

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

BLACKROCK MUNIVEST FUND INC
Form N-CSR
November 08, 2010
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: Anne F. Ackerley, 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: 08/31/2010

Date of reporting period: 08/31/2010

Item 1 – Report to Stockholders

August 31, 2010

Annual Report

BlackRock Insured Municipal Income Trust (BYM)

BlackRock Insured Municipal Income Investment Trust (BAF)

BlackRock Municipal Bond Trust (BBK)

BlackRock Municipal Bond Investment Trust (BIE)

BlackRock Municipal Income Trust II (BLE)

BlackRock MuniHoldings Insured Investment 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
Annual Report:	
<u>Trust Summaries</u>	4
<u>The Benefits and Risks of Leveraging</u>	11
<u>Derivative Financial Instruments</u>	11
Financial Statements:	
<u>Schedules of Investments</u>	12
<u>Statements of Assets and Liabilities</u>	39
<u>Statements of Operations</u>	40
<u>Statements of Changes in Net Assets</u>	41
<u>Statements of Cash Flows</u>	44
<u>Financial Highlights</u>	45
<u>Notes to Financial Statements</u>	49
<u>Report of Independent Registered Public Accounting Firm</u>	56
<u>Important Tax Information</u>	56
<u>Disclosure of Investment Advisory Agreements and Sub-Advisory Agreements</u>	57
<u>Automatic Dividend Reinvestment Plans</u>	61
<u>Officers and Trustees</u>	62
<u>Additional Information</u>	65

Dear Shareholder

The global economic recovery continues, although global and US economic statistics show that the pace of economic growth has slowed. The sovereign debt crisis in Europe, slowing growth in China and concerns over the possibility that the United States and other developed markets are heading for a double-dip recession have all acted to depress investor sentiment. Despite broadening evidence of a slowdown in global economic activity, market volatility has normalized from the extreme levels seen in recent months. In the United States, economic data continues to be mixed, but it is our view that the preponderance of data suggests that the recovery is continuing. The critical issue for investors remains the question of whether the economy will experience a double-dip recession. We are on the optimistic side of this debate and would point out that while the recovery has been slow, we have made significant progress.

Global equity markets have moved unevenly higher since bottoming out in early 2009 as investors were enticed by depressed valuations, improved corporate earnings, and their desire for higher yields. Several significant downturns, however, have occurred primarily as a result of mixed economic data and concerns about the possibility of prolonged deflation (especially in Europe). As the period drew to a close, equity markets lost ground on weaker-than-expected economic data, most notably from the United States. International equities posted negative returns on both a six- and 12-month basis while US equities posted negative returns over the six months, but were still showing positive returns on a 12-month basis as the domestic economic recovery had been more pronounced and credit-related issues held European markets down. Within the United States, smaller cap stocks continue to outperform large caps year-to-date.

In fixed income markets, yields have fluctuated significantly over the past year as economic data has been mixed. Risk aversion and credit issues have kept interest rates low and US Treasury yields have fallen significantly as investors favored safe haven assets. As the period drew to a close, Treasuries modestly outperformed the spread sectors of the market (those driven by changes in credit risk). Corporate credit spreads benefited from the low rate environment and high yield fixed income remains attractive due to low default rates and better-than-expected results on European bank stress tests. Meanwhile, tax-exempt municipal bonds slightly outperformed US investment grade bonds on a 12-month basis, but underperformed year-to-date as investors rotated to the relative safety of Treasuries.

Regarding cash investments, yields on money market securities remain near all-time lows (producing returns only marginally above zero percent), with the Federal Open Market Committee reiterating that economic circumstances are likely to necessitate an accommodative interest rate stance for an extended period.

Against this backdrop, the major market averages posted the following returns:

Total Returns as of August 31, 2010	6-month	12-month
US large cap equities (S&P 500 Index)	(4.04)%	4.91%
US small cap equities (Russell 2000 Index)	(3.60)	6.60
International equities (MSCI Europe, Australasia, Far East Index)	(3.04)	(2.34)
3-month Treasury bill (BofA Merrill Lynch 3-Month Treasury Bill Index)	0.07	0.14
US Treasury securities (BofA Merrill Lynch 10-Year US Treasury Index)	11.49	11.58
US investment grade bonds (Barclays Capital US Aggregate Bond Index)	5.81	9.18
Tax-exempt municipal bonds (Barclays Capital Municipal Bond Index)	5.42	9.78
US high yield bonds (Barclays Capital US Corporate High Yield 2% Issuer Capped Index)	6.62	21.40

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

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

Although conditions have improved over the past couple of years, investors across the globe continue to face uncertainty about the future direction of economic growth. Through periods of uncertainty, as ever, BlackRock's full resources are dedicated to the management of our clients' assets. For additional market perspective and investment insight, visit www.blackrock.com/shareholdermagazine, where you'll find the most recent issue of our award-winning *Shareholder*[®] magazine, as well as its quarterly companion newsletter, *Shareholder Perspectives*. We thank you for entrusting BlackRock with your investments, and we look forward to your continued partnership in the months and years ahead.

Sincerely,
Rob Kapito
President, BlackRock Advisors, LLC

THIS PAGE NOT PART OF YOUR FUND REPORT

3

Trust Summary as of August 31, 2010

BlackRock Insured Municipal Income Trust

Trust Overview

BlackRock Insured Municipal Income 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, and investing, under normal circumstances, at least 80% of its assets in municipal bonds that are covered by insurance guaranteeing the timely payment of principal at maturity and interest when due. The Trust also invests at least 80% of its assets in municipal bonds of the highest investment grade quality at the time of investment. The Trust may invest directly in such securities or synthetically through the use of derivatives. Due to the repeal of the Florida intangible personal property tax, the Board approved an amended policy in September 2008, allowing the Trust the flexibility to invest in municipal obligations regardless of geographical location.

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

Performance

For the 12 months ended August 31, 2010, the Trust returned 18.42% based on market price and 14.74% based on net asset value (NAV). For the same period, the closed-end Lipper Insured Municipal Debt Funds (Leveraged) category posted an average return of 23.80% based on market price and 15.41% 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. Given the attractiveness of municipal bonds coupled with low yields on cash equivalents, we maintained a low cash balance and fully invested posture. The Trust benefited from its modestly long duration as interest rates declined. The Trust's exposure to the longer end of the yield curve contributed to performance as yields generally declined in the 10- to 30-year range during the period. Holdings of insured bonds with lower quality underlying credits also aided results as credit spreads generally tightened over the period. The Trust's performance was negatively impacted by its exposure to certain lower quality Texas- and California-issued zero-coupon bonds as spreads widened in this sector. Holdings of bonds with shorter maturities and premium coupon bonds with short call dates also detracted as the shorter end of the yield curve underperformed longer-dated issues.

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)	BYM
Initial Offering Date	October 31, 2002
Yield on Closing Market Price as of August 31, 2010 (\$15.26) ¹	5.82%
Tax Equivalent Yield ²	8.95%
Current Monthly Distribution per Common Share ³	\$0.074
Current Annualized Distribution per Common Share ³	\$0.888
Leverage as of August 31, 2010 ⁴	36%

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

- 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 A change in the distribution rate was declared on September 1, 2010. The Monthly Distribution per Common Share was increased to \$0.077. 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 Auction Market Preferred Shares (Preferred 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 Preferred 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 11.

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

	8/31/10	8/31/09	Change	High	Low
Market Price	\$ 15.26	\$ 13.69	11.47%	\$ 15.49	\$ 12.78
Net Asset Value	\$ 14.64	\$ 13.55	8.04%	\$ 14.72	\$ 13.54

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

Sector Allocations

	8/31/10	8/31/09
Utilities	24%	25%
County/City/Special District/School District	21	19
Transportation	21	25
State	15	15
Health	7	7
Tobacco	6	6
Education	3	2
Corporate	2	
Housing	1	1

Credit Quality Allocations⁵

	8/31/10	8/31/09
AAA/Aaa	57%	56%
AA/Aa	24	19
A	12	15
BBB/Baa	5	8
Not Rated ⁶	2	2

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

- ⁵ Using the higher of Standard & Poor's (S&P's) or Moody's Investors Service (Moody's) ratings.
- ⁶ The investment advisor has deemed certain of these non-rated securities to be of investment grade quality. As of August 31, 2010 and August 31, 2009, the market value of these securities was \$10,513,600 representing 2% and \$10,859,100 representing 2%, respectively, of the Trust's long-term investments.

Trust Summary as of August 31, 2010

BlackRock Insured Municipal Income Investment Trust

Trust Overview

BlackRock Insured Municipal Income Investment 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, and investing, under normal market conditions, at least 80% of its managed assets in municipal bonds that are covered by insurance guaranteeing the timely payment of principal at maturity and interest when due. The Trust also invests at least 80% of its assets in municipal bonds of the highest investment grade quality at the time of investment. The Trust may invest directly in such securities or synthetically through the use of derivatives. Due to the repeal of the Florida intangible personal property tax, the Board approved an amended policy in September 2008, allowing the Trust the flexibility to invest in municipal obligations regardless of geographical location.

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

Performance

For the 12 months ended August 31, 2010, the Trust returned 27.70% based on market price and 13.93% based on NAV. For the same period, the closed-end Lipper Insured Municipal Debt Funds (Leveraged) category posted an average return of 23.80% based on market price and 15.41% 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. The Trust s exposure to premium coupon bonds with short call dates detracted from performance as securities on the shorter end of the yield curve underperformed longer-dated issues in the declining interest rate environment. Exposure to zero-coupon bonds also detracted as retail investors shunned them in favor of current coupon bonds. However, the Trust s holdings of health and utilities bonds with maturities of 20 years and longer contributed positively to performance as each of these sectors outperformed the broader market and bonds with longer maturities benefited from declining yields.

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 August 31, 2010 (\$15.64) ¹	5.64%
Tax Equivalent Yield ²	8.68%
Current Monthly Distribution per Common Share ³	\$0.0735
Current Annualized Distribution per Common Share ³	\$0.8820
Leverage as of August 31, 2010 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.

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

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

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

⁴ Represents Preferred Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to Preferred 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 11.

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

	8/31/10	8/31/09	Change	High	Low
Market Price	\$ 15.64	\$ 13.01	20.22%	\$ 15.76	\$ 12.67
Net Asset Value	\$ 15.08	\$ 14.06	7.25%	\$ 15.10	\$ 13.99

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

Sector Allocations

	8/31/10	8/31/09
County/City/Special District/School District	36%	46%
Utilities	27	27
Transportation	15	7
State	11	9
Health	10	10
Housing	1	1

Credit Quality Allocations⁵

	8/31/10	8/31/09
AAA/Aaa	59%	44%
AA/Aa	25	29
A	13	20
Not Rated ⁶	3	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 August 31, 2010 and August 31, 2009, the market value of these securities was \$5,171,100 representing 3% and \$7,552,594 representing 4%, respectively, of the Trust's long-term investments.

Trust Summary as of August 31, 2010

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 12 months ended August 31, 2010, the Trust returned 22.90% based on market price and 24.13% based on NAV. For the same period, the closed-end Lipper General Municipal Debt Funds (Leveraged) category posted an average return of 23.82% based on market price and 18.86% based on NAV. All returns reflect reinvestment of dividends. The Trust's premium 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. The Trust's high duration and low cash balance resulted in positive capital appreciation as interest rates declined. Many of the Trust's holdings began the period with depressed valuations resulting from their underperformance during the periods of dislocations in the credit market, which positioned them for more upward price movement potential as the market continued its recovery. Among these holdings were lower quality bonds, which outperformed as credit spreads tightened, and long-term bonds, which benefited from declining yields. We purchased a number of new issues structured with the goal of creating greater potential for price appreciation in response to declining interest rates. The Trust's increased exposure to the health and housing sectors also added to performance as these sectors performed well during the period. Conversely, the Trust's holdings on the shorter end of the yield curve, including premium coupon bonds with short call dates, pre-refunded bonds, and other short maturity issues, detracted from performance as they underperformed longer-dated issues. Exposure to zero-coupon bonds detracted from performance as investors favored current coupon bonds.

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 August 31, 2010 (\$15.79) ¹	6.46%
Tax Equivalent Yield ²	9.94%
Current Monthly Distribution per Common Share ³	\$0.085
Current Annualized Distribution per Common Share ³	\$1.020
Leverage as of August 31, 2010 ⁴	35%

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

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 A change in the distribution rate was declared on September 1, 2010. The Monthly Distribution per Share was increased to \$0.086. The Yield on Closing Market Price, Current Monthly Distribution per Share and Current Annualized Distribution per Share do not reflect the new distribution rate. The new distribution rate is not constant and is subject to further change in the future.

⁴ Represents Preferred Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to Preferred 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 11.

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

	8/31/10	8/31/09	Change	High	Low
Market Price	\$ 15.79	\$ 13.80	14.42%	\$ 15.83	\$ 13.25
Net Asset Value	\$ 15.29	\$ 13.23	15.57%	\$ 15.29	\$ 13.23

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

Sector Allocations

	8/31/10	8/31/09
Health	23%	31%
State	15	10
Housing	14	16
County/City/Special District/School District	13	13
Education	10	5
Transportation	9	7
Corporate	8	8
Utilities	5	7
Tobacco	3	3

Credit Quality Allocations⁵

	8/31/10	8/31/09
AAA/Aaa	26%	25%
AA/Aa	20	20
A	22	24
BBB/Baa	20	17
BB/Ba	1	1
B	3	4
CCC/Caa	1	
Not Rated ⁶	7	9

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

- 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 August 31, 2010 and August 31, 2009, the market value of these securities was \$6,207,616 representing 3% and \$4,472,353 representing 2%, respectively, of the Trust's long-term investments.

6	ANNUAL REPORT	AUGUST 31, 2010
---	---------------	-----------------

Trust Summary as of August 31, 2010

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. Due to the repeal of the Florida intangible personal property tax, the Board approved an amended policy in September 2008, allowing the Trust the flexibility to invest in municipal obligations regardless of geographical location.

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

Performance

For the 12 months ended August 31, 2010, the Trust returned 26.02% based on market price and 16.80% based on NAV. For the same period, the closed-end Lipper General Municipal Debt Funds (Leveraged) category posted an average return of 23.82% based on market price and 18.86% 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. The Trust's exposure to premium coupon bonds with short call dates detracted from performance as securities on the shorter end of the yield curve underperformed longer dated issues in the declining interest rate environment. Exposure to zero-coupon bonds also detracted as retail investors shunned them in favor of current coupon bonds. However, the Trust's holdings of health, transportation and housing bonds with maturities of 20 years and longer contributed positively to performance as each of these sectors outperformed the broader market and bonds with longer maturities benefited from declining yields.

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	BIE
Initial Offering Date	April 30, 2002
Yield on Closing Market Price as of August 31, 2010 (\$15.60) ¹	6.06%
Tax Equivalent Yield ²	9.32%
Current Monthly Distribution per Common Share ³	\$0.0788
Current Annualized Distribution per Common Share ³	\$0.9456
Leverage as of August 31, 2010 ⁴	40%

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

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 is not constant and is subject to change.

⁴ Represents Preferred Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to Preferred 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 11.

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

	8/31/10	8/31/09	Change	High	Low
Market Price	\$ 15.60	\$ 13.20	18.18%	\$ 15.77	\$ 12.65
Net Asset Value	\$ 15.51	\$ 14.16	9.53%	\$ 15.51	\$ 14.08

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

Sector Allocations

	8/31/10	8/31/09
Health	22%	22%
County/City/Special District/School District	19	20
Utilities	18	21
Transportation	18	13
Education	8	10
State	8	8
Housing	5	5
Corporate	1	1
Tobacco	1	

Credit Quality Allocations⁵

	8/31/10	8/31/09
AAA/Aaa	14%	16%
AA/Aa	64	45
A	17	27
BBB/Baa	4	3
BB/Ba		1
Not Rated	1	86

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

⁶

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

The investment advisor has deemed certain of these non-rated securities to be of investment grade quality. As of August 31, 2009, the market value of these securities was \$2,503,826 representing 3% of the Trust's long-term investments.

ANNUAL REPORT

AUGUST 31, 2010

7

Trust Summary as of August 31, 2010

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 12 months ended August 31, 2010, the Trust returned 21.42% based on market price and 22.83% based on NAV. For the same period, the closed-end Lipper General Municipal Debt Funds (Leveraged) category posted an average return of 23.82% based on market price and 18.86% based on NAV. All returns reflect reinvestment of dividends. The Trust s premium 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. The Trust s high duration and low cash balance resulted in positive capital appreciation during the period. Many of the Trust s holdings began the period with depressed valuations resulting from their underperformance during the periods of dislocations in the credit market, which positioned them for more upward price movement potential as the market continued its recovery. Among these holdings were lower quality bonds, which outperformed as credit spreads tightened, and long-term bonds, which benefited from declining yields. The Trust s increased exposure to the health and transportation sectors also aided performance as these sectors performed well during the period. Conversely, the Trust s holdings on the shorter end of the yield curve, including premium coupon bonds with short call dates, pre-refunded bonds, and other short maturity issues, detracted from performance as they underperformed longer-dated issues. Exposure to zero-coupon bonds detracted from performance as retail investors shunned them in favor of current coupon bonds.

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 August 31, 2010 (\$15.22) ¹	6.39%
Tax Equivalent Yield ²	9.83%
Current Monthly Distribution per Common Share ³	\$0.081
Current Annualized Distribution per Common Share ³	\$0.972
Leverage as of August 31, 2010 ⁴	36%

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

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 A change in the distribution rate was declared on September 1, 2010. The Monthly Distribution per Share was increased to \$0.082. The Yield on Closing Market Price, Current Monthly Distribution per Share and Current Annualized Distribution per Share do not reflect the new distribution rate. The new distribution rate is not constant and is subject to further change in the future.
- ⁴ Represents Preferred Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to Preferred 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 11.

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

	8/31/10	8/31/09	Change	High	Low
Market Price	\$ 15.22	\$ 13.45	13.16%	\$ 15.22	\$ 12.72
Net Asset Value	\$ 14.63	\$ 12.78	14.48%	\$ 14.63	\$ 12.78

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

Sector Allocations

	8/31/10	8/31/09
Health	19%	20%
State	17	15
County/City/Special District	12	8
Corporate	11	11
Transportation	11	12
Utilities	13	12
Education	7	10
Housing	6	8
Tobacco	4	4

Credit Quality Allocations⁵

	8/31/10	8/31/09
AAA/Aaa	18%	22%
AA/Aa	21	12
A	30	26
BBB/Baa	17	23
BB/Ba	1	1
B	6	6
CCC/Caa	1	1
Not Rated ⁶	6	9

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

- 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 August 31, 2010 and August 31, 2009, the market value of these securities was \$13,839,185 representing 3% and \$16,290,531 representing 4%, respectively, of the Trust's long-term investments.

Trust Summary as of August 31, 2010

BlackRock MuniHoldings Insured Investment Fund

Trust Overview

BlackRock MuniHoldings Insured Investment 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 that are covered by insurance guaranteeing the timely payment of principal at maturity and interest at the time of investment. The Trust may invest directly in such securities or synthetically through the use of derivatives. Due to the repeal of the Florida intangible personal property tax, the Board approved an amended policy in September 2008, allowing the Trust the flexibility to invest in municipal obligations regardless of geographical location.

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

Performance

For the 12 months ended August 31, 2010, the Trust returned 23.46% based on market price and 15.22% based on NAV. For the same period, the closed-end Lipper Insured Municipal Debt Funds (Leveraged) category posted an average return of 23.80% based on market price and 15.41% 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. The Trust's exposure to premium coupon bonds with short call dates detracted from performance as securities on the shorter end of the yield curve underperformed longer-dated issues in the declining interest rate environment. However, the Trust's holdings of health, transportation and utility bonds with maturities of 20 years and longer contributed positively to performance as each of these sectors outperformed the broader market and bonds with longer maturities benefited from declining yields.

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 August 31, 2010 (\$14.65) ¹	5.98%
Tax Equivalent Yield ²	9.20%
Current Monthly Distribution per Common Share ³	\$0.073
Current Annualized Distribution per Common Share ³	\$0.876
Leverage as of August 31, 2010 ⁴	38%

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

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

³ A change in the distribution rate was declared on September 1, 2010. The Monthly Distribution per Common Share was increased to \$0.075. 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 Preferred Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to Preferred 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 11.

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

	8/31/10	8/31/09	Change	High	Low
Market Price	\$ 14.65	\$ 12.63	15.99%	\$ 14.76	\$ 12.24
Net Asset Value	\$ 14.69	\$ 13.57	8.25%	\$ 14.69	\$ 13.57

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

Sector Allocations

	8/31/10	8/31/09
Transportation	27%	21%
Utilities	26	32
County/City/Special District/School District	18	21
State	12	6
Health	11	10
Housing	4	4
Education	2	6

Credit Quality Allocations⁵

	8/31/10	8/31/09
AAA/Aaa	64%	56%
AA/Aa	24	16
A	11	25
Not Rated ⁶	1	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 August 31, 2010 and August 31, 2009, the market value of these securities was \$5,793,997 representing 1% and \$20,244,144 representing 3%, respectively, of the Trust's long-term investments.

ANNUAL REPORT

AUGUST 31, 2010

9

Trust Summary as of August 31, 2010

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 12 months ended August 31, 2010, the Trust returned 24.69% based on market price and 19.31% based on NAV. For the same period, the closed-end Lipper General Municipal Debt Funds (Leveraged) category posted an average return of 23.82% based on market price and 18.86% 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. The Trust benefited from its overall high duration (sensitivity to interest rates) as bond prices appreciated as yields declined. The Trust s bias toward the longer end of the yield curve contributed to performance as falling interest rates had a greater positive effect on longer-dated issues. In addition, exposure to lower quality underlying credits aided performance as credit spreads generally tightened over the period. Conversely, the Trust s exposure to bonds structured with premium coupons, short calls and/or short maturities detracted from performance as the shorter end of the yield curve underperformed longer-dated issues.

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 August 31, 2010 (\$10.38) ¹	6.47%
Tax Equivalent Yield ²	9.95%
Current Monthly Distribution per Common Share ³	\$0.056
Current Annualized Distribution per Common Share ³	\$0.672
Leverage as of August 31, 2010 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.

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

- ² Tax equivalent yield assumes the maximum federal tax rate of 35%.
- ³ A change in the distribution rate was declared on September 1, 2010. The Monthly Distribution per Common Share was increased to \$0.057. 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 Preferred Shares and TOBs as a percentage of total managed assets, which is the total assets of the Trust, including any assets attributable to Preferred 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 11.

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

	8/31/10	8/31/09	Change	High	Low
Market Price	\$ 10.38	\$ 8.91	16.50%	\$ 10.68	\$ 8.76
Net Asset Value	\$ 10.01	\$ 8.98	11.47%	\$ 10.01	\$ 8.98

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

Sector Allocations

	8/31/10	8/31/09
Health	22%	20%
Corporate	17	13
Transportation	13	11
Utilities	12	15
County/City/Special District/School District	10	10
State	8	15
Education	7	6
Housing	7	5
Tobacco	4	5

Credit Quality Allocations⁵

	8/31/10	8/31/09
AAA/Aaa	23%	26%
AA/Aa	35	28
A	23	28
BBB/Baa	15	15
B	1	1
Not Rated ⁶	3	2

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

⁶

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

The investment advisor has deemed certain of these non-rated securities to be of investment grade quality. As of August 31, 2010 and August 31, 2009, the market value of these securities was \$21,938,423 representing 2% and \$16,779,679 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. However, these objectives cannot be achieved in all interest rate environments.

To leverage, all the Trusts issue Preferred Shares, which pay dividends at prevailing short-term interest rates, and 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 will be based on short-term interest rates, which normally will 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 Common 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 the Preferred Shares issuance earn income based on long-term interest rates. In this case, the dividends paid to 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 on the Common Shares will be reduced or eliminated completely. Furthermore, if prevailing short-term interest rates rise above long-term interest rates of 6%, the yield curve has a negative slope. In this case, the Trust pays dividends on the higher short-term interest rate whereas the Trust's total portfolio earns income based on lower long-term interest rates.

Furthermore, the value of the Trust's 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 Trust's Preferred Shares do not fluctuate in relation to interest rates. As a result, changes in interest rates can influence the Trust's NAV positively or negatively in addition to the impact on Trust performance from leverage from Preferred Shares discussed above.

The Trusts may also leverage their assets through the use of tender option bond (TOB) programs, 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 NAVs per share.

The use of leverage may enhance opportunities for increased returns 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 each Trust's NAV, market price and dividend rate than a comparable portfolio without leverage. If the income derived from securities purchased with assets received from leverage exceeds the cost of leverage, each Trust's 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, the Trusts' 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 ratings agencies that rate preferred shares issued by the Trust. 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, the Trusts are permitted to issue Preferred Shares in an amount up to 50% of their total managed assets at the time of issuance. Under normal circumstances, each Trust anticipates that the total economic leverage from Preferred Shares and/or TOBs will not exceed 50% of its total managed assets at the time such leverage is incurred. As of August 31, 2010, the Trusts had economic leverage from Preferred Shares and/or TOBs as a percentage of their total managed assets as follows:

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

Derivative Financial Instruments

The Trusts may invest in various derivative instruments, including financial futures contracts, as specified in Note 2 of the Notes to Financial Statements, which may constitute forms of economic leverage. Such 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. Such derivative instruments involve risks, including the imperfect correlation between the value of a derivative instrument and the underlying asset, possible default of the counterparty to the transaction or illiquidity of the derivative instrument. Each Trust's ability to successfully use a derivative instrument depends on the investment advisor's ability to accurately predict pertinent market movements, which cannot be assured. The use of derivative instruments may result in losses greater than if they had not been used, may require a Trust to sell or purchase portfolio securities at inopportune times or for distressed values, may limit the amount of appreciation a Trust can realize on an investment, may result in lower distributions paid to shareholders, or may cause the Trusts to hold a security that they might otherwise sell. The Trusts' investments in these instruments are discussed in detail in the Notes to Financial Statements.

