137,550
Gwinnett County Hospital Authority, Refunding RB, Gwinnett Hospital System Series D (AGM), 5.50%, 7/01/41	900	986,868
		11,466,655

Hawaii 1.4%

Hawaii State Harbor, RB, Series A, 5.25%, 7/01/35	5,000	5,545,800
---	-------	-----------

Illinois 3.1%

Chicago Board of Education Illinois, GO, Series A, 5.50%, 12/01/39	2,590	2,932,398
Chicago Park District, GO, Harbor Facilities, Series C, 5.25%, 1/01/40	600	659,094
Chicago Transit Authority, RB, 5.25%, 12/01/36	650	723,385
City of Chicago Illinois, RB, Series A (AGC), 5.00%, 1/01/38	7,310	7,648,160
Railsplitter Tobacco Settlement Authority, RB, 6.00%, 6/01/28	710	794,405

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

12,757,442

Indiana 2.0%

Indiana Finance Authority Wastewater Utility, Refunding RB, First Lien, CWA Authority, Series A, 5.25%, 10/01/38	1,100	1,224,333
Indiana Municipal Power Agency, RB, Series B, 5.75%, 1/01/34	450	481,995
Indianapolis Local Public Improvement Bond Bank, Refunding RB, Waterworks Project, Series A (AGC), 5.50%, 1/01/38	5,750	6,421,543
		8,127,871

Iowa 1.3%

Iowa Finance Authority, RB, Series A (AGC), 5.63%, 8/15/37	5,000	5,495,900
---	-------	-----------

Kentucky 0.4%

Kentucky State Property & Buildings Commission, Refunding RB, Project No. 93 (AGC), 5.25%, 2/01/29	1,500	1,692,525
--	-------	-----------

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

25

Schedule of Investments (continued)

BlackRock Municipal Income Quality Trust (BYM)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Louisiana 2.8%		
Jefferson Parish Hospital Service District No. 1, Refunding RB, West Jefferson Medical Center, Series A, 6.00%, 1/01/39	\$ 1,550	\$ 1,721,492
Parish of Saint John the Baptist Louisiana, RB, Marathon Oil Corp., Series A, 5.13%, 6/01/37	1,750	1,811,250
State of Louisiana, RB, Series A (AGM), 5.00%, 5/01/31	7,500	8,080,800
		11,613,542
Michigan 2.5%		
City of Detroit Michigan, Refunding RB, Second Lien, Series E (BHAC), 5.75%, 7/01/31	3,000	3,395,160
Kalamazoo Hospital Finance Authority, RB, Bronson Methodist Hospital (AGM), 5.25%, 5/15/36	465	502,609
Lansing Board of Water & Light, RB, Series A, 5.50%, 7/01/41	1,100	1,273,910
Michigan State Building Authority, Refunding RB, Facilities Program: Series I-A, 5.38%, 10/15/36	2,000	2,247,620
Series I-A, 5.38%, 10/15/41	800	896,312
Series II-A, 5.38%, 10/15/36	1,500	1,685,715
		10,001,326
Nebraska 1.1%		
Nebraska Investment Finance Authority, Refunding RB, Series A: 5.90%, 9/01/36	2,450	2,754,265
6.05%, 9/01/41	1,575	1,677,092
		4,431,357
Nevada 1.1%		
County of Clark Nevada, RB, Las Vegas-McCarran International Airport, Series A (AGC), 5.25%, 7/01/39	4,100	4,453,215
New Jersey 1.4%		
New Jersey Transportation Trust Fund Authority, RB, Transportation System: Series A, 5.50%, 6/15/41	3,000	3,426,330
Series B, 5.25%, 6/15/36	1,990	2,228,959
		5,655,289
New York 1.1%		
Hudson Yards Infrastructure Corp., RB, Series A, 5.75%, 2/15/47	770	870,008
New York City Transitional Finance Authority, RB, Fiscal 2009, Series S-4, 5.50%, 1/15/33	1,950	2,226,139
New York State Dormitory Authority, ERB, Series B, 5.75%, 3/15/36	1,300	1,522,768
		4,618,915
North Carolina 1.0%		
North Carolina Medical Care Commission, RB, Novant Health Obligation, Series A, 4.75%, 11/01/43	3,875	3,935,334
Ohio 0.5%		
County of Lucas Ohio, Refunding RB, Promedica Healthcare, Series A, 6.50%, 11/15/37	610	741,004

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Ohio Higher Educational Facility Commission, Refunding RB, Summa Health System, 2010 Project (AGC), 5.25%, 11/15/40	1,125	1,196,842
		1,937,846
Pennsylvania 0.2%		
Pennsylvania Turnpike Commission, RB, Subordinate, Special Motor, License Fund, 6.00%, 12/01/36	625	754,494
	Par (000)	Value
Municipal Bonds		
Puerto Rico 2.4%		
Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A:		
6.38%, 8/01/39	\$ 5,300	\$ 6,212,660
5.50%, 8/01/42	3,450	3,754,325
		9,966,985
Rhode Island 0.7%		
Rhode Island Health & Educational Building Corp., Refunding RB, Public Schools Financing Program, Series E (AGC), 6.00%, 5/15/29	2,625	2,998,538
South Carolina 1.4%		
South Carolina Jobs-EDA, Refunding RB, Palmetto Health, Series A (AGM), 6.50%, 8/01/39	260	304,580
South Carolina State Ports Authority, RB, 5.25%, 7/01/40	5,000	5,498,750
		5,803,330
Tennessee 3.4%		
Knox County Health Educational & Housing Facilities Board Tennessee, Refunding RB, CAB, Series A (AGM) (c):		
5.88%, 1/01/23	8,910	4,839,823
5.90%, 1/01/24	8,500	4,344,265
5.91%, 1/01/25	6,850	3,297,248
Memphis Center City Revenue Finance Corp., RB, Sub-Pyramid & Pinch District, Series B, (AGM), 5.25%, 11/01/30	1,240	1,425,479
		13,906,815
Texas 24.6%		
City of Houston Texas, RB, Senior Lien, Series A, 5.50%, 7/01/34	4,165	4,617,194
City of San Antonio Texas, Refunding RB (NPFGC):		
5.13%, 5/15/29	9,250	9,988,150
5.13%, 5/15/34	10,000	10,825,400
Comal ISD, GO, School Building (PSF-GTD), 5.00%, 2/01/36	2,500	2,759,800
Coppell ISD Texas, GO, Refunding, CAB (PSF-GTD), 5.64%, 8/15/30 (c)	10,030	5,324,325
County of Harris Texas, Refunding RB, Senior Lien, Toll Road (AGM), 5.00%, 8/15/30	1,910	1,941,439
County of Harris Texas, GO (NPFGC) (c):		
5.57%, 8/15/25	7,485	5,101,027
5.61%, 8/15/28	10,915	6,472,486
Harris County-Houston Sports Authority, Refunding RB (NPFGC) (c):		
CAB, Junior Lien, Series H, 5.94%, 11/15/38	5,785	979,632
CAB, Junior Lien, Series H, 5.95%, 11/15/39	6,160	976,298
Third Lien, Series A-3, 5.97%, 11/15/38	16,890	2,860,153
Mansfield ISD Texas, GO, School Building (PSF-GTD), 5.00%, 2/15/33	2,980	3,324,071
North Texas Tollway Authority, Refunding RB: First Tier, Series A, 6.00%, 1/01/28	625	725,038

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

First Tier, System (NPFGC), 5.75%, 1/01/40	23,050	25,030,686
Texas State Turnpike Authority, RB, First Tier, Series A (AMBAC), 5.00%, 8/15/42	19,500	19,509,750
		100,435,449

See Notes to Financial Statements.

Schedule of Investments (continued)

BlackRock Municipal Income Quality Trust (BYM)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Washington 3.1%		
Chelan County Public Utility District No. 1, RB, Chelan Hydro System, Series C (AMBAC), 5.13%, 7/01/33	\$ 3,655	\$ 3,715,563
County of King Washington, Refunding RB (AGM), 5.00%, 1/01/36	2,200	2,339,436
Washington Health Care Facilities Authority, RB: MultiCare Health Care, Series C (AGC), 5.50%, 8/15/43	4,900	5,259,954
Providence Health & Services, Series A, 5.00%, 10/01/39	500	529,635
Providence Health & Services, Series A, 5.25%, 10/01/39	675	728,919
		12,573,507
Wisconsin 1.1%		
Wisconsin Health & Educational Facilities Authority, RB: Ascension Health Senior Credit Group, 5.00%, 11/15/33	1,500	1,625,505
Froedtert & Community Health, 5.25%, 4/01/39	2,500	2,703,975
		4,329,480
Total Municipal Bonds 105.1%		428,525,262
Municipal Bonds Transferred to Tender Option Bond Trusts (d)		
Arizona 1.9%		
Phoenix Civic Improvement Corp., RB: Junior Lien, Series A, 5.00%, 7/01/34	1,300	1,453,725
Sub-Civic Plaza Expansion Project, Series A, 5.00%, 7/01/37	4,490	4,701,659
Salt River Arizona Project Agricultural Improvement & Power District, RB, Series A, 5.00%, 1/01/38	1,500	1,633,530
		7,788,914
California 10.3%		
California State University, RB, Systemwide, Series A (AGM), 5.00%, 11/01/33	3,379	3,645,788
California State University, Refunding RB, Systemwide, Series A (AGM), 5.00%, 11/01/32	8,000	8,901,600
Foothill-De Anza Community College District, GO, Election of 1999, Series C (NPFGC), 5.00%, 8/01/36	7,500	7,872,000
Los Angeles Community College District California, GO, Election of 2001, Series A (AGM), 5.00%, 8/01/32	5,000	5,499,500
San Diego Community College District California, GO, Election of 2002, 5.25%, 8/01/33	449	518,316
San Diego County Water Authority, COP, Refunding, Series 2008-A (AGM), 5.00%, 5/01/33	4,870	5,249,714
University of California, RB, Series C (NPFGC), 4.75%, 5/15/37	10,000	10,253,200
		41,940,118
District of Columbia 0.3%		

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

District of Columbia, RB, Series A, 5.50%, 12/01/30	1,080	1,292,782
Florida 4.9%		
City of Tallahassee Florida, RB (NPFGC):		
5.00%, 10/01/32	3,000	3,210,810
5.00%, 10/01/37	5,000	5,327,900
Florida State Board of Education, GO, Series D, 5.00%, 6/01/37	2,999	3,248,355
Highlands County Health Facilities Authority, RB, Adventist, Series C, 5.25%, 11/15/36 (e)	1,800	1,889,316
Orange County School Board, COP, Series A (NPFGC), 5.00%, 8/01/30	6,000	6,342,900
		20,019,281

**Municipal Bonds Transferred to
Tender Option Bond Trusts (d)**

	Par (000)	Value
Hawaii 2.6%		
Honolulu City & County Board of Water Supply, RB, Series A (FGIC), 5.00%, 7/01/33	\$ 10,000	\$ 10,388,400
Illinois 9.3%		
City of Chicago Illinois, RB, Sale Tax Revenue, Series A, 5.00%, 1/01/41	3,870	4,258,083
Illinois Finance Authority, RB, Carle Foundation, Series A (AGM), 6.00%, 8/15/41	2,400	2,710,368
Illinois State Toll Highway Authority, RB, Series B, 5.50%, 1/01/33	4,499	4,928,249
Metropolitan Pier & Exposition Authority, RB, McCormick Place Expansion Project, Series A (NPFGC), 5.00%, 12/15/28	24,010	24,487,319
State of Illinois, RB, Build Illinois, Series B, 5.25%, 6/15/34	1,400	1,542,708
		37,926,727
Massachusetts 3.5%		
Massachusetts School Building Authority, Sales Tax RB, Series A (AGM), 5.00%, 8/15/30	12,987	14,459,277
Michigan 1.9%		
Michigan Finance Authority, Refunding RB, Trinity Health, 5.00%, 12/01/39	7,300	7,721,064
Nevada 1.8%		
City of Las Vegas Nevada, GO, Limited Tax, Performing Arts Center, 6.00%, 4/01/39	4,197	4,834,351
Clark County Water Reclamation District, GO, Series B, 5.75%, 7/01/34	2,024	2,387,128
		7,221,479
New York 4.4%		
Erie County Industrial Development Agency, RB, City School District of Buffalo Project, Series A (AGM), 5.75%, 5/01/28	4,494	5,231,211
Metropolitan Transportation Authority, RB, Series A (NPFGC), 5.00%, 11/15/31	7,002	7,767,123
Triborough Bridge & Tunnel Authority, RB, General, Series A-2, 5.25%, 11/15/34	4,500	5,093,595
		18,091,929
Ohio 0.2%		
State of Ohio, RB, Cleveland Clinic Health, Series B, 5.50%, 1/01/34	620	684,096
Puerto Rico 0.7%		
Puerto Rico Sales Tax Financing Corp., RB, Series C, 5.25%, 8/01/40	2,580	2,865,245
South Carolina 0.2%		
South Carolina State Public Service Authority, RB, Santee Cooper, Series A, 5.50%, 1/01/38	600	679,800

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Texas 2.9%

North East ISD Texas, GO, School Building (PSF-GTD):

5.13%, 6/15/29	9,500	10,343,250
Series A, 5.00%, 8/01/37	1,500	1,660,140
		12,003,390

Utah 1.4%

Utah Transit Authority, RB, Series A (AGM), 5.00%,
6/15/36

5,000 5,515,200

Virginia 0.1%

Fairfax County IDA Virginia, Refunding RB, Health Care,
Inova Health System, Series A, 5.50%, 5/15/35

400 445,972

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

27

Schedule of Investments (concluded)

BlackRock Municipal Income Quality Trust (BYM)
(Percentages shown are based on Net Assets)

Municipal Bonds Transferred to Tender Option Bond Trusts (d)	Par (000)	Value
Washington 0.9%		
Central Puget Sound Regional Transit Authority, RB, Series A (AGM), 5.00%, 11/01/32	\$ 3,494	\$ 3,858,161
Total Municipal Bonds Transferred to Tender Option Bond Trusts 47.3%		192,901,835
Total Long-Term Investments (Cost \$577,916,104) 152.3%		621,427,097

Short-Term Securities

New York 0.4%		
City of New York, New York, GO, VRDN, Sub-Series A-6 (AGM, Dexia Credit Local SBPA), 0.25%, 03/01/12 (e)	1,700	1,700,000

	Shares	
Money Market Funds 3.4%		
FFI Institutional Tax-Exempt Fund, 0.01% (f)(g)	13,815,497	13,815,497
Total Short-Term Securities (Cost \$15,515,497) 3.8%		15,515,497
Total Investments (Cost \$593,431,601) 156.1%		636,942,594
Other Assets Less Liabilities 1.0%		3,906,687
Liability for TOB Trust Certificates, Including Interest		
Expense and Fees Payable (23.5%)		(95,870,735)
VMTP Shares, at Liquidation Value (33.6%)		(137,200,000)
Net Assets Applicable to Common Shares 100.0%		\$ 407,778,546

- (a) US government securities, held in escrow, are used to pay interest on this security, as well as to retire the bond in full at the date indicated, typically at a premium to par.
- (b) Represents a step-up bond that pays an initial coupon rate for the first period and then a higher coupon rate for the following periods. Rate shown is as of report date.
- (c) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (d) Securities represent bonds transferred to a TOB in exchange for which the Trust acquired residual interest certificates. These securities serve as collateral in a financing transaction. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to TOBs.
- (e) Variable rate security. Rate shown is as of report date and maturity shown is the date the principal owed can be recovered through demand.
- (f) Investments in companies considered to be an affiliate of the Trust during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

Affiliate	Shares Held at August 31,	Net Activity	Shares Held at February 29,	Income
-----------	------------------------------	-----------------	--------------------------------	--------

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

	2011		2012	
FFI Institutional				
Tax-Exempt Fund	5,821,237	7,994,260	13,815,497	\$ 569

(g) Represents the current yield as of report date.