Schedule of Investments August 31, 2010

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

Municipal Bonds	Par (000)	Value
Alabama 1.0%		
Birmingham Special Care Facilities Financing Authority, RB, Children's Hospital (AGC), 6.00%, 6/01/39	\$ 1,495	\$ 1,673,503
County of Jefferson Alabama, RB, Series A, 4.75%, 1/01/25	2,800	2,202,172
		<u>3,875,675</u>
Arizona 0.6%		
State of Arizona, COP, Department of Administration, Series A (AGM):		
5.00%, 10/01/27	1,500	1,594,455
5.25%, 10/01/28	650	697,522
		<u>2,291,977</u>
California 28.6%		
Arcadia Unified School District California, GO, CAB, Election of 2006, Series A (AGM), 4.96%, 8/01/39 (a)	2,000	335,520
California Health Facilities Financing Authority, Refunding RB, St. Joseph Health System, Series A, 5.75%, 7/01/39	625	669,619
California Infrastructure & Economic Development Bank, RB, Bay Area Toll Bridges, First Lien, Series A (AMBAC), 5.00%, 1/01/28 (b)	10,100	12,580,661
Coast Community College District California, GO, Refunding, CAB, Election of 2002, Series C (AGM):		
5.58%, 8/01/31 (c)	7,450	6,525,604
5.40%, 8/01/36 (a)	4,200	896,154
Fresno Unified School District California, GO, Election of 2001, Series E (AGM), 5.00%, 8/01/30	1,100	1,155,044
Golden State Tobacco Securitization Corp. California, RB, Series 2003-A-1 (b):		
6.63%, 6/01/13	6,500	7,563,140
6.75%, 6/01/13	14,500	16,921,065
Los Angeles Municipal Improvement Corp., RB, Series B1 (NPFGC), 4.75%, 8/01/37	4,000	4,002,680
Metropolitan Water District of Southern California, RB, Series B-1 (NPFGC), 5.00%, 10/01/33	17,500	18,177,425
Monterey Peninsula Community College District, GO, CAB, Series C (AGM) (a):		
5.15%, 8/01/31	13,575	4,014,670
5.16%, 8/01/32	14,150	3,848,517
Orange County Sanitation District, COP, Series B (AGM), 5.00%, 2/01/31	2,500	2,689,975
Sacramento Unified School District California, GO, Election of 2002 (NPFGC), 5.00%, 7/01/30	2,700	2,812,617
San Francisco City & County Public Utilities Commission, Refunding RB, Series A (AGM), 5.00%, 11/01/31	15,000	15,226,800

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

Municipal Bonds	Par (000)	Value
California (concluded)		
San Joaquin Hills Transportation Corridor Agency California, Refunding RB, CAB, Series A (NPFGC), 5.50%, 1/15/31 (a)	\$ 53,000	\$ 10,150,030
San Jose Unified School District Santa Clara County California, GO, Election of 2002, Series B (NPFGC), 5.00%, 8/01/29	2,350	2,478,545
		110,048,066
District of Columbia 2.5%		
District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.75%, 5/15/40	9,500	9,425,235
Florida 12.9%		
Broward County School Board Florida, COP, Series A (AGM), 5.25%, 7/01/33	2,000	2,110,140
City of Tallahassee Florida, RB (NPFGC), 5.00%, 10/01/32	3,000	3,145,620
County of Broward Florida, RB, Series A, 5.25%, 10/01/34	950	1,013,042
County of Duval Florida, COP, Master Lease Program (AGM), 5.00%, 7/01/33	2,800	2,871,456
County of Miami-Dade Florida, RB: CAB, Sub-Series A (NPFGC), 5.25%, 10/01/38 (a)	25,520	4,233,768
Jackson Health System (AGC), 5.75%, 6/01/39	2,300	2,498,260
Water & Sewer System (AGM), 5.00%, 10/01/39	10,100	10,690,143
County of Miami-Dade Florida, Refunding RB (AGM), 5.00%, 7/01/35	1,300	1,334,658
Florida Housing Finance Corp., RB, Homeowner Mortgage, Series 3 (Ginnie Mae), 5.45%, 7/01/33	4,320	4,514,616
Florida State Department of Environmental Protection, RB, Series B (NPFGC), 5.00%, 7/01/27	7,500	8,080,725
Miami-Dade County School Board, COP, Refunding, Series B (AGC), 5.25%, 5/01/31	2,385	2,534,706
Orange County School Board, COP, Series A (AGC), 5.50%, 8/01/34	5,590	6,108,249
Sarasota County Public Hospital District, RB, Sarasota Memorial Hospital Project, Series A, 5.63%, 7/01/39	300	318,291
		49,453,674
Georgia 0.2%		
Gwinnett County Hospital Authority, Refunding RB, Gwinnett Hospital System, Series D (AGM), 5.50%, 7/01/41	900	944,199

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:

ACA	ACA Financial Guaranty Corp.
AGC	Assured Guaranty Corp.
AGM	Assured Guaranty Municipal Corp.
AMBAC	American Municipal Bond Assurance Corp.
AMT	Alternative Minimum Tax (subject to)
ARB	Airport Revenue Bonds
ARS	Auction Rate Securities
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
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
IDB	Industrial Development Board
IDRB	Industrial Development Revenue Bonds
ISD	Independent School District
MRB	Mortgage Revenue Bonds
NPFGC	National Public Finance Guarantee Corp.
PILOT	Payment in Lieu of Taxes
PSF-GTD	Permanent School Fund Guaranteed
RB	Revenue Bonds
SBPA	Stand-by Bond Purchase Agreement
S/F	Single Family
VRDN	Variable Rate Demand Notes

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
Illinois 4.9%		
Chicago Board of Education Illinois, GO, Refunding, Chicago School Reform Board, Series A (NPFGC), 5.50%, 12/01/26	\$ 2,500	\$ 2,950,825
City of Chicago Illinois, RB, Series A (AGC), 5.00%, 1/01/38	7,310	7,609,856
County of Cook Illinois, GO, Refunding, Series A, 5.25%, 11/15/33	1,475	1,597,278
Illinois Municipal Electric Agency, RB, Series A (NPFGC), 5.25%, 2/01/27	4,800	5,144,880
State of Illinois, RB, Build Illinois, Series B, 5.25%, 6/15/34	1,400	1,480,640
		<u>18,783,479</u>
Indiana 0.7%		
Indiana Municipal Power Agency, RB: Series A (NPFGC), 5.00%, 1/01/37	2,050	2,113,796
Series B, 5.75%, 1/01/34	450	490,599
		<u>2,604,395</u>
Iowa 1.4%		
Iowa Finance Authority, RB, Series A (AGC), 5.63%, 8/15/37	5,000	5,511,450
Kentucky 0.4%		
Kentucky State Property & Buildings Commission, Refunding RB, Project No. 93 (AGC), 5.25%, 2/01/29	1,500	1,680,600
Louisiana 2.1%		
State of Louisiana, RB, Series A (AGM), 5.00%, 5/01/31	7,500	8,005,800
Michigan 2.7%		
City of Detroit Michigan, RB: Senior Lien, Series A (NPFGC), 5.00%, 7/01/30	1,000	1,001,310
Senior Lien, Series A (NPFGC), 5.00%, 7/01/34	2,660	2,669,576
System, Second Lien, Series A (BHAC), 5.50%, 7/01/36	2,900	3,071,796
System, Second Lien, Series B (NPFGC), 5.00%, 7/01/36	400	402,992
City of Detroit Michigan, Refunding RB, Second Lien, Series E (BHAC), 5.75%, 7/01/31	3,000	3,282,330
		<u>10,428,004</u>

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

Nevada 6.7%

County of Clark Nevada, RB:

Las Vegas-McCarran International Airport, Series A

(AGC), 5.25%, 7/01/39 4,100 4,298,522

Subordinate Lien, Series A2 (BHAC), 5.00%,

7/01/30 2,500 2,596,900

System, Subordinate Lien, Series C (AGM), 5.00%,

7/01/26 1,650 1,781,884

Truckee Meadows Water Authority, RB, Series A (AGM) (b):

5.00%, 7/01/11 10,000 10,397,700

5.13%, 7/01/11 6,500 6,765,265

25,840,271

New York 0.4%

New York State Dormitory Authority, ERB, Series B,

5.75%, 3/15/36 1,300 1,506,986

Ohio 0.3%

Ohio Higher Educational Facility Commission,

Refunding RB, Summa Health System, 2010 Project

(AGC), 5.25%, 11/15/40 1,125 1,164,094

Pennsylvania 1.4%

City of Philadelphia Pennsylvania, RB, Third Series

(AGM), 5.13%, 8/01/11 (b) 5,200 5,424,692

Puerto Rico 1.6%

Puerto Rico Sales Tax Financing Corp., RB, First

Sub-Series A, 6.38%, 8/01/39 5,300 5,964,991

Municipal Bonds	Par (000)	Value
-----------------	--------------	-------

Rhode Island 0.8%

Rhode Island Health & Educational Building Corp.,

Refunding RB, Public Schools Financing Program,

Series E (AGC), 6.00%, 5/15/29 \$ 2,625 \$ 2,991,004

South Carolina 2.7%

South Carolina Transportation Infrastructure Bank, RB,

Junior Lien, Series B (AMBAC), 5.13%, 10/01/11 (b) 10,000 10,513,600

Tennessee 5.5%

Knox County Health Educational & Housing Facilities

Board Tennessee, Refunding RB (AGM), Series A (a):

CAB, 5.84%, 1/01/22 11,705 6,385,897

CAB, 5.88%, 1/01/23 9,260 4,736,768

CAB, 5.90%, 1/01/24 8,500 4,083,230

CAB, 5.91%, 1/01/25 6,850 3,094,761

CAB, 5.93%, 1/01/26 5,000 2,116,550

Covenant, 4.79%, 1/01/41 3,000 608,730

21,025,936

Texas 27.6%

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

City of Houston Texas, RB, Senior Lien, Series A, 5.50%, 7/01/34	4,165	4,575,461
City of San Antonio Texas, Refunding RB (NPFGC):		
5.13%, 5/15/29	9,250	10,102,850
5.13%, 5/15/34	10,000	10,843,300
Coppell ISD Texas, GO, Refunding, CAB (PSF-GTD), 5.64%, 8/15/30 (a)	10,030	4,488,626
County of Harris Texas, GO (NPFGC) (a):		
5.56%, 8/15/25	7,485	4,467,946
5.59%, 8/15/28	10,915	5,542,637
County of Harris Texas, Refunding RB, Senior Lien, Toll Road (AGM), 5.00%, 8/15/30	5,510	5,819,552
Harris County-Houston Sports Authority, Refunding RB (NPFGC) (a):		
CAB, Junior Lien, Series H, 5.92%, 11/15/38	5,785	650,234
CAB, Junior Lien, Series H, 5.94%, 11/15/39	6,160	636,328
Third Lien, Series A-3, 5.97%, 11/15/38	26,890	3,022,436
Third Lien, Series A-3, 5.98%, 11/15/39	27,675	2,789,640
Lewisville ISD Texas, GO, Refunding, CAB, School Building (NPFGC), 4.67%, 8/15/24 (a)	5,315	2,861,118
Mansfield ISD Texas, GO, School Building (PSF-GTD), 5.00%, 2/15/33	2,980	3,214,794
North Texas Tollway Authority, Refunding RB, First Tier:		
CAB, System (AGC), 5.33%, 1/01/29 (a)	5,000	1,975,450
CAB, System (AGC), 5.45%, 1/01/30 (a)	955	352,643
Series A, 6.00%, 1/01/28	625	705,250
System (NPFGC), 5.75%, 1/01/40	23,050	24,476,334
Texas State Turnpike Authority, RB, First Tier, Series A (AMBAC), 5.00%, 8/15/42	20,000	19,791,600

106,316,199

Washington 6.4%

Chelan County Public Utility District No. 1, RB, Chelan Hydro System, Series C (AMBAC), 5.13%, 7/01/33	3,655	3,728,100
County of King Washington, Refunding RB (AGM), 5.00%, 1/01/36	2,200	2,317,568
Port of Seattle Washington, RB, Series A (NPFGC), 5.00%, 4/01/31	4,500	4,542,795
State of Washington, GO, Various Purpose, Series 02-A (AGM), 5.00%, 7/01/25	5,000	5,170,200
Washington Health Care Facilities Authority, RB:		
MultiCare Health Care, Series C (AGC), 5.50%, 8/15/43	6,600	6,964,848
Providence Health & Services, Series A, 5.00%, 10/01/39	1,000	1,038,540
Providence Health & Services, Series A, 5.25%, 10/01/39	675	714,028

24,476,079

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
Wisconsin 0.4%		
Wisconsin Health & Educational Facilities Authority, RB, Ascension Health Senior Credit Group, 5.00%, 11/15/33	\$ 1,500	\$ 1,558,320
Total Municipal Bonds 111.8%		429,834,726

Municipal Bonds Transferred to
Tender Option Bond Trusts (d)

Arizona 0.4%		
Phoenix Civic Improvement Corp., RB, Junior Lien, Series A, 5.00%, 7/01/34	1,300	1,407,939
California 10.6%		
California State University, RB, Systemwide, Series A (AGM), 5.00%, 11/01/33	3,379	3,549,390
California State University, Refunding RB, Systemwide, Series A (AGM), 5.00%, 11/01/32	8,000	8,382,560
Foothill-De Anza Community College District, GO, Election of 1999, Series C (NPFGC), 5.00%, 8/01/36	7,500	7,770,525
Los Angeles Community College District California, GO, Election of 2001, Series A (AGM), 5.00%, 8/01/32	5,000	5,296,250
San Diego Community College District California, GO, Election of 2002, 5.25%, 8/01/33	449	491,913
San Diego County Water Authority, COP, Refunding, Series 2008-A (AGM), 5.00%, 5/01/33	4,870	5,181,924
University of California, RB, Series C (NPFGC), 4.75%, 5/15/37	10,000	10,152,000
		40,824,562
District of Columbia 0.3%		
District of Columbia, RB, Series A, 5.50%, 12/01/30	1,080	1,264,259
Florida 3.8%		
City of Tallahassee Florida, RB (NPFGC), 5.00%, 10/01/37	5,000	5,189,950
Florida State Board of Education, GO, Series D, 5.00%, 6/01/37	2,999	3,220,665
Orange County School Board, COP, Series A (NPFGC), 5.00%, 8/01/30	6,000	6,255,360

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

14,665,975

Hawaii 2.7%

Honolulu City & County Board of Water Supply, RB, Series A (NPFGC), 5.00%, 7/01/33	10,000	10,373,200
--	--------	------------

Illinois 7.7%

Illinois State Toll Highway Authority, RB, Series B, 5.50%, 1/01/33	4,499	5,011,994
Metropolitan Pier & Exposition Authority, RB, McCormick Place Expansion Project, Series A (NPFGC), 5.00%, 12/15/28	24,010	24,648,906
		29,660,900

Massachusetts 3.7%

Massachusetts School Building Authority, RB, Series A (AGM), 5.00%, 8/15/30	12,987	14,051,391
---	--------	------------

Nevada 1.8%

City of Las Vegas Nevada, GO, Limited Tax, Performing Arts Center, 6.00%, 4/01/39	4,197	4,727,671
Clark County Water Reclamation District, GO, Series B, 5.75%, 7/01/34	2,024	2,313,216
		7,040,887

Municipal Bonds Transferred to Tender Option Bond Trusts (d)

**Par
(000)**

Value

New York 4.5%

Erie County Industrial Development Agency, RB, City School District of Buffalo Project, Series A (AGM), 5.75%, 5/01/28	\$ 4,494	\$ 5,048,871
Metropolitan Transportation Authority, RB, Series A (NPFGC), 5.00%, 11/15/31	7,002	7,466,053
Triborough Bridge & Tunnel Authority, RB, General, Series A-2, 5.25%, 11/15/34	4,500	4,956,030
		17,470,954

Ohio 0.2%

State of Ohio, RB, Cleveland Clinic Health, Series B, 5.50%, 1/01/34	620	674,777
--	-----	---------

South Carolina 0.2%

South Carolina State Public Service Authority, RB, Santee Cooper, Series A, 5.50%, 1/01/38	600	669,972
--	-----	---------

Texas 2.7%

Northside ISD Texas, GO, School Building (PSF-GTD), 5.13%, 6/15/29	9,500	10,447,005
--	-------	------------

Utah 1.4%

Utah Transit Authority, RB, Series A (AGM), 5.00%, 6/15/36	5,000	5,397,450
--	-------	-----------

Virginia 0.1%

Fairfax County IDA Virginia, Refunding RB, Health Care, Inova Health System, Series A, 5.50%, 5/15/35	400	437,280
--	-----	---------

Washington 1.0%

Central Puget Sound Regional Transit Authority, RB, Series A (AGM), 5.00%, 11/01/32	3,494	3,777,846
--	-------	-----------

**Total Municipal Bonds Transferred to
Tender Option Bond Trusts 41.1%**

158,164,397

**Total Long-Term Investments
(Cost \$568,697,435) 152.9%**

587,999,123

Short-Term Securities

New York 0.4%

City of New York New York, GO, VRDN, Sub-Series A-6 (AGM Insurance, Dexia Credit Local SBPA), 0.28%, 9/01/10 (e)	1,700	1,700,000
--	-------	-----------

Shares

Money Market Fund 2.5%

FFI Institutional Tax-Exempt Fund, 0.22% (f)(g)	9,416,737	9,416,737
---	-----------	-----------

**Total Short-Term Securities
(Cost \$11,116,737) 2.9%**

11,116,737

Total Investments (Cost \$579,814,172*) 155.8%

599,115,860

Other Assets Less Liabilities 1.0%

3,666,478

Liability for Trust Certificates, Including Interest

Expense and Fees Payable (21.1)% (80,964,933)

Preferred Shares, at Redemption Value (35.7)% (137,254,585)

Net Assets Applicable to Common Shares 100.0%

\$ 384,562,820

See Notes to Financial Statements.

Schedule of Investments (concluded)

BlackRock Insured Municipal Income Trust (BYM)

* The cost and unrealized appreciation (depreciation) of investments as of August 31, 2010, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 499,166,652
Gross unrealized appreciation	\$ 36,401,492
Gross unrealized depreciation	(17,366,796)
Net unrealized appreciation	\$ 19,034,696

- (a) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (b) 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.
- (c) 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 reflects the current yield as of report date.
- (d) Securities represent bonds transferred to a tender option bond 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 tender option bond trusts.
- (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 year, 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, 2009	Net Activity	Shares Held at August 31, 2010	Income
FFI Institutional Tax-Exempt Fund	4,401,744	5,014,993	9,416,737	\$7,910

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

Fair Value Measurements Various inputs are used in determining the fair value of investments, which are as follows:

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

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

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)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with 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 August 31, 2010 in determining the fair valuation of the Trust's investments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments in Securities:				
Long-Term Investments ¹		\$ 587,999,123		\$ 587,999,123
Short-Term Securities	\$ 9,416,737	1,700,000		11,116,737
Total	\$ 9,416,737	\$ 589,699,123		\$ 599,115,860

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

See Notes to Financial Statements.

ANNUAL REPORT

AUGUST 31, 2010

15

Schedule of Investments August 31, 2010

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

Municipal Bonds	Par (000)	Value
Alabama 1.7%		
Birmingham Special Care Facilities Financing Authority, RB, Children's Hospital (AGC):		
6.13%, 6/01/34	\$ 1,000	\$ 1,121,760
6.00%, 6/01/39	1,000	1,119,400
		<hr/>
		2,241,160
Arizona 0.5%		
State of Arizona, COP, Department of Administration, Series A (AGM):		
5.25%, 10/01/28	465	498,996
5.00%, 10/01/29	125	130,848
		<hr/>
		629,844
California 11.6%		
California State Public Works Board, RB, Various Capital Projects, Series G-1 (AGC), 5.25%, 10/01/24	2,000	2,147,780
County of Sacramento California, RB, Senior Series A (AGC), 5.50%, 7/01/41	1,400	1,506,778
Los Angeles Community College District California, GO, Election of 2001, Series A (NPFGC), 5.00%, 8/01/32	1,000	1,058,010
Los Angeles Municipal Improvement Corp., Refunding RB, Real Property, Series B (AGC), 5.50%, 4/01/39	3,810	4,112,400
Oxnard Union High School District, GO, Refunding, Election of 2004, Series A (AGM), 5.00%, 8/01/40	1,000	1,046,940
San Diego Public Facilities Financing Authority, Refunding RB, Series B (AGC), 5.38%, 8/01/34	1,125	1,237,365
San Jacinto Unified School District, GO, Election of 2006 (AGM), 5.25%, 8/01/32	1,000	1,049,570
State of California, GO, Various Purpose (AGM), 5.00%, 6/01/32	3,000	3,095,100
		<hr/>
		15,253,943
Colorado 1.2%		
Colorado Health Facilities Authority, RB, Hospital, NMC Inc. Project, Series B (AGM), 6.00%, 5/15/26	1,425	1,647,428
Florida 14.8%		
City of Miami Florida, RB (NPFGC), 5.25%, 1/01/28	5,035	5,434,628
City of Sunrise Florida, Refunding RB (AMBAC), 5.00%, 10/01/28	5,000	5,171,100
Village Center Community Development District, RB, Series A (NPFGC), 5.00%, 11/01/32	10,000	8,891,900
		<hr/>
		19,497,628

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

Georgia 3.3%

Georgia Higher Education Facilities Authority, RB, USG Real Estate III, Series A (AGC), 5.00%, 6/15/38	850	883,975
Gwinnett County Hospital Authority, Refunding RB, Gwinnett Hospital System, Series D (AGM), 5.50%, 7/01/41	1,350	1,416,298
Metropolitan Atlanta Rapid Transit Authority, RB, Third Indenture, Series B (AGM), 5.00%, 7/01/34	1,890	2,024,095
		<hr/> 4,324,368

Illinois 12.8%

Chicago Board of Education Illinois, GO, Refunding, Chicago School Reform Board, Series A (NPFGC), 5.50%, 12/01/26	900	1,062,297
Chicago Transit Authority, RB, Federal Transit Administration Section 5309, Series A (AGC), 6.00%, 6/01/26	1,300	1,544,387
City of Chicago Illinois, GO, Refunding, Projects, Series A (AGM):		
5.00%, 1/01/28	920	1,007,538
5.00%, 1/01/29	1,425	1,546,567
5.00%, 1/01/30	570	614,927

Municipal Bonds	Par (000)	Value
Illinois (concluded)		
City of Chicago Illinois, General, Third Lien RB: Airport, Series A (NPFGC), 5.00%, 1/01/33	\$ 1,000	\$ 1,013,470
Series C (AGM), 5.25%, 1/01/30	1,000	1,074,730
Series C (AGM), 5.25%, 1/01/35	820	870,250
City of Chicago Illinois, Refunding RB, Second Lien (NPFGC), 5.50%, 1/01/30	1,000	1,153,140
Illinois Municipal Electric Agency, RB, Series A (NPFGC):		
5.25%, 2/01/28	1,560	1,670,261
5.25%, 2/01/35	1,250	1,305,950
State of Illinois, RB:		
(AGM), 5.00%, 6/15/27	1,000	1,045,790
Build Illinois, Series B, 5.25%, 6/15/28	1,750	1,916,075
Village of Schaumburg Illinois, GO, Series B (NPFGC), 5.00%, 12/01/38	1,000	1,028,430
		<hr/> 16,853,812

Indiana 2.0%

Indianapolis Local Public Improvement Bond Bank, Refunding RB, Waterworks Project, Series A (AGC), 5.50%, 1/01/38	2,415	2,689,344
---	-------	-----------

Iowa 0.9%

Iowa Finance Authority, Refunding RB, Iowa Health System (AGC), 5.25%, 2/15/29	1,125	1,229,243
--	-------	-----------

Kentucky 0.8%

Kentucky Municipal Power Agency, RB, Prairie State Project, Series A (BHAC), 5.25%, 9/01/42	1,000	1,056,280
---	-------	-----------

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

Louisiana 2.6%

Louisiana State Citizens Property Insurance Corp., RB, Series C-3 (AGC), 6.13%, 6/01/25	2,510	2,876,460
New Orleans Aviation Board Louisiana, Refunding RB (AGC), Restructuring GARB:		
Series A-1, 6.00%, 1/01/23	375	441,641
Series A-2, 6.00%, 1/01/23	150	176,657
		<hr/> 3,494,758

Maine 0.9%

City of Portland Maine, RB, General (AGM), 5.25%, 1/01/35	1,095	1,165,551
--	-------	-----------

Michigan 15.9%

City of Detroit Michigan, RB:		
Second Lien, Series B (AGM), 6.25%, 7/01/36	1,700	1,901,603
Second Lien, Series B (AGM), 7.00%, 7/01/36	200	235,618
Second Lien, Series B (NPFGC), 5.50%, 7/01/29	1,790	1,901,571
Senior Lien, Series B (AGM), 7.50%, 7/01/33	1,500	1,840,260
Senior Lien, Series B (BHAC), 5.50%, 7/01/35	4,750	5,073,285
System, Second Lien, Series A (BHAC), 5.50%, 7/01/36	2,330	2,468,029
City of Detroit Michigan, Refunding RB:		
Second Lien, Series E (BHAC), 5.75%, 7/01/31	2,300	2,516,453
Senior Lien, Series C-1 (AGM), 7.00%, 7/01/27	1,800	2,155,374
Michigan State Building Authority, RB, Facilities Program, Series H (AGM), 5.00%, 10/15/26	365	396,722
Michigan State Building Authority, Refunding RB, Facilities Program, Series I (AGC):		
5.25%, 10/15/24	565	634,766
5.25%, 10/15/25	300	333,747
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	1,205	1,462,412
		<hr/> 20,919,840

Minnesota 5.0%

City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series B (AGC), 6.50%, 11/15/38	5,680	6,535,862
---	-------	-----------

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
Mississippi 1.6%		
Mississippi Development Bank Special Obligation, Refunding RB, Jackson Mississippi Water and Sewer System (AGM), 5.00%, 9/01/34	\$ 2,000	\$ 2,061,320
Nevada 3.0%		
County of Clark Nevada, RB: Las Vegas-McCarran International Airport, Series A (AGC), 5.25%, 7/01/39	2,295	2,406,124
Subordinate Lien, Series A-2 (NPFGC), 5.00%, 7/01/36	1,540	1,558,634
		3,964,758
New Jersey 4.9%		
New Jersey EDA, RB, School Facilities Construction, Series Z (AGC), 6.00%, 12/15/34	1,000	1,158,350
New Jersey Health Care Facilities Financing Authority, RB, Virtua Health (AGC), 5.50%, 7/01/38	1,300	1,423,565
New Jersey State Housing & Mortgage Finance Agency, RB, S/F Housing, Series CC, 5.25%, 10/01/29	1,575	1,662,869
New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series A (AGC), 5.50%, 12/15/38	2,000	2,239,700
		6,484,484
New York 2.9%		
New York City Transitional Finance Authority, Fiscal 2009, RB: Series S-3, 5.25%, 1/15/39	900	980,667
Series S-4 (AGC), 5.50%, 1/15/29	2,465	2,847,075
		3,827,742
Ohio 0.5%		
Ohio Higher Educational Facility Commission, Refunding RB, Summa Health System, 2010 Project (AGC), 5.25%, 11/15/40	625	646,719
Pennsylvania 0.8%		
Pennsylvania Turnpike Commission, Refunding RB, Sub-Series B-1 (AGM), 5.00%, 12/01/37	1,000	1,058,370
Puerto Rico 1.2%		

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

Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A, 6.38%, 8/01/39	1,350	1,519,384
--	-------	-----------

Texas 19.8%

City of Austin Texas, Refunding RB, Series A (AGM):		
5.00%, 11/15/28	705	781,641
5.00%, 11/15/29	895	984,312
City of Dallas Texas, Refunding RB (AGC), 5.25%, 8/15/38	800	849,256
City of Houston Texas, Refunding RB, Combined, First Lien, Series A (AGC):		
6.00%, 11/15/35	2,600	3,058,380
6.00%, 11/15/36	2,215	2,601,894
5.38%, 11/15/38	1,000	1,112,620
Frisco ISD Texas, GO, School Building (AGC):		
5.38%, 8/15/39	1,415	1,566,957
5.50%, 8/15/41	3,365	3,755,138
Harris County Health Facilities Development Corp., Refunding RB, Memorial Hermann Healthcare System, Series B, 7.13%, 12/01/31	500	580,225
Lower Colorado River Authority, Refunding RB, LCRA Transmission Services Project (AGC), 5.50%, 5/15/36	1,270	1,379,614
Lubbock Cooper ISD Texas, GO, School Building (AGC), 5.75%, 2/15/42	500	550,555
North Texas Tollway Authority, RB, System, First Tier, Series K-1 (AGC), 5.75%, 1/01/38	1,500	1,665,300

Municipal Bonds	Par (000)	Value
Texas (concluded)		
North Texas Tollway Authority, Refunding RB, System First Tier Series A:		
(AGC), 5.75%, 1/01/40	\$ 1,500	\$ 1,646,340
(BHAC), 5.75%, 1/01/48	1,250	1,367,412
(NPFGC), 5.13%, 1/01/28	2,895	3,069,858
Tarrant County Cultural Education Facilities Finance Corp., Refunding RB, Christus Health, Series A (AGC), 6.50%, 7/01/37	1,000	1,123,590
		<u>26,093,092</u>

Utah 1.3%

City of Riverton Utah, RB, IHC Health Services Inc., 5.00%, 8/15/41	1,625	1,696,484
--	-------	-----------

Virginia 0.9%

Virginia Public School Authority, RB, School Financing, 6.50%, 12/01/35	1,000	1,183,390
--	-------	-----------

Total Municipal Bonds 110.9%		146,074,804
-------------------------------------	--	--------------------

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

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

Alabama 1.2%		
Mobile Board of Water & Sewer Commissioners, RB (NPFGC), 5.00%, 1/01/31	1,500	1,555,275
California 2.0%		
San Diego Community College District California, GO, Election of 2002 (AGM), 5.00%, 5/01/30	2,500	2,689,050
District of Columbia 0.7%		
District of Columbia Water & Sewer Authority, RB, Series A, 6.00%, 10/01/35	760	875,530
Florida 32.1%		
City of Jacksonville Florida, RB (NPFGC):		
5.00%, 10/01/31	9,500	9,596,525
Better Jacksonville, 5.00%, 10/01/27	3,930	4,076,314
County of Pinellas Florida, RB (AGM), 5.00%, 10/01/32	9,500	9,743,740
Florida State Board of Education, GO, Public Education, Series A (AGM), 5.00%, 6/01/27	9,000	9,574,650
Palm Beach County School District, COP, Refunding, Series D (AGM), 5.00%, 8/01/28	9,190	9,359,372
		42,350,601
Illinois 5.0%		
Chicago Transit Authority, Refunding RB, Federal Transit Administration Section 5309 (AGM), 5.00%, 6/01/28	2,999	3,231,513
Illinois State Toll Highway Authority, RB, Series B, 5.50%, 1/01/33	2,999	3,341,330
		6,572,843
Kentucky 0.8%		
Kentucky State Property & Building Commission, Refunding RB, Project No. 93 (AGC), 5.25%, 2/01/27	898	1,012,388
Nevada 1.7%		
Clark County Water Reclamation District, GO, Limited Tax, 6.00%, 7/01/38	2,000	2,288,280
Total Municipal Bonds Transferred to Tender Option Bond Trusts 43.5%		57,343,967
Total Long-Term Investments (Cost \$192,233,839) 154.4%		203,418,771

See Notes to Financial Statements.

Schedule of Investments (concluded)

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

Short-Term Securities	Shares	Value
FFI Institutional Tax-Exempt Fund, 0.22% (b)(c)	1,211,264	\$ 1,211,264
Total Short-Term Securities (Cost \$1,211,264) 0.9%		1,211,264
Total Investments (Cost \$193,445,103*) 155.3%		204,630,035
Other Assets Less Liabilities 1.2%		1,642,833
Liability for Trust Certificates, Including Interest Expense and Fees Payable (24.4)%		(32,224,905)
Preferred Shares, at Redemption Value (32.1)%		(42,275,531)
Net Assets Applicable to Common Shares 100.0%		\$ 131,772,432

* The cost and unrealized appreciation (depreciation) of investments as of August 31, 2010, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 161,510,112
Gross unrealized appreciation	\$ 12,308,678
Gross unrealized depreciation	(1,385,019)
Net unrealized appreciation	\$ 10,923,659

- (a) Securities represent bonds transferred to a tender option bond 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 tender option bond trusts.
- (b) Investments in companies considered to be an affiliate of the Trust during the year, 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, 2009	Net Activity	Shares Held at August 31, 2010	Income
BIF Florida Municipal Money Fund	5	(5)		

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

FFI Institutional Tax-Exempt Fund 9,202,751 (7,991,487) 1,211,264 \$ 9,940

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

Fair Value Measurements Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 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)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with 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 August 31, 2010 in determining the fair valuation of the Trust's investments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments in Securities:				
Long-Term Investments ¹		\$ 203,418,771		\$ 203,418,771
Short-Term Securities	\$ 1,211,264			1,211,264
Total	\$ 1,211,264	\$ 203,418,771		\$ 204,630,035

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

See Notes to Financial Statements.

Schedule of Investments August 31, 2010

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

Municipal Bonds	Par (000)	Value
Alabama 3.8%		
Birmingham Special Care Facilities Financing Authority, RB, Children's Hospital (AGC):		
6.00%, 6/01/34	\$ 1,150	\$ 1,289,449
6.00%, 6/01/39	450	503,730
Hoover City Board of Education, GO, Refunding, 4.25%, 2/15/40	4,350	4,249,820
		6,042,999
Arizona 5.8%		
City of Goodyear Arizona, GO (AGM), 4.25%, 7/01/37	1,135	1,136,442
Mohave County Unified School District No. 20 Kingman, GO, School Improvement Project of 2006, Series C (AGC), 5.00%, 7/01/26	200	223,422
Pima County IDA, Refunding IDRB, Tucson Electric Power, 5.75%, 9/01/29	900	930,744
Salt Verde Financial Corp., RB, Senior:		
5.00%, 12/01/32	1,500	1,447,185
5.00%, 12/01/37	2,065	1,961,791
San Luis Facility Development Corp., RB, Senior Lien, Regional Detention Center Project:		
6.25%, 5/01/15	300	292,248
7.00%, 5/01/20	300	292,782
7.25%, 5/01/27	600	569,418
Scottsdale IDA, RB, Scottsdale Healthcare, Series C (AGC), 5.00%, 9/01/35	1,000	1,018,920
State of Arizona, COP, Department of Administration, Series A (AGM), 5.00%, 10/01/29	750	785,085
University Medical Center Corp. Arizona, RB, 6.50%, 7/01/39	500	546,265
		9,204,302
Arkansas 0.2%		
Benton County Public Facilities Board, Refunding RB, BCCSO Project, Series A, 5.75%, 6/01/30	300	316,932
California 14.0%		
California County Tobacco Securitization Agency, RB, CAB, Stanislaus, Sub-Series C, 6.30%, 6/01/55 (a)	4,500	55,935
California HFA, RB, Home Mortgage, Series G, AMT, 5.05%, 2/01/29	2,835	2,704,080
Carlsbad Unified School District, GO, Election of 2006, Series B, 6.09%, 5/01/34 (b)	1,000	639,980
Dinuba Unified School District, GO, Election of 2006 (AGM):		
5.63%, 8/01/31	250	271,992
5.75%, 8/01/33	500	541,650
	1,650	894,531

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

Hartnell Community College District California, GO, CAB, Election of 2002, Series D, 7.47%, 8/01/34 (b)		
Norwalk-La Mirada Unified School District California, GO, Refunding, CAB, Election of 2002, Series E (AGC), 6.47%, 8/01/38 (a)	8,000	1,523,360
San Diego Community College District California, GO, CAB, Election of 2002, 6.24%, 8/01/33 (b)	2,800	1,813,644
State of California, GO, Refunding: (CIFG), 4.50%, 8/01/28	2,000	1,982,920
Veterans, AMT, 5.05%, 12/01/36	1,000	979,970
State of California, GO, Various Purpose: 5.75%, 4/01/31	2,000	2,210,760
6.00%, 3/01/33	2,050	2,336,610
6.50%, 4/01/33	1,950	2,285,673
5.50%, 3/01/40	2,350	2,522,537
Val Verde Unified School District California, Special Tax Bonds, Refunding, Junior Lien, 6.25%, 10/01/28	1,585	1,600,660
		<hr/>
		22,364,302

Municipal Bonds	Par (000)	Value
Colorado 0.8%		
Colorado Health Facilities Authority, RB, Catholic Health Initiatives, Series D, 6.25%, 10/01/33	\$ 1,070	\$ 1,215,295
Connecticut 0.8%		
Connecticut State Health & Educational Facility Authority, RB, Fairfield University, New Money, Series O, 5.00%, 7/01/35	1,200	1,259,832
District of Columbia 7.7%		
District of Columbia, Refunding RB, Friendship Public Charter School Inc. (ACA), 5.25%, 6/01/33	595	541,319
District of Columbia, Tax Allocation Bonds, Gallery Place Project (AGM), 5.40%, 7/01/31	6,000	6,139,680
District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.75%, 5/15/40	5,580	5,536,085
		<hr/>
		12,217,084
Florida 5.9%		
Miami Beach Health Facilities Authority, RB, Mount Sinai Medical Center of Florida, 6.75%, 11/15/21	1,255	1,315,930
Palm Beach County Housing Finance Authority, HRB, Indian Trace Apartments, Series A, AMT (AGM), 5.63%, 1/01/44	7,255	7,318,771
Stevens Plantation Community Development District, Special Assessment Bonds, Series A, 7.10%, 5/01/35	940	784,026
		<hr/>
		9,418,727
Georgia 1.1%		
Albany-Dougherty Inner City Authority, RB, Albany State University Projects (AGC), 4.75%, 7/01/40	1,125	1,143,506

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

Cobb County Development Authority, Refunding RB, KSU Sports and Recreation Park, Series A (AGC), 4.75%, 7/15/35	600	611,820
		<hr/>
		1,755,326

Idaho 1.6%

Idaho Health Facilities Authority, RB, St. Luke's Regional Medical Center (AGM), 5.00%, 7/01/35 (c)	500	515,245
Idaho Health Facilities Authority, Refunding RB, Trinity Health Group, Series B, 6.25%, 12/01/33	1,750	1,969,363
		<hr/>
		2,484,608

Illinois 7.7%

Illinois Finance Authority, RB:		
MJH Education Assistance IV LLC, Sub-Series B, 5.38%, 6/01/35 (d)(e)	425	114,767
Roosevelt University Project, 6.50%, 4/01/44	1,000	1,067,740
Rush University Medical Center, Series C, 6.63%, 11/01/39	650	720,122
Illinois Finance Authority, Refunding RB, Series A:		
Friendship Village Schaumburg, 5.63%, 2/15/37	210	174,485
Lake Forest Hospital, 5.75%, 7/01/29	4,000	4,125,880
OSF Healthcare System, 6.00%, 5/15/39	1,050	1,094,593
Village of Bolingbrook Illinois, GO, Refunding, Series B (NPFGC), 6.22%, 1/01/36 (a)	23,065	4,922,302
		<hr/>
		12,219,889

Indiana 1.8%

County of Monroe Indiana, Multifamily Housing Revenue Bond Pass-Through Certificates, RB, Series 1, Canterbury House Apartments, Mandatory Put Bonds, AMT, 5.90%, 12/01/34 (f)	1,850	1,878,971
Indiana Finance Authority, Refunding RB, Improvement, U.S. Steel Corp., 6.00%, 12/01/26	1,000	1,058,370
		<hr/>
		2,937,341

See Notes to Financial Statements.

ANNUAL REPORT

AUGUST 31, 2010

19

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
Iowa 1.3%		
Iowa Higher Education Loan Authority, Refunding RB, Private College Facility:		
5.75%, 9/01/30	\$ 1,000	\$ 1,027,550
6.00%, 9/01/39	1,000	1,035,190
		<u>2,062,740</u>
Kansas 3.3%		
Kansas Development Finance Authority, RB, University of Kansas Tenant, Series O, 4.75%, 6/15/41	700	719,712
Wichita Airport Authority, RB, Special, Cessna Citation Service Center, Series A, AMT, 6.25%, 6/15/32	5,000	4,489,950
		<u>5,209,662</u>
Kentucky 0.3%		
Kentucky Economic Development Finance Authority, RB, Louisville Arena, Sub-Series A-1 (AGC), 6.00%, 12/01/38	500	545,840
Louisiana 0.3%		
New Orleans Aviation Board, Refunding RB, Passenger Facility Charge, Series A, 5.13%, 1/01/36	400	406,648
Maryland 3.6%		
County of Frederick Maryland, Special Tax Bonds, Urbana Community Development Authority, Sub-Series B, 6.25%, 7/01/30	2,806	2,806,028
Maryland Health & Higher Educational Facilities Authority, Refunding RB, Doctor s Community Hospital, 5.63%, 7/01/30	2,900	2,929,203
		<u>5,735,231</u>
Michigan 4.3%		
Michigan State Building Authority, Refunding RB, Facilities Program, Series I, 6.25%, 10/15/38	1,250	1,410,975
Michigan State Hospital Finance Authority, Refunding RB:		
Henry Ford Health System, Series A, 5.25%, 11/15/46	1,065	1,032,390
Hospital, Henry Ford Health, 5.75%, 11/15/39	2,000	2,072,080
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	1,950	2,366,559

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

		6,882,004
Minnesota 4.3%		
City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series B (AGC), 6.50%, 11/15/38	5,350	6,156,138
Minnesota Higher Education Facilities Authority, RB, Gustavus Adolphus Child & Family Services, Inc., Series 7-B, 4.75%, 10/01/35	625	639,800
		6,795,938
Mississippi 2.9%		
Mississippi Development Bank Special Obligation, RB, Jackson County Limited Tax Note (AGC), 5.50%, 7/01/32	1,750	1,904,210
University of Southern Mississippi, RB, Campus Facilities Improvements Project, 5.38%, 9/01/36	2,500	2,747,750
		4,651,960
Montana 1.8%		
Montana Facility Finance Authority, Refunding RB, Sisters of Leavenworth, Series A, 4.75%, 1/01/40	2,750	2,857,030
Multi-State 7.3%		
Centerline Equity Issuer Trust, 7.20%, 11/15/52 (g)(h)	10,500	11,598,720
Nebraska 0.3%		
Douglas County Hospital Authority No. 2, RB, Health Facilities, Immanuel Obligation Group, 5.50%, 1/01/30	425	446,811
Municipal Bonds		
	Par (000)	Value
Nevada 1.1%		
City of Las Vegas Nevada, Special Assessment Bonds, Summerlin Area, 5.65%, 6/01/23	\$ 1,320	\$ 1,159,000
County of Clark Nevada, Refunding RB, Alexander Dawson School Nevada Project, 5.00%, 5/15/29	575	585,522
		1,744,522
New Jersey 13.7%		
Middlesex County Improvement Authority, RB, Subordinate, Heldrich Center Hotel, Series B, 6.25%, 1/01/37	915	137,159
New Jersey EDA, RB:		
Cigarette Tax, 5.50%, 6/15/24	3,710	3,694,418
Cigarette Tax (Radian), 5.50%, 6/15/31	1,500	1,475,070
Continental Airlines Inc. Project, AMT, 7.20%, 11/15/30 (f)	3,000	3,019,770
Motor Vehicle Surcharge, Series A (NPFGC), 5.00%, 7/01/27	1,000	1,034,080
New Jersey EDA, Refunding RB, First Mortgage, Winchester, Series A, 5.80%, 11/01/31	1,500	1,520,325

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

New Jersey EDA, Special Assessment Bonds, Refunding, Kapkowski Road Landfill Project, 6.50%, 4/01/28	7,500	8,415,000
New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B:		
7.13%, 12/01/23	630	761,298
7.50%, 12/01/32	800	939,632
New Jersey State Housing & Mortgage Finance Agency, RB, Series AA, 6.50%, 10/01/38	810	897,318
		<hr/>
		21,894,070
<hr/>		
New York 8.3%		
Albany Industrial Development Agency, RB, New Covenant Charter School Project, Series A, 7.00%, 5/01/35 (d)(e)	455	182,009
Long Island Power Authority, Refunding RB, Series A, 6.25%, 4/01/33	300	354,357
Metropolitan Transportation Authority, Refunding RB, Series A, 5.13%, 1/01/29	1,500	1,582,950
New York City Housing Development Corp., RB, Series A, AMT, 5.50%, 11/01/34	3,000	3,032,550
New York City Industrial Development Agency, RB: American Airlines Inc., JFK International Airport, AMT, 7.75%, 8/01/31 (f)	3,165	3,330,498
Queens Baseball Stadium, PILOT (AGC), 6.50%, 1/01/46	700	793,737
New York Liberty Development Corp., Refunding RB, Second Priority, Bank of America Tower at One Bryant Park Project, 6.38%, 7/15/49	800	857,328
New York State Dormitory Authority, RB: 5.83%, 7/01/39 (b)	700	609,483
Rochester Institute of Technology, Series A, 6.00%, 7/01/33	1,000	1,126,850
University of Rochester, Series A, 5.13%, 7/01/39	250	268,432
Port Authority of New York & New Jersey, Refunding RB, Consolidated, 152nd Series, AMT, 5.75%, 11/01/30	1,000	1,121,800
		<hr/>
		13,259,994
<hr/>		

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
North Carolina 6.2%		
City of Charlotte North Carolina, Refunding RB, Series A, 5.50%, 7/01/34	\$ 225	\$ 246,262
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	2,374,642
North Carolina Capital Facilities Finance Agency, RB, Duke Energy Carolinas, Series B, 4.38%, 10/01/31 (c)	3,475	3,508,777
North Carolina Medical Care Commission, RB, WakeMed, Series A (AGC), 5.88%, 10/01/38	1,000	1,057,600
North Carolina Medical Care Commission, Refunding RB: Caromont Health (AGC), 4.50%, 2/15/30	750	755,040
Caromont Health (AGC), 4.63%, 2/15/35	1,000	1,004,620
University Health System, Series D, 6.25%, 12/01/33	800	888,024
		<u>9,834,965</u>
Ohio 0.5%		
County of Lucas Ohio, GO, Various Purpose, 5.00%, 10/01/40	400	423,416
Ohio Higher Educational Facility Commission, Refunding RB, Summa Health System, 2010 Project (AGC), 5.25%, 11/15/40	400	413,900
		<u>837,316</u>
Oklahoma 1.1%		
Tulsa Airports Improvement Trust, RB, Series A, Mandatory Put Bonds, AMT, 7.75%, 6/01/35 (f)	1,725	1,768,401
Oregon 2.2%		
City of Portland Oregon, Multifamily Housing Revenue Bond Pass-Through Certificates, RB, Series 6, Pacific Tower Apartments, AMT, 6.05%, 11/01/34	520	527,254
Oregon Health & Science University, RB, Series A, 5.75%, 7/01/39	1,250	1,339,237
Oregon State Facilities Authority, Refunding RB, Limited College Project, Series A: 5.00%, 10/01/34	850	860,039
5.25%, 10/01/40	750	768,855
		<u>3,495,385</u>
Pennsylvania 2.7%		

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

Delaware River Port Authority, RB, Series D (AGC), 5.00%, 1/01/40	2,600	2,734,472
Pennsylvania Economic Development Financing Authority, RB, Reliant Energy, Series A, AMT, 6.75%, 12/01/36	1,455	1,508,559
		<hr/>
		4,243,031

Puerto Rico 1.9%

Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A, 5.75%, 8/01/37	2,000	2,137,920
Puerto Rico Sales Tax Financing Corp., Refunding RB, CAB, Series A (NPFGC), 5.76%, 8/01/41 (a)	5,000	837,150
		<hr/>
		2,975,070

Rhode Island 2.5%

Rhode Island Health & Educational Building Corp., RB, Hospital Financing, LifeSpan Obligation, Series A (AGC), 7.00%, 5/15/39	1,000	1,185,160
Rhode Island Housing & Mortgage Finance Corp., RB, Homeownership Opportunity, Series 54, AMT, 4.85%, 10/01/41	1,500	1,476,735
Rhode Island Turnpike & Bridge Authority, RB, Series A, 5.00%, 12/01/35	400	417,924
State of Rhode Island, COP, Series C, School for the Deaf (AGC), 5.38%, 4/01/28	900	989,811
		<hr/>
		4,069,630

Municipal Bonds	Par (000)	Value
South Carolina 1.5%		
County of Florence South Carolina, RB, McLeod Regional Medical Center, Series A, 5.00%, 11/01/37	\$ 2,300	\$ 2,343,930
Tennessee 0.3%		
Memphis-Shelby County Sports Authority Inc., Refunding RB, Memphis Arena Project, Series A, 5.38%, 11/01/28	525	571,919
Texas 15.0%		
Harris County Health Facilities Development Corp., Refunding RB, Memorial Hermann Healthcare System, Series B:		
7.13%, 12/01/31	500	580,225
7.25%, 12/01/35	1,750	2,027,445
Harris County Housing Finance Corp., Multifamily Housing Revenue Bond Pass-Through Certificates, RB, Series 9, Copperwood Ranch Apartments, Mandatory Put Bonds, AMT, 5.95%, 11/01/35 (f)	2,440	2,490,874
Harris County-Houston Sports Authority, Refunding RB, CAB, Senior Lien, Series G (NPFGC), 6.17%, 11/15/41 (a)	11,690	1,424,660
Lower Colorado River Authority, Refunding RB (NPFGC), 5.00%, 5/15/13 (i)	15	16,769

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

Matagorda County Navigation District No. 1 Texas, Refunding RB, Central Power & Light Co. Project, Series A, 6.30%, 11/01/29	1,500	1,667,400
San Antonio Energy Acquisition Public Facility Corp., RB, Gas Supply, 5.50%, 8/01/24	1,620	1,742,618
Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien, LBJ Infrastructure, 7.00%, 6/30/40	2,000	2,177,740
Texas State Turnpike Authority, RB (AMBAC): CAB, 6.08%, 8/15/35 (a)	50,000	10,816,000
First Tier, Series A, 5.00%, 8/15/42	1,000	989,580
		<hr/>
		23,933,311

Washington 1.0%

Washington Health Care Facilities Authority, RB, MultiCare Health System, Series B (AGC), 6.00%, 8/15/39	1,400	1,541,862
--	-------	-----------

Wisconsin 1.7%

Wisconsin Health & Educational Facilities Authority, RB, Aurora Health Care, 6.40%, 4/15/33	1,350	1,389,474
Wisconsin Housing & EDA, Refunding RB, Series A, AMT, 4.75%, 9/01/33	1,340	1,340,697
		<hr/>
		2,730,171

Wyoming 0.8%

County of Sweetwater Wyoming, Refunding RB, Idaho Power Co. Project, 5.25%, 7/15/26	1,200	1,306,476
--	-------	-----------

Total Municipal Bonds 141.4%		225,179,274
-------------------------------------	--	-------------

Municipal Bonds Transferred to Tender Option Bond Trusts (j)

Colorado 2.5%

Colorado Health Facilities Authority, RB, Catholic Health, Series C-7 (AGM), 5.00%, 9/01/36	3,750	3,884,963
--	-------	-----------

Massachusetts 1.0%

Massachusetts Water Resources Authority, Refunding RB, General, Series A, 5.00%, 8/01/41	1,450	1,529,591
---	-------	-----------

New York 4.1%

New York City Municipal Water Finance Authority, RB: Fiscal 2009, Series A, 5.75%, 6/15/40	450	518,035
Series FF-2, 5.50%, 6/15/40	405	460,765
New York City Municipal Water Finance Authority, Refunding RB, Series A, 4.75%, 6/15/30	3,000	3,178,170

See Notes to Financial Statements.