Financial futures contracts sold as of February 29, 2012 were as follows:

Contracts	Issue	Exchange	Expiration	Notional Value	Unrealized Depreciation
50	10-Year US Treasury Note	Chicago Board of Trade	March 2012	\$ 6,563,281	\$ (38,376)

Fair Value Measurements Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs are categorized into a disclosure hierarchy consisting of three broad levels for financial statement purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities

Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust's own assumptions used in determining the fair value of investments and derivative financial instruments)

Changes in valuation techniques may result in transfers in or out of an assigned level within the disclosure hierarchy. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investment and derivative financial instrument and does not necessarily correspond to the Trust's perceived risk of investing in those securities. For information about the Trust's policy regarding valuation of investments and derivative financial instruments and other significant accounting policies, please refer to Note 1 of the Notes to Financial Statements.

The following tables summarize the inputs used as of February 29, 2012 in determining the fair valuation of the Trust's investments and derivative financial instruments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments ¹		\$ 621,427,097		\$ 621,427,097
Short-Term Securities	\$ 13,815,497	1,700,000		15,515,497
Total	\$ 13,815,497	\$ 623,127,097		\$ 636,942,594

¹ See above Schedule of Investments for values in each state or political subdivision.

Valuation Inputs	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments²				
Liabilities:				
Interest rate contracts	\$ (38,376)			\$ (38,376)

² Derivative financial instruments are financial futures contracts, which are shown at the unrealized appreciation/depreciation on the instrument.

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

See Notes to Financial Statements.

28

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

Schedule of Investments February 29, 2012 (Unaudited)

BlackRock Municipal Income Trust II (BLE)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Arizona 2.7%		
Salt Verde Financial Corp., RB, Senior:		
5.00%, 12/01/32	\$ 5,635	\$ 5,670,838
5.00%, 12/01/37	3,990	3,989,681
		9,660,519
California 12.7%		
Bay Area Toll Authority, Refunding RB, San Francisco		
Bay Area, Series F-1, 5.63%, 4/01/44	2,480	2,796,622
California County Tobacco Securitization Agency, RB,		
CAB, Stanislaus, Sub-Series C, 6.30%, 6/01/55 (a)	9,710	113,219
California Health Facilities Financing Authority, RB,		
Sutter Health, Series B, 6.00%, 8/15/42	3,500	4,044,425
California HFA, RB, Series K, AMT Home Mortgage,		
5.50%, 2/01/42	1,925	1,919,764
California State Public Works Board, RB, Various Capital		
Project, Sub-Series I-1, 6.38%, 11/01/34	1,280	1,501,670
California Statewide Communities Development		
Authority, RB, Health Facility, Memorial Health		
Services, Series A, 5.50%, 10/01/33	5,000	5,199,900
Los Angeles Department of Airports, RB, Series A,		
5.25%, 5/15/39	860	953,405
Los Angeles Department of Airports, Refunding RB,		
Senior, Los Angeles International Airport, Series A,		
5.00%, 5/15/40	6,500	7,156,175
San Francisco City & County Redevelopment Agency,		
Special Tax Bonds, District No. 6, Mission Bay South		
Public Improvements, 6.63%, 8/01/27	3,120	3,141,278
State of California, GO, Various Purpose:		
6.00%, 3/01/33	1,760	2,106,984
6.50%, 4/01/33	10,670	13,122,713
5.00%, 10/01/41	3,320	3,543,967
		45,600,122
Colorado 1.1%		
Colorado Health Facilities Authority, Refunding RB,		
Catholic Healthcare Series A, 5.50%, 7/01/34	2,330	2,572,063
Park Creek Metropolitan District Colorado, Refunding		
RB, Senior, Limited Tax, Property Tax, 5.50%,		
12/01/37	1,375	1,399,269
		3,971,332
Connecticut 0.5%		
Connecticut State Health & Educational Facility		
Authority, RB, Ascension Health Senior Credit, 5.00%,		
11/15/40	1,505	1,615,286
Delaware 1.6%		
County of Sussex Delaware, RB, NRG Energy, Inc.,		
Indian River Project, 6.00%, 10/01/40	1,240	1,335,542
Delaware State EDA, RB, Exempt Facilities, Indian River		
Power, 5.38%, 10/01/45	4,430	4,510,582
		5,846,124
District of Columbia 6.3%		

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

District of Columbia Tobacco Settlement Financing Corp.,

Refunding RB, Asset-Backed:

6.50%, 5/15/33	7,500	8,115,900
6.75%, 5/15/40	11,500	11,598,095
Metropolitan Washington Airports Authority, RB, First Senior Lien, Series A:		
5.00%, 10/01/39	550	589,391
5.25%, 10/01/44	2,000	2,155,380
		22,458,766

	Par (000)	Value
Municipal Bonds		
Florida 6.2%		
City of Leesburg Florida, RB, Leesburg Regional Medical Center Project, 5.50%, 7/01/32	\$ 1,000	\$ 1,001,450
County of Miami-Dade Florida, RB:		
Miami International Airport, Series A AMT (AGC), 5.25%, 10/01/38	2,855	2,975,795
Water & Sewer System Revenue (AGM), 5.00%, 10/01/39	5,000	5,420,750
County of Miami-Dade Florida, Refunding RB, Miami International Airport, Series A-1, 5.38%, 10/01/41	1,255	1,390,891
Live Oak Community Development District No. 1, Special Assessment Bonds, Series A, 6.30%, 5/01/34	3,115	3,211,254
Miami Beach Health Facilities Authority, RB, Mount Sinai Medical Center of Florida, 6.75%, 11/15/21	3,640	3,826,586
Mid-Bay Bridge Authority, RB, Series A, 7.25%, 10/01/40	2,500	2,727,075
Stevens Plantation Community Development District, Special Assessment Bonds, Series A, 7.10%, 5/01/35	1,930	1,651,115
		22,204,916
Georgia 0.3%		
DeKalb Private Hospital Authority, Refunding RB, Children s Healthcare, 5.25%, 11/15/39	915	985,784
Guam 0.7%		
Territory of Guam, GO, Series A:		
6.00%, 11/15/19	695	766,043
6.75%, 11/15/29	995	1,061,516
7.00%, 11/15/39	680	738,432
		2,565,991
Hawaii 0.5%		
State of Hawaii, Refunding RB, Series A, 5.25%, 7/01/30	1,480	1,644,354
Illinois 12.5%		
Chicago Board of Education Illinois, GO, Series A:		
5.50%, 12/01/39	2,300	2,604,060
5.00%, 12/01/41	760	819,569
Chicago Transit Authority, RB, Sales Tax Receipts, 5.25%, 12/01/40	1,150	1,276,880
City of Chicago Illinois, RB:		
5.25%, 1/01/38	895	1,003,000
O Hare International Airport Revenue, General, Third Lien, Series A, 5.75%, 1/01/39	5,000	5,738,050
O Hare International Airport Revenue, General, Third Lien, Series C, (AGM), 6.50%, 1/01/41	6,430	7,738,762
Illinois Finance Authority, RB:		
MJH Education Assistance IV LLC, Sub-Series B, 5.38%, 6/01/35 (b)(c)	900	90,000
	1,675	1,795,834

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Navistar International, Recovery Zone, 6.50%, 10/15/40		
Illinois Finance Authority, Refunding RB:		
Central Dupage Health, Series B, 5.50%, 11/01/39	1,750	1,908,567
Friendship Village Schaumburg, Series A, 5.63%, 2/15/37	455	391,418
Illinois Sports Facilities Authority, RB, State Tax Supported (AMBAC), 5.50%, 6/15/30	10,500	11,468,205
Metropolitan Pier & Exposition Authority, Refunding RB, McCormick Place Expansion Project:		
Series B (AGM), 5.00%, 6/15/50	3,430	3,563,050
Series B-2, 5.00%, 6/15/50	2,725	2,829,749
Railsplitter Tobacco Settlement Authority, RB:		
5.50%, 6/01/23	1,470	1,693,117
6.00%, 6/01/28	1,255	1,404,194
State of Illinois, RB, Build Illinois, Series B, 5.25%, 6/15/34	685	755,055
		45,079,510

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

29

Schedule of Investments (continued)

BlackRock Municipal Income Trust II (BLE)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Indiana 2.6%		
Indiana Finance Authority, RB, Sisters of St. Francis Health, 5.25%, 11/01/39	\$ 915	\$ 980,505
Indiana Finance Authority, Refunding RB, Ascension Health Senior Credit, Series B-5, 5.00%, 11/15/36	1,500	1,567,020
Indiana Finance Authority Wastewater Utility, Refunding RB, First Lien, CWA Authority, Series A, 5.25%, 10/01/38	1,720	1,914,412
Indiana Health Facility Financing Authority, Refunding RB, Methodist Hospital Inc., 5.38%, 9/15/22	3,675	3,674,779
Indiana Municipal Power Agency, RB, Series B, 6.00%, 1/01/39	1,200	1,364,580
		9,501,296
Iowa 0.6%		
Iowa Student Loan Liquidity Corp., RB, Series A-1, AMT, 5.15%, 12/01/22	2,140	2,295,899
Kansas 0.5%		
Kansas Development Finance Authority, Refunding RB, Sisters of Leavenworth, Series A, 5.00%, 1/01/40	1,755	1,865,934
Kentucky 0.3%		
Kentucky Economic Development Finance Authority, RB, Owensboro Medical Health System, Series A, 6.38%, 6/01/40	1,105	1,239,180
Louisiana 3.3%		
Louisiana Local Government Environmental Facilities & Community Development Authority, RB, Westlake Chemical Corp., Series A-1, 6.50%, 11/01/35	3,650	4,077,415
Parish of Saint John the Baptist Louisiana, RB, Marathon Oil Corp., Series A, 5.13%, 6/01/37	7,590	7,855,650
		11,933,065
Maryland 1.5%		
Maryland EDC, RB, Transportation Facilities Project, Series A, 5.75%, 6/01/35	475	501,116
Maryland EDC, Refunding RB, CNX Marine Terminals, Inc., 5.75%, 9/01/25	1,000	1,038,390
Maryland Health & Higher Educational Facilities Authority, RB, Union Hospital of Cecil County Issue, 5.63%, 7/01/32	1,000	1,006,770
Maryland Health & Higher Educational Facilities Authority, Refunding RB, Charlestown Community, 6.25%, 1/01/41	2,400	2,662,680
		5,208,956
Massachusetts 0.3%		
Massachusetts Health & Educational Facilities Authority, Refunding RB, Partners Healthcare, Series J1, 5.00%, 7/01/39	955	1,015,795
Michigan 1.1%		
Kalamazoo Hospital Finance Authority, Refunding RB, Bronson Methodist Hospital, 5.50%, 5/15/36	1,500	1,619,010
Michigan State Hospital Finance Authority, Refunding RB, Henry Ford Health System, Series A, 5.25%,	2,305	2,381,249

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

11/15/46		4,000,259
Minnesota 2.2%		
Tobacco Securitization Authority Minnesota, Refunding RB, Tobacco Settlement Revenue, Series B:		
5.25%, 3/01/25	4,905	5,534,655
5.25%, 3/01/31	2,065	2,245,915
		7,780,570
	Par (000)	Value
Municipal Bonds		
Missouri 2.0%		
370/Missouri Bottom Road/Taussig Road Transportation Development District, RB, 7.20%, 5/01/33	\$ 6,000	\$ 6,039,720
Missouri State Health & Educational Facilities Authority, RB, Senior Living Facilities, Lutheran Senior Home, 5.50%, 2/01/42	1,135	1,153,149
		7,192,869
Multi-State 3.8%		
Centerline Equity Issuer Trust (d)(e):		
5.75%, 5/15/15	1,000	1,073,800
6.00%, 5/15/15	5,000	5,418,250
6.00%, 5/15/19	3,500	3,919,090
6.30%, 5/15/19	3,000	3,369,210
		13,780,350
Nebraska 0.9%		
Lancaster County Hospital Authority No. 1, RB, Immanuel Obligation Group, 5.63%, 1/01/40	1,245	1,326,423
Sarpy County Hospital Authority No. 1, RB, Immanuel Obligation Group, 5.63%, 1/01/40	1,635	1,741,929
		3,068,352
Nevada 0.7%		
County of Clark Nevada, Refunding RB, Alexander Dawson School Nevada Project, 5.00%, 5/15/29	2,465	2,582,876
New Jersey 7.5%		
New Jersey EDA, RB:		
Cigarette Tax, 5.75%, 6/15/34	3,810	3,946,055
Continental Airlines Inc. Project, AMT, 7.20%, 11/15/30 (f)	10,100	10,112,726
New Jersey EDA, Special Assessment Bonds, Refunding, Kapkowski Road Landfill Project, 6.50%, 4/01/28	7,475	8,291,345
New Jersey Transportation Trust Fund Authority, RB, Transportation System, 5.25%, 6/15/36	2,690	3,013,015
Port Authority of New York & New Jersey, RB, JFK International Air Terminal, 6.00%, 12/01/42	1,375	1,534,170
		26,897,311
New York 3.1%		
Albany Industrial Development Agency, RB, New Covenant Charter School Project, Series A, 7.00%, 5/01/35 (b)(c)	985	226,570
Metropolitan Transportation Authority, Refunding RB, Transportation, Series D, 5.25%, 11/15/40	1,325	1,461,104
New York City Industrial Development Agency, RB, American Airlines Inc., JFK International Airport, AMT, 7.75%, 8/01/31 (c)(f)	6,700	6,331,500
New York Liberty Development Corp., Refunding RB, Second Priority, Bank of America Tower at One Bryant Park Project, 6.38%, 7/15/49	1,335	1,448,702
Port Authority of New York & New Jersey, RB, JFK International Air Terminal, 6.00%, 12/01/36	1,410	1,578,875

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

11,046,751

North Carolina 2.2%

Gaston County Industrial Facilities & Pollution Control Financing Authority North Carolina, RB, Exempt Facilities National Gypsum Co. Project, AMT, AMT, 5.75%, 8/01/35	7,500	6,146,400
North Carolina Medical Care Commission, RB, Duke University Health System, Series A, 5.00%, 6/01/42	1,525	1,617,171
		7,763,571

See Notes to Financial Statements.