Schedule of Investments (concluded)

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

Municipal Bonds Transferred to Tender Option Bond Trusts (j)	Par (000)	Value
New York (concluded)		
New York State Dormitory Authority, RB, New York University, Series A, 5.00%, 7/01/38	\$ 2,199	\$ 2,339,865
		<u>6,496,835</u>
Ohio 2.1%		
County of Montgomery Ohio, RB, Catholic Health, Series C-1 (AGM), 5.00%, 10/01/41	1,260	1,297,888
Ohio Higher Educational Facility Commission, Refunding RB, Hospital, Cleveland Clinic Health, Series A, 5.25%, 1/01/33	2,000	2,119,600
		<u>3,417,488</u>
Total Municipal Bonds Transferred to Tender Option Bond Trusts 9.7%		15,328,877
Total Long-Term Investments (Cost \$229,478,065) 151.1%		240,508,151

Short-Term Securities	Shares	
FFI Institutional Tax-Exempt Fund, 0.22% (k)(l)	4,831,353	4,831,353
Total Short-Term Securities (Cost \$4,831,353) 3.0%		4,831,353
Total Investments (Cost \$234,309,418*) 154.1%		245,339,504
Other Assets Less Liabilities 0.7%		1,186,968
Liability for Trust Certificates, Including Interest Expense and Fees Payable (4.6)%		(7,404,377)
Preferred Shares, at Redemption Value (50.2)%		(79,906,002)
Net Assets Applicable to Common Shares 100.0%		<u>\$ 159,216,093</u>

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

- * The cost and unrealized appreciation (depreciation) of investments as of August 31, 2010, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$	226,120,518
Gross unrealized appreciation	\$	15,057,911
Gross unrealized depreciation		(3,238,073)
Net unrealized appreciation	\$	11,819,838

- (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 reflects the current yield as of report date.
- (c) When-issued security. Unsettled when-issued transactions were as follows:

Counterparty	Value	Unrealized Appreciation
Citigroup Global Markets	\$ 515,245	\$ 10,455
Wells Fargo Bank	\$ 3,508,777	\$ 33,777

- (d) Issuer filed for bankruptcy and/or is in default of interest payments.
- (e) Non-income producing security.
- (f) Variable rate security. Rate shown is as of report date.
- (g) Security exempt from registration under Rule 144A of the Securities Act of 1933. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (h) 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.
- (i) 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.
- (j) Securities represent bonds transferred to a tender option bond 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 tender option bond trusts.
- (k) Investments in companies considered to be an affiliate of the Trust during the year, 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, 2009	Net Activity	Shares Held at August 31, 2010	Income
-----------	--------------------------------------	-----------------	--------------------------------------	--------

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

FFI Institutional Tax-Exempt Fund	3,400,718	1,430,635	4,831,353	\$	5,177
-----------------------------------	-----------	-----------	-----------	----	-------

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

Fair Value Measurements Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 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)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with 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 August 31, 2010 in determining the fair valuation of the Trust's investments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments in Securities:				
Long-Term Investments ¹		\$ 240,508,151	\$	240,508,151
Short-Term Securities	\$ 4,831,353			4,831,353
Total	\$ 4,831,353	\$ 240,508,151	\$	245,339,504

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

See Notes to Financial Statements.

Schedule of Investments August 31, 2010

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

Municipal Bonds	Par (000)	Value
Arizona 2.3%		
Maricopa County Pollution Control Corp., Refunding RB, Southern California Edison Co., Series A, 5.00%, 6/01/35	\$ 375	\$ 387,547
Phoenix Civic Improvement Corp., RB, Junior Lien, Series A, 5.00%, 7/01/40 (a)	465	477,699
Pima County IDA, Refunding IDRB, Tucson Electric Power, 5.75%, 9/01/29	330	341,273
		<u>1,206,519</u>
California 18.1%		
Bay Area Toll Authority, Refunding RB, San Francisco Bay Area, Series F-1, 5.63%, 4/01/44	720	809,834
California Health Facilities Financing Authority, Refunding RB, Series A:		
Catholic Healthcare West, 6.00%, 7/01/39	120	132,073
St. Joseph Health System, 5.75%, 7/01/39	730	782,115
California State Public Works Board, RB:		
Department of General Services, Buildings 8 & 9, Series A, 6.25%, 4/01/34	1,100	1,198,153
Various Capital Projects, Sub-Series I-1, 6.38%, 11/01/34	340	376,254
Grossmont Union High School District, GO, Election of 2008, Series B, 4.75%, 8/01/45	1,190	1,177,136
Los Angeles Department of Airports, Refunding RB, Senior, Los Angeles International Airport, Series A, 5.00%, 5/15/35	1,460	1,532,037
Los Angeles Department of Water & Power, RB, Power System, Sub-Series A-1, 5.25%, 7/01/38	1,500	1,634,415
San Diego Regional Building Authority California, RB, County Operations Center & Annex, Series A, 5.38%, 2/01/36	850	925,191
State of California, GO, Various Purpose, 6.00%, 3/01/33	685	780,770
		<u>9,347,978</u>
Colorado 3.5%		
City & County of Denver Colorado, Refunding RB, Series A, 5.25%, 11/15/36	1,095	1,168,168
Colorado Health Facilities Authority, Refunding RB, Catholic Healthcare, Series A, 5.50%, 7/01/34	580	632,896
		<u>1,801,064</u>

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

District of Columbia 1.4%

District of Columbia Water & Sewer Authority, RB, Series A, 5.25%, 10/01/29	640	709,210
--	-----	---------

Florida 1.2%

County of St. John s Florida, RB, CAB (AMBAC), 5.40%, 6/01/32 (b)	765	238,412
New River Community Development District, Special Assessment Bonds, Series B, 5.00%, 5/01/13 (c)(d)	750	358,875
		597,287

Georgia 5.0%

Metropolitan Atlanta Rapid Transit Authority, RB, Third Series, 5.00%, 7/01/39	1,300	1,403,909
Municipal Electric Authority of Georgia, Refunding RB, Project One, Sub-Series D, 6.00%, 1/01/23	1,000	1,184,230
		2,588,139

Municipal Bonds	Par (000)	Value
-----------------	--------------	-------

Illinois 6.6%

County of Cook Illinois, GO, Refunding, Series A, 5.25%, 11/15/33	\$ 900	\$ 974,610
Illinois Finance Authority, Refunding RB, Series A: Northwestern Memorial Hospital, 6.00%, 8/15/39	1,000	1,118,140
OSF Healthcare System, 6.00%, 5/15/39	525	547,297
State of Illinois, RB, Build Illinois, Series B, 5.25%, 6/15/34	730	772,048
		3,412,095

Indiana 2.5%

Indiana Municipal Power Agency, RB, Series B, 6.00%, 1/01/39	1,190	1,320,674
---	-------	-----------

Kansas 1.9%

Kansas Development Finance Authority, Refunding RB, Adventist Health, 5.50%, 11/15/29	900	995,022
--	-----	---------

Kentucky 4.1%

Kentucky Economic Development Finance Authority, Refunding RB, Owensboro Medical Health System, Series A, 6.38%, 6/01/40	350	374,199
Louisville & Jefferson County Metropolitan Government Parking Authority, RB, Series A, 5.75%, 12/01/34	800	902,680
Louisville & Jefferson County Metropolitan Government, Refunding RB, Jewish Hospital & St. Mary s HealthCare, 6.13%, 2/01/37	775	831,412
		2,108,291

Massachusetts 3.5%

Massachusetts Health & Educational Facilities Authority, Refunding RB, Partners Healthcare System, Series B, 5.25%, 7/01/29	1,500	1,508,730
---	-------	-----------

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

Massachusetts State College Building Authority, RB, Series A, 5.50%, 5/01/39	250	277,415
		<hr/> 1,786,145
Michigan 2.3%		
Michigan State Building Authority, Refunding RB, Facilities Program, Series I, 6.00%, 10/15/38	500	555,915
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	530	643,219
		<hr/> 1,199,134
Multi-State 6.4%		
Centerline Equity Issuer Trust, 7.20%, 11/15/52 (e)(f)	3,000	3,313,920
Nebraska 0.3%		
Lancaster County Hospital Authority No. 1, RB, Immanuel Obligation Group, 5.63%, 1/01/40	170	176,421
Nevada 9.5%		
City of Las Vegas Nevada, GO, Limited Tax, Performing Arts Center, 6.00%, 4/01/34	1,000	1,131,630
County of Clark Nevada, GO, Refunding, Transportation, Series A, 5.00%, 12/01/29	730	785,932
County of Clark Nevada, RB: Motor Vehicle Fuel Tax, 5.00%, 7/01/28	1,130	1,216,818
Series B, 5.75%, 7/01/42	1,630	1,772,120
		<hr/> 4,906,500

See Notes to Financial Statements.

ANNUAL REPORT

AUGUST 31, 2010

23

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
New Jersey 5.7%		
New Jersey EDA, Refunding RB, School Facilities Construction, Series AA, 5.50%, 12/15/29	\$ 750	\$ 850,462
New Jersey State Housing & Mortgage Finance Agency, RB, S/F Housing, Series CC, 5.25%, 10/01/29	620	654,590
New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series A, 5.88%, 12/15/38	695	782,987
Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.50%, 6/01/23	715	671,957
		<hr/> 2,959,996
New York 6.5%		
City of Troy New York, Refunding RB, Rensselaer Polytechnic, Series A, 5.13%, 9/01/40	955	989,399
New York City Transitional Finance Authority, RB, Fiscal 2009, Series S-3, 5.25%, 1/15/39	1,000	1,089,630
New York Liberty Development Corp., Refunding RB, Second Priority, Bank of America Tower at One Bryant Park Project, 6.38%, 7/15/49	325	348,290
Triborough Bridge & Tunnel Authority, RB, General, Series A-2, 5.38%, 11/15/38	840	932,467
		<hr/> 3,359,786
North Carolina 2.3%		
North Carolina Capital Facilities Finance Agency, RB, Duke Energy Carolinas, Series B, 4.38%, 10/01/31 (a)	1,200	1,211,664
Pennsylvania 2.7%		
Pennsylvania Economic Development Financing Authority, RB, American Water Co. Project, 6.20%, 4/01/39	300	331,917
Pennsylvania Turnpike Commission, RB: Sub-Series B, 5.25%, 6/01/39	425	448,757
Sub-Series C (AGC), 6.25%, 6/01/38	500	595,750
		<hr/> 1,376,424
Texas 10.3%		
City of Houston Texas, RB, Senior Lien, Series A, 5.50%, 7/01/39	315	344,493
Conroe ISD Texas, GO, School Building, Series A, 5.75%, 2/15/35	470	521,601
Harris County Health Facilities Development Corp., Refunding RB, Memorial Hermann Healthcare System,	250	290,113

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

Series B, 7.13%, 12/01/31

Lower Colorado River Authority, RB, 5.75%, 5/15/28	450	488,061
North Texas Tollway Authority, RB, System, First Tier, Series K-1 (AGC), 5.75%, 1/01/38	500	555,100
Tarrant County Cultural Education Facilities Finance Corp., RB:		
Ascension Health Senior Credit Group, 5.00%, 11/15/29	875	919,748
Scott & White Healthcare, 6.00%, 8/15/45	1,020	1,100,029
Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien, Note Mobility, 6.88%, 12/31/39	1,000	1,093,880
		<u>5,313,025</u>

Utah 1.3%

City of Riverton Utah, RB, IHC Health Services Inc., 5.00%, 8/15/41	640	668,154
---	-----	---------

Virginia 1.7%

Virginia Public School Authority, RB, School Financing, 6.50%, 12/01/35	750	887,542
---	-----	---------

West Virginia 1.1%

West Virginia EDA, Refunding RB, Appalachian Power Co., Amos Project, Series A, 5.38%, 12/01/38 (g)	580	592,099
---	-----	---------

Municipal Bonds	Par (000)	Value
Wyoming 1.4%		
County of Sweetwater Wyoming, Refunding RB, Idaho Power Co. Project, 5.25%, 7/15/26	\$ 655	\$ 713,118
Total Municipal Bonds 101.6%		<u>52,550,207</u>

Municipal Bonds Transferred to Tender Option Bond Trusts (h)

California 19.3%

California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%, 10/01/39	1,005	1,102,636
Grossmont Union High School District, GO, Election of 2008, Series B, 5.00%, 8/01/40	1,300	1,346,228
Los Angeles Community College District California, GO, Election of 2008:		
Series A, 6.00%, 8/01/33	2,079	2,406,989
Series C, 5.25%, 8/01/39	1,410	1,532,599
Los Angeles Unified School District California, GO, Series I, 5.00%, 1/01/34	200	209,888
San Diego Public Facilities Financing Authority, Refunding RB, Series B, 5.50%, 8/01/39	2,234	2,465,832
University of California, RB, Series O, 5.75%, 5/15/34	810	937,802
		<u>10,001,974</u>

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

District of Columbia 3.6%		
District of Columbia, RB, Series A, 5.50%, 12/01/30	735	860,398
District of Columbia Water & Sewer Authority, RB, Series A, 5.50%, 10/01/39	899	991,788
		<hr/> 1,852,186
Florida 6.9%		
Jacksonville Economic Development Commission, RB, Mayo Clinic Jacksonville, Series B, 5.50%, 11/15/36	3,510	3,594,977
Illinois 7.7%		
Illinois Finance Authority, RB, University of Chicago, Series B, 6.25%, 7/01/38	1,500	1,780,395
Illinois State Toll Highway Authority, RB, Series B, 5.50%, 1/01/33	1,999	2,227,553
		<hr/> 4,007,948
Nevada 3.3%		
Clark County Water Reclamation District, GO, Limited Tax, 6.00%, 7/01/38	1,500	1,716,210
New Hampshire 1.3%		
New Hampshire Health & Education Facilities Authority, Refunding RB, Dartmouth College, 5.25%, 6/01/39	585	651,924
New Jersey 2.1%		
New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series A (AGM), 5.00%, 12/15/32	1,000	1,065,230
New York 6.0%		
New York City Municipal Water Finance Authority, RB: Fiscal 2009, Series A, 5.75%, 6/15/40	750	863,391
Series FF-2, 5.50%, 6/15/40	990	1,126,316
New York State Dormitory Authority, ERB, Series B, 5.25%, 3/15/38	1,000	1,104,870
		<hr/> 3,094,577
Ohio 1.7%		
County of Allen Ohio, Refunding RB, Catholic Healthcare, Series A, 5.25%, 6/01/38	840	882,454
South Carolina 2.2%		
South Carolina State Public Service Authority, RB, Santee Cooper, Series A, 5.50%, 1/01/38	1,005	1,122,203

See Notes to Financial Statements.

Schedule of Investments (concluded)

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

Municipal Bonds Transferred to Tender Option Bond Trusts (h)	Par (000)	Value
Texas 5.3%		
City of San Antonio Texas, Refunding RB, Series A, 5.25%, 2/01/31	\$ 1,050	\$ 1,176,181
Harris County Cultural Education Facilities Finance Corp., RB, Hospital, Texas Children's Hospital Project, 5.50%, 10/01/39	1,450	1,545,947
		<u>2,722,128</u>
Virginia 1.0%		
Fairfax County IDA Virginia, Refunding RB, Health Care, Inova Health System, Series A, 5.50%, 5/15/35	460	502,872
Wisconsin 1.8%		
Wisconsin Health & Educational Facilities Authority, Refunding RB, Froedtert & Community Health Inc., 5.25%, 4/01/39	890	933,618
Total Municipal Bonds Transferred to Tender Option Bond Trusts 62.2%		<u>32,148,301</u>
Total Long-Term Investments (Cost \$78,906,667) 163.8%		<u>84,698,508</u>
Short-Term Securities	Shares	
FFI Institutional Tax-Exempt Fund, 0.22% (i)(j)	1,698,254	1,698,254
Total Short-Term Securities (Cost \$1,698,254) 3.3%		<u>1,698,254</u>
Total Investments (Cost \$80,604,921*) 167.1%		<u>86,396,762</u>
Liabilities in Excess of Other Assets (1.1)%		<u>(553,426)</u>
Liability for Trust Certificates, Including Interest Expense and Fees Payable (31.5)%		<u>(16,284,433)</u>
Preferred Shares, at Redemption Value (34.5)%		<u>(17,851,341)</u>
Net Assets Applicable to Common Shares 100.0%	\$	<u><u>51,707,562</u></u>

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

* The cost and unrealized appreciation (depreciation) of investments as of August 31, 2010, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$	64,524,891
Gross unrealized appreciation	\$	6,193,653
Gross unrealized depreciation		(597,614)
Net unrealized appreciation	\$	5,596,039

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

Counterparty	Value	Unrealized Appreciation
Barclays Capital	\$ 477,699	\$ 12,699
Wells Fargo Bank	\$ 1,211,664	\$ 11,664

- (b) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (c) Issuer filed for bankruptcy and/or is in default of interest payments.
- (d) Non-income producing security.
- (e) Security exempt from registration under Rule 144A of the Securities Act of 1933. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (f) 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.
- (g) Variable rate security. Rate shown is as of report date.
- (h) Securities represent bonds transferred to a tender option bond 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 tender option bond trusts.
- (i) Investments in companies considered to be an affiliate of the Trust during the year, 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, 2009	Net Activity	Shares Held at August 31, 2010	Income
CMA Florida Municipal Money Fund	2	(2)		
FFI Institutional Tax-Exempt Fund		1,698,254	1,698,254	\$ 3,755

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

Fair Value Measurements Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 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)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with 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 August 31, 2010 in determining the fair valuation of the Trust's investments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments in Securities:				
Long-Term Investments ¹		\$ 84,698,508		\$ 84,698,508
Short-Term Securities	\$ 1,698,254			1,698,254
Total	\$ 1,698,254	\$ 84,698,508		\$ 86,396,762

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

See Notes to Financial Statements.

ANNUAL REPORT	AUGUST 31, 2010	25
---------------	-----------------	----

Schedule of Investments August 31, 2010

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

Municipal Bonds	Par (000)	Value
Arizona 4.6%		
Maricopa County Pollution Control Corp., Refunding RB, Southern California Edison Co., Series A, 5.00%, 6/01/35	\$ 1,870	\$ 1,932,570
Pima County IDA, RB, American Charter Schools Foundation, Series A, 5.63%, 7/01/38	1,000	978,990
Pima County IDA, Refunding IDRB, Tucson Electric Power, 5.75%, 9/01/29	1,210	1,251,333
Salt River Project Agricultural Improvement & Power District, RB, Series A, 5.00%, 1/01/38	2,135	2,301,786
Salt Verde Financial Corp., RB, Senior: 5.00%, 12/01/32	5,635	5,436,592
5.00%, 12/01/37	3,990	3,790,580
		<u>15,691,851</u>
California 20.3%		
Bay Area Toll Authority, Refunding RB, San Francisco Bay Area, Series F-1, 5.63%, 4/01/44	2,480	2,789,430
California County Tobacco Securitization Agency, RB, CAB, Stanislaus, Sub-Series C, 6.30%, 6/01/55 (a)	9,710	120,695
California HFA, RB, AMT, Home Mortgage: Series G, 5.50%, 8/01/42	8,105	8,017,709
Series K, 5.50%, 2/01/42	2,860	2,929,012
California State Public Works Board, RB, Various Capital Projects, Sub-Series I-1, 6.38%, 11/01/34	1,280	1,416,486
California Statewide Communities Development Authority, RB, Health Facility, Memorial Health Services, Series A, 5.50%, 10/01/33	5,000	5,151,550
Los Angeles Department of Airports, RB, Series A, 5.25%, 5/15/39	860	918,110
Los Angeles Department of Airports, Refunding RB, Senior, Los Angeles International Airport, Series A, 5.00%, 5/15/40	6,500	6,794,515
Los Angeles Unified School District California, GO: Series D, 5.00%, 7/01/27	2,375	2,598,226
Series I, 5.00%, 7/01/26	1,250	1,378,363
Series I, 5.00%, 7/01/27	1,750	1,914,482
San Francisco City & County Public Utilities Commission, RB, Series B, 5.00%, 11/01/39	10,340	11,126,460
San Francisco City & County Redevelopment Agency, Special Tax Bonds, District No. 6, Mission Bay South Public Improvements, 6.63%, 8/01/27	3,120	3,167,549
State of California, GO, Various Purpose: 6.00%, 3/01/33	2,760	3,145,876
6.50%, 4/01/33	10,670	12,506,734
University of California, RB, Limited Project, Series B, 4.75%, 5/15/38	5,095	5,170,712

69,145,909

Colorado 2.3%

City of Colorado Springs Colorado, RB, Subordinate Lien, Improvement, Series C (AGM), 5.00%, 11/15/45	1,375	1,438,305
Colorado Health Facilities Authority, Refunding RB, Series A:		
Catholic Healthcare, 5.50%, 7/01/34	2,330	2,542,496
Sisters of Leavenworth, 5.00%, 1/01/40	2,400	2,468,352
Park Creek Metropolitan District Colorado, Refunding RB, Senior, Limited Tax, Property Tax, 5.50%, 12/01/37	1,375	1,382,219
		7,831,372

Connecticut 0.5%

Connecticut State Health & Educational Facility Authority, RB, Ascension Health Senior Credit, 5.00%, 11/15/40	1,505	1,583,124
--	-------	-----------

Municipal Bonds
**Par
(000)**
Value
District of Columbia 6.3%

District of Columbia, Refunding RB, Friendship Public Charter School Inc. (ACA), 5.25%, 6/01/33	\$ 1,265	\$ 1,150,872
District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed: 6.50%, 5/15/33	7,500	7,215,525
6.75%, 5/15/40	11,500	11,409,495
Metropolitan Washington Airports Authority, RB, First Senior Lien, Series A:		
5.00%, 10/01/39	550	579,524
5.25%, 10/01/44	865	924,209
		21,279,625

Florida 5.9%

City of Leesburg Florida, RB, Leesburg Regional Medical Center Project, 5.50%, 7/01/32	1,470	1,471,147
County of Miami-Dade Florida, RB, Miami International Airport, Series A, AMT (AGC), 5.25%, 10/01/38	2,855	2,930,486
County of Miami-Dade Florida, Refunding RB, Miami International Airport, Series A-1, 5.38%, 10/01/41	1,255	1,312,090
County of Orange Florida, Refunding RB (Syncora), 4.75%, 10/01/32	905	917,851
Live Oak Community Development District No. 1, Special Assessment Bonds, Series A, 6.30%, 5/01/34	3,115	3,203,715
Miami Beach Health Facilities Authority, RB, Mount Sinai Medical Center of Florida, 6.75%, 11/15/21	4,145	4,346,240
Stevens Plantation Community Development District, Special Assessment Bonds, Series A, 7.10%, 5/01/35	1,960	1,634,777
Sumter County IDA Florida, RB, North Sumter Utility Co., LLC Project, AMT, 6.90%, 10/01/34	4,270	4,271,025

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

		20,087,331
Georgia 0.3%		
De Kalb Private Hospital Authority, Refunding RB, Children's Healthcare, 5.25%, 11/15/39	915	966,899
Guam 0.8%		
Territory of Guam, GO, Series A:		
6.00%, 11/15/19	695	727,693
6.75%, 11/15/29	995	1,092,082
7.00%, 11/15/39	680	758,397
		<hr/>
		2,578,172
Illinois 6.1%		
Illinois Finance Authority, RB, MJH Education Assistance IV LLC, Sub-Series B, 5.38%, 6/01/35 (b)(c)	900	243,036
Illinois Finance Authority, Refunding RB: Central DuPage Health, Series B, 5.50%, 11/01/39	1,750	1,863,908
Friendship Village Schaumburg, Series A, 5.63%, 2/15/37	455	378,050
OSF Healthcare System, Series A, 6.00%, 5/15/39	1,430	1,490,732
Illinois Sports Facilities Authority, RB, State Tax Supported (AMBAC), 5.50%, 6/15/30	15,000	16,013,700
State of Illinois, RB, Build Illinois, Series B, 5.25%, 6/15/34	685	724,456
		<hr/>
		20,713,882

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
Indiana 2.4%		
Indiana Finance Authority, RB, Sisters of St. Francis Health, 5.25%, 11/01/39	\$ 915	\$ 955,534
Indiana Health Facility Financing Authority, Refunding RB:		
Ascension Health, Series F, 5.38%, 11/15/25	2,095	2,185,148
Methodist Hospital Inc., 5.38%, 9/15/22	3,675	3,590,622
Indiana Municipal Power Agency, RB, Series B, 6.00%, 1/01/39	1,200	1,331,772
		<u>8,063,076</u>
Kansas 0.5%		
Kansas Development Finance Authority, Refunding RB, Sisters of Leavenworth, Series A, 5.00%, 1/01/40	1,820	1,878,804
Kentucky 0.3%		
Kentucky Economic Development Finance Authority, Refunding RB, Owensboro Medical Health System, Series A, 6.38%, 6/01/40	1,105	1,181,400
Maryland 0.4%		
Maryland EDC, RB, Transportation Facilities Project, Series A, 5.75%, 6/01/35	475	497,330
Maryland Health & Higher Educational Facilities Authority, RB, Union Hospital of Cecil County Issue, 5.63%, 7/01/32	1,000	1,016,350
		<u>1,513,680</u>
Massachusetts 0.6%		
Massachusetts Health & Educational Facilities Authority, Refunding RB, Partners Healthcare, Series J1, 5.00%, 7/01/39	1,955	2,018,283
Michigan 0.7%		
Michigan State Hospital Finance Authority, Refunding RB, Henry Ford Health System, Series A, 5.25%, 11/15/46	2,305	2,234,421
Missouri 1.7%		
370/Missouri Bottom Road/Taussig Road Transportation Development District, RB, 7.20%, 5/01/33	6,000	5,964,660
Multi-State 3.9%		
Centerline Equity Issuer Trust (d)(e):		

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

5.75%, 5/15/15	1,000	1,060,780
6.00%, 5/15/15	5,000	5,285,900
6.00%, 5/15/19	3,500	3,773,035
6.30%, 5/15/19	3,000	3,246,450
		<hr/>
		13,366,165

Nebraska 0.9%

Lancaster County Hospital Authority No. 1, RB, Immanuel Obligation Group, 5.63%, 1/01/40	1,245	1,292,024
Sarpy County Hospital Authority No. 1, RB, Immanuel Obligation Group, 5.63%, 1/01/40	1,635	1,685,734
		<hr/>
		2,977,758

Nevada 0.7%

County of Clark Nevada, Refunding RB, Alexander Dawson School Nevada Project, 5.00%, 5/15/29	2,465	2,510,109
---	-------	-----------

New Jersey 11.1%

New Jersey EDA, RB: Cigarette Tax, 5.75%, 6/15/34	3,810	3,751,402
Cigarette Tax (Radian), 5.50%, 6/15/31	4,825	4,744,809
Continental Airlines Inc. Project, AMT, 7.20%, 11/15/30 (f)	10,100	10,166,559
Kapkowski Road Landfill Project, Series 1998B, AMT, 6.50%, 4/01/31	10,000	10,752,600
New Jersey EDA, Special Assessment Bonds, Refunding, Kapkowski Road Landfill Project, 6.50%, 4/01/28	7,475	8,386,950
		<hr/>
		37,802,320

Municipal Bonds	Par (000)	Value
New Mexico 1.8%		
New Mexico Income Housing Authority, RB, Villa Del Oso Apartments Project, Series A, 6.00%, 1/01/13 (g)	\$ 5,200	\$ 5,968,040
New York 3.2%		
Albany Industrial Development Agency, RB, New Covenant Charter School Project, Series A, 7.00%, 5/01/35 (b)(c)	985	394,020
New York City Industrial Development Agency, RB, American Airlines Inc., JFK International Airport, AMT, 7.75%, 8/01/31 (f)	6,700	7,050,343
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	1,430,666
Port Authority of New York & New Jersey, RB, Continental Airlines Inc. and Eastern Air Lines Inc. Project, LaGuardia, AMT, 9.00%, 12/01/10	2,075	2,078,776
		<hr/>
		10,953,805

North Carolina 3.5%

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

Gaston County Industrial Facilities & Pollution Control Financing Authority North Carolina, RB, Exempt Facilities, National Gypsum Co. Project, AMT, 5.75%, 8/01/35	7,500	6,047,475
North Carolina Capital Facilities Finance Agency, RB, Duke Energy Carolinas, Series B, 4.38%, 10/01/31 (h)	1,760	1,777,107
North Carolina Capital Facilities Finance Agency, Refunding RB, Duke Energy Carolinas, Series B, 4.63%, 11/01/40 (h)	1,760	1,765,562
North Carolina Medical Care Commission, RB, Duke University Health System, Series A: 5.00%, 6/01/39	685	718,599
5.00%, 6/01/42	1,525	1,594,143
		<hr/>
		11,902,886

Ohio 2.3%

Buckeye Tobacco Settlement Financing Authority, RB, Asset-Backed, Senior Series A-2, 6.50%, 6/01/47	1,190	949,191
County of Allen Ohio, Refunding RB, Catholic Healthcare, Series A, 5.25%, 6/01/38	3,405	3,577,089
County of Montgomery Ohio, Refunding RB, Catholic Healthcare, Series A, 5.00%, 5/01/39	3,025	3,194,612
		<hr/>
		7,720,892

Oklahoma 1.2%

Tulsa Airports Improvement Trust, RB, Series A, Mandatory Put Bonds, AMT, 7.75%, 6/01/35 (f)	3,925	4,023,753
--	-------	-----------

Pennsylvania 5.2%

Allegheny County Hospital Development Authority, Refunding RB, Health System, West Penn, Series A, 5.38%, 11/15/40	2,765	2,097,640
Pennsylvania Economic Development Financing Authority, RB:		
Amtrak Project, Series A, AMT, 6.38%, 11/01/41	5,175	5,262,509
Aqua Pennsylvania Inc. Project, 5.00%, 11/15/40	2,065	2,177,006
Reliant Energy, Series A, AMT, 6.75%, 12/01/36	6,130	6,355,645
Pennsylvania Turnpike Commission, RB, Sub-Series D, 5.13%, 12/01/40	1,700	1,783,487
		<hr/>
		17,676,287

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
Puerto Rico 7.9%		
Commonwealth of Puerto Rico, GO, Refunding, Public Improvement, Series C, 6.00%, 7/01/39	\$ 3,220	\$ 3,488,065
Puerto Rico Sales Tax Financing Corp., RB:		
CAB, Series A, 6.48%, 8/01/31 (a)	11,700	3,439,215
CAB, Series A, 6.55%, 8/01/32 (a)	8,600	2,345,994
CAB, Series A, 6.57%, 8/01/33 (a)	13,600	3,453,176
CAB, Series A, 6.60%, 8/01/34 (a)	5,500	1,309,605
CAB, Series A, 6.61%, 8/01/35 (a)	14,055	3,137,357
CAB, Series A, 6.63%, 8/01/36 (a)	12,875	2,685,725
First Sub-Series A, 6.50%, 8/01/44	6,100	6,920,511
		<u>26,779,648</u>
South Carolina 2.6%		
County of Greenwood South Carolina, RB, Facilities, Self Memorial Hospital:		
5.50%, 10/01/26	2,280	2,302,116
5.50%, 10/01/31	3,250	3,273,237
South Carolina Jobs, EDA, Refunding RB:		
Palmetto Health Alliance, Series A, 6.25%, 8/01/31	2,640	2,729,126
Palmetto Health, Series C, 6.88%, 8/01/13 (g)	550	647,895
		<u>8,952,374</u>
Tennessee 3.8%		
Knox County Health Educational & Housing Facilities Board Tennessee, Refunding RB, CAB, Series A (AGM), 5.77%, 1/01/21 (a)	20,405	11,891,830
Rutherford County Health & Educational Facilities Board, RB, Ascension Health Senior Credit Group, 5.00%, 11/15/40	1,120	1,175,541
		<u>13,067,371</u>
Texas 20.2%		
Brazos River Authority, RB, TXU Electric, Series A, AMT, 8.25%, 10/01/30	2,400	1,164,024
Brazos River Authority, Refunding RB, TXU Electric Co. Project, Series C, Mandatory Put Bonds, AMT, 5.75%, 5/01/36 (f)	1,350	1,289,250
City of Dallas Texas, Refunding RB, 5.00%, 10/01/35	1,650	1,805,826
City of Houston Texas, RB, Senior Lien, Series A, 5.50%, 7/01/39	1,675	1,831,830
City of Houston Texas, Refunding RB, Combined, First Lien, Series A (AGC), 6.00%, 11/15/35	9,145	10,757,263

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

Gulf Coast Waste Disposal Authority, Refunding RB, Series A, AMT, 6.10%, 8/01/24	10,000	10,154,400
Harris County-Houston Sports Authority, Refunding RB, Third Lien, Series A-3 (NPFGC), 5.96%, 11/15/36 (a)	25,375	4,332,781
Lower Colorado River Authority, Refunding RB (NPFGC): 5.00%, 5/15/13 (g)	35	39,066
5.00%, 5/15/13 (g)	30	33,537
5.00%, 5/15/31	1,235	1,264,393
Series A, 5.00%, 5/15/13 (g)	5	5,590
North Texas Tollway Authority, RB, Toll, 2nd Tier, Series F, 6.13%, 1/01/31	6,790	7,361,039
San Antonio Energy Acquisition Public Facility Corp., RB, Gas Supply, 5.50%, 8/01/24	3,600	3,872,484
Tarrant County Cultural Education Facilities Finance Corp., RB, Scott & White Healthcare, 6.00%, 8/15/45	4,410	4,756,009
Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien: LBJ Infrastructure, 7.00%, 6/30/40	4,710	5,128,578
Note Mobility, 6.88%, 12/31/39	4,200	4,594,296
Texas State Turnpike Authority, RB (AMBAC): CAB, 6.08%, 8/15/36 (a)	35,000	7,014,000
CAB, 6.09%, 8/15/37 (a)	10,000	1,859,200
First Tier, Series A, 5.00%, 8/15/42	1,575	1,558,589
		<hr/>
		68,822,155

Municipal Bonds	Par (000)	Value
Utah 1.2%		
City of Riverton Utah, RB, IHC Health Services Inc., 5.00%, 8/15/41	\$ 3,960	\$ 4,134,200
Virginia 4.8%		
City of Norfolk Virginia, Refunding RB, Series B (AMBAC), 5.50%, 2/01/31	1,460	1,461,825
Halifax County IDA, Refunding RB, Old Dominion Electric Co-op Project, AMT (AMBAC), 5.63%, 6/01/28	9,000	9,409,410
Tobacco Settlement Financing Corp. Virginia, Refunding RB, Senior Series B1, 5.00%, 6/01/47	3,205	2,153,536
Virginia HDA, RB, Sub-Series H-1 (NPFGC), 5.35%, 7/01/31	3,180	3,208,938
		<hr/>
		16,233,709
Wisconsin 2.0%		
Wisconsin Health & Educational Facilities Authority, RB: Ascension Health Senior Credit Group, 5.00%, 11/15/30	1,790	1,882,919
Ascension Health Senior Credit Group, 5.00%, 11/15/33	910	945,381
Aurora Health Care, 6.40%, 4/15/33	3,930	4,044,913
		<hr/>
		6,873,213
Wyoming 1.6%		

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

County of Sweetwater Wyoming, Refunding RB, Idaho		
Power Co. Project, 5.25%, 7/15/26	3,355	3,652,689
Wyoming Municipal Power Agency, RB, Series A:		
5.50%, 1/01/33	800	857,184
5.50%, 1/01/38	750	797,798
		<hr/>
		5,307,671
Total Municipal Bonds 131.6%		<hr/>
		447,804,845

Municipal Bonds Transferred to Tender Option Bond Trusts (i)

Alabama 0.8%		
Alabama Special Care Facilities Financing Authority- Birmingham, Refunding RB, Ascension Health Senior Credit, Series C-2, 5.00%, 11/15/36	2,519	2,611,238
California 2.3%		
California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%, 10/01/39	2,850	3,126,878
Los Angeles Community College District California, GO, Election of 2001, Series A (AGM), 5.00%, 8/01/32	2,530	2,679,903
San Diego Community College District California, GO, Election of 2002, 5.25%, 8/01/33	1,840	2,016,845
		<hr/>
		7,823,626

Colorado 2.1%		
Colorado Health Facilities Authority, RB (AGM), Catholic Health:		
Series C-3, 5.10%, 10/01/41	4,230	4,384,353
Series C-7, 5.00%, 9/01/36	2,710	2,807,533
		<hr/>
		7,191,886

Connecticut 3.2%		
Connecticut State Health & Educational Facility Authority, RB, Yale University:		
Series T-1, 4.70%, 7/01/29	5,170	5,594,870
Series X-3, 4.85%, 7/01/37	5,130	5,473,505
		<hr/>
		11,068,375

Georgia 1.5%		
Private Colleges & Universities Authority, Refunding RB, Emory University, Series C, 5.00%, 9/01/38	4,638	4,992,944

See Notes to Financial Statements.

Schedule of Investments (concluded)

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
Massachusetts 1.0%		
Massachusetts Water Resources Authority, Refunding RB, General, Series A, 5.00%, 8/01/41	\$ 3,150	\$ 3,322,903
New Hampshire 0.7%		
New Hampshire Health & Education Facilities Authority, Refunding RB, Dartmouth College, 5.25%, 6/01/39	2,219	2,473,968
New York 4.3%		
New York City Municipal Water Finance Authority, RB, Series FF-2, 5.50%, 6/15/40	1,710	1,945,454
New York State Dormitory Authority, ERB, Series F, 5.00%, 3/15/35	9,284	9,744,536
New York State Environmental Facilities Corp., RB, Revolving Funds, New York City Municipal Water Project, Series B, 5.00%, 6/15/31	2,850	2,923,844
		<u>14,613,834</u>
Virginia 1.9%		
University of Virginia, Refunding RB, General, 5.00%, 6/01/40	5,910	6,431,557
Washington 3.5%		
Central Puget Sound Regional Transit Authority, RB, Series A (AGM), 5.00%, 11/01/32	3,029	3,275,214
State of Washington, GO, Various Purpose, Series E, 5.00%, 2/01/34	8,113	8,833,421
		<u>12,108,635</u>
Total Municipal Bonds Transferred to Tender Option Bond Trusts 21.3%		72,638,966
Total Long-Term Investments (Cost \$500,095,761) 152.9%		520,443,811

Short-Term Securities	Shares
FFI Institutional Tax-Exempt Fund, 0.22% (j)(k)	9,440,330
	9,440,330

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

Total Short-Term Securities

(Cost \$9,440,330) 2.8% 9,440,330

Total Investments (Cost \$509,536,091*)	155.7%	529,884,141
Other Assets Less Liabilities	0.3%	971,932
Liability for Trust Certificates, Including Interest		
Expense and Fees Payable (11.5)%		(39,278,037)
Preferred Shares, at Redemption Value (44.5)%		(151,308,998)
Net Assets Applicable to Common Shares	100.0%	\$ 340,269,038

* The cost and unrealized appreciation (depreciation) of investments as of August 31, 2010, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 469,512,336
Gross unrealized appreciation	\$ 27,881,929
Gross unrealized depreciation	(6,762,561)
Net unrealized appreciation	\$ 21,119,368

- (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 under Rule 144A of 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
Wells Fargo Bank	\$ 3,542,669	\$ 22,669

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

- (i) Securities represent bonds transferred to a tender option bond 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 tender option bond trusts.
- (j) Investments in companies considered to be an affiliate of the Trust, during the year, 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, 2009	Net Activity	Shares Held at August 31, 2010	Income
FFI Institutional Tax-Exempt Fund	13,805,067	(4,364,737)	9,440,330	\$ 14,380

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

Fair Value Measurements Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 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)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with 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 August 31, 2010 in determining the fair valuation of the Trust's investments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments in Securities:				
Long-Term Investments ¹		\$ 520,443,811		\$ 520,443,811
Short-Term Securities	\$ 9,440,330			9,440,330
Total	\$ 9,440,330	\$ 520,443,811		\$ 529,884,141

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

See Notes to Financial Statements.

Schedule of Investments August 31, 2010

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

Municipal Bonds	Par (000)	Value
Alabama 3.2%		
Birmingham Special Care Facilities Financing Authority, RB, Children's Hospital (AGC):		
6.13%, 6/01/34	\$ 4,980	\$ 5,586,365
6.00%, 6/01/39	10,995	12,307,803
		<hr/>
		17,894,168
Arizona 2.6%		
State of Arizona, COP, Department of Administration, Series A (AGM):		
5.25%, 10/01/24	10,260	11,460,215
5.25%, 10/01/28	2,240	2,403,766
5.00%, 10/01/29	585	612,366
		<hr/>
		14,476,347
California 15.1%		
California State Public Works Board, RB, Various Capital Projects, Series G-1 (AGC), 5.25%, 10/01/24	5,000	5,369,450
California State University, RB, Systemwide, Series A (AGM), 5.00%, 11/01/39	4,000	4,167,720
County of Sacramento California, RB, Senior Series A (AGC), 5.50%, 7/01/41	6,600	7,103,382
Los Angeles Community College District California, GO, Election of 2001, Series A (NPPGC), 5.00%, 8/01/32	10,000	10,580,100
Los Angeles Municipal Improvement Corp., Refunding RB, Real Property, Series B (AGC), 5.50%, 4/01/39	2,980	3,216,523
Los Angeles Unified School District California, GO, Series D, 5.25%, 7/01/25	3,485	3,941,988
Manteca Financing Authority California, RB, Manteca Sewer (AGC):		
5.63%, 12/01/33	2,450	2,691,497
5.75%, 12/01/36	3,285	3,616,161
Oxnard Union High School District, GO, Refunding, Election of 2004, Series A (AGM), 5.00%, 8/01/40	6,750	7,066,845
San Diego Public Facilities Financing Authority, Refunding RB, Series B (AGC), 5.38%, 8/01/34	4,690	5,158,437
San Jacinto Unified School District, GO, Election of 2006 (AGM), 5.25%, 8/01/32	3,000	3,148,710
State of California, GO, Various Purpose: (AGC), 5.50%, 11/01/39	15,000	16,034,100
(AGM), 5.00%, 6/01/32	11,245	11,601,466
		<hr/>
		83,696,379

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

Colorado 1.2%			
Colorado Health Facilities Authority, RB, Hospital, NMC Inc. Project, Series B (AGM), 6.00%, 5/15/26		5,925	6,849,833
District of Columbia 0.8%			
District of Columbia, Refunding RB, Georgetown University, Series D (BHAC), 5.50%, 4/01/36		1,730	1,910,180
District of Columbia Water & Sewer Authority, RB, Series A (NPFGC), 5.00%, 10/01/38		2,545	2,654,282
			4,564,462
Florida 23.4%			
Alachua County School Board, RB (AMBAC), 5.25%, 7/01/29		1,625	1,689,399
Broward County Educational Facilities Authority, RB, Educational Facilities, Nova Southeastern University (AGC), 5.00%, 4/01/31		4,200	4,296,264
City of Sunrise Florida, Refunding RB (AMBAC), 5.20%, 10/01/22		2,250	2,464,943
County of Lee Florida, RB, Series A, AMT (AGM), 6.00%, 10/01/29		19,925	20,152,145
Municipal Bonds		Par (000)	Value
Florida (concluded)			
County of Miami-Dade Florida, RB, Series A, AMT: (AGM), 5.00%, 10/01/33	\$	3,505	\$ 3,515,830
(AGM), 5.13%, 10/01/35		10,605	10,661,631
Miami International Airport (AGM), 5.50%, 10/01/41		11,400	11,866,944
Miami International Airport (NPFGC), 6.00%, 10/01/29		8,000	8,090,240
County of Osceola Florida, RB, Series A (NPFGC), 5.50%, 10/01/27		5,560	5,728,301
County of St. John's Florida, RB (AGM): 5.00%, 10/01/31		3,200	3,385,472
5.00%, 10/01/35		710	731,797
5.00%, 10/01/37		5,280	5,523,144
Florida Housing Finance Corp., HRB, Waverly Apartments, Series C-1, AMT (AGM), 6.30%, 7/01/30		2,055	2,098,361
Florida Housing Finance Corp., RB, Homeowner Mortgage, Series 11, AMT (AGM), 5.95%, 1/01/32		5,640	5,644,850
Florida Housing Finance Corp., Refunding RB, AMT, Homeowner Mortgage: Series 2 (NPFGC), 5.75%, 7/01/14		640	641,350
Series 2 (NPFGC), 5.90%, 7/01/29		6,965	7,048,719
Series 4 (AGM), 6.25%, 7/01/22		535	571,059
Jacksonville Port Authority, RB, AMT (AGC), 6.00%, 11/01/38		6,740	6,941,796
Miami-Dade County Housing Finance Authority Florida, MRB, Marbrisa Apartments Project, Series 2A, AMT (AGM), 6.00%, 8/01/26		2,185	2,230,994
Miami-Dade County IDA, RB, Airis Miami II LLC Project, AMT (AMBAC), 6.00%, 10/15/19		3,370	3,329,055
St. Lucie West Services District, RB (NPFGC): 5.25%, 10/01/34		1,720	1,774,816
5.00%, 10/01/38		4,470	4,548,046

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

St. Lucie West Services District, Refunding RB, Senior Lien (NPFGC), 6.00%, 10/01/22	3,250	3,327,123
Village Center Community Development District, RB, Series A (NPFGC): 5.38%, 11/01/34	10,775	9,972,262
5.13%, 11/01/36	1,750	1,544,795
Volusia County IDA, RB, Student Housing, Stetson University Project, Series A (CIFG), 5.00%, 6/01/35	1,740	1,577,188
		<hr/>
		129,356,524

Georgia 8.1%

Augusta-Richmond County Georgia, RB (AGM), 5.25%, 10/01/39	4,350	4,581,289
City of Atlanta Georgia, RB, General, Subordinate Lien, Series C (AGM), 5.00%, 1/01/33	14,700	15,038,394
County of Fulton Georgia, RB (NPFGC), 5.25%, 1/01/35	3,825	4,145,306
Georgia Higher Education Facilities Authority, RB, USG Real Estate III, Series A (AGC), 5.00%, 6/15/38	4,050	4,211,878
Gwinnett County Hospital Authority, Refunding RB, Gwinnett Hospital System, Series D (AGM), 5.50%, 7/01/41	6,445	6,761,514
Metropolitan Atlanta Rapid Transit Authority, RB, Third Indenture, Series B (AGM), 5.00%, 7/01/34	9,240	9,895,578
		<hr/>
		44,633,959

Illinois 11.9%

Chicago Board of Education Illinois, GO, Refunding, Chicago School Reform Board, Series A (NPFGC), 5.50%, 12/01/26	3,745	4,420,336
Chicago Transit Authority, RB, Federal Transit Administration Section 5309, Series A (AGC), 6.00%, 6/01/26	6,315	7,502,157

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
Illinois (concluded)		
City of Chicago Illinois, GO, Refunding, Projects, Series A (AGM):		
5.00%, 1/01/28	\$ 4,415	\$ 4,835,087
5.00%, 1/01/29	6,845	7,428,947
5.00%, 1/01/30	2,730	2,945,179
City of Chicago Illinois, RB, Third Lien: General Airport, Series A (NPFGC), 5.00%, 1/01/33	5,500	5,574,085
General, Series C (AGM), 5.25%, 1/01/35	4,905	5,205,578
City of Chicago Illinois, Refunding RB: General, Third Lien, Series C (AGC), 5.25%, 1/01/23	3,975	4,504,311
Second Lien (NPFGC), 5.50%, 1/01/30	4,075	4,699,045
Illinois Municipal Electric Agency, RB, Series A (NPFGC), 5.25%, 2/01/35	5,000	5,223,800
State of Illinois, RB: (AGM), 5.00%, 6/15/27	3,000	3,137,370
Build Illinois, Series B, 5.25%, 6/15/26	5,625	6,255,900
Village of Schaumburg Illinois, GO, Series B (NPFGC), 5.00%, 12/01/38	3,785	3,892,608
		<u>65,624,403</u>
Indiana 2.8%		
Indianapolis Local Public Improvement Bond Bank, Refunding RB, Waterworks Project, Series A (AGC), 5.50%, 1/01/38	14,105	15,707,328
Iowa 1.1%		
Iowa Finance Authority, Refunding RB, Iowa Health System (AGC), 5.25%, 2/15/29	5,500	6,009,630
Kentucky 1.6%		
Kentucky Municipal Power Agency, RB, Prairie State Project, Series A (BHAC), 5.25%, 9/01/42	4,070	4,299,060
Kentucky State Property & Buildings Commission, Refunding RB, Project No. 93 (AGC), 5.25%, 2/01/28	4,000	4,497,080
		<u>8,796,140</u>
Louisiana 1.4%		
Louisiana State Citizens Property Insurance Corp., RB, Series C-3 (AGC), 6.13%, 6/01/25	5,475	6,274,350
New Orleans Aviation Board Louisiana, Refunding RB (AGC), Restructuring GARB:		