Schedule of Investments (continued)

BlackRock Municipal Income Trust II (BLE)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Ohio 1.9%		
County of Allen Ohio, Refunding RB, Catholic Healthcare, Series A, 5.25%, 6/01/38	\$ 3,405	\$ 3,627,551
County of Montgomery Ohio, Refunding RB, Catholic Healthcare, Series A, 5.00%, 5/01/39	3,025	3,186,747
		6,814,298
Oklahoma 0.8%		
Tulsa Airports Improvement Trust, RB, Series A, Mandatory Put Bonds, AMT, 7.75%, 6/01/35 (f)	3,925	3,039,873
Pennsylvania 2.5%		
Allegheny County Hospital Development Authority, Refunding RB, Health System, West Penn, Series A, 5.38%, 11/15/40	2,000	1,652,940
Pennsylvania Economic Development Financing Authority, RB:		
Amtrak Project, Series A, AMT, 6.38%, 11/01/41	5,175	5,196,631
Aqua Pennsylvania Inc. Project, 5.00%, 11/15/40	2,065	2,256,591
		9,106,162
Puerto Rico 5.9%		
Puerto Rico Commonwealth Aqueduct & Sewer Authority, RB, Senior Lien, Series A:		
5.13%, 7/01/37	375	374,498
5.25%, 7/01/42	625	624,387
Puerto Rico Sales Tax Financing Corp., RB:		
CAB, Series A, 6.58%, 8/01/33 (a)	13,600	4,396,064
CAB, Series A, 6.61%, 8/01/34 (a)	5,500	1,646,865
CAB, CAB, Series A, 6.61%, 8/01/35 (a)	14,055	3,916,988
CAB, Series A, 6.64%, 8/01/36 (a)	11,875	3,082,037
First Sub-Series A, 6.50%, 8/01/44	6,100	7,173,539
		21,214,378
South Carolina 3.9%		
County of Greenwood South Carolina, RB, Facilities, Self Memorial Hospital:		
5.50%, 10/01/26	2,280	2,283,329
5.50%, 10/01/31	3,250	3,255,818
South Carolina Jobs-EDA, Refunding RB, Palmetto Health Alliance, Series A, 6.25%, 8/01/31	2,640	2,788,896
South Carolina State Ports Authority, RB, 5.25%, 7/01/40	3,595	3,953,601
South Carolina State Public Service Authority, Refunding RB, Santee Cooper Project, Series C, 5.00%, 12/01/36	1,685	1,880,460
		14,162,104
Tennessee 3.5%		
Knox County Health Educational & Housing Facilities Board Tennessee, Refunding RB, CAB, Series A (AGM), 5.77%, 1/01/21 (a)	20,405	12,584,988
Texas 15.6%		
Brazos River Authority, RB, TXU Electric, Series A, AMT, 8.25%, 10/01/30	2,400	396,384
	2,350	2,519,435

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Central Texas Regional Mobility Authority, RB, Senior Lien, 6.25%, 1/01/46		
City of Dallas Texas, Refunding RB, 5.00%, 10/01/35	1,650	1,868,807
City of Houston Texas, Refunding RB: Combined, First Lien, Series A (AGC), 6.00%, 11/15/35	9,145	11,023,566
Senior Lien, Series A, 5.50%, 7/01/39	1,675	1,840,909
Gulf Coast Waste Disposal Authority, Refunding RB, Series A, AMT, 6.10%, 8/01/24	5,000	5,088,900
Harris County-Houston Sports Authority, Refunding RB, Third Lien, Series A-3 (NPFGC), 5.96%, 11/15/36 (a)	25,375	4,908,286
Lower Colorado River Authority, Refunding RB, Series A (NPFGC), 5.00%, 5/15/31 (g)	5	5,287

	Par (000)	Value
Municipal Bonds		
Texas (concluded)		
North Texas Tollway Authority, RB, Toll 2nd Tier, Series F, 6.13%, 1/01/31	\$ 6,790	\$ 7,525,085
San Antonio Energy Acquisition Public Facility Corp., RB, Gas Supply, 5.50%, 8/01/24	3,600	3,967,020
Tarrant County Cultural Education Facilities Finance Corp., RB, Scott & White Healthcare, 6.00%, 8/15/45	4,410	5,041,159
Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien:		
LBJ Infrastructure Group LLC, LBJ Freeway Managed Lanes Project, 7.00%, 6/30/40	4,210	4,787,107
NTE Mobility Partners LLC, North Tarrant Express Managed Lanes Project, 6.88%, 12/31/39	3,000	3,400,230
University of Texas System, Refunding RB, Financing System Bonds, Series B, 5.00%, 8/15/43 (h)	3,350	3,843,924
		56,216,099
Utah 1.2%		
City of Riverton Utah, RB, IHC Health Services Inc., 5.00%, 8/15/41	3,960	4,252,842
Virginia 1.8%		
City of Norfolk Virginia, Refunding RB, Series B (AMBAC), 5.50%, 2/01/31 (g)	1,240	1,241,017
Halifax County IDA, Refunding RB, Old Dominion Electric Co-op Project, AMT (AMBAC), 5.63%, 6/01/28	5,000	5,155,700
		6,396,717
Washington 2.3%		
Bellingham Washington, Water & Sewer Revenue, 5.00%, 8/01/36	5,050	5,687,967
Washington Health Care Facilities Authority, RB, Swedish Health Services, Series A, 6.75%, 11/15/41	2,190	2,585,229
		8,273,196
Wisconsin 2.0%		
Wisconsin Health & Educational Facilities Authority, RB:		
Ascension Health Senior Credit Group, 5.00%, 11/15/30	1,790	1,971,255
Ascension Health Senior Credit Group, 5.00%, 11/15/33	910	986,140
Aurora Health Care, 6.40%, 4/15/33	3,930	4,038,468
		6,995,863
Wyoming 1.5%		
County of Sweetwater Wyoming, Refunding RB, Idaho Power Co. Project, 5.25%, 7/15/26	3,355	3,837,952
Wyoming Municipal Power Agency, RB, Series A: 5.50%, 1/01/33	800	880,688
5.50%, 1/01/38	750	816,983

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

	5,535,623
Total Municipal Bonds 120.6%	433,397,881

**Municipal Bonds Transferred to
Tender Option Bond Trusts (i)**

Alabama 0.7%

Alabama Special Care Facilities Financing Authority- Birmingham, Refunding RB, Ascension Health Senior Credit, Series C-2, 5.00%, 11/15/36	2,519	2,637,093
--	-------	-----------

Arizona 0.8%

Salt River Arizona Project Agricultural Improvement & Power District, RB, Series A, 5.00%, 1/01/38	2,630	2,863,745
---	-------	-----------

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

31

Schedule of Investments (continued)

BlackRock Municipal Income Trust II (BLE)
(Percentages shown are based on Net Assets)

Municipal Bonds Transferred to Tender Option Bond Trusts (i)	Par (000)	Value
California 6.9%		
California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%, 10/01/39	\$ 2,850	\$ 3,214,373
Los Angeles Community College District California, GO, Election of 2001, Series A (AGM), 5.00%, 8/01/32	2,530	2,782,747
San Diego Community College District California, GO, Election of 2002, 5.25%, 8/01/33	1,840	2,125,097
San Francisco City & County Public Utilities Commission, RB, Series B, 5.00%, 11/01/39	10,335	11,457,691
University of California, RB, Limited Project, Series B, 4.75%, 5/15/38	5,099	5,218,369
		24,798,277
Colorado 2.0%		
Colorado Health Facilities Authority, RB (AGM), Catholic Health: Series C-3, 5.10%, 10/01/41	4,230	4,439,385
Series C-7, 5.00%, 9/01/36	2,710	2,847,695
		7,287,080
Connecticut 3.3%		
Connecticut State Health & Educational Facility Authority, RB, Yale University: Series T-1, 4.70%, 7/01/29	5,170	5,971,091
Series X-3, 4.85%, 7/01/37	5,130	5,843,327
		11,814,418
Georgia 1.4%		
Private Colleges & Universities Authority, Refunding RB, Emory University, Series C, 5.00%, 9/01/38	4,638	5,068,483
Massachusetts 2.5%		
Massachusetts School Building Authority, RB, Sales Tax Revenue, Senior, Series B, 5.00%, 10/15/41	4,950	5,556,573
Massachusetts Water Resources Authority, Refunding RB, General, Series A, 5.00%, 8/01/41	3,150	3,460,055
		9,016,628
New Hampshire 0.7%		
New Hampshire Health & Education Facilities Authority, Refunding RB, Dartmouth College, 5.25%, 6/01/39	2,219	2,522,142
New York 12.7%		
Hudson New York Yards Infrastructure Corp., Senior RB, Series A, 5.75%, 2/15/47	1,750	1,977,123
New York City Municipal Water Finance Authority, RB: Second General Resolution, Series HH, 5.00%, 6/15/31	9,149	10,574,792
Series FF-2, 5.50%, 6/15/40	1,710	1,971,908
New York State Dormitory Authority, ERB, Series F, 5.00%, 3/15/35	9,284	10,085,030
New York State Liberty Development Corp., RB, Liberty Revenue Bonds, 1 World Trade Center Port Authority Construction, 5.25%, 12/15/43	11,670	13,093,156

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

New York State Liberty Development Corp., Refunding RB, Liberty Revenue Bonds, 4 World Trade Center Project, 5.75%, 11/15/51	7,040	7,998,637	45,700,646
Texas 1.2%			
Harris County Texas Metropolitan Transit Authority, RB, Sales & Use Tax Bonds, Series A, 5.00%, 11/01/41	3,720	4,154,905	
Virginia 1.8%			
University of Virginia, Refunding RB, General, 5.00%, 6/01/40	5,909	6,521,102	
Municipal Bonds Transferred to Tender Option Bond Trusts (i)	Par (000)		Value
Washington 3.5%			
Central Puget Sound Regional Transit Authority, RB, Series A (AGM), 5.00%, 11/01/32	\$ 3,029	\$ 3,344,843	
State of Washington, GO, Various Purpose, Series E, 5.00%, 2/01/34	8,113	9,142,522	12,487,365
Total Municipal Bonds Transferred to Tender Option Bond Trusts 37.5%			134,871,884
Total Long-Term Investments (Cost \$531,470,748) 158.1%			568,269,765
Short-Term Securities	Shares		
FFI Institutional Tax-Exempt Fund, 0.01% (j)(k)	12,802,513	12,802,513	
Total Short-Term Securities (Cost \$12,802,513) 3.5%		12,802,513	
Total Investments (Cost \$544,273,261) 161.6%		581,072,278	
Other Assets Less Liabilities 0.4%		1,423,884	
Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (19.9)%		(71,723,715)	
VMTP Shares, at Liquidation Value (42.1)%		(151,300,000)	
Net Assets 100.0%		\$ 359,472,447	

- (a) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (b) Issuer filed for bankruptcy and/or is in default of interest payments.
- (c) Non-income producing security.
- (d) Security exempt from registration pursuant to Rule 144A under the Securities Act of 1933. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (e) Security represents a beneficial interest in a trust. The collateral deposited into the trust is federally tax-exempt revenue bonds issued by various state or local governments, or their respective agencies or authorities. The security is subject to remarketing prior to its stated maturity.
- (f) Variable rate security. Rate shown is as of report date.
- (g) US government securities, held in escrow, are used to pay interest on this security, as well as to retire the bond in full at the date indicated, typically at a premium to par.
- (h) When-issued security. Unsettled when-issued transactions were as follows:

Counterparty	Value	Unrealized Appreciation
--------------	-------	----------------------------

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Morgan Stanley Co. \$ 3,843,924 \$ 34,103

- (i) Securities represent bonds transferred to a TOB in exchange for which the Trust acquired residual interest certificates. These securities serve as collateral in a financing transaction. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to TOBs.
- (j) Investments in companies considered to be an affiliate of the Trust during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

Affiliate	Shares Held at August 31, 2011	Net Activity	Shares Held at February 29, 2012	Income
FII Institutional Tax-Exempt Fund	11,840,465	962,048	12,802,513	\$ 704

- (k) Represents the current yield as of report date.

See Notes to Financial Statements.

Schedule of Investments (concluded)

BlackRock Municipal Income Trust II (BLE)

Financial futures contracts sold as of February 29, 2012 were as follows:

Contracts	Issue	Exchange	Expiration	Notional Value	Unrealized Depreciation
79	10-Year US Treasury Note	Chicago Board of Trade	March 2012	\$ 10,369,984	\$ (60,634)

Fair Value Measurements Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs are categorized into a disclosure hierarchy consisting of three broad levels for financial reporting purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities

Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust's own assumptions used in determining the fair value of investments and derivative financial instruments)

Changes in valuation techniques may result in transfers in or out of an assigned level within the disclosure hierarchy. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investment and derivative financial instrument and does not necessarily correspond to the Trust's perceived risk of investing in those securities. For information about the Trust's policy regarding valuation of investments and derivative financial instruments and other significant accounting policies, please refer to Note 1 of the Notes to Financial Statements.

The following tables summarize the inputs used as of February 29, 2012 in determining the fair valuation of the Fund's investments and derivative financial instruments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments ¹		\$ 568,269,765		\$ 568,269,765
Short-Term Securities	\$ 12,802,513			12,802,513
Total	\$ 12,802,513	\$ 568,269,765		\$ 581,072,278

¹ See above Schedule of Investments for values in each state or political subdivision.

Valuation Inputs	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments²				
Liabilities:				
Interest rate contracts	\$ (60,634)			\$ (60,634)

² Derivative financial instruments are financial futures contracts, which are valued at the unrealized appreciation/depreciation on the instrument.

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

33

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Schedule of Investments February 29, 2012 (Unaudited)

BlackRock MuniHoldings Investment Quality Fund (MFL)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Alabama 3.5%		
Birmingham Special Care Facilities Financing Authority, RB, Children's Hospital (AGC):		
6.13%, 6/01/34	\$ 4,980	\$ 5,731,731
6.00%, 6/01/39	10,995	12,564,976
Selma Industrial Development Board, RB, International Paper Co., Project, Series A, 5.38%, 12/01/35	1,745	1,827,835
		20,124,542
Arizona 2.1%		
State of Arizona, COP, Department of Administration, Series A (AGM), 5.25%, 10/01/24	10,260	11,931,046
California 18.7%		
California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%, 10/01/38	8,920	10,177,363
California Health Facilities Financing Authority, RB, Series A, 5.00%, 11/15/40	1,080	1,173,388
California Health Facilities Financing Authority, Refunding RB, Sutter Health, Series B, 6.00%, 8/15/42	5,370	6,205,303
California State Public Works Board, RB, Various Capital Projects, Series G-1 (AGC), 5.25%, 10/01/24	5,000	5,748,100
California State University, RB, Systemwide, Series A (AGM), 5.00%, 11/01/39	3,325	3,546,279
City of San Jose California, RB, Series A-1, AMT, 5.75%, 3/01/34	4,450	4,910,130
County of Sacramento California, RB, Senior Series A (AGC), 5.50%, 7/01/41	6,600	7,156,776
Los Angeles Community College District California, GO: Election of 2001, Series A (NPFGC), 5.00%, 8/01/32	10,000	10,999,000
Election of 2008, Series C, 5.25%, 8/01/39	3,675	4,212,653
Los Angeles Department of Water & Power, RB, Power System, Sub-Series A-1, 5.25%, 7/01/38	5,000	5,701,150
Los Angeles Municipal Improvement Corp., Refunding RB, Real Property, Series B (AGC), 5.50%, 4/01/39	2,980	3,284,347
Los Angeles Unified School District California, GO, Series D, 5.25%, 7/01/25	3,485	4,091,913
Manteca Financing Authority California, RB, Manteca Sewer (AGC):		
5.63%, 12/01/33	2,450	2,772,347
5.75%, 12/01/36	3,285	3,711,590
Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34	4,110	4,779,149
San Bernardino Community College District, GO, Election of 2002, Series A, 6.25%, 8/01/33	3,820	4,545,112
San Diego Public Facilities Financing Authority, Refunding RB, Series B (AGC), 5.38%, 8/01/34	4,690	5,419,389
San Jacinto Unified School District, GO, Election of 2006 (AGM), 5.25%, 8/01/32	3,000	3,255,630
State of California, GO, Various Purpose (AGC), 5.50%, 11/01/39	15,000	16,671,900

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

			108,361,519
Colorado 1.2%			
Colorado Health Facilities Authority, RB, Hospital, NCMC Inc. Project, Series B (AGM), 6.00%, 5/15/26	5,925		6,946,292
District of Columbia 0.2%			
District of Columbia Water & Sewer Authority, RB, Series A (NPFGC), 5.00%, 10/01/38	1,000		1,079,200
Florida 7.3%			
County of Lee Florida, Refunding RB, Series A, AMT, 5.38%, 10/01/32	4,600		4,947,622
County of Miami-Dade Florida, RB, AMT, Miami International Airport, Series A: (AGM), 5.50%, 10/01/41	3,500		3,703,630
(NPFGC), 6.00%, 10/01/29	8,000		8,055,680
		Par (000)	Value
Municipal Bonds			
Florida (concluded)			
Florida Housing Finance Corp., RB, Waverly Apartments, Series C-1, AMT (AGM), 6.30%, 7/01/30	\$ 2,055	\$	2,066,960
Florida Housing Finance Corp., Refunding RB, AMT (NPFGC) Homeowner Mortgage, Series 2: 5.75%, 7/01/14	360		360,900
5.90%, 7/01/29	5,880		5,948,855
Jacksonville Port Authority, RB, AMT (AGC), 6.00%, 11/01/38	6,740		6,831,260
Manatee County Housing Finance Authority, RB, Series A, AMT (Ginnie Mae), 5.90%, 9/01/40	2,700		3,037,527
Miami-Dade County Housing Finance Authority Florida, MRB, Marbrisa Apartments Project, Series 2A, AMT (AGM), 6.00%, 8/01/26	2,185		2,200,229
Orange County Health Facilities Authority, RB, The Nemours Foundation Project, Series A, 5.00%, 1/01/29	4,435		4,841,911
			41,994,574
Illinois 18.4%			
Chicago Board of Education Illinois, GO, Series A: 5.50%, 12/01/39	6,370		7,212,114
5.00%, 12/01/41	12,865		13,873,359
Chicago Board of Education Illinois, GO, Refunding, Chicago School Reform Board, Series A (NPFGC), 5.50%, 12/01/26	1,620		1,972,787
Chicago Transit Authority, RB, Federal Transit Administration Section 5309, Series A (AGC), 6.00%, 6/01/26	6,315		7,414,315
Chicago Transit Authority, RB, Sale Tax Receipts Revenue: 5.25%, 12/01/36	1,960		2,181,284
5.25%, 12/01/40	5,515		6,123,470
City of Chicago Illinois, O Hare International Airport, Third Lien, RB, Series C (AGM), 5.25%, 1/01/35	4,520		4,947,637
City of Chicago Illinois, RB, Sales Tax Revenue, Series A, 5.25%, 1/01/38	2,445		2,740,038
City of Chicago Illinois, RB, Third Lien, O Hare International Airport, Series A, 5.75%, 1/01/39	7,395		8,486,576
City of Chicago Illinois, Refunding RB, General, Third Lien, Series C, 6.50%, 1/01/41	16,800		20,219,472
Illinois Finance Authority, RB, University of Chicago, Series B, 5.50%, 7/01/37	10,000		11,200,100
Illinois Finance Authority, Refunding RB, Carle Foundation, Series A, 6.00%, 8/15/41	4,000		4,390,200
	2,700		2,887,920

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Illinois Municipal Electric Agency, RB, Series A
(NPFGC), 5.25%, 2/01/35

Railsplitter Tobacco Settlement Authority, RB:

5.50%, 6/01/23	4,365	5,027,520
6.00%, 6/01/28	1,245	1,393,006

State of Illinois, RB, Build Illinois, Series B,
5.25%, 6/15/26

5,625	6,386,062
	106,455,860

Indiana 5.5%

Indiana Finance Authority WasteWater Utility, RB,
First Lien, CWA Authority, Series A:

5.25%, 10/01/31	5,810	6,647,279
5.00%, 10/01/41	2,000	2,167,860

Indianapolis Local Public Improvement Bond Bank, RB,
Series K (AGM), 5.00%, 6/01/25

6,535	7,438,006
-------	-----------

Indianapolis Local Public Improvement Bond Bank,
Refunding RB, Waterworks Project, Series A (AGC),
5.50%, 1/01/38

14,105	15,752,323
	32,005,468

See Notes to Financial Statements.

Schedule of Investments (continued)

BlackRock MuniHoldings Investment Quality Fund (MFL)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Iowa 0.6%		
Iowa Finance Authority, Refunding RB, Iowa Health System (AGC), 5.25%, 2/15/29	\$ 3,350	\$ 3,681,148
Louisiana 0.3%		
New Orleans Aviation Board Louisiana, Refunding RB, GARB, Restructuring (AGC):		
Series A-1, 6.00%, 1/01/23	720	859,500
Series A-2, 6.00%, 1/01/23	500	596,875
		1,456,375
Michigan 13.2%		
City of Detroit Michigan, RB:		
Second Lien, Series B (AGM), 6.25%, 7/01/36	6,320	7,246,512
Second Lien, Series B (NPFGC), 5.50%, 7/01/29	7,490	8,435,013
Senior Lien, Series B (AGM), 7.50%, 7/01/33	2,780	3,496,100
System, Second Lien, Series A (BHAC), 5.50%, 7/01/36	16,440	18,136,608
City of Detroit Michigan, Refunding RB, Senior Lien, Series C-1 (AGM), 7.00%, 7/01/27	9,055	11,169,162
Hudsonville Public Schools, GO, School Building & Site (Q-SBLF), 5.25%, 5/01/41	6,015	6,655,357
Michigan State Building Authority, RB, Facilities Program, Series H (AGM), 5.00%, 10/15/26	1,760	1,980,704
Michigan State Building Authority, Refunding RB, Facilities Program, Series I (AGC):		
5.25%, 10/15/22	6,150	7,170,408
5.25%, 10/15/24	2,755	3,166,845
5.25%, 10/15/25	1,435	1,643,204
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	5,780	7,280,604
		76,380,517
Minnesota 2.0%		
City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series B (AGC), 6.50%, 11/15/38	9,900	11,642,697
Nebraska 0.9%		
Nebraska Investment Finance Authority, Refunding RB, Series A:		
5.90%, 9/01/36	3,650	4,103,294
6.05%, 9/01/41	1,115	1,187,274
		5,290,568
Nevada 5.7%		
Clark County Water Reclamation District, GO, Series A, 5.25%, 7/01/34	11,140	12,437,476
County of Clark Nevada, RB:		
Las Vegas-McCarran International Airport, Series A (AGC), 5.25%, 7/01/39	9,005	9,780,781
Subordinate Lien, Series A-2 (NPFGC), 5.00%, 7/01/36	10,380	10,634,725
		32,852,982
New Jersey 3.7%		
	6,500	7,092,865

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

New Jersey Health Care Facilities Financing Authority, RB, Virtua Health (AGC), 5.50%, 7/01/38		
New Jersey Higher Education Student Assistance Authority, RB, Series 1, AMT, 5.75%, 12/01/28	4,475	5,017,594
New Jersey Transportation Trust Fund Authority, RB, Transportation System:		
Series A, 5.50%, 6/15/41	5,410	6,178,815
Series B, 5.25%, 6/15/36	2,960	3,315,437
		21,604,711

	Par (000)	Value
Municipal Bonds		
New York 8.1%		
New York City Municipal Water Finance Authority, RB:		
Fiscal 2009, Series EE, 5.25%, 6/15/40	\$ 7,500	\$ 8,461,650
Series FF-2, 5.50%, 6/15/40	4,000	4,613,760
New York City Municipal Water Finance Authority, RB, Second General Resolution:		
Fiscal 2012, Series BB, 5.00%, 6/15/44	5,000	5,499,500
Series EE, 5.38%, 6/15/43	3,475	3,941,866
New York City Transitional Finance Authority, RB, Fiscal 2009:		
Series S-3, 5.25%, 1/15/39	5,625	6,178,612
Series S-4 (AGC), 5.50%, 1/15/29	4,000	4,663,080
New York City Transitional Finance Authority, RB, Sub-Future Tax Secured, Series C, 5.00%, 11/01/39	4,865	5,406,572
New York City Transitional Finance Authority, RB, Sub-Series S-2A, 5.00%, 7/15/30	7,110	8,233,167
		46,998,207
North Carolina 1.4%		
City of Charlotte NC, RB, Airport Revenue, Charlotte Douglas Airport, Series A, 5.00%, 7/01/41	7,540	8,270,249
Pennsylvania 1.7%		
Pennsylvania Turnpike Commission, RB, Sub-Series A, 6.00%, 12/01/41	4,945	5,483,807
Philadelphia Hospitals & Higher Education Facilities Authority, RB, Children s Hospital Philadelphia, Series D, 5.00%, 7/01/32	3,785	4,186,135
		9,669,942
Puerto Rico 1.3%		
Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A, 6.38%, 8/01/39	6,610	7,748,242
Texas 22.7%		
City of Austin Texas, Refunding RB, Series A (AGM):		
5.00%, 11/15/28	3,360	3,824,688
5.00%, 11/15/29	4,255	4,801,980
City of Houston Texas, Refunding RB, Combined First Lien, Series A (AGC):		
6.00%, 11/15/35	12,700	15,308,834
6.00%, 11/15/36	9,435	11,325,397
5.38%, 11/15/38	5,000	5,702,000
Clifton Higher Education Finance Corp., Refunding RB, Baylor University, 5.25%, 3/01/32	5,690	6,510,213
Dallas Area Rapid Transit, Refunding RB, Senior Lien, 5.25%, 12/01/38	10,110	11,236,355
Harris County Cultural Education Facilities Finance Corp., RB, Texas Children s Hospital Project, 5.25%, 10/01/29	3,645	4,155,373
Harris County Health Facilities Development Corp., Refunding RB, Memorial Hermann Healthcare System, Series B, 7.25%, 12/01/35	1,500	1,791,855

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Lamar Texas Consolidated Independent School District, GO, Refunding School House, Series A, 5.00%, 2/15/45 (a)	4,175	4,712,782
Lower Colorado River Authority, Refunding RB, LCRA Transmission Services Project (AGC), 5.50%, 5/15/36	3,295	3,640,843
Lubbock Cooper ISD Texas, GO, School Building (AGC), 5.75%, 2/15/42	2,300	2,588,489
North Texas Tollway Authority, RB, System: First Tier, Series K-1 (AGC), 5.75%, 1/01/38	12,150	13,595,485
Special Projects System, Series A, 5.50%, 9/01/41	4,200	4,833,906
North Texas Tollway Authority, Refunding RB, System, First Tier: (AGM), 6.00%, 1/01/43	5,555	6,483,074
Series A (AGC), 5.75%, 1/01/40	7,000	7,719,950

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

35

Schedule of Investments (continued)