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

Series A-1, 6.00%, 1/01/23	500	588,855
Series A-2, 6.00%, 1/01/23	720	847,951
		<hr/>
		7,711,156

Maine 1.0%

City of Portland Maine, RB, General (AGM), 5.25%, 1/01/35	5,235	5,572,291
---	-------	-----------

Maryland 0.8%

Maryland Health & Higher Educational Facilities Authority, Refunding RB, University of Maryland Medical System:		
5.00%, 7/01/34	2,225	2,298,670
5.13%, 7/01/39	2,225	2,310,507
		<hr/>
		4,609,177

Michigan 15.2%

City of Detroit Michigan, RB:		
Second Lien, Series B (AGM), 6.25%, 7/01/36	6,320	7,069,489
Second Lien, Series B (AGM), 7.00%, 7/01/36	850	1,001,376
Second Lien, Series B (NPFGC), 5.50%, 7/01/29	7,490	7,956,852
Senior Lien, Series B (AGM), 7.50%, 7/01/33	6,600	8,097,144
System, Second Lien, Series A (BHAC), 5.50%, 7/01/36	20,540	21,756,789
City of Detroit Michigan, Refunding RB:		
Second Lien, Series E (BHAC), 5.75%, 7/01/31	6,000	6,564,660
Senior Lien, Series C-1 (AGM), 7.00%, 7/01/27	9,055	10,842,729

Municipal Bonds	Par (000)	Value
-----------------	--------------	-------

Michigan (concluded)

Michigan State Building Authority, RB, Facilities Program, Series H (AGM), 5.00%, 10/15/26	\$ 1,760	\$ 1,912,962
Michigan State Building Authority, Refunding RB, Facilities Program, Series I (AGC):		
5.25%, 10/15/22	6,150	7,068,994
5.25%, 10/15/24	2,755	3,095,187
5.25%, 10/15/25	1,435	1,596,423
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	5,780	7,014,724
		<hr/>
		83,977,329

Minnesota 2.1%

City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series B (AGC), 6.50%, 11/15/38	9,900	11,391,732
--	-------	------------

Nevada 5.9%

County of Clark Nevada, RB:		
Las Vegas-McCarran International Airport, Series A (AGC), 5.25%, 7/01/39	16,005	16,779,962
Subordinate Lien, Series A-2 (NPFGC), 5.00%, 7/01/36	15,500	15,687,550

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

		32,467,512
New Jersey 2.2%		
New Jersey EDA, RB, School Facilities Construction, Series Z (AGC), 6.00%, 12/15/34	4,350	5,038,823
New Jersey Health Care Facilities Financing Authority, RB, Virtua Health (AGC), 5.50%, 7/01/38	6,500	7,117,825
		12,156,648
New York 1.9%		
New York City Transitional Finance Authority, Fiscal 2009, RB:		
Series S-3, 5.25%, 1/15/39	5,625	6,129,169
Series S-4 (AGC), 5.50%, 1/15/29	4,000	4,620,000
		10,749,169
Ohio 1.5%		
Ohio Higher Educational Facility Commission, Refunding RB, Summa Health System, 2010 Project (AGC), 5.25%, 11/15/40	7,725	7,993,444
Pennsylvania 1.7%		
Pennsylvania Turnpike Commission, Refunding RB, Sub-Series B-1 (AGM), 5.00%, 12/01/37	9,000	9,525,330
Puerto Rico 1.3%		
Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A, 6.38%, 8/01/39	6,610	7,439,357
South Carolina 0.3%		
City of Spartanburg South Carolina, RB, System (AGC), 5.00%, 6/01/39	1,700	1,821,771
Texas 19.7%		
City of Austin Texas, Refunding RB, Series A (AGM):		
5.00%, 11/15/28	3,360	3,725,266
5.00%, 11/15/29	4,255	4,679,606
City of Dallas Texas, Refunding RB (AGC), 5.25%, 8/15/38	4,000	4,246,280
City of Houston Texas, Refunding RB, Combined, First Lien, Series A (AGC):		
6.00%, 11/15/35	12,700	14,939,010
6.00%, 11/15/36	9,435	11,083,011
5.38%, 11/15/38	5,000	5,563,100
County of Bexar Texas, RB, Venue Project, Motor Vehicle Rental (BHAC), 5.00%, 8/15/39	4,120	4,346,559
Harris County Health Facilities Development Corp., Refunding RB, Memorial Hermann Healthcare System, Series B, 7.25%, 12/01/35	1,500	1,737,810

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
Texas (concluded)		
Lower Colorado River Authority, Refunding RB, LCRA Transmission Services Project (AGC), 5.50%, 5/15/36	\$ 5,325	\$ 5,784,601
Lubbock Cooper ISD Texas, GO, School Building (AGC), 5.75%, 2/15/42	2,300	2,532,553
North Texas Tollway Authority, RB, System, First Tier, Series K-1 (AGC), 5.75%, 1/01/38	12,400	13,766,480
North Texas Tollway Authority, Refunding RB, System, First Tier, Series A: (AGC), 5.75%, 1/01/40	7,000	7,682,920
(BHAC), 5.75%, 1/01/48	7,500	8,204,475
(NPFGC), 5.13%, 1/01/28	17,500	18,557,000
Tarrant County Cultural Education Facilities Finance Corp., Refunding RB, Christus Health, Series A (AGC), 6.50%, 7/01/37	1,770	1,988,754
		<u>108,837,425</u>
Utah 1.5%		
City of Riverton Utah, RB, IHC Health Services Inc., 5.00%, 8/15/41	7,795	8,137,902
Virginia 0.9%		
Virginia Public School Authority, RB, School Financing, 6.50%, 12/01/35	4,300	5,088,577
Total Municipal Bonds 129.2%		<u>715,087,993</u>

Municipal Bonds Transferred to
Tender Option Bond Trusts (a)

Alabama 1.2%		
Mobile Board of Water & Sewer Commissioners, RB (NPFGC), 5.00%, 1/01/31	6,500	6,739,525
California 2.9%		
California State University, Refunding RB, Systemwide, Series A (AGM), 5.00%, 11/01/32	7,960	8,340,647
Los Angeles Unified School District California, GO, Series I, 5.00%, 1/01/34	2,400	2,518,656
San Diego Community College District California, GO, Election of 2002 (AGM), 5.00%, 5/01/30	5,000	5,378,100

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

		16,237,403
District of Columbia 0.7%		
District of Columbia Water & Sewer Authority, RB, Series A, 6.00%, 10/01/35	3,381	3,893,806
Florida 5.9%		
City of Jacksonville Florida, RB, Better Jacksonville (NPFGC), 5.00%, 10/01/27	10,000	10,372,300
Hillsborough County Aviation Authority, RB, Series A, AMT (AGC), 5.50%, 10/01/38	10,657	11,115,299
Lee County HFA, RB, Multi-County Program, Series A-2, AMT (Ginnie Mae), 6.00%, 9/01/40	5,595	6,297,228
Manatee County HFA, RB, Series A, AMT (Ginnie Mae), 5.90%, 9/01/40	4,253	4,614,206
		32,399,033
Illinois 1.5%		
Chicago Transit Authority, Refunding RB, Federal Transit Administration Section 5309 (AGM), 5.00%, 6/01/28	7,737	8,337,303
Indiana 1.9%		
Indiana Health & Educational Facilities Financing Authority, Refunding RB, St. Francis, Series E (AGM), 5.25%, 5/15/41	9,850	10,382,688
Municipal Bonds Transferred to Tender Option Bond Trusts (a)		
	Par (000)	Value
Kentucky 0.1%		
Kentucky State Property & Building Commission, Refunding RB, Project No. 93 (AGC), 5.25%, 2/01/27	\$ 404	\$ 455,575
Nevada 2.7%		
Clark County Water Reclamation District, GO: Limited Tax, 6.00%, 7/01/38	8,000	9,153,120
Series B, 5.50%, 7/01/29	5,008	5,702,654
		14,855,774
New Jersey 3.0%		
New Jersey State Housing & Mortgage Finance Agency, RB, S/F Housing, Series CC, 5.25%, 10/01/29	7,532	7,952,215
New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series A (AGM), 5.00%, 12/15/32	8,000	8,521,840
		16,474,055
New York 3.7%		
New York City Municipal Water Finance Authority, RB, Series FF-2, 5.50%, 6/15/40	4,994	5,682,775
	13,500	14,915,745

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

New York State Dormitory Authority, ERB, Series B,
5.25%, 3/15/38

		20,598,520
Texas 2.4%		
City of San Antonio Texas, Refunding RB, Series A, 5.25%, 2/01/31	12,027	13,475,677
Total Municipal Bonds Transferred to Tender Option Bond Trusts 26.0%		143,849,359
Total Long-Term Investments (Cost \$810,453,372) 155.2%		858,937,352
Short-Term Securities		
	Shares	
FBI Institutional Tax-Exempt Fund, 0.22% (b)(c)	32,301,054	32,301,054
Total Short-Term Securities (Cost \$32,301,054) 5.9%		32,301,054
Total Investments (Cost \$842,754,426*) 161.1%		891,238,406
Other Assets Less Liabilities 1.4%		7,917,946
Liability for Trust Certificates, Including Interest Expense and Fees Payable (12.9)%		(71,126,857)
Preferred Shares, at Redemption Value (49.6)%		(274,662,962)
Net Assets Applicable to Common Shares 100.0%		\$ 553,366,533

See Notes to Financial Statements.

Schedule of Investments (concluded)

BlackRock MuniHoldings Insured Investment Fund (MFL)

- * The cost and unrealized appreciation (depreciation) of investments as of August 31, 2010, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 771,856,944
Gross unrealized appreciation	\$ 49,788,949
Gross unrealized depreciation	(1,475,204)
Net unrealized appreciation	\$ 48,313,745

- (a) Securities represent bonds transferred to a tender option bond 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 tender option bond trusts.
- (b) Investments in companies considered to be an affiliate of the Trust during the year, 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, 2009	Net Activity	Shares Held at August 31, 2010	Income
FFI Institutional Tax-Exempt Fund	27,005,779	5,295,275	32,301,054	\$ 39,365

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

Fair Value Measurements Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 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)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with 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 August 31, 2010 in determining the fair valuation of the Trust's investments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments in Securities:				
Long-Term Investments ¹		\$ 858,937,352		\$ 858,937,352
Short-Term Securities	\$ 32,301,054			32,301,054
Total	\$ 32,301,054	\$ 858,937,352		\$ 891,238,406

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

See Notes to Financial Statements.

ANNUAL REPORT

AUGUST 31, 2010

33

Schedule of Investments August 31, 2010

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

Municipal Bonds	Par (000)	Value
Alabama 2.5%		
Camden IDB Alabama, RB, Weyerhaeuser Co. Project, Series A, 6.13%, 12/01/13 (a)	\$ 2,550	\$ 2,992,450
Prattville IDB Alabama, RB, International Paper Co. Project, Series A, AMT, 4.75%, 12/01/30	6,500	5,879,055
Selma IDB Alabama, Refunding RB, International Paper Co. Project, Series B, 5.50%, 5/01/20	5,000	5,126,150
Selma IDB, RB, Gulf Opportunity Zone, International Paper, 5.80%, 5/01/34	1,850	1,949,160
		<u>15,946,815</u>
Arizona 3.2%		
Maricopa County IDA Arizona, RB, Arizona Charter Schools Project, Series A, 6.75%, 7/01/29	4,100	2,858,151
Maricopa County Pollution Control Corp., Refunding RB, Southern California Edison Co., Series A, 5.00%, 6/01/35	3,400	3,513,764
Phoenix Civic Improvement Corp., RB, Junior Lien, Series A, 5.00%, 7/01/40 (b)	2,000	2,054,620
Pima County IDA, RB, Arizona Charter Schools Project, Series E, 7.25%, 7/01/31	2,005	2,030,163
Pima County IDA, Refunding RB: Arizona Charter Schools Project, Series I, 6.10%, 7/01/13 (a)(c)	110	125,598
Arizona Charter Schools Project, Series I, 6.30%, 7/01/13 (a)(c)	230	263,895
Arizona Charter Schools Project, Series I, 6.10%, 7/01/24 (c)	380	376,466
Arizona Charter Schools Project, Series I, 6.30%, 7/01/31 (c)	755	737,477
Arizona Charter Schools Project, Series O, 5.00%, 7/01/26	1,545	1,344,057
Charter Schools II, Series A, 6.75%, 7/01/21	920	925,391
Salt Verde Financial Corp., RB, Senior, 5.00%, 12/01/37	5,000	4,750,100
State of Arizona, COP, Department of Administration, Series A (AGM), 5.25%, 10/01/28	700	751,177
		<u>19,730,859</u>
California 10.1%		
California HFA, RB, Home Mortgage, Series K, AMT, 5.50%, 2/01/42	3,730	3,820,005
California Health Facilities Financing Authority, Refunding RB, Series A: Catholic Healthcare West, 6.00%, 7/01/34	1,055	1,168,413

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

St. Joseph Health System, 5.75%, 7/01/39	5,000	5,356,950
California State Public Works Board, RB:		
Department of Corrections, Series C, 5.50%, 6/01/22	5,000	5,198,150
Department of Corrections, Series C, 5.50%, 6/01/23	6,000	6,232,380
Department of Mental Health, Coalinga, Series A, 5.13%, 6/01/29	10,460	10,542,529
California Statewide Communities Development Authority, RB, Health Facility, Memorial Health Services, Series A, 6.00%, 10/01/23	5,240	5,567,395
Golden State Tobacco Securitization Corp. California, RB, Asset-Backed, Series A-3, 7.88%, 6/01/13 (a)	10,725	12,780,768
Los Angeles Department of Airports, RB, Series A, 5.25%, 5/15/39	1,200	1,281,084
State of California, GO, Various Purpose, 6.50%, 4/01/33	9,700	11,369,758
		<hr/>
		63,317,432

	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	\$ 2,839,475
Colorado Health Facilities Authority, Refunding RB, Evangelical Lutheran, Series A, 5.25%, 6/01/34	3,000	2,995,710
Colorado Housing & Finance Authority, Refunding RB, S/F Program, Senior Series A-2, AMT: 6.60%, 5/01/28	375	389,122
7.50%, 4/01/31	140	148,581
		<hr/>
		6,372,888
Connecticut 0.4%		
Mohegan Tribe of Indians of Connecticut, RB, Public Improvement, Priority Distribution, 6.25%, 1/01/31	2,810	2,342,922
District of Columbia 0.2%		
Metropolitan Washington Airports Authority, RB, First Senior Lien, Series A: 5.00%, 10/01/39	415	437,277
5.25%, 10/01/44	650	694,493
		<hr/>
		1,131,770
Florida 6.5%		
County of Miami-Dade Florida, GO, Building Better Communities Program: Series B, 6.38%, 7/01/28	4,630	5,449,788
Series B-1, 5.63%, 7/01/38	5,000	5,443,250
County of Miami-Dade Florida, Refunding RB, Miami International Airport: AMT (AGC), 5.00%, 10/01/40	10,000	10,082,600
Series A-1, 5.38%, 10/01/41	10,290	10,758,092

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

Hillsborough County IDA, RB, H. Lee Moffitt Cancer Center Project, Series A, 5.25%, 7/01/37	5,500	5,521,505
Miami-Dade County IDA, RB, Waste Management Inc. Project, Series 1, Mandatory Put Bonds, AMT, 7.00%, 12/01/18 (d)	3,200	3,238,528
		40,493,763

Georgia 3.0%

DeKalb County Hospital Authority Georgia, RB, DeKalb Medical Center Inc. Project, 6.13%, 9/01/40	3,570	3,698,199
DeKalb Private Hospital Authority, Refunding RB, Children's Healthcare, 5.25%, 11/15/39	3,335	3,524,161
Gainesville Redevelopment Authority, Refunding RB, Riverside Military Academy, 5.13%, 3/01/37	1,100	790,438
Monroe County Development Authority Georgia, Refunding RB, Oglethorpe Power Corp.-Scherer, Series A, 6.80%, 1/01/11	4,785	4,864,239
Municipal Electric Authority of Georgia, RB, Series W: 6.60%, 1/01/18	4,565	5,398,843
6.60%, 1/01/18 (e)	250	286,290
		18,562,170

Idaho 0.0%

Idaho Housing & Finance Association, Refunding RB, S/F Mortgage, Senior Series E-2, AMT, 6.90%, 1/01/27	90	90,179
---	----	--------

Illinois 10.6%

City of Chicago Illinois, ARB, General, Third Lien, Series B-2, AMT (NPFGC), 6.00%, 1/01/27	17,080	18,069,444
City of Chicago Illinois, RB, Series C, AMT (Ginnie Mae), 7.00%, 3/01/32	60	61,724
Illinois Finance Authority, RB: Advocate Health Care Network, Series D, 6.50%, 11/01/38	9,700	11,069,834
Community Rehabilitation Providers Facilities, Series A, 6.50%, 7/01/22	2,140	2,144,066

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
Illinois (concluded)		
Illinois Finance Authority, Refunding RB, Series A:		
Northwestern Memorial Hospital, 6.00%, 8/15/39	\$ 9,000	\$ 10,063,260
OSF Healthcare System, 6.00%, 5/15/39	5,200	5,420,844
Regional Transportation Authority, RB:		
Series A (AMBAC), 7.20%, 11/01/20	3,500	4,379,235
Series C (NPFGC), 7.75%, 6/01/20	4,000	5,291,800
Village of Hodgkins Illinois, RB, MBM Project, AMT, 6.00%, 11/01/23	10,000	10,008,400
		<u>66,508,607</u>
Indiana 5.2%		
Indiana Health & Educational Facilities Financing Authority, RB, Clarian Health Obligation, Series A, 5.25%, 2/15/40	8,980	9,043,219
Indiana Transportation Finance Authority, RB, Series A, 6.80%, 12/01/16	8,195	9,405,484
Indianapolis Local Public Improvement Bond Bank, Refunding RB, Series D, 6.75%, 2/01/14	12,875	14,006,455
		<u>32,455,158</u>
Kansas 0.4%		
Sedgwick & Shawnee Counties Kansas, RB, Mortgage- Backed Securities Program, Series A-4, AMT (Ginnie Mae), 5.95%, 12/01/33	2,145	2,271,298
Kentucky 1.2%		
Kentucky Economic Development Finance Authority, Refunding RB, Owensboro Medical Health System, Series A, 6.38%, 6/01/40	2,000	2,138,280
Kentucky Housing Corp., RB, Series E, 4.75%, 7/01/35	4,585	4,646,852
Louisville & Jefferson County Metropolitan Sewer District, RB, Series A (AGC), 4.25%, 5/15/38	470	472,430
		<u>7,257,562</u>
Maine 1.1%		
Maine Health & Higher Educational Facilities Authority, RB, Series A, 5.00%, 7/01/39	5,000	5,262,200
Portland New Public Housing Authority Maine, Refunding RB, Senior Living, Series A:		
5.70%, 8/01/21	775	793,786
6.00%, 2/01/34	1,190	1,194,831

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

		7,250,817
Maryland 1.5%		
Maryland Community Development Administration, RB, AMT, 5.10%, 9/01/37	1,835	1,870,562
Maryland Community Development Administration, Refunding RB, Residential, Series D, AMT, 4.90%, 9/01/42	3,250	3,255,363
Maryland Health & Higher Educational Facilities Authority, Refunding RB, University of Maryland Medical System: 5.00%, 7/01/34	2,100	2,169,531
5.13%, 7/01/39	2,100	2,180,703
		<hr/> 9,476,159

Municipal Bonds	Par (000)	Value
Massachusetts 5.3%		
Boston Water & Sewer Commission, RB, 9.25%, 1/01/11 (e)	\$ 985	\$ 1,012,718
Massachusetts Bay Transportation Authority, Refunding RB, General Transportation System, Series A, 7.00%, 3/01/19	3,010	3,766,202
Massachusetts HFA, HRB, Series A, AMT, 5.20%, 12/01/37	3,000	3,057,870
Massachusetts HFA, RB, S/F, Series 130, AMT, 5.00%, 12/01/32	2,500	2,513,125
Massachusetts HFA, Refunding HRB, Series D, AMT, 4.85%, 6/01/40	3,000	2,921,880
Massachusetts Water Resources Authority, RB, Series A, 6.50%, 7/15/19 (e)	16,000	19,759,040
		<hr/> 33,030,835

Michigan 4.8%		
City of Detroit Michigan, RB, Second Lien, Series B (AGM): 6.25%, 7/01/36	2,500	2,796,475
7.00%, 7/01/36	1,250	1,472,612
Michigan State Hospital Finance Authority, Refunding RB: Henry Ford Health System, Series A, 5.25%, 11/15/46	7,950	7,706,571
Hospital, Sinai Hospital, 6.70%, 1/01/26	1,000	981,410
McLaren Health Care, 5.75%, 5/15/38	7,285	7,696,967
Trinity Health Credit, Series A, 6.00%, 12/01/20	4,200	4,270,434
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	4,100	4,975,842
		<hr/> 29,900,311

Mississippi 5.2%		
County of Lowndes Mississippi, Refunding RB, Weyerhaeuser Co. Project:		

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

Series A, 6.80%, 4/01/22	9,160	10,199,568
Series B, 6.70%, 4/01/22	4,500	4,965,975
Mississippi Business Finance Corp., Refunding RB, System Energy Resource Inc. Project:		
5.88%, 4/01/22	15,000	15,000,300
5.90%, 5/01/22	2,250	2,250,045
		<hr/>
		32,415,888

Nevada 0.9%

County of Clark Nevada, RB, Series B, 5.75%, 7/01/42	5,000	5,435,950
--	-------	-----------

New Hampshire 0.4%

New Hampshire Health & Education Facilities Authority, Refunding RB, Elliot Hospital, Series B, 5.60%, 10/01/22	2,525	2,570,930
---	-------	-----------

New Jersey 5.6%

New Jersey EDA, RB, Cigarette Tax:		
5.50%, 6/15/24	9,080	9,041,864
5.75%, 6/15/29	2,885	2,852,082
5.75%, 6/15/34	3,695	3,638,171
New Jersey EDA, Refunding RB, School Facilities Construction, Series AA, 5.25%, 12/15/33	10,000	10,956,800
New Jersey State Housing & Mortgage Finance Agency, RB, Series AA, 6.38%, 10/01/28	1,520	1,707,446
Tobacco Settlement Financing Corp. New Jersey, RB, 7.00%, 6/01/13 (a)	5,980	7,034,274
		<hr/>
		35,230,637

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
New York 3.5%		
Metropolitan Transportation Authority, RB, Series 2008-C: 6.25%, 11/15/23	\$ 3,245	\$ 3,948,873
6.50%, 11/15/28	14,925	17,893,284
		<u>21,842,157</u>
North Carolina 0.7%		
City of Charlotte North Carolina, Refunding RB, Series A, 5.50%, 7/01/34	800	875,600
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	3,309,985
		<u>4,185,585</u>
Ohio 3.4%		
Buckeye Tobacco Settlement Financing Authority, RB, Asset-Backed, Senior Series A-2, 6.50%, 6/01/47	15,930	12,706,405
Ohio Higher Educational Facility Commission, Refunding RB, Kenyon College Project, 5.25%, 7/01/44	8,000	8,517,840
		<u>21,224,245</u>
Pennsylvania 1.6%		
Delaware County IDA Pennsylvania, RB, Water Facilities, Aqua Pennsylvania Inc. Project, Series A, AMT (NPFGC), 5.00%, 11/01/38	1,500	1,526,535
Delaware County IDA Pennsylvania, Refunding RB, Water Facilities, Aqua Pennsylvania Inc. Project, Series B, AMT (NPFGC), 5.00%, 11/01/36	2,000	2,039,060
Delaware River Port Authority, RB, Series D, 5.00%, 1/01/40	195	204,017
Lycoming County Authority, Refunding RB, Susquehanna Health System Project, Series A, 5.75%, 7/01/39	3,950	4,079,402
Philadelphia Authority for Industrial Development, RB: Arbor House Inc. Project, Series E, 6.10%, 7/01/33	1,000	1,000,730
Rieder House Project, Series A, 6.10%, 7/01/33	1,355	1,355,989
		<u>10,205,733</u>
Puerto Rico 2.7%		
Puerto Rico Sales Tax Financing Corp., RB, First Sub- Series A, 6.38%, 8/01/39	13,000	14,631,110
	15,000	2,511,450

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

Puerto Rico Sales Tax Financing Corp., Refunding RB,
CAB, Series A (NPFGB), 5.70%, 8/01/41 (f)

17,142,560

South Carolina 1.0%

County of Georgetown South Carolina, Refunding RB,
International Paper Co. Project, Series A, AMT, 5.55%,
12/01/29

1,000 1,002,610

County of Richland South Carolina, Refunding RB,
International Paper Co. Project, AMT, 6.10%, 4/01/23

5,000 5,138,550

6,141,160

Texas 14.2%

Brazos River Authority, Refunding RB, Texas Utility Co.,
Series, AMT, 7.70%, 4/01/33

3,055 1,435,850

Brazos River Harbor Navigation District, Refunding RB,
Dow Chemical Co. Project, Series A7, AMT, 6.63%,
5/15/33

11,460 11,789,246

City of Houston Texas, RB, Senior Lien, Series A, 5.50%,
7/01/34

8,335 9,156,414

Guadalupe-Blanco River Authority, RB, EI du Pont de
Nemours & Co. Project, AMT, 6.40%, 4/01/26

10,250 10,267,630

Gulf Coast Waste Disposal Authority, Refunding RB,
Series A, AMT, 6.10%, 8/01/24

4,000 4,061,760

Municipal Bonds	Par (000)	Value
-----------------	--------------	-------

Texas (concluded)

Harris County Health Facilities Development Corp.,
Refunding RB, Memorial Hermann Healthcare System,
Series B:

7.13%, 12/01/31 \$ 3,500 \$ 4,061,575

7.25%, 12/01/35 5,400 6,256,116

Harris County-Houston Sports Authority, Refunding RB,
Senior Lien, Series G (NPFGB), 5.75%, 11/15/20

4,495 4,484,257

Houston Industrial Development Corp., RB, Senior, Air
Cargo, AMT, 6.38%, 1/01/23

1,790 1,790,573

La Vernia Higher Education Finance Corp., RB, KIPP Inc.,
6.25%, 8/15/39

925 966,199

Matagorda County Navigation District No. 1 Texas,
Refunding RB, CenterPoint Energy Project, 5.60%,
3/01/27 (d)

9,355 9,481,012

North Texas Tollway Authority, Refunding RB, First Tier,
Series A, 6.25%, 1/01/39

3,500 3,900,890

Tarrant County Cultural Education Facilities
Finance Corp., RB, Scott & White Healthcare,
6.00%, 8/15/45

5,000 5,392,300

Texas Private Activity Bond Surface Transportation Corp.,
RB, Senior Lien:

LBJ Infrastructure, 7.00%, 6/30/40 10,000 10,888,700

Note Mobility, 6.88%, 12/31/39 4,710 5,152,175

89,084,697

U.S. Virgin Islands 1.3%

8,000 8,155,520

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

United States Virgin Islands, Refunding RB, Senior
Secured, Hovensa Coker Project, AMT, 6.50%,
7/01/21

Vermont 0.2%

Vermont Educational & Health Buildings Financing Agency, RB, Developmental & Mental Health, Series A, 6.38%, 6/15/22	1,000	1,001,110
--	-------	-----------

Virginia 4.3%

Chesterfield County IDA, Refunding RB, Virginia Electric & Power Co., Series A, 5.88%, 6/01/17	1,425	1,461,908
City of Norfolk Virginia, Refunding RB, Series B (AMBAC), 5.50%, 2/01/31	4,225	4,230,281
County of Spotsylvania Virginia, RB (AGM), 5.00%, 6/01/37	575	617,481
Fairfax County EDA, Refunding RB, Goodwin House Inc.: 5.13%, 10/01/37	2,000	1,981,120
5.13%, 10/01/42	7,015	6,879,330
Tobacco Settlement Financing Corp. Virginia, Refunding RB, Senior Series B1, 5.00%, 6/01/47	15,000	10,078,950
Virginia HDA, Refunding RB, Sub-Series A3, AMT, 5.05%, 7/01/26	1,325	1,371,322
		<u>26,620,392</u>

Washington 4.6%

Energy Northwest, Refunding RB, Series B, 7.13%, 7/01/16	14,320	18,551,846
Seattle Housing Authority Washington, HRB, Replacement Housing Projects, 6.13%, 12/01/32	2,265	2,214,989
Washington Health Care Facilities Authority, Refunding RB, Catholic Health Initiatives, Series D, 6.38%, 10/01/36	7,000	7,951,930
		<u>28,718,765</u>

West Virginia 0.4%

West Virginia Hospital Finance Authority, Refunding RB, Charleston, Series A, 5.63%, 9/01/32	2,500	2,645,550
---	-------	-----------

See Notes to Financial Statements.