BlackRock MuniHoldings Investment Quality Fund (MFL)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Texas (concluded)		
Tarrant County Cultural Education Facilities Finance Corp., Refunding RB, Christus Health, Series A (AGC), 6.50%, 7/01/37	\$ 1,770	\$ 2,036,934
University of Texas, RB, Refunding Financing System Series B, 5.00%, 8/15/43 (a)	8,495	9,747,503
Waco Educational Finance Corporation, RB, Baylor University Issue 5.00%, 3/01/43	10,000	11,176,400
		131,192,061
Utah 1.2%		
City of Riverton Utah, RB, IHC Health Services Inc., 5.00%, 8/15/41	6,375	6,846,431
Virginia 0.9%		
Virginia Public School Authority, RB, School Financing, 6.50%, 12/01/35	4,300	5,058,520
Washington 3.2%		
City of Seattle Washington, Refunding RB, Series A, 5.25%, 2/01/36	4,200	4,803,960
State of Washington, GO, Various Purpose, Series B, 5.25%, 2/01/36	3,290	3,785,013
University of Washington, General Revenue, Refunding Bonds, Series A, 5.00%, 7/01/41 (a)	8,700	9,888,246
		18,477,219
Total Municipal Bonds 123.8%		716,068,370
Municipal Bonds Transferred to Tender Option Bond Trusts (b)		
Alabama 1.2%		
Mobile Board of Water & Sewer Commissioners, RB (NPFGC), 5.00%, 1/01/31	6,500	6,863,870
California 2.9%		
California State University, Refunding RB, Systemwide, Series A (AGM), 5.00%, 11/01/32	7,960	8,857,092
Los Angeles Unified School District California, GO, Series I, 5.00%, 1/01/34	2,400	2,652,360
San Diego Community College District California, GO, Election of 2002 (AGM), 5.00%, 5/01/30	5,000	5,513,850
		17,023,302
District of Columbia 0.7%		
District of Columbia Water & Sewer Authority, RB, Series A, 6.00%, 10/01/35	3,381	4,192,125
Florida 4.5%		
City of Jacksonville Florida, RB, Better Jacksonville (NPFGC), 5.00%, 10/01/27	10,000	10,560,400
Hillsborough County Aviation Authority, RB, Series A, AMT (AGC), 5.50%, 10/01/38	10,657	11,283,407
Lee County Housing Finance Authority, RB, Multi-County Program, Series A-2, AMT (Ginnie Mae), 6.00%, 9/01/40	4,065	4,355,851

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

		26,199,658
Illinois 1.5%		
Chicago Transit Authority, Refunding RB, Federal Transit Administration Section 5309 (AGM), 5.00%, 6/01/28	7,737	8,378,442
Indiana 1.8%		
Indiana Health & Educational Facilities Financing Authority, Refunding RB, St. Francis, Series E (AGM), 5.25%, 5/15/41	9,850	10,401,108
Municipal Bonds Transferred to Tender Option Bond Trusts (b)	Par (000)	Value
Kentucky 0.1%		
Kentucky State Property & Building Commission, Refunding RB, Project No. 93 (AGC), 5.25%, 2/01/27	\$ 404	\$ 461,617
Massachusetts 1.8%		
Massachusetts School Building Authority, RB, Senior-Series B, 5.00%, 10/15/41	9,440	10,596,778
Nevada 2.6%		
Clark County Water Reclamation District, GO: Limited Tax, 6.00%, 7/01/38	8,000	9,300,480
Series B, 5.50%, 7/01/29	5,008	5,834,918
		15,135,398
New Jersey 3.8%		
New Jersey EDA, RB, School Facilities Construction, Series Z (AGC), 6.00%, 12/15/34	4,350	5,005,110
New Jersey State Housing & Mortgage Finance Agency, RB, S/F Housing, Series CC, 5.25%, 10/01/29	7,532	8,088,583
New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series A (AGM), 5.00%, 12/15/32	8,000	8,637,120
		21,730,813
New York 9.7%		
Hudson Yards Infrastructure Corp., RB, Series A, 5.75%, 2/15/47	9,249	10,450,507
New York City Municipal Water Finance Authority, RB, Series FF-2, 5.50%, 6/15/40	4,994	5,760,048
New York Liberty Development Corp., RB, Series 1, 5.25%, 12/15/43	13,950	15,651,202
New York Liberty Development Corp., Refunding RB, World Trade Center Project, 5.75%, 11/15/51	8,200	9,316,594
New York State Dormitory Authority, Short Term Personal Income, Tax Revenue Education, Series B, 5.25%, 3/15/38	13,500	15,007,950
		56,186,301
Puerto Rico 1.1%		
Puerto Rico Sales Tax Financing Corp., Sales Tax, RB, Senior Series C, 5.25%, 8/01/40	5,590	6,208,030
Texas 4.3%		
City of San Antonio Texas, Refunding RB, Series A, 5.25%, 2/01/31	12,027	13,812,878
North Texas Tollway Authority, RB, Special Projects System, Series A, 5.50%, 9/01/41	9,640	11,094,965
		24,907,843
Total Municipal Bonds Transferred to Tender Option Bond Trusts 36.0%		208,285,285
Total Long-Term Investments (Cost \$844,237,606) 159.8%		924,353,655

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Short-Term Securities	Shares	
FFI Institutional Tax-Exempt Fund, 0.01% (c)(d)	30,313,901	30,313,901
Total Short-Term Securities		
(Cost \$30,313,901) 5.3%		30,313,901
Total Investments (Cost \$874,551,507) 165.1%		954,667,556
Liabilities in Excess of Other Assets (0.2)%		(1,218,568)
Liability for TOB Trust Certificates, Including Interest		
Expense and Fees Payable (17.4)%		(100,504,544)
VRDP Shares, at Liquidation Value (47.5)%		(274,600,000)
Net Assets Applicable to Common Shares 100.0%		\$ 578,344,444

See Notes to Financial Statements.

Schedule of Investments (concluded)

BlackRock MuniHoldings Investment Quality Fund (MFL)

(a) When-issued security. Unsettled when-issued transactions were as follows:

Counterparty	Value	Unrealized Appreciation
Morgan Keegan & Co.	\$ 4,712,782	\$ 17,786
Morgan Stanley Co.	\$ 9,747,503	\$ 86,479
Barclays Capital Inc.	\$ 9,888,246	\$ 66,816

(b) Securities represent bonds transferred to a TOB in exchange for which the Trust acquired residual interest certificates. These securities serve as collateral in a financing transaction. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to TOBs.

(c) Investments in companies considered to be an affiliate of the Trust during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

Affiliate	Shares Held at August 31, 2011	Net Activity	Shares Held at February 29, 2012	Income
FPI Institutional Tax-Exempt Fund	22,122,505	8,191,396	30,313,901	\$ 1,723

(d) Represents the current yield as of report date.

Financial futures contracts sold as of February 29, 2012 were as follows:

Contracts	Issue	Exchange	Expiration	Notional Value	Unrealized Depreciation
195	10-Year US Treasury Note	Chicago Board of Trade	March 2012	\$ 25,596,797	\$ (149,667)

Fair Value Measurements Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs are categorized into a disclosure hierarchy consisting of three broad levels for financial statement purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities

Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust's own assumptions used in determining the fair value of investments and derivative financial instruments)

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Changes in valuation techniques may result in transfers in or out of an assigned level within the disclosure hierarchy. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investment and derivative financial instrument and does not necessarily correspond to the Trust's perceived risk of investing in those securities. For information about the Trust's policy regarding valuation of investments and derivative financial instruments and other significant accounting policies, please refer to Note 1 of the Notes to Financial Statements.

The following tables summarize the inputs used as of February 29, 2012 in determining the fair valuation of the Trust's investments and derivative financial instruments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments ¹		\$ 924,353,655		\$ 924,353,655
Short-Term Securities	\$ 30,313,901			30,313,901
Total	\$ 30,313,901	\$ 924,353,655		\$ 954,667,556

¹ See above Schedule of Investments for values in each state or political subdivision.

Valuation Inputs	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments ²				
Liabilities:				
Interest rate contracts	\$ (149,667)			\$ (149,667)

² Derivative financial instruments are financial futures contracts, which are valued at the unrealized appreciation/depreciation on the instrument.

See Notes to Financial Statements.

Schedule of Investments February 29, 2012 (Unaudited)

BlackRock MuniVest Fund, Inc. (MVF)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Alabama 3.0%		
Alabama State Docks Department, Refunding RB, 6.00%, 10/01/40	\$ 7,610	\$ 8,438,272
Camden IDB Alabama, RB, Weyerhaeuser Co. Project, Series A, 6.13%, 12/01/13 (a)	2,550	2,810,483
Selma IDB, RB: Gulf Opportunity Zone, International Paper, 5.80%, 5/01/34	1,850	1,969,843
International Paper Co., Series A, 5.38%, 12/01/35	1,000	1,047,470
Selma IDB Alabama, Refunding RB, International Paper Co. Project, Series B, 5.50%, 5/01/20	5,000	5,113,650
		19,379,718
Alaska 0.1%		
Northern Tobacco Securitization Corp., RB, Asset-Backed, Series A, 5.00%, 6/01/46	1,250	912,787
Arizona 2.7%		
Maricopa County IDA, RB, Arizona Charter Schools Project, Series A, 6.75%, 7/01/29	4,100	2,809,894
Maricopa County Pollution Control Corp., Refunding RB, Southern California Edison Co., Series A, 5.00%, 6/01/35	3,300	3,583,041
Phoenix Civic Improvement Corp., RB, Junior Lien, Series A, 5.00%, 7/01/40	2,000	2,121,580
Pima County IDA, RB, Arizona Charter School Project, Series E, 7.25%, 7/01/31	1,995	1,998,551
Pima County IDA, Refunding RB: Arizona Charter, Series I, 6.10%, 7/01/13 (a)(b)	110	117,932
Arizona Charter, Series I, 6.30%, 7/01/13 (a)(b)	230	247,197
Arizona Charter, Series I, 6.10%, 7/01/24 (b)	370	363,991
Arizona Charter, Series I, 6.30%, 7/01/31 (b)	740	713,205
Charter Schools II, Series A, 6.75%, 7/01/21	900	901,728
Salt Verde Financial Corp., RB, Senior, 5.00%, 12/01/37	5,000	4,999,600
		17,856,719
California 10.0%		
California Health Facilities Financing Authority, RB, Scripps Health, Series A, 5.00%, 11/15/40	2,800	3,042,116
California Health Facilities Financing Authority, Refunding RB: Catholic Healthcare West, Series A, 6.00%, 7/01/34	1,055	1,222,861
State Joseph Health System, Series A, 5.75%, 7/01/39	5,000	5,531,350
Sutter Health, Series B, 6.00%, 8/15/42	5,600	6,471,080
California HFA, RB, Home Mortgage, Series K, AMT, 5.50%, 2/01/42	2,515	2,508,159
California State Public Works Board, RB, Department of Mental Health, Coalinga, Series A: 5.50%, 6/01/23	6,000	6,186,120
5.13%, 6/01/29	10,435	10,637,752

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

California Statewide Communities Development Authority, RB, Health Facility, Memorial Health Services, Series A, 6.00%, 10/01/23	4,240	4,460,904
Golden State Tobacco Securitization Corp. California, RB, Asset-Backed, Series A-3, 7.88%, 6/01/13 (a)	10,725	11,724,356
Los Angeles Department of Airports, RB, Series A, 5.25%, 5/15/39	1,200	1,330,332
State of California, GO, Various Purpose, 6.50%, 4/01/33	9,700	11,929,739
		65,044,769

	Par (000)	Value
Municipal Bonds		
Colorado 1.0%		
Colorado Health Facilities Authority, RB, Catholic Health Initiatives, Series D, 6.25%, 10/01/33	\$ 2,500	\$ 2,901,325
Colorado Health Facilities Authority, Refunding RB, Evangelical Lutheran, Series A, 5.25%, 6/01/34	3,000	3,030,870
Colorado Housing & Finance Authority, Refunding RB, S/F Program, Senior Series A-2, AMT: 6.60%, 5/01/28	275	283,476
7.50%, 4/01/31	130	131,548
Regional Transportation District, COP, Series A, 5.38%, 6/01/31	385	431,073
		6,778,292
Connecticut 0.2%		
Mohegan Tribe of Indians of Connecticut, RB, Public Improvement, Priority Distribution, 6.25%, 1/01/31	1,885	1,600,422
Delaware 0.3%		
County of Sussex Delaware, RB, NRG Energy, Inc., Indian River Project, 6.00%, 10/01/40	1,500	1,615,575
District of Columbia 0.2%		
Metropolitan Washington Airports Authority, RB, First Senior Lien, Series A: 5.00%, 10/01/39	415	444,722
5.25%, 10/01/44	650	700,499
		1,145,221
Florida 5.0%		
County of Miami-Dade Florida, GO, Building Better Communities Program: Series B, 6.38%, 7/01/28	4,630	5,564,797
Series B-1, 5.63%, 7/01/38	5,000	5,587,050
County of Miami-Dade Florida, Refunding RB, Miami International Airport: AMT (AGC), 5.00%, 10/01/40	10,000	10,239,300
Series A-1, 5.38%, 10/01/41	10,290	11,404,201
		32,795,348
Georgia 2.2%		
City of Atlanta Georgia, Refunding RB, General, Series B, AMT, 5.00%, 1/01/29	1,070	1,149,779
DeKalb County Hospital Authority Georgia, RB, DeKalb Medical Center Inc. Project, 6.13%, 9/01/40	3,570	3,850,602
DeKalb Private Hospital Authority, Refunding RB, Childrens Healthcare, 5.25%, 11/15/39	3,335	3,592,996
Municipal Electric Authority of Georgia, RB, Series W: 6.60%, 1/01/18	4,530	5,140,553
6.60%, 1/01/18 (c)	250	269,365
		14,003,295
Hawaii 0.9%		
Hawaii State Harbor, RB, Series A, 5.50%, 7/01/35	5,000	5,545,800
Illinois 12.5%		

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Chicago Board of Education Illinois, GO, Series A, 5.50%, 12/01/39	6,670	7,551,774
City of Chicago Illinois Sales Tax Revenue, Series A, 5.00%, 1/01/41	2,290	2,519,641
Chicago Transit Authority, RB, Sales Tax Receipts Revenue, Third Lien, 5.25%, 12/01/36	2,110	2,348,219
City of Chicago Illinois, RB, General, Third Lien, Series B-2, AMT (NPFGC), 6.00%, 1/01/27	17,080	18,303,782
Illinois Finance Authority, RB: Advocate Health Care Network, Series D, 6.50%, 11/01/38	9,700	11,193,024
Community, 6.50%, 7/01/22	1,060	968,193
Community Rehabilitation, 6.50%, 7/01/12 (a)	1,080	1,114,020

See Notes to Financial Statements.

Schedule of Investments (continued)

BlackRock MuniVest Fund, Inc. (MVF)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
Illinois (concluded)		
Illinois Finance Authority, Refunding RB:		
Northwestern Memorial Hospital, Series A, 6.00%, 8/15/39	\$ 9,000	\$ 10,332,360
OSF Healthcare System, Series A, 6.00%, 5/15/39	5,140	5,757,623
Railsplitter Tobacco Settlement Authority, RB, 6.00%, 6/01/28	2,645	2,959,438
Regional Transportation Authority, RB:		
Series A (AMBAC), 7.20%, 11/01/20	3,040	3,710,107
Series C (NPFGC), 7.75%, 6/01/20	4,000	5,044,600
Village of Hodgkins Illinois, RB, MBM Project, AMT, 6.00%, 11/01/23	10,000	10,009,000
		81,811,781
Indiana 2.6%		
Indiana Health & Educational Facilities Financing Authority, RB, Clarian Health Obligation, Series A, 5.25%, 2/15/40	8,980	9,251,196
Indianapolis Local Public Improvement Bond Bank, Refunding RB, Series D, 6.75%, 2/01/14	7,120	7,595,545
		16,846,741
Iowa 0.1%		
Iowa Tobacco Settlement Authority, RB, Asset Backed, Series C, 5.63%, 6/01/46	1,000	770,930
Kansas 0.3%		
Sedgwick & Shawnee Counties Kansas, RB, Mortgage- Backed Securities Program, Series A-4, AMT (Ginnie Mae), 5.95%, 12/01/33	1,555	1,620,014
Kentucky 1.2%		
County of Owen Kentucky, RB, Kentucky American Water Co., Series B, 5.63%, 9/01/39	1,000	1,054,700
Kentucky Economic Development Finance Authority, RB, Owensboro Medical Health System, Series A: 6.38%, 6/01/40	2,000	2,242,860
6.50%, 3/01/45	4,000	4,519,720
		7,817,280
Louisiana 0.5%		
Louisiana Local Government Environmental Facilities & Community Development Authority, RB, Westlake Chemical Corp., Series A-1, 6.50%, 11/01/35	2,615	2,921,216
Maine 1.0%		
Maine Health & Higher Educational Facilities Authority, RB, Series A, 5.00%, 7/01/39	5,000	5,295,450
Portland New Public Housing Authority Maine, Refunding RB, Senior Living, Series A, 6.00%, 2/01/34	1,190	1,206,493
		6,501,943
Maryland 1.8%		
Maryland Community Development Administration, RB, AMT, 5.10%, 9/01/37	1,835	1,880,545
Maryland Community Development Administration, Refunding RB, Residential, Series D, 4.90%, 9/01/42	3,250	3,281,557

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Maryland Health & Higher Educational Facilities Authority, Refunding RB:

Charlestown Community, 6.25%, 1/01/41	2,000	2,218,900
University of Maryland Medical System, 5.00%, 7/01/34	2,100	2,224,089
University of Maryland Medical System, 5.13%, 7/01/39	2,100	2,236,479
		11,841,570

	Par (000)	Value
Municipal Bonds		
Massachusetts 5.4%		
Massachusetts Bay Transportation Authority, Refunding RB, General Transportation System, Series A, 7.00%, 3/01/19	\$ 3,010	\$ 3,669,852
Massachusetts HFA, RB, Series A, AMT, 5.20%, 12/01/37	2,935	3,006,526
Massachusetts HFA, RB, S/F, Series 130, AMT, 5.00%, 12/01/32	2,500	2,544,250
Massachusetts HFA, Refunding RB, Series C, AMT, 5.35%, 12/01/42	6,550	6,886,998
Massachusetts Water Resources Authority, RB, Series A, 6.50%, 7/15/19	16,000	19,344,160
		35,451,786
Michigan 3.9%		
City of Detroit Michigan, RB, Second Lien, Series B (AGM): 6.25%, 7/01/36	2,500	2,866,500
7.00%, 7/01/36	1,250	1,495,150
Michigan State Hospital Finance Authority, Refunding RB: Henry Ford Health System, Series A, 5.25%, 11/15/46	7,950	8,212,986
McLaren Health Care, 5.75%, 5/15/38	7,285	7,904,443
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	4,100	5,164,442
		25,643,521
Minnesota 0.5%		
Tobacco Securitization Authority Minnesota, Refunding RB, Tobacco Settlement, Series B, 5.25%, 3/01/31	3,000	3,262,830
Mississippi 5.0%		
County of Lowndes Mississippi, Refunding RB, Weyerhaeuser Co. Project: Series A, 6.80%, 4/01/22	9,160	10,206,530
Series B, 6.70%, 4/01/22	4,500	4,963,455
Mississippi Business Finance Corp., Refunding RB, System Energy Resource Inc. Project: 5.88%, 4/01/22	15,000	15,045,000
5.90%, 5/01/22	2,250	2,257,830
		32,472,815
Nebraska 0.7%		
Omaha New York Public Power District, Series B, 5.00%, 2/01/36	4,000	4,528,360
Nevada 0.9%		
County of Clark Nevada, RB, Series B, 5.75%, 7/01/42	5,000	5,604,950
New Hampshire 0.4%		
New Hampshire Health & Education Facilities Authority, Refunding RB, Elliot Hospital, Series B, 5.60%, 10/01/22	2,300	2,466,037
New Jersey 6.4%		
New Jersey EDA, RB, Cigarette Tax:		

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

5.50%, 6/15/24	9,080	9,130,303
5.75%, 6/15/34	3,695	3,826,949
New Jersey EDA, Refunding RB, School Facilities Construction, Series AA, 5.25%, 12/15/33	10,000	11,103,900
New Jersey State Housing & Mortgage Finance Agency, RB, Series AA, 6.38%, 10/01/28	1,420	1,572,323
New Jersey Transportation Trust Fund Authority, RB, Transportation System, 5.50%, 6/15/31	8,000	9,384,480
Tobacco Settlement Financing Corp. New Jersey, RB, 7.00%, 6/01/13 (a)	5,980	6,485,430
		41,503,385

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

39

Schedule of Investments (continued)

BlackRock MuniVest Fund, Inc. (MVF)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
New York 4.0%		
Metropolitan Transportation Authority, RB, Series 2008C: 6.25%, 11/15/23	\$ 3,245	\$ 3,952,086
6.50%, 11/15/28	14,925	18,564,461
Port Authority of New York & New Jersey, RB, JFK International Air Terminal, 6.00%, 12/01/36	3,165	3,544,072
		26,060,619
North Carolina 0.5%		
Gaston County Industrial Facilities & Pollution Control Financing Authority North Carolina, RB, Exempt Facilities, National Gypsum Co. Project, AMT, 5.75%, 8/01/35	4,105	3,364,130
Ohio 0.5%		
Buckeye Tobacco Settlement Financing Authority, RB, Senior, Series A-2, 6.50%, 6/01/47	1,125	917,213
County of Lucas Ohio, Refunding RB, Promedica Healthcare, Series A, 6.50%, 11/15/37	1,915	2,326,265
		3,243,478
Pennsylvania 0.9%		
Chester County IDA, RB, Aqua Pennsylvania Inc. Project, Series A, AMT (NPFGC), 5.00%, 2/01/40	540	559,985
Delaware River Port Authority Pennsylvania, RB, Series D, 5.00%, 1/01/40	195	208,001
Pennsylvania Economic Development Financing Authority, Refunding RB, Aqua Pennsylvania Inc. Project, Series A, AMT, 5.00%, 12/01/34	2,780	2,987,749
Philadelphia Authority for Industrial Development, RB: Arbor House Inc. Project, Series E, 6.10%, 7/01/33	1,000	1,008,890
Rieder House Project, Series A, 6.10%, 7/01/33	1,355	1,367,046
		6,131,671
Puerto Rico 2.6%		
Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A, 6.38%, 8/01/39	13,000	15,238,600
Puerto Rico Sales Tax Financing Corp., Refunding RB, CAB, Series A (NPFGC), 5.68%, 8/01/41 (d)	10,000	2,003,200
		17,241,800
South Carolina 0.9%		
County of Georgetown South Carolina, Refunding RB, International Paper Co. Project, Series A, AMT, 5.55%, 12/01/29	1,000	1,016,480
County of Richland South Carolina, Refunding RB, International Paper Co. Project, AMT, 6.10%, 4/01/23	5,000	5,148,200
		6,164,680
Texas 12.9%		
Brazos River Authority, Refunding RB, Texas Utility Co., Series, AMT, 7.70%, 4/01/33	3,055	458,708
Brazos River Harbor Navigation District, Refunding RB, Dow Chemical Co. Project, Series A-7, AMT, 6.63%, 5/15/33	11,460	11,612,991

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Central Texas Regional Mobility Authority, RB,

Senior Lien:

5.75%, 1/01/31	1,000	1,084,950
6.00%, 1/01/41	4,300	4,613,384
City of Houston Texas, RB, Senior Lien, Series A, 5.50%, 7/01/34	8,335	9,239,931
Gulf Coast Waste Disposal Authority, Refunding RB, Series A, AMT, 6.10%, 8/01/24	4,000	4,071,120
Harris County Health Facilities Development Corp., Refunding RB, Memorial Hermann Healthcare System, Series B:		
7.13%, 12/01/31	3,500	4,219,775
7.25%, 12/01/35	5,400	6,450,678

	Par (000)	Value
Municipal Bonds		
Texas (concluded)		
Houston Industrial Development Corp., RB, Senior, Air Cargo, AMT, 6.38%, 1/01/23	\$ 1,690	\$ 1,574,100
La Vernia Higher Education Finance Corp., RB, KIPP Inc., 6.25%, 8/15/39	925	1,014,947
Love Field Airport Modernization Corp., RB, Southwest Airlines Co. Project, 5.25%, 11/01/40	3,600	3,726,468
Matagorda County Navigation District No. 1 Texas, Refunding RB, CenterPoint Energy Project, 5.60%, 3/01/27 (e)	9,355	9,770,456
North Texas Tollway Authority, Refunding RB, First Tier, Series A, 6.25%, 1/01/39	3,500	3,949,050
Tarrant County Cultural Education Facilities Finance Corp., RB, Scott & White Healthcare, 6.00%, 8/15/45	5,000	5,715,600
Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien:		
LBJ Infrastructure Group LLC, LBJ Freeway Managed Lanes Project, 7.00%, 6/30/40	10,000	11,370,800
NTE Mobility Partners LLC, North Tarrant Express Managed Lanes Project, 6.88%, 12/31/39	4,710	5,338,361
		84,211,319
Vermont 0.2%		
Vermont Educational & Health Buildings Financing Agency, RB, Developmental & Mental Health, Series A, 6.38%, 6/15/22	1,000	1,010,120
Virginia 2.5%		
City of Norfolk Virginia, Refunding RB, Series B (AMBAC), 5.50%, 2/01/31	3,550	3,552,911
City of Portsmouth Virginia, GO, Refunding, Series D, 5.00%, 7/15/34	3,105	3,520,077
Fairfax County EDA, Refunding RB, Goodwin House Inc.: 5.13%, 10/01/37	2,000	2,029,480
5.13%, 10/01/42	6,015	6,083,150
Virginia HDA, Refunding RB, Sub-Series A3, AMT, 5.05%, 7/01/26	1,325	1,381,193
		16,566,811
Washington 4.4%		
Energy Northwest, Refunding RB, Series B, 7.13%, 7/01/16	14,320	18,109,501
Seattle Housing Authority Washington, RB, Replacement Housing Projects, 6.13%, 12/01/32	2,175	2,176,414
Washington Health Care Facilities Authority, Refunding RB, Catholic Health Initiatives, Series D, 6.38%, 10/01/36	7,000	8,215,270
		28,501,185

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

West Virginia 0.4%		
West Virginia Hospital Finance Authority, Refunding RB, Charleston, Series A, 5.63%, 9/01/32	2,500	2,689,000
Wisconsin 1.4%		
City of Milwaukee Wisconsin, RB, Senior, Air Cargo, AMT, 6.50%, 1/01/25	1,475	1,409,421
Wisconsin Health & Educational Facilities Authority, RB, Hudson Memorial Hospital (FHA), 5.70%, 1/15/29	4,500	4,563,000
Wisconsin Health & Educational Facilities Authority, RB, SynergyHealth Inc., 6.00%, 11/15/32	3,040	3,132,477
		9,104,898
Wyoming 0.8%		
County of Sweetwater Wyoming, Refunding RB, Idaho Power Co. Project, 5.25%, 7/15/26	4,500	5,147,775
Total Municipal Bonds 100.8%		657,180,591

See Notes to Financial Statements.

Schedule of Investments (continued)

BlackRock MuniVest Fund, Inc. (MVF)
(Percentages shown are based on Net Assets)

Municipal Bonds Transferred to Tender Option Bond Trusts (f)	Par (000)	Value
Arizona 0.6%		
Phoenix Civic Improvement Corp., RB, Junior Lien, Series A, 5.00%, 7/01/34	\$ 3,500	\$ 3,913,875
California 5.2%		
Los Angeles Community College District California, GO, Election of 2008, Series A, 6.00%, 8/01/33	9,586	11,444,001
University of California, RB, Series O, 5.25%, 5/15/39	20,000	22,374,600
		33,818,601
Connecticut 2.0%		
Connecticut State Health & Educational Facility Authority, RB, Yale University, Series Z-3, 5.05%, 7/01/42	12,000	13,221,480
District of Columbia 1.3%		
District of Columbia Water & Sewer Authority, RB, Series A, 5.50%, 10/01/39	7,495	8,469,120
Florida 3.9%		
County of Miami-Dade Florida, RB, Water & Sewer System (AGM), 5.00%, 10/01/39	14,747	15,987,776
Miami-Dade County Expressway Authority, RB, Series A (AGC), 5.00%, 7/01/35	8,900	9,630,245
		25,618,021
Illinois 3.2%		
City of Chicago Illinois, Refunding RB, Second Lien (AGM), 5.25%, 11/01/33	1,330	1,438,142
Illinois Finance Authority, RB, University of Chicago, Series B, 6.25%, 7/01/38	10,000	11,824,900
Illinois State Toll Highway Authority, RB, Series B, 5.50%, 1/01/33	6,999	7,666,165
		20,929,207
Kentucky 5.2%		
Kentucky Economic Development Finance Authority, Refunding RB, St. Elizabeth, Series A, 5.50%, 5/01/39	8,003	8,770,210
Kentucky Housing Corp., Refunding RB, Series L, AMT, 5.25%, 1/01/38	6,840	7,024,475
Lexington-Fayette Urban County Airport Board, Refunding RB, Series A, 5.00%, 7/01/27	7,001	7,868,226
Louisville & Jefferson County Metropolitan Government Parking Authority, RB, Series A, 5.38%, 12/01/39	9,195	10,300,239
		33,963,150
Maryland 0.8%		
Maryland State Transportation Authority, RB, Transportation Facility Project (AGM), 5.00%, 7/01/41	4,710	5,141,907
Nevada 2.9%		
Clark County Water Reclamation District, GO, Series B, 5.75%, 7/01/34	15,789	18,619,599
New York 6.5%		
New York City Municipal Water Finance Authority: RB, Series FF-2, 5.50%, 6/15/40	4,154	4,791,391
	24,199	26,203,899