Schedule of Investments (continued)

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

Municipal Bonds	Par (000)	Value
Wisconsin 1.7%		
City of Milwaukee Wisconsin, RB, Senior, Air Cargo, AMT, 6.50%, 1/01/25	\$ 1,605	\$ 1,607,391
Wisconsin Health & Educational Facilities Authority, MRB, Hudson Memorial Hospital (FHA), 5.70%, 1/15/29	4,500	4,738,950
Wisconsin Health & Educational Facilities Authority, RB, SynergyHealth Inc., 6.00%, 11/15/32	3,040	3,155,642
Wisconsin Housing & EDA, Refunding RB, Series A, AMT, 5.63%, 3/01/31	1,350	1,417,190
		<u>10,919,173</u>
Wyoming 0.8%		
County of Sweetwater Wyoming, Refunding RB, Idaho Power Co. Project, 5.25%, 7/15/26	4,500	4,899,285
Total Municipal Bonds 109.5%		<u>684,578,882</u>

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

Arizona 0.6%		
Phoenix Civic Improvement Corp., RB, Junior Lien, Series A, 5.00%, 7/01/34	3,500	3,790,605
California 5.3%		
Los Angeles Community College District California, GO, Election of 2008, Series A, 6.00%, 8/01/33	9,586	11,097,610
University of California, RB, Series O, 5.25%, 5/15/39	20,000	22,068,800
		<u>33,166,410</u>
Connecticut 2.1%		
Connecticut State Health & Educational Facility Authority, RB, Yale University, Series Z-3, 5.05%, 7/01/42	12,000	13,045,200
District of Columbia 1.3%		
District of Columbia Water & Sewer Authority, RB, Series A, 5.50%, 10/01/39	7,495	8,264,895

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

Florida 4.0%

County of Miami-Dade Florida, RB, Water & Sewer System (AGM), 5.00%, 10/01/39	14,747	15,608,479
Miami-Dade County Expressway Authority, RB, Series A (AGC), 5.00%, 7/01/35	8,900	9,235,619
		<hr/>
		24,844,098

Illinois 3.4%

City of Chicago Illinois, Refunding RB, Second Lien (AGM), 5.25%, 11/01/33	1,330	1,451,136
Illinois Finance Authority, RB, University of Chicago, Series B, 6.25%, 7/01/38	10,000	11,869,300
Illinois State Toll Highway Authority, RB, Series B, 5.50%, 1/01/33	6,999	7,796,436
		<hr/>
		21,116,872

Kentucky 6.7%

Kentucky Economic Development Finance Authority, Refunding RB, St. Elizabeth, Series A, 5.50%, 5/01/39	8,003	8,542,246
Kentucky Housing Corp., Refunding RB, Series L, AMT, 5.25%, 1/01/38	7,220	7,490,894
Lexington-Fayette Urban County Airport Board, Refunding RB, Series A, 5.00%, 7/01/27	7,001	7,731,979
Louisville & Jefferson County Metropolitan Government Parking Authority, RB, Series A, 5.38%, 12/01/39	9,195	9,884,073
Louisville & Jefferson County Metropolitan Sewer District, RB, Series A (AGC), 4.25%, 5/15/38	8,003	8,044,083
		<hr/>
		41,693,275

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

**Par
(000)**

Value

Maryland 0.8%

Maryland State Transportation Authority, RB, Transportation Facility Project (AGM), 5.00%, 7/01/41	\$ 4,710	\$ 5,102,861
--	----------	--------------

Nevada 2.9%

Clark County Water Reclamation District, GO, Series B, 5.75%, 7/01/34	15,789	18,043,081
---	--------	------------

New York 4.9%

New York City Municipal Water Finance Authority, RB: Series DD, 5.00%, 6/15/37	24,199	25,786,449
Series FF-2, 5.50%, 6/15/40	4,154	4,727,113
		<hr/>
		30,513,562

North Carolina 3.0%

North Carolina Capital Facilities Finance Agency, Refunding RB:		
Duke University Project, Series A, 5.00%, 10/01/41	12,678	13,469,171
Wake Forest University, 5.00%, 1/01/38	5,000	5,369,450
		<hr/>
		18,838,621

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

Ohio 3.7%

County of Allen Ohio, Refunding RB, Catholic Healthcare, Series A, 5.25%, 6/01/38	2,870	3,015,050
County of Montgomery Ohio, Refunding RB, Catholic Healthcare, Series A, 5.50%, 5/01/34	5,470	6,010,983
Ohio Higher Educational Facility Commission, Refunding RB, Hospital, Cleveland Clinic Health, Series A, 5.25%, 1/01/33	4,400	4,663,120
State of Ohio, RB, Cleveland Clinic Health, Series B, 5.50%, 1/01/34	8,500	9,250,975
		<hr/>
		22,940,128

Oregon 2.1%

Oregon State Housing & Community Services Department, RB, Housing, Series A, AMT, 4.95%, 7/01/30	13,000	13,134,643
--	--------	------------

South Carolina 0.5%

South Carolina State Housing Finance & Development Authority, Refunding RB, Series B-1, 5.55%, 7/01/39	3,259	3,412,284
---	-------	-----------

Texas 8.1%

Harris County Health Facilities Development Corp., Refunding RB, School Health Care System, Series B, 5.75%, 7/1/27	20,970	26,419,893
Houston Higher Education Finance Corp., RB, Rice University Project, Series A, 5.00%, 5/15/40	10,000	10,931,897
Texas Department of Housing & Community Affairs, MRB, Series B, AMT (Ginnie Mae), 5.25%, 9/01/32	7,129	7,305,867
Texas State University Systems, Refunding RB (AGM), 5.00%, 3/15/30	5,667	6,012,217
		<hr/>
		50,669,874

Virginia 1.2%

Fairfax County IDA Virginia, Refunding RB, Health Care, Inova Health System, Series A, 5.50%, 5/15/35	2,099	2,295,722
Virginia Small Business Financing Authority, Refunding RB, Sentara Healthcare, 5.00%, 11/01/40	5,002	5,251,632
		<hr/>
		7,547,354

Washington 4.3%

Central Puget Sound Regional Transit Authority, RB, Series A: 5.00%, 11/01/36	6,000	6,434,100
(AGM), 5.00%, 11/01/32	14,007	15,143,811
Central Puget Sound Regional Transportation Authority, Washington, RB, Series A, 5.00%, 11/01/34	5,000	5,361,750
		<hr/>
		26,939,661

See Notes to Financial Statements.

Schedule of Investments (concluded)

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

Municipal Bonds Transferred to Tender Option Bond Trusts (g)	Par (000)	Value
Wisconsin 1.0% Wisconsin Health & Educational Facilities Authority, Refunding RB, Froedtert & Community Health Inc., 5.25%, 4/01/39	\$ 6,099	\$ 6,398,952
Total Municipal Bonds Transferred to Tender Option Bond Trusts 55.9%		349,462,376
Total Long-Term Investments (Cost \$970,772,749) 165.4%		1,034,041,258
Short-Term Securities	Shares	
FFI Institutional Tax-Exempt Fund, 0.22% (h)(i)	4,494,923	4,494,923
Total Short-Term Securities (Cost \$4,494,923) 0.7%		4,494,923
Total Investments (Cost \$975,267,672*) 166.1%		1,038,536,181
Other Assets Less Liabilities 1.6%		9,745,340
Liability for Trust Certificates, Including Interest Expense and Fees Payable (28.7)%		(179,235,090)
Preferred Shares, at Redemption Value (39.0)%		(243,851,199)
Net Assets Applicable to Common Shares 100.0%		\$ 625,195,232

* The cost and unrealized appreciation (depreciation) of investments as of August 31, 2010, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 798,680,293
Gross unrealized appreciation	\$ 72,464,358
Gross unrealized depreciation	(11,728,316)
Net unrealized appreciation	\$ 60,736,042

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

Counterparty	Value	Unrealized Appreciation
Barclays Capital	\$ 2,054,620	\$ 54,620

- (c) Security exempt from registration under Rule 144A of the Securities Act of 1933. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (d) Variable rate security. Rate shown is as of report date.
- (e) Security is collateralized by Municipal or US Treasury obligations.
- (f) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (g) Securities represent bonds transferred to a tender option bond trust in exchange for which the Trust acquired residual interest certificates. These securities serve as collateral in a financing transaction. See Note 1 of Notes to Financial Statements for details of municipal bonds transferred to tender option bond trusts.
- (h) Investments in companies considered to be an affiliate of the Trust during the year, 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, 2009	Net Activity	Shares Held at August 31, 2010	Income
FFI Institutional Tax-Exempt Fund	4,104,364	390,559	4,494,923	\$ 24,306

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

Fair Value Measurements Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 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)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with investing in those securities. For information about the Trust's policy regarding valuation of investments and other significant accounting policies, please

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

refer to Note 1 of the Notes to Financial Statements.

The following table summarizes the inputs used as of August 31, 2010 in determining the fair valuation of the Trust's investments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments in Securities:				
Long-Term Investments ¹		\$ 1,034,041,258		\$ 1,034,041,258
Short-Term Securities	\$ 4,494,923			4,494,923
Total	\$ 4,494,923	\$ 1,034,041,258		\$ 1,038,536,181

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

See Notes to Financial Statements.

38 ANNUAL REPORT AUGUST 31, 2010

Statements of Assets and Liabilities

August 31, 2010	BlackRock Insured Municipal Income Trust (BYM)	BlackRock Insured Municipal Income Investment Trust (BAF)	BlackRock Municipal Bond Trust (BBK)	BlackRock Municipal Bond Investment Trust (BIE)	BlackRock Municipal Income Trust II (BLE)	BlackRock MuniHoldings Insured Investment Fund (MFL)	BlackRock MuniVest Fund, Inc. (MVF)
Assets							
Investments at value unaffiliated ¹	\$ 589,699,123	\$ 203,418,771	\$ 240,508,151	\$ 84,698,508	\$ 520,443,811	\$ 858,937,352	\$ 1,034,041,258
Investments at value affiliated ²	9,416,737	1,211,264	4,831,353	1,698,254	9,440,330	32,301,054	4,494,923
Interest receivable	5,528,252	2,409,279	2,874,397	889,790	6,617,084	10,731,935	13,738,635
Investments sold receivable	1,412,386	792,098	8,003,093	1,322,953	70,000	4,064,010	2,040,000
Income receivable affiliated	197	53	75	16	178	341	367
Prepaid expenses	36,755	20,906	14,539	3,799	35,962	44,702	43,001
Other assets	49,989	12,612	19,253	4,178	45,353	87,347	93,838
Total assets	606,143,439	207,864,983	256,250,861	88,617,498	536,652,718	906,166,741	1,054,452,022
Accrued Liabilities							
Bank overdraft						272	293
Income dividends payable Common Shares	1,944,361	642,297	885,097	262,717	1,884,120	2,750,451	3,497,897
Investments purchased payable	985,543	773,217	8,614,905	2,440,036	3,520,000	3,681,291	2,000,000
Investment advisory fees payable	253,516	86,420	113,234	39,047	222,275	371,739	434,924
Officers and Trustees fees payable	52,374	14,321	21,120	5,435	47,601	90,424	97,246
Interest expense and fees payable	50,421	28,641	5,229	8,601	25,600	59,140	115,244
Other affiliates payable	1,838	625	748	255	1,628	2,698	3,134
Other accrued expenses payable	123,469	75,235	89,285	26,672	121,021	113,514	137,007
Total accrued liabilities	3,411,522	1,620,756	9,729,618	2,782,763	5,822,245	7,069,529	6,285,745
Other Liabilities							
Trust certificates ³	80,914,512	32,196,264	7,399,148	16,275,832	39,252,437	71,067,717	179,119,846
Total Liabilities	84,326,034	33,817,020	17,128,766	19,058,595	45,074,682	78,137,246	185,405,591
Preferred Shares at Redemption Value							

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

\$25,000 per share liquidation preference, plus unpaid dividends ^{4,5}	137,254,585	42,275,531	79,906,002	17,851,341	151,308,998	274,662,962	243,851,199
--	-------------	------------	------------	------------	-------------	-------------	-------------

Net Assets Applicable to Common Shareholders	\$ 384,562,820	\$ 131,772,432	\$ 159,216,093	\$ 51,707,562	\$ 340,269,038	\$ 553,366,533	\$ 625,195,232
---	-----------------------	-----------------------	-----------------------	----------------------	-----------------------	-----------------------	-----------------------

Net Assets Applicable to Common Shareholders Consist of

Paid-in capital ^{6,7,8}	\$ 372,948,343	\$ 123,991,446	\$ 148,046,076	\$ 47,247,493	\$ 330,535,384	\$ 524,579,061	\$ 566,918,036
Undistributed net investment income	6,872,762	2,351,959	2,996,707	800,253	5,957,971	9,074,078	14,225,505
Accumulated net realized loss	(14,559,973)	(5,755,905)	(2,856,776)	(2,132,025)	(16,572,367)	(28,770,586)	(19,216,818)
Net unrealized appreciation/depreciation	19,301,688	11,184,932	11,030,086	5,791,841	20,348,050	48,483,980	63,268,509

Net Assets Applicable to Common Shareholders	\$ 384,562,820	\$ 131,772,432	\$ 159,216,093	\$ 51,707,562	\$ 340,269,038	\$ 553,366,533	\$ 625,195,232
---	-----------------------	-----------------------	-----------------------	----------------------	-----------------------	-----------------------	-----------------------

Net asset value per Common Share	\$ 14.64	\$ 15.08	\$ 15.29	\$ 15.51	\$ 14.63	\$ 14.69	\$ 10.01
----------------------------------	----------	----------	----------	----------	----------	----------	----------

¹ Investments at cost unaffiliated	\$ 570,397,435	\$ 192,233,839	\$ 229,478,065	\$ 78,906,667	\$ 500,095,761	\$ 810,453,372	\$ 970,772,749
---	----------------	----------------	----------------	---------------	----------------	----------------	----------------

² Investments at cost affiliated	\$ 9,416,737	\$ 1,211,264	\$ 4,831,353	\$ 1,698,254	\$ 9,440,330	\$ 32,301,054	\$ 4,494,923
---	--------------	--------------	--------------	--------------	--------------	---------------	--------------

³ Represents short-term floating rate certificates issued by tender option bond trusts.

⁴ Preferred Shares outstanding:

Par value \$0.001 per share	5,490	1,691	3,196	714	6,052		
-----------------------------	-------	-------	-------	-----	-------	--	--

Par value \$0.10 per share						10,986	9,753
----------------------------	--	--	--	--	--	--------	-------

⁵ Preferred Shares authorized	unlimited	unlimited	unlimited	unlimited	unlimited	1 million	10 million
--	-----------	-----------	-----------	-----------	-----------	-----------	------------

⁶ Common Shares outstanding	26,275,144	8,738,733	10,412,910	3,333,976	23,260,729	37,677,410	62,462,451
--	------------	-----------	------------	-----------	------------	------------	------------

⁷ Par value per Common Share	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.10	\$ 0.10
---	----------	----------	----------	----------	----------	---------	---------

⁸ Common Shares authorized	unlimited	unlimited	unlimited	unlimited	unlimited	unlimited	150 million
---------------------------------------	-----------	-----------	-----------	-----------	-----------	-----------	-------------

See Notes to Financial Statements.

Statements of Operations

Year Ended August 31, 2010	BlackRock Insured Municipal Income Trust (BYM)	BlackRock Insured Municipal Income Investment Trust (BAF)	BlackRock Municipal Bond Trust (BBK)	BlackRock Municipal Bond Investment Trust (BIE)	BlackRock Municipal Income Trust II (BLE)	BlackRock MuniHoldings Insured Investment Fund (MFL)	BlackRock MuniVest Fund, Inc. (MVF)
Investment Income							
Interest	\$ 29,076,445	\$ 9,647,761	\$ 13,454,852	\$ 4,047,431	\$ 28,461,083	\$ 41,819,688	\$ 52,684,744
Income affiliated	12,527	11,111	6,973	4,106	18,608	45,672	31,036
Total income	29,088,972	9,658,872	13,461,825	4,051,537	28,479,691	41,865,360	52,715,780
Expenses							
Investment advisory	3,149,269	1,085,737	1,514,683	516,903	2,783,443	4,689,786	4,937,846
Commissions for Preferred Shares	148,176	39,572	90,180	19,014	225,866	409,644	367,162
Accounting services	93,222	46,599	44,582	21,581	81,168	196,528	281,279
Professional	59,485	46,167	48,205	19,372	66,001	80,523	90,073
Printing	59,141	16,237	23,649	6,582	42,777	38,825	42,273
Officer and Trustees	50,058	16,536	19,730	6,316	43,401	69,322	77,318
Transfer agent	33,519	19,394	26,587	18,785	39,035	69,173	90,182
Custodian	29,633	13,113	17,538	8,775	29,555	40,663	41,150
Registration	9,400	9,330	9,478	9,330	10,037	13,073	26,862
Miscellaneous	85,109	45,477	59,389	41,298	85,728	108,653	124,008
Total expenses excluding interest expense and fees	3,717,012	1,338,162	1,854,021	667,956	3,407,011	5,716,190	6,078,153
Interest expense and fees ¹	502,691	212,252	44,417	102,115	267,518	427,083	1,130,433
Total expenses	4,219,703	1,550,414	1,898,438	770,071	3,674,529	6,143,273	7,208,586
Less fees waived by advisor	(335,957)	(119,232)	(310,940)	(107,036)	(257,782)	(391,989)	(6,771)
Total expenses after fees waived	3,883,746	1,431,182	1,587,498	663,035	3,416,747	5,751,284	7,201,815
Net investment income	25,205,226	8,227,690	11,874,327	3,388,502	25,062,944	36,114,076	45,513,965
Realized and Unrealized Gain (Loss)							
Net realized gain (loss) from:							
Investments	690,550	(3,140,813)	3,705,839	23,124	(1,537,580)	5,242,601	6,302,090
Financial futures contracts	(74,301)	15,682	(56,745)	5,532	157,452	60,655	(143,455)
	616,249	(3,125,131)	3,649,094	28,656	(1,380,128)	5,303,256	6,158,635

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

Net change in unrealized appreciation/ depreciation on investments	25,550,335	11,392,593	16,824,854	4,203,415	42,483,321	33,786,326	54,194,616
Total realized and unrealized gain	26,166,584	8,267,462	20,473,948	4,232,071	41,103,193	39,089,582	60,353,251
Dividends to Preferred Shareholders From							
Net investment income	(558,436)	(172,818)	(326,106)	(73,259)	(619,323)	(1,120,623)	(1,128,079)
Net Increase in Net Assets Applicable to Common Shareholders Resulting from Operations	\$ 50,813,374	\$ 16,322,334	\$ 32,022,169	\$ 7,547,314	\$ 65,546,814	\$ 74,083,035	\$ 104,739,137

¹ Related to tender option bond trusts.

See Notes to Financial Statements.

Statements of Changes in Net Assets

	BlackRock Insured Municipal Income Trust (BYM)		BlackRock Insured Municipal Income Investment Trust (BAF)		BlackRock Municipal Bond Trust (BBK)	
	Year Ended August 31,		Year Ended August 31,		Year Ended August 31,	
Increase (Decrease) in Net Assets Applicable to Common Shareholders:	2010	2009	2010	2009	2010	2009
Operations						
Net investment income	\$ 25,205,226	\$ 23,833,237	\$ 8,227,690	\$ 7,960,492	\$ 11,874,327	\$ 11,803,804
Net realized gain (loss)	616,249	(5,672,531)	(3,125,131)	(1,547,291)	3,649,094	(4,209,349)
Net change in unrealized appreciation/depreciation	25,550,335	(8,812,693)	11,392,593	(873,684)	16,824,854	(4,343,179)
Dividends to Preferred Shareholders from net investment income	(558,436)	(2,513,122)	(172,818)	(744,761)	(326,106)	(1,349,183)
Net increase in net assets applicable to Common Shareholders resulting from operations	50,813,374	6,834,891	16,322,334	4,794,756	32,022,169	1,902,093
Dividends to Common Shareholders From						
Net investment income	(22,281,818)	(19,779,705)	(7,442,276)	(6,275,413)	(10,597,613)	(9,386,250)
Capital Share Transactions						
Reinvestment of common dividends	697,165	146,402	67,819		761,779	397,817
Net Assets Applicable to Common Shareholders						
Total increase (decrease) in net assets applicable to Common Shareholders	29,228,721	(12,798,412)	8,947,877	(1,480,657)	22,186,335	(7,086,340)
Beginning of year	355,334,099	368,132,511	122,824,555	124,305,212	137,029,758	144,116,098
End of year	\$ 384,562,820	\$ 355,334,099	\$ 131,772,432	\$ 122,824,555	\$ 159,216,093	\$ 137,029,758
Undistributed net investment income	\$ 6,872,762	\$ 4,543,136	\$ 2,351,959	\$ 1,739,363	\$ 2,996,707	\$ 2,048,688

See Notes to Financial Statements.