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Water & Sewer System, RB, Series DD, 5.00%,
6/15/37

New York Liberty Development Corp., Refunding RB, 5.75%, 11/15/51	10,000	11,361,700
		42,356,990

North Carolina 2.9%

North Carolina Capital Facilities Finance Agency,
Refunding RB:

Duke University Project, Series A, 5.00%, 10/01/41	12,678	13,555,522
Wake Forest University, 5.00%, 1/01/38	5,000	5,484,300
		19,039,822

**Municipal Bonds Transferred to
Tender Option Bond Trusts (f)**

	Par (000)	Value
Ohio 3.6%		
County of Allen Ohio, Refunding RB, Catholic Healthcare, Series A, 5.25%, 6/01/38	\$ 2,870	\$ 3,057,583
County of Montgomery Ohio, Refunding RB, Catholic Healthcare, Series A, 5.50%, 5/01/34	5,470	6,066,777
Ohio Higher Educational Facility Commission, Refunding RB, Hospital, Cleveland Clinic Health, Series A, 5.25%, 1/01/33	4,400	4,740,604
State of Ohio, RB, Cleveland Clinic Health, Series B, 5.50%, 1/01/34	8,500	9,378,730
		23,243,694

Oregon 2.1%

Oregon State Housing & Community Services Department, HRB, Series A, AMT, 4.95%, 7/01/30	13,000	13,373,328
---	--------	------------

South Carolina 0.5%

South Carolina State Housing Finance & Development Authority, Refunding RB, Series B-1, 5.55%, 7/01/39	3,079	3,247,931
---	-------	-----------

Texas 7.8%

Harris County Health Facilities Development Corp., Refunding RB, School Health Care System, Series B, 5.75%, 7/01/27	20,970	27,225,141
Houston Higher Education Finance Corp., RB, Rice University Project, Series A, 5.00%, 5/15/40	10,000	11,321,091
Texas Department of Housing & Community Affairs, MRB, Series B, AMT (Ginnie Mae), 5.25%, 9/01/32	6,276	6,476,594
Texas State University Systems, Refunding RB (AGM), 5.00%, 3/15/30	5,667	6,037,561
		51,060,387

Virginia 2.6%

Fairfax County IDA Virginia, Refunding RB, Health Care, Inova Health System, Series A, 5.50%, 5/15/35	2,099	2,341,355
Virginia Small Business Financing Authority, Refunding RB, Sentara Healthcare, 5.00%, 11/01/40	5,002	5,361,480
Virginia State Commonwealth Transportation Board, Capital Projects, 5.00%, 5/15/32	8,001	9,287,550
		16,990,385

Washington 4.2%

Central Puget Sound Regional Transit Authority, RB, Series A:		
5.00%, 11/01/34	5,000	6,005,175
5.00%, 11/01/36	6,000	6,005,190
(AGM), 5.00%, 11/01/32	14,007	15,465,760
		27,476,125

Wisconsin 1.0%

Wisconsin Health & Educational Facilities Authority, Refunding RB, Froedtert & Community Health Inc., 5.25%, 4/01/39	6,099	6,596,226
--	-------	-----------

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Total Municipal Bonds Transferred to Tender Option Bond Trusts 56.3%	367,079,848
Total Long-Term Investments (Cost \$934,858,894) 157.1%	1,024,260,439

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

41

Schedule of Investments (concluded)

BlackRock MuniVest Fund, Inc. (MVF)
(Percentages shown are based on Net Assets)

	Par (000)	Value
Short-Term Securities		
Virginia 0.8%		
Roanoke Economic Development Authority, RB, VRDN, Carilion Health System, Series A-2 (AGM Insurance, Wells Fargo Bank NA SBPA), 0.05%, 3/01/12 (g)	\$ 5,000	\$ 5,000,000
Washington 0.7%		
Washington Health Care Facilities Authority, RB, VRDN, Multicare Health System, Series D, 0.10%, 3/01/12 (g)	4,900	4,900,000
Shares		
Money Market Funds 5.5%		
FFI Institutional Tax-Exempt Fund, 0.01% (h)(i)	35,889,619	35,889,619
Total Short-Term Securities (Cost \$45,789,619) 7.0%		45,789,619
Total Investments (Cost \$980,648,513) 164.1%		1,070,050,058
Other Assets Less Liabilities 1.4%		9,465,669
Liability for TOB Trust Certificates, Including Interest		
Expense and Fees Payable (28.1%)		(183,483,660)
VMTP Shares, at Liquidation Value (37.4%)		(243,800,000)
Net Assets Applicable to Common Shares 100.0%		\$ 652,232,067

- (a) US government securities, held in escrow, are used to pay interest on this security, as well as to retire the bond in full at the date indicated, typically at a premium to par.
- (b) Security exempt from registration pursuant to Rule 144A under the Securities Act of 1933. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (c) Security is collateralized by Municipal or US Treasury obligations.
- (d) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (e) Variable rate security. Rate shown is as of report date.
- (f) Securities represent bonds transferred to a TOB trust in exchange for which the Trust acquired residual interest certificates. These securities serve as collateral in a financing transaction. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to TOBs.
- (g) Variable rate security. Rate shown is as of report date and maturity shown is the date the principal owed can be recovered through demand.
- (h) Investments in companies considered to be an affiliate of the Trust during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

Affiliate	Shares Held at August 31, 2011	Net Activity	Shares Held at February 29, 2012	Income
FFI Institutional Tax-Exempt Fund	44,571,921	(8,682,302)	35,889,619	

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

- (i) Represents the current yield as of report date.

Fair Value Measurements Various inputs are used in determining the fair value of investments. These inputs are categorized into a disclosure hierarchy consisting of three broad levels for financial statement purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities

Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Fund's own assumptions used in determining the fair value of investments)

Changes in valuation techniques may result in transfers in or out of an assigned level within the disclosure hierarchy. The categorization of a value determined for investments is based on the pricing transparency of the investment and does not necessarily correspond to the Fund's perceived risk of investing in those securities. For information about the Fund's policy regarding valuation of investments and other significant accounting policies, please refer to Note 1 of the Notes to Financial Statements.

The following table summarizes the inputs used as of February 29, 2012 in determining the fair valuation of the Fund's investments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments ¹		\$ 1,024,260,439		\$ 1,024,260,439
Short-Term Securities	\$ 35,889,619	9,900,000		45,789,619
Total	\$ 35,889,619	\$ 1,034,160,439		\$ 1,070,050,058

¹ See above Schedule of Investments for values in each state or political subdivision.

See Notes to Financial Statements.

Statements of Assets and Liabilities

February 29, 2012 (Unaudited)	BlackRock Municipal Bond Investment Trust (BIE)	BlackRock Municipal Bond Trust (BBK)	BlackRock Municipal Income Investment Quality Trust (BAF)	BlackRock Municipal Income Quality Trust (BYM)	BlackRock Municipal Income Trust II (BLE)	BlackRock MuniHoldings Investment Quality Fund (MFL)	BlackRock MuniVest Fund, Inc. (MVF)
Assets							
Investments at value unaffiliated	\$ 87,232,830	\$ 251,351,552	\$ 220,551,298	\$ 623,127,097	\$ 568,269,765	\$ 924,353,655	\$ 1,034,160,439
Investments at value affiliated	3,025,425	4,946,999	3,259,592	13,815,497	12,802,513	30,313,901	35,889,619
Cash pledged as collateral for financial futures contracts	35,000	63,000	91,000	96,000	152,000	305,000	
Interest receivable	908,804	3,098,952	2,320,940	5,994,929	7,138,538	10,931,799	13,392,230
Investments sold receivable		25,000		1,123,630		14,435,178	
Margin variation receivable	7,313	16,801	19,094	20,313	32,094	79,217	
Deferred offering costs	183,387	134,969	117,248	175,364	192,345	713,028	289,514
Prepaid expenses	1,912	5,806	22,261	14,341	7,612	15,487	15,487
Other assets	4,352	20,829	13,573	53,837	48,827	118,032	121,235
Total assets	91,399,023	259,663,908	226,395,006	644,421,008	588,643,694	981,265,297	1,083,868,524
Liabilities							
Bank overdraft		1,128	1,082	11,148	9,832	466	480
Investments purchased payable	3,166,722		11,254,094	1,085,050	3,809,821	24,180,929	
TOB trust payable	445,000						
Income dividends payable							
Common Shares	270,295	927,809	651,516	2,029,506	1,951,971	2,886,731	3,739,532
Investment advisory fees payable	41,572	123,113	92,714	278,398	229,643	385,813	426,043
Officers and Trustees fees payable	2,893	29,729	15,569	74,481	19,481	129,980	159,021
Interest expense and fees payable	4,589	3,484	13,811	37,326	26,574	50,644	72,624
Other accrued expenses payable	22,890	4,286	13,681	92,463	126,033	232,013	26,511
Total accrued liabilities	3,953,961	1,089,549	12,042,467	3,608,372	6,173,355	27,866,576	4,424,211
Other Liabilities							
TOB trust certificates	15,821,025	10,318,936	32,574,167	95,834,090	71,697,892	100,454,277	183,412,246
VRDP Shares, at liquidation value of \$100,000 per share ^{3,4}	17,800,000					274,600,000	
VMTP Shares, at liquidation value of \$100,000 per share ^{3,4}		79,900,000	42,200,000	137,200,000	151,300,000		243,800,000
Total other liabilities	33,621,025	90,218,936	74,774,167	233,034,090	222,997,892	375,054,277	427,212,246
Total liabilities	37,574,986	91,308,485	86,816,634	236,642,462	229,171,247	402,920,853	431,636,457
Net Assets Applicable to Common Shareholders	\$ 53,824,037	\$ 168,355,423	\$ 139,578,372	\$ 407,778,546	\$ 359,472,447	\$ 578,344,444	\$ 652,232,067
Net Assets Applicable to Common Shareholders Consist of							
Paid-in capital ^{5,6,7}	\$ 47,293,704	\$ 149,062,293	\$ 124,088,714	\$ 374,096,628	\$ 332,146,400	\$ 525,381,411	\$ 575,632,419
Undistributed net investment income	882,384	3,478,050	2,044,922	7,402,223	7,433,826	8,883,415	14,551,364
Accumulated net realized loss	(2,866,018)	(1,155,573)	(4,340,336)	(17,192,922)	(16,846,162)	(35,886,764)	(27,353,261)
Net unrealized appreciation/depreciation	8,513,967	16,970,653	17,785,072	43,472,617	36,738,383	79,966,382	89,401,545
Net Assets Applicable to Common Shareholders	\$ 53,824,037	\$ 168,355,423	\$ 139,578,372	\$ 407,778,546	\$ 359,472,447	\$ 578,344,444	\$ 652,232,067
Net asset value per Common Share	\$ 16.13	\$ 16.06	\$ 15.96	\$ 15.47	\$ 15.38	\$ 15.33	\$ 10.29
1 Investments at cost unaffiliated	\$ 78,705,048	\$ 234,380,899	\$ 202,730,152	\$ 579,616,104	\$ 531,470,748	\$ 844,237,606	\$ 944,758,894
2 Investments at cost affiliated	\$ 3,025,425	\$ 4,946,999	\$ 3,259,592	\$ 13,815,497	\$ 12,802,513	\$ 30,313,901	\$ 35,889,619

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

3	VRDP/VMTP Shares outstanding, par value \$0.10 per share	178	799	422	1,372	1,513	2,746	2,438
4	Preferred Shares authorized	unlimited	unlimited	unlimited	unlimited	unlimited	1 million	10 million
5	Common Shares outstanding	3,336,978	10,483,719	8,745,184	26,357,225	23,376,530	37,735,050	63,384,324
6	Par value per Common Share	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.10	\$ 0.10
7	Common Shares authorized	unlimited	unlimited	unlimited	unlimited	unlimited	unlimited	150 million

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

43

Statements of Operations

Six Months Ended February 29, 2012 (Unaudited)	BlackRock Municipal Bond Investment Trust (BIE)	BlackRock Municipal Bond Trust (BBK)	BlackRock Municipal Income Investment Quality Trust (BAF)	BlackRock Municipal Income Quality Trust (BYM)	BlackRock Municipal Income Trust II (BLE)	BlackRock MuniHoldings Investment Quality Fund (MFL)	BlackRock MuniVest Fund, Inc. (MVF)
Investment Income							
Interest	\$ 2,053,293	\$ 6,579,594	\$ 4,658,803	\$ 15,045,862	\$ 14,165,587	\$ 21,284,819	\$ 26,353,414
Income affiliated	400	1,214	691	2,856	2,760	6,329	4,904
Total income	2,053,693	6,580,808	4,659,494	15,048,718	14,168,347	21,291,148	26,358,318
Expenses							
Investment advisory	274,100	800,193	548,932	1,680,657	1,503,163	2,490,343	2,604,182
Professional	36,933	63,916	52,259	83,734	60,346	79,493	139,280
Accounting services	12,968	27,267	22,077	45,781	47,408	59,243	68,709
Liquidity fees	67,682					976,199	
Transfer agent	10,002	16,937	8,698	23,547	37,729	20,393	82,538
Printing	4,914	13,375	7,368	31,733	24,320	17,273	14,910
Remarketing fees on Preferred Shares	9,708	14,837	6,042	30,461	47,953	149,401	54,950
Officer and Trustees	2,903	8,394	6,543	27,455	27,234	23,227	37,938
Custodian	4,458	8,326	6,619	19,174	18,109	19,164	27,173
Registration	4,491	4,532	4,258	5,670	6,055	5,776	12,502
Miscellaneous	14,662	24,190	17,703	39,467	42,622	47,688	48,329
Total expenses excluding interest expense, fees and amortization of offering costs	442,821	981,967	680,499	1,987,679	1,814,939	3,888,200	3,090,511
Interest expense, fees and amortization of offering costs ¹	97,136	219,499	189,937	624,080	556,242	1,111,924	1,187,149
Total expenses	539,957	1,201,466	870,436	2,611,759	2,371,181	5,000,124	4,277,660
Less fees waived by advisor	(21,763)	(62,872)	(1,248)	(2,125)	(138,957)	(189,153)	(8,323)
Total expenses after fees waived	518,194	1,138,594	869,188	2,609,634	2,232,224	4,810,971	4,269,337
Net investment income	1,535,499	5,442,214	3,790,306	12,439,084	11,936,123	16,480,177	22,088,981
Realized and Unrealized Gain (Loss)							
Net realized gain (loss) from:							
Investments	288,069	1,618,079	2,102,855	1,015,493	1,525,353	6,967,084	1,008,147
Financial futures contracts	33,688	94,397	86,672	124,284	100,893	353,627	(201,539)
	321,757	1,712,476	2,189,527	1,139,777	1,626,246	7,320,711	806,608
Net change in unrealized appreciation/depreciation on:							
Investments	4,639,618	15,087,335	10,760,998	35,173,040	31,554,971	43,601,309	46,896,955
Financial futures contracts	(18,820)		(47,513)	(72,336)	(133,275)	(194,351)	
	4,620,798	15,087,335	10,713,485	35,100,704	31,421,696	43,406,958	46,896,955
Total realized and unrealized gain	4,942,555	16,799,811	12,903,012	36,240,481	33,047,942	50,727,669	47,703,563
Dividends to AMPS Shareholders From							
Net investment income	(4,325)	(62,496)	(33,384)	(107,278)	(117,967)		(328,993)
Net Increase in Net Assets Applicable to Common Shareholders Resulting from Operations							
	\$ 6,473,729	\$ 22,179,529	\$ 16,659,934	\$ 48,572,287	\$ 44,866,098	\$ 67,207,846	\$ 69,463,551

¹ Related to TOBs, VRDP Shares and/or VMTP Shares.

See Notes to Financial Statements.

44

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

Statements of Changes in Net Assets

Increase (Decrease) in Net Assets Applicable to Common Shareholders:	BlackRock Municipal Bond Investment Trust (BIE)		BlackRock Municipal Bond Trust (BBK)	
	Six Months Ended February 29, 2012 (Unaudited)	Year Ended August 31, 2011	Six Months Ended February 29, 2012 (Unaudited)	Year Ended August 31, 2011
Operations				
Net investment income	\$ 1,535,499	\$ 3,434,053	\$ 5,422,214	\$ 11,953,029
Net realized gain (loss)	321,757	(1,056,667)	1,712,476	(19,199)
Net change in unrealized appreciation/depreciation	4,620,798	(1,898,672)	15,087,335	(9,146,768)
Dividends to AMPS Shareholders from net investment income	(4,325)	(63,456)	(62,496)	(283,174)
Net increase in net assets applicable to Common Shareholders resulting from operations	6,473,729	415,258	22,179,529	2,503,888
Dividends to Common Shareholders From				
Net investment income	(1,621,175)	(3,197,548)	(5,606,223)	(10,954,081)
Capital Share Transactions				
Reinvestment of common dividends	30,283	15,928	310,922	705,295
Net Assets Applicable to Common Shareholders				
Total increase (decrease) in net assets applicable to Common Shareholders	4,882,837	(2,766,362)	16,884,228	(7,744,898)
Beginning of period	48,941,200	51,707,562	151,471,195	159,216,093
End of period	\$ 53,824,037	\$ 48,941,200	\$ 168,355,423	\$ 151,471,195
Undistributed net investment income	\$ 882,384	\$ 972,385	\$ 3,478,050	\$ 3,704,555

Increase (Decrease) in Net Assets Applicable to Common Shareholders:	BlackRock Municipal Income Investment Quality Trust (BAF)		BlackRock Municipal Income Quality Trust (BYM)	
	Six Months Ended February 29, 2012 (Unaudited)	Year Ended August 31, 2011	Six Months Ended February 29, 2012 (Unaudited)	Year Ended August 31, 2011
Operations				
Net investment income	\$ 3,790,306	\$ 7,967,185	\$ 12,439,084	\$ 25,473,469
Net realized gain (loss)	2,189,527	(956,695)	1,139,777	(4,079,037)
Net change in unrealized appreciation/depreciation	10,713,485	(4,113,345)	35,100,704	(10,929,775)
Dividends to AMPS Shareholders from net investment income	(33,384)	(151,046)	(107,278)	(487,609)
Net increase in net assets applicable to Common Shareholders resulting from operations	16,659,934	2,746,099	48,572,287	9,977,048
Dividends to Common Shareholders From				
Net investment income	(3,908,256)	(7,789,105)	(12,170,214)	(24,311,680)
Capital Share Transactions				
Reinvestment of common dividends	44,098	53,170	362,166	786,119
Net Assets Applicable to Common Shareholders				
Total increase (decrease) in net assets applicable to Common Shareholders	12,795,776	(4,989,836)	36,764,239	(13,548,513)

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Beginning of period	126,782,596	131,772,432	371,014,307	384,562,820
End of period	\$ 139,578,372	\$ 126,782,596	\$ 407,778,546	\$ 371,014,307
Undistributed net investment income	\$ 2,044,922	\$ 2,196,256	\$ 7,402,223	\$ 7,240,631

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

45

Statements of Changes in Net Assets

Increase (Decrease) in Net Assets Applicable to Common Shareholders:	BlackRock Municipal Income Trust II (BLE)		BlackRock MuniHoldings Investment Quality Fund (MFL)	
	Six Months Ended February 29, 2012 (Unaudited)	Year Ended August 31, 2011	Six Months Ended February 29, 2012 (Unaudited)	Year Ended August 31, 2011
Operations				
Net investment income	\$ 11,936,123	\$ 25,170,419	\$ 16,480,177	\$ 35,772,211
Net realized gain (loss)	1,626,246	(1,929,140)	7,320,711	(14,391,578)
Net change in unrealized appreciation/depreciation	31,421,696	(15,031,363)	43,406,958	(11,924,556)
Dividends to AMPS Shareholders from net investment income	(117,967)	(537,485)		(903,388)
Net increase in net assets applicable to Common Shareholders resulting from operations	44,866,098	7,672,431	67,207,846	8,552,689
Dividends to Common Shareholders From				
Net investment income	(11,703,405)	(23,242,731)	(17,315,194)	(34,274,513)
Capital Share Transactions				
Reinvestment of common dividends	596,824	1,014,192	278,929	528,154
Net Assets Applicable to Common Shareholders				
Total increase (decrease) in net assets applicable to Common Shareholders	33,759,517	(14,556,108)	50,171,581	(25,193,670)
Beginning of period	325,712,930	340,269,038	528,172,863	553,366,533
End of period	\$ 359,472,447	\$ 325,712,930	\$ 578,344,444	\$ 528,172,863
Undistributed net investment income	\$ 7,433,826	\$ 7,319,075	\$ 8,883,415	\$ 9,718,432

Increase (Decrease) in Net Assets Applicable to Common Shareholders:	BlackRock MuniVest Fund, Inc. (MVF)	
	Six Months Ended February 29, 2012 (Unaudited)	Year Ended August 31, 2011
Operations		
Net investment income	\$ 22,088,981	\$ 46,141,071
Net realized gain (loss)	806,608	(8,945,246)
Net change in unrealized appreciation/depreciation	46,896,955	(20,763,919)
Dividends to AMPS Shareholders from net investment income	(328,993)	(1,048,890)
Net increase in net assets applicable to Common Shareholders resulting from operations	69,463,551	15,383,016
Dividends to Common Shareholders From		
Net investment income	(22,410,721)	(44,113,394)
Capital Share Transactions		
Reinvestment of common dividends	2,945,206	5,769,177
Net Assets Applicable to Common Shareholders		
Total increase (decrease) in net assets applicable to Common Shareholders	49,998,036	(22,961,201)
Beginning of period	602,234,031	625,195,232
End of period	\$ 652,232,067	\$ 602,234,031

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Undistributed net investment income	\$ 14,551,364	\$ 15,202,097
-------------------------------------	---------------	---------------

See Notes to Financial Statements.

46

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

Statements of Cash Flows

Six Months Ended February 29, 2012 (Unaudited)	BlackRock Municipal Bond Investment Trust (BIE)	BlackRock Municipal Bond Trust (BBK)	BlackRock Municipal Income Investment Quality Trust (BAF)	BlackRock Municipal Income Quality Trust (BYM)	BlackRock Municipal Income Trust II (BLE)	BlackRock MuniHoldings Investment Quality Fund (MFL)	BlackRock MuniVest Fund, Inc. (MVF)
Cash Provided by (Used for) Operating Activities							
Net increase in net assets resulting from operations, excluding dividends to AMPS Shareholders	\$ 6,478,054	\$ 22,242,025	\$ 16,693,318	\$ 48,679,565	\$ 44,984,065	\$ 67,207,846	\$ 69,792,544
Adjustments to reconcile net increase in net assets resulting from operations to net cash provided by (used for) operating activities:							
(Increase) decrease in interest receivable	57,616	(790)	(231,250)	(125,790)	(195,537)	(148,929)	(188,406)
(Increase) decrease in cash pledged as collateral for financial futures contracts	3,280	112,000	(33,700)	74,000	53,000	(104,534)	
Increase in other assets	(244)	(1,469)	(919)	(3,360)	(2,760)	(22,934)	(17,584)
(Increase) decrease in margin variation receivable	(2,335)	(16,801)	(7,715)	13,467	(12,953)	(34,772)	
(Increase) decrease in income receivable affiliated	16	78	51	206	189	377	482
Increase (decrease) in investment advisory fees payable	(738)	898	3,763	1,190	8,587	4,847	(6,452)
Decrease in prepaid expenses	1,887	23,337		33,269	41,977	12,442	44,456
Increase (decrease) in interest expense and fees payable	(4,126)	(1,360)	(1,015)	(9,715)	751	(7,190)	(39,124)
Decrease in other accrued expenses payable	(13,253)	(125,536)	(73,981)	(91,408)	(48,780)	(232,865)	(149,028)
Increase (decrease) in Officers' and Trustees fees payable	(2,810)	7,987	343	20,908	(31,292)	29,324	50,328
Net realized and unrealized loss on investments	(4,927,687)	(16,705,414)	(12,863,853)	(36,188,533)	(33,080,324)	(50,568,393)	(47,905,102)
Amortization of premium and accretion of discount on investments	82,127	(775,034)	228,947	(1,654,040)	(498,146)	984,659	709,873
Amortization of deferred offering costs	18,214	5,159	3,184	8,169	8,912	20,188	13,868
Proceeds from sales of long-term investments	15,045,336	65,275,624	42,695,969	45,562,687	48,995,194	167,772,966	69,402,877
Purchases of long-term investments	(14,050,927)	(64,764,173)	(53,595,702)	(44,351,872)	(79,670,490)	(185,259,068)	(80,514,603)

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-CSRS

Net proceeds from sales (purchases) of short-term securities	(826,900)	(2,699,051)	970,257	(9,695,042)	2,617,952	(8,191,396)	(1,222,698)
Cash provided by (used for) operating activities	1,857,510	2,577,480	(6,212,303)	2,273,701	(16,829,655)	(8,537,432)	9,971,431
Cash Provided by (Used for) Financing Activities							
Cash receipts from TOB trust certificates	1,745,000	2,919,789	10,307,901	9,870,000	28,247,175	25,539,218	10,331,373
Cash payments for TOB trust certificates	(1,754,807)					(50,000)	(169,974)
Cash payments on redemption of AMPS	(17,850,000)	(79,900,000)	(42,275,000)	(137,250,000)	(151,300,000)		(243,825,000)
Cash receipts from issuance of VMTP Shares		79,900,000	42,200,000	137,200,000	151,300,000		243,800,000
Cash receipts from issuance of VRDP Shares	17,800,000						
Cash payments for offering costs	(201,601)	(140,128)	(120,432)	(183,533)	(201,257)		(303,382)
Cash dividends paid to Common Shareholders	(1,590,733)	(5,293,454)	(3,863,942)	(11,806,147)	(11,103,087)	(17,034,779)	(19,447,933)
Cash dividends paid to AMPS Shareholders	(5,369)	(64,815)	(34,091)	(111,483)	(123,008)		(344,333)
Increase (decrease) in bank overdraft		1,128	(2,133)	7,462	9,832	466	(12,182)
Cash provided by (used for) financing activities	(1,857,510)	(2,577,480)	6,212,303	(2,273,701)	16,829,655	8,454,905	(9,971,431)

See Notes to Financial Statements.

SEMI-ANNUAL REPORT

FEBRUARY 29, 2012

47

Statements of Cash Flows (concluded)

Six Months Ended February 29, 2012 (Unaudited)	BlackRock Municipal Bond Investment Trust (BIE)	BlackRock Municipal Bond Trust (BBK)	BlackRock Municipal Income Investment Quality Trust (BAF)	BlackRock Municipal Income Quality Trust (BYM)	BlackRock Municipal Income Trust II (BLE)	BlackRock MuniHoldings Investment Quality Fund (MFL)	BlackRock MuniVest Fund, Inc. (MVF)
Cash							
Net increase (decrease) in cash						\$ (82,527)	
Cash at beginning of period						82,527	
Cash at end of period							
Cash Flow Information							
Cash paid during the year for interest	\$ 83,038	\$ 215,700	\$ 187,768	\$ 625,626	\$ 544,491	\$ 1,098,926	\$ 1,212,405
Noncash Financing Activities							
Capital shares issued in reinvestment of dividends paid to Common Shareholders	\$ 30,283	\$ 310,922	\$ 44,098	\$ 362,166	\$ 596,824	\$ 278,929	\$ 2,945,206

A Statement of Cash Flows is presented when a Trust had a significant amount of borrowing during the year, based on the average borrowing outstanding in relation to average total assets.

See Notes to Financial Statements.

Financial Highlights

BlackRock Municipal Bond Investment Trust (BIE)

	Six Months Ended February 29, 2012 (Unaudited)	2011	2010	Year Ended August 31,		2007
				2009	2008	
Per Share Operating Performance						
Net asset value, beginning of period	\$ 14.67	\$ 15.51	\$ 14.16	\$ 14.86	\$ 15.45	\$ 16.22
Net investment income	0.46 ₁	1.03 ₁	1.02 ₁	1.03 ₁	1.16 ₁	1.15
Net realized and unrealized gain (loss)	1.49	(0.89)	1.27	(0.76)	(0.51)	(0.67)
Dividends to AMPS Shareholders from net investment income	(0.00) ²	(0.02)	(0.02)	(0.13)	(0.30)	(0.32)
Net increase (decrease) from investment operations	1.95	0.12	2.27	0.14	0.35	0.16
Dividends and distributions to Common Shareholders from net investment income	(0.49)	(0.96)	(0.92)	(0.84)	(0.94)	(0.93)
Net asset value, end of period	\$ 16.13	\$ 14.67	\$ 15.51	\$ 14.16	\$ 14.86	\$ 15.45
Market price, end of period	\$ 16.19	\$ 14.22	\$ 15.60			