Statements of Changes in Net Assets (continued)

	BlackRock Municipal Bond Investment Trust (BIE)		BlackRock Municipal Income Trust II (BLE)		BlackRock MuniHoldings Insured Investment Fund (MFL)	
	Year Ended August 31,		Year Ended August 31,		Year Ended August 31,	
Increase (Decrease) in Net Assets Applicable to Common Shareholders:	2010	2009	2010	2009	2010	2009
Operations						
Net investment income	\$ 3,388,502	\$ 3,449,366	\$ 25,062,944	\$ 25,241,928	\$ 36,114,076	\$ 35,460,295
Net realized gain (loss)	28,656	(2,150,945)	(1,380,128)	(6,728,654)	5,303,256	(14,166,063)
Net change in unrealized appreciation/depreciation	4,203,415	(388,109)	42,483,321	(15,458,538)	33,786,326	12,563,335
Dividends to Preferred Shareholders from net investment income	(73,259)	(437,198)	(619,323)	(2,784,279)	(1,120,623)	(4,979,410)
Net increase in net assets applicable to Common Shareholders resulting from operations	7,547,314	473,114	65,546,814	270,457	74,083,035	28,878,157
Dividends to Common Shareholders From						
Net investment income	(3,052,054)	(2,802,003)	(22,569,858)	(19,376,940)	(31,867,551)	(26,563,835)
Capital Share Transactions						
Reinvestment of common dividends	9,559		1,222,581	287,025	138,384	
Net Assets Applicable to Common Shareholders						
Total increase (decrease) in net assets applicable to						
Common Shareholders	4,504,819	(2,328,889)	44,199,537	(18,819,458)	42,353,868	2,314,322
Beginning of year	47,202,743	49,531,632	296,069,501	314,888,959	511,012,665	508,698,343
End of year	\$ 51,707,562	\$ 47,202,743	\$ 340,269,038	\$ 296,069,501	\$ 553,366,533	\$ 511,012,665
Undistributed net investment income	\$ 800,253	\$ 606,918	\$ 5,957,971	\$ 4,090,516	\$ 9,074,078	\$ 6,117,351

See Notes to Financial Statements.

Statements of Changes in Net Assets (concluded)

	BlackRock MuniVest Fund, Inc. (MVF)	
	Year Ended August 31,	
Increase (Decrease) in Net Assets Applicable to Common Shareholders:	2010	2009
Operations		
Net investment income	\$ 45,513,965	\$ 43,460,100
Net realized gain	6,158,635	122,896
Net change in unrealized appreciation/depreciation	54,194,616	(2,052,514)
Dividends to Preferred Shareholders from net investment income	(1,128,079)	(3,867,803)
Net increase in net assets applicable to Common Shareholders resulting from operations	104,739,137	37,662,679
Dividends to Common Shareholders From		
Net investment income	(40,403,913)	(33,322,841)
Capital Share Transactions		
Reinvestment of common dividends	4,970,652	522,169
Net Assets Applicable to Common Shareholders		
Total increase in net assets applicable to Common Shareholders	69,305,876	4,862,007
Beginning of year	555,889,356	551,027,349
End of year	\$ 625,195,232	\$ 555,889,356
Undistributed net investment income	\$ 14,225,505	\$ 10,445,419

See Notes to Financial Statements.

Statements of Cash Flows

Year Ended August 31, 2010	BlackRock Insured Municipal Income Trust (BYM)	BlackRock Insured Municipal Income Investment Trust (BAF)	BlackRock Municipal Bond Investment Trust (BIE)	BlackRock MuniVest Fund, Inc. (MVF)
Cash Provided by (Used for) Operating Activities				
Net increase in net assets resulting from operations, excluding dividends to Preferred Shareholders	\$ 51,371,810	\$ 16,495,152	\$ 7,620,573	\$ 105,867,216
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	(299,762)	(67,240)	45,636	(301,527)
(Increase) decrease in prepaid expenses	10,802	(4,609)	5,807	8,849
(Increase) decrease in other assets	1,861	1,162	(56)	(37,820)
(Increase) decrease in income receivable affiliated	55	13	12	(95)
Decrease in interest expense and fees payable	(116,404)	(104,363)	(3,341)	(227,829)
Increase (decrease) in Officer s and Trustees fees payable	(1,110)	(255)	632	39,329
Increase (decrease) in other affiliates payable		(16)	(7)	2
Increase in investment advisory fees payable	46,887	14,973	7,010	40,910
Increase (decrease) in other accrued expenses payable	(6,382)	(5,511)	(14,590)	10,912
Net realized and unrealized gain on investments	(26,504,024)	(8,250,618)	(4,226,596)	(60,458,886)
Amortization of premium and accretion and discount on investments	(4,415,958)	(12,824)	(113,457)	1,338,398
Proceeds from sales of long-term investments	72,624,619	48,364,740	36,254,665	243,462,227
Purchases of long-term investments	(90,473,368)	(60,500,899)	(39,303,871)	(280,055,152)
Net (purchases) sales of short-term securities	(2,514,993)	7,991,492	(1,698,252)	(390,559)
Net cash provided by (used for) operating activities	(275,967)	3,921,197	(1,425,835)	9,295,975
Cash Provided by (Used for) Financing Activities				
Cash receipts from trust certificates	22,188,516	3,498,907	4,709,085	87,772,017
Cash payments for trust certificates			(255,000)	(60,965,152)
Cash dividends paid to Common Shareholders	(21,436,735)	(7,304,240)	(3,025,778)	(35,063,129)
Cash dividends paid to Preferred Shareholders	(561,571)	(176,608)	(73,185)	(1,125,710)
Increase in bank overdraft				(293)
Cash provided by (used for) financing activities	190,210	(3,981,941)	1,355,122	(9,382,267)
Cash				
Net decrease in cash	(85,757)	(60,744)	(70,713)	(86,292)
Cash at beginning of year	85,757	60,744	70,713	86,292

Cash at end of year

Cash Flow Information

Cash paid during the year for interest	\$	619,095	\$	316,615	\$	105,456	\$	1,358,262
--	----	---------	----	---------	----	---------	----	-----------

Noncash Financing Activities

Capital shares issued in reinvestment of dividends paid to Common Shareholders	\$	697,165	\$	67,819	\$	9,559	\$	4,970,652
--	----	---------	----	--------	----	-------	----	-----------

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

See Notes to Financial Statements.

Financial Highlights

	BlackRock Insured Municipal Income Trust (BYM)					BlackRock Insured Municipal Income Investment Trust (BAF)				
	Year Ended August 31,					Year Ended August 31,				
	2010	2009	2008	2007	2006	2010	2009	2008	2007	2006
Per Share Operating Performance										
Net asset value, beginning of year	\$ 13.55	\$ 14.04	\$ 14.82	\$ 15.54	\$ 15.61	\$ 14.06	\$ 14.23	\$ 14.68	\$ 15.24	\$ 15.26
Net investment income	0.96 ₁	0.91 ₁	1.04 ₁	1.03	1.03	0.94 ₁	0.91 ₁	0.99 ₁	1.01	1.02
Net realized and unrealized gain (loss)	1.00	(0.55)	(0.83)	(0.67)	(0.09)	0.95	(0.27)	(0.46)	(0.56)	(0.07)
Dividends and distributions to Preferred Shareholders from:										
Net investment income	(0.02)	(0.10)	(0.26)	(0.28)	(0.26)	(0.02)	(0.09)	(0.28)	(0.31)	(0.26)
Net realized gain				(0.02)						
Net increase (decrease) from investment operations	1.94	0.26	(0.05)	0.06	0.68	1.87	0.55	0.25	0.14	0.69
Dividends and distributions to Common Shareholders from:										
Net investment income	(0.85)	(0.75)	(0.73)	(0.73)	(0.75)	(0.85)	(0.72)	(0.70)	(0.70)	(0.71)
Net realized gain				(0.05)						
Total dividends and distributions to Common Shareholders	(0.85)	(0.75)	(0.73)	(0.78)	(0.75)	(0.85)	(0.72)	(0.70)	(0.70)	(0.71)
Net asset value, end of year	\$ 14.64	\$ 13.55	\$ 14.04	\$ 14.82	\$ 15.54	\$ 15.08	\$ 14.06	\$ 14.23	\$ 14.68	\$ 15.24
Market price, end of year	\$ 15.26	\$ 13.69	\$ 13.19	\$ 14.35	\$ 14.65	\$ 15.64	\$ 13.01	\$ 12.42	\$ 13.55	\$ 13.88
Total Investment Return²										
Based on net asset value	14.74%	2.83%	(0.16)%	0.48%	4.92%	13.93%	5.36%	2.22%	1.17%	5.16%
Based on market price	18.42%	10.58%	(3.13)%	3.20%	0.07%	27.70%	11.70%	(3.35)%	2.54%	(4.48)%
Ratios to Average Net Assets Applicable to Common Shareholders										
Total expenses ³	1.15%	1.38%	1.24%	1.12%	1.18%	1.23%	1.60%	1.33%	1.19%	1.23%

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

Total expenses after fees waived and before fees paid indirectly ³	1.06%	1.20%	0.98%	0.80%	0.84%	1.14%	1.40%	1.05%	0.87%	0.92%
Total expenses after fees waived and paid indirectly ³	1.06%	1.20%	0.98%	0.80%	0.84%	1.14%	1.40%	1.05%	0.86%	0.90%
Total expenses after fees waived and paid indirectly and excluding interest expense and fees ^{3,4}	0.92%	0.93%	0.86%	0.80%	0.84%	0.97%	0.98%	0.91%	0.86%	0.90%
Net investment income ³	6.85%	7.23%	7.08%	6.67%	6.75%	6.54%	7.04%	6.71%	6.70%	6.79%
Dividends to Preferred Shareholders	0.15%	0.76%	1.80%	1.79%	1.69%	0.14%	0.66%	1.92%	2.05%	1.74%
Net investment income to Common Shareholders	6.70%	6.47%	5.28%	4.88%	5.06%	6.40%	6.38%	4.79%	4.65%	5.05%

Supplemental Data

Net assets applicable to Common Shareholders, end of year (000)	\$ 384,563	\$ 355,334	\$ 368,133	\$ 388,275	\$ 407,338	\$ 131,772	\$ 122,825	\$ 124,305	\$ 128,215	\$ 133,106
Preferred Shares outstanding at \$25,000 liquidation preference, end of year (000)	\$ 137,250	\$ 137,250	\$ 149,925	\$ 228,975	\$ 228,975	\$ 42,275	\$ 42,275	\$ 44,375	\$ 76,000	\$ 76,000
Portfolio turnover	13%	18%	39%	17%	60%	26%	45%	29%	13%	9%
Asset coverage per Preferred Share at \$25,000 liquidation preference, end of year	\$ 95,049	\$ 89,725	\$ 86,398	\$ 67,402	\$ 69,485	\$ 102,926	\$ 97,637	\$ 95,044	\$ 67,187	\$ 68,792

¹ Based on average common shares outstanding.

² Total investment returns based on market value, which can be significantly greater or lesser than the net asset value, may result in substantially different returns. Where applicable, total investment returns exclude the effects of any sales charges and include the reinvestment of dividends and distributions.

³ Do not reflect the effect of dividends to Preferred Shareholders.

⁴ Interest expense and fees relate to tender option bond trusts. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to tender option bond trusts.

See Notes to Financial Statements.

Financial Highlights

	BlackRock Municipal Bond Trust (BBK)					BlackRock Municipal Bond Investment Trust (BIE)				
	Year Ended August 31,					Year Ended August 31,				
	2010	2009	2008	2007	2006	2010	2009	2008	2007	2006
Per Share Operating Performance										
Net asset value, beginning of year	\$ 13.23	\$ 13.96	\$ 15.57	\$ 16.35	\$ 16.36	\$ 14.16	\$ 14.86	\$ 15.45	\$ 16.22	\$ 16.31
Net investment income	1.14 ₁	1.14 ₁	1.23 ₁	1.20	1.21	1.02 ₁	1.03 ₁	1.16 ₁	1.15	1.17
Net realized and unrealized gain (loss)	1.97	(0.83)	(1.48)	(0.63)	0.18	1.27	(0.76)	(0.51)	(0.67)	(0.06)
Dividends and distributions to Preferred Shareholders from:										
Net investment income	(0.03)	(0.13)	(0.28)	(0.32)	(0.25)	(0.02)	(0.13)	(0.30)	(0.32)	(0.27)
Net realized gain			(0.03)		(0.02)					
Net increase (decrease) from investment operations	3.08	0.18	(0.56)	0.25	1.12	2.27	0.14	0.35	0.16	0.84
Dividends and distributions to Common Shareholders from:										
Net investment income	(1.02)	(0.91)	(0.95)	(1.03)	(1.04)	(0.92)	(0.84)	(0.94)	(0.93)	(0.93)
Net realized gain			(0.10)		(0.09)					
Total dividends and distributions to Common Shareholders	(1.02)	(0.91)	(1.05)	(1.03)	(1.13)	(0.92)	(0.84)	(0.94)	(0.93)	(0.93)
Net asset value, end of year	\$ 15.29	\$ 13.23	\$ 13.96	\$ 15.57	\$ 16.35	\$ 15.51	\$ 14.16	\$ 14.86	\$ 15.45	\$ 16.22
Market price, end of year	\$ 15.79	\$ 13.80	\$ 13.89	\$ 16.50	\$ 17.89	\$ 15.60	\$ 13.20	\$ 14.28	\$ 15.82	\$ 16.70
Total Investment Return²										
Based on net asset value	24.13%	2.52%	(3.77)%	1.09%	7.18%	16.80%	2.43%	2.34%	0.95%	5.40%
Based on market price	22.90%	7.48%	(9.65)%	(2.09)%	11.55%	26.02%	(0.64)%	(3.95)%	0.40%	10.97%
Ratios to Average Net Assets Applicable to Common Shareholders										
Total expenses ³	1.29%	1.51%	1.39%	1.28%	1.37%	1.57%	1.71%	1.54%	1.43%	1.47%
Total expenses after fees waived and before fees paid indirectly ³	1.08%	1.19%	1.01%	0.84%	0.88%	1.35%	1.36%	1.13%	0.98%	1.00%

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

Total expenses after fees waived and paid indirectly ³	1.08%	1.19%	1.01%	0.83%	0.86%	1.35%	1.36%	1.13%	0.96%	0.98%
Total expenses after fees waived and paid indirectly and excluding interest expense and fees ^{3,4}	1.05%	1.10%	0.98%	0.83%	0.86%	1.15%	1.25%	1.09%	0.96%	0.98%
Net investment income ³	8.08%	9.67%	8.25%	7.36%	7.58%	6.92%	7.98%	7.52%	7.22%	7.28%
Dividends to Preferred Shareholders	0.22%	1.11%	1.87%	1.94%	1.57%	0.15%	1.01%	1.99%	2.01%	1.70%
Net investment income to Common Shareholders	7.86%	8.56%	6.38%	5.42%	6.01%	6.77%	6.97%	5.53%	5.21%	5.58%

Supplemental Data

Net assets applicable to Common Shareholders, end of year (000)	\$ 159,216	\$ 137,030	\$ 144,116	\$ 159,900	\$ 166,895	\$ 51,708	\$ 47,203	\$ 49,532	\$ 51,384	\$ 53,798
Preferred Shares outstanding at \$25,000 liquidation preference, end of year (000)	\$ 79,900	\$ 79,900	\$ 80,500	\$ 90,500	\$ 90,500	\$ 17,850	\$ 17,850	\$ 26,175	\$ 29,775	\$ 29,775
Portfolio turnover	51%	46%	27%	14%	85%	47%	71%	30%	23%	6%
Asset coverage per Preferred Share at \$25,000 liquidation preference, end of year	\$ 74,819	\$ 67,877	\$ 69,766	\$ 69,176	\$ 71,114	\$ 97,421	\$ 91,112	\$ 72,318	\$ 68,149	\$ 70,173

¹ Based on average common shares outstanding.

² Total investment returns based on market value, which can be significantly greater or lesser than the net asset value, may result in substantially different returns. Where applicable, total investment returns exclude the effects of sales charges and include the reinvestment of dividends and distributions.

³ Do not reflect the effect of dividends to Preferred Shareholders.

⁴ Interest expense and fees relate to tender option bond trusts. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to tender option bond trusts.

See Notes to Financial Statements.

Financial Highlights

	BlackRock Municipal Income Trust II (BLE)					BlackRock MuniHoldings Insured Investment Fund (MFL)				
	Year Ended August 31,					Year Ended August 31,				
	2010	2009	2008	2007	2006	2010	2009	2008	2007	2006
Per Share Operating Performance										
Net asset value, beginning of year	\$ 12.78	\$ 13.60	\$ 15.08	\$ 15.82	\$ 15.75	\$ 13.57	\$ 13.50	\$ 14.09	\$ 14.75	\$ 15.32
Net investment income	1.08 ₁	1.09 ₁	1.17 ₁	1.17	1.18	0.96 ₁	0.94 ₁	1.01 ₁	1.07 ₁	1.04 ₁
Net realized and unrealized gain (loss)	1.77	(0.95)	(1.50)	(0.66)	0.18	1.04	(0.03)	(0.61)	(0.66)	(0.47)
Dividends to Preferred Shareholders from net investment income	(0.03)	(0.12)	(0.30)	(0.32)	(0.28)	(0.03)	(0.13)	(0.32)	(0.35)	(0.30)
Net increase (decrease) from investment operations	2.82	0.02	(0.63)	0.19	1.08	1.97	0.78	0.08	0.06	0.27
Dividends to Common Shareholders from net investment income	(0.97)	(0.84)	(0.85)	(0.93)	(1.01)	(0.85)	(0.71)	(0.67)	(0.72)	(0.84)
Net asset value, end of year	\$ 14.63	\$ 12.78	\$ 13.60	\$ 15.08	\$ 15.82	\$ 14.69	\$ 13.57	\$ 13.50	\$ 14.09	\$ 14.75
Market price, end of year	\$ 15.22	\$ 13.45	\$ 13.27	\$ 15.05	\$ 17.22	\$ 14.65	\$ 12.63	\$ 11.61	\$ 12.86	\$ 14.37
Total Investment Return²										
Based on net asset value	22.83%	1.54%	(4.15)%	1.02%	7.04%	15.22%	7.36%	1.16%	0.59%	2.10%
Based on market price	21.42%	9.52%	(6.29)%	(7.38)%	16.66%	23.46%	16.19%	(4.68)%	(5.76)%	(3.24)%
Ratios to Average Net Assets Applicable to Common Shareholders										
Total expenses ³	1.16%	1.36%	1.24%	1.12%	1.18%	1.17%	1.32%	1.54%	1.54%	1.46%
Total expenses after fees waived and before fees paid indirectly ³	1.08%	1.19%	1.07%	0.90%	0.94%	1.09%	1.20%	1.42%	1.46%	1.38%
Total expenses after fees waived and paid indirectly ³	1.08%	1.19%	1.07%	0.89%	0.94%	1.09%	1.20%	1.42%	1.46%	1.38%

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

Total expenses after fees waived and paid indirectly and excluding interest expense and fees ^{3,4}	0.99%	1.05%	1.00%	0.89%	0.94%	1.01%	1.07%	1.13%	1.12%	1.12%
Net investment income ³	7.89%	9.69%	8.09%	7.43%	7.66%	6.85%	7.48%	7.23%	7.30%	7.08%
Dividends to Preferred Shareholders	0.20%	1.07%	2.04%	2.01%	1.78%	0.21%	1.05%	2.31%	2.40%	2.00%
Net investment income to Common Shareholders	7.69%	8.62%	6.05%	5.42%	5.88%	6.64%	6.43%	4.92%	4.90%	5.08%

Supplemental Data

Net assets applicable to Common Shareholders, end of year (000)	\$ 340,269	\$ 296,070	\$ 314,889	\$ 347,563	\$ 362,608	\$ 553,367	\$ 511,013	\$ 508,698	\$ 530,903	\$ 555,494
Preferred Shares outstanding at \$25,000 liquidation preference, end of year (000)	\$ 151,300	\$ 151,300	\$ 166,050	\$ 205,550	\$ 205,550	\$ 274,650	\$ 274,650	\$ 296,125	\$ 363,250	\$ 363,250
Portfolio turnover	29%	19%	21%	12%	68%	38%	40%	25%	22%	43%
Asset coverage per Preferred Share at \$25,000 liquidation preference, end of year	\$ 81,226	\$ 73,923	\$ 72,419	\$ 67,279	\$ 69,110	\$ 75,371	\$ 71,516	\$ 67,958	\$ 61,555	\$ 63,240

¹ Based on average common shares outstanding.

² Total investment returns based on market value, which can be significantly greater or lesser than the net asset value, may result in substantially different returns. Where applicable, total investment returns exclude the effects of sales charges and include the reinvestment of dividends and distributions.

³ Do not reflect the effect of dividends to Preferred Shareholders.

⁴ Interest expense and fees relate to tender option bond trusts. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to tender option bond trusts.

See Notes to Financial Statements.

ANNUAL REPORT

AUGUST 31, 2010

47

Financial Highlights

BlackRock MuniVest Fund, Inc. (MVF)					
Year Ended August 31,					
	2010	2009	2008	2007	2006
Per Share Operating Performance					
Net asset value, beginning of year	\$ 8.98	\$ 8.91	\$ 9.39	\$ 9.93	\$ 10.23
Net investment income ¹	0.73	0.70	0.67	0.73	0.70
Net realized and unrealized gain (loss)	0.97	(0.03)	(0.45)	(0.55)	(0.23)
Dividends to Preferred Shareholders from net investment income	(0.02)	(0.06)	(0.18)	(0.20)	(0.17)
Net increase (decrease) from investment operations	1.68	0.61	0.04	(0.02)	0.30
Dividends to Common Shareholders from net investment income	(0.65)	(0.54)	(0.52)	(0.52)	(0.60)
Net asset value, end of year	\$ 10.01	\$ 8.98	\$ 8.91	\$ 9.39	\$ 9.93
Market price, end of year	\$ 10.38	\$ 8.91	\$ 8.33	\$ 9.35	\$ 9.66
Total Investment Return²					
Based on net asset value	19.31%	8.18%	0.51%	(0.30)%	3.27%
Based on market price	24.69%	14.81%	(5.63)%	2.05%	1.26%
Ratios to Average Net Assets Applicable to Common Shareholders					
Total expenses ³	1.22%	1.53%	1.58%	1.66%	1.60%
Total expenses after fees waived and before fees paid indirectly ³	1.22%	1.50%	1.58%	1.66%	1.60%
Total expenses after fees waived and paid indirectly and excluding interest expense and fees ^{3,4}	1.03%	1.14%	1.10%	1.02%	1.04%
Net investment income ³	7.71%	8.74%	7.34%	7.33%	7.11%
Dividends to Preferred Shareholders	0.19%	0.78%	1.94%	1.98%	1.72%

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

Net investment income to Common Shareholders	7.52%	7.96%	5.40%	5.35%	5.39%
--	-------	-------	-------	-------	-------

Supplemental Data

Net assets applicable to Common Shareholders, end of year (000)	\$ 625,195	\$ 555,889	\$ 551,027	\$ 579,079	\$ 609,612
Preferred Shares outstanding at \$25,000 liquidation preference, end of year (000)	\$ 243,825	\$ 243,825	\$ 275,700	\$ 334,000	\$ 334,000
Portfolio turnover	25%	31%	41%	39%	56%
Asset coverage per Preferred Share at \$25,000 liquidation preference, end of year	\$ 89,106	\$ 81,999	\$ 74,993	\$ 68,380	\$ 70,654

¹ Based on average shares outstanding.

² Total investment returns based on market value, which can be significantly greater or lesser than the net asset value, may result in substantially different returns. Where applicable, total investment returns exclude the effects of sales charges and include the reinvestment of dividends and distributions.

³ Do not reflect the effect of dividends to Preferred Shareholders.

⁴ Interest expense and fees relate to tender option bond trusts. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to tender option bond trusts.

See Notes to Financial Statements.

Notes to Financial Statements

1. Organization and Significant Accounting Policies:

BlackRock Insured Municipal Income Trust (BYM), BlackRock Insured Municipal Income Investment Trust (BAF) (collectively the Insured Trusts), BlackRock Municipal Bond Trust (BBK), BlackRock Municipal Bond Investment Trust (BIE) (collectively the Bond Trusts) and BlackRock Municipal Income Trust II (BLE) are organized as Delaware statutory trusts. BlackRock MuniHoldings Insured Investment Fund (MFL) and BlackRock MuniVest Fund, Inc. (MVF) are organized as a Massachusetts business trust and as a Maryland corporation, respectively. BYM, BAF, BBK, BIE, BLE, MFL and MVF are referred to herein collectively as the Trusts and individually as a Trust. BYM, BBK and BLE are registered under the Investment Company Act of 1940, as amended (the 1940 Act), as diversified, closed-end management investment companies. BAF, BIE, MFL and MVF are registered under the 1940 Act as non-diversified, closed-end management investment companies. The Trusts' financial statements are prepared in conformity with accounting principles generally accepted in the United States of America (US GAAP), which may require management to make estimates and assumptions that affect the reported amounts and disclosures in the financial statements. Actual results could differ from those estimates. The Trusts determine and make available for publication the net asset value of their Common Shares on a daily basis.

The following is a summary of significant accounting policies followed by the Trusts:

Valuation: The Trusts' fair value their financial instruments at market value using independent dealers or pricing services under policies approved by each Trust's Board of Directors/Trustees (the Board). Municipal investments (including commitments to purchase such investments on a when-issued basis) are valued on the basis of prices provided by dealers or pricing services. In determining the value of a particular investment, pricing services may use certain information with respect to transactions in such investments, quotations from dealers, pricing matrixes, market transactions in comparable investments and information with respect to various relationships between investments. Financial futures contracts traded on exchanges are valued at their last sale price. Short-term securities with remaining maturities of 60 days or less may be valued at amortized cost, which approximates fair value. Investments in open-end investment companies are valued at net asset value each business day.

In the event that application of these methods of valuation results in a price for an investment which is deemed not to be representative of the market value of such investment or is not available, the investment will be valued in accordance with a policy approved by the Board as reflecting fair value (Fair Value Assets). When determining the price for Fair Value Assets, the investment advisor and/or the sub-advisor seeks to determine the price that each Trust might reasonably expect to receive from the current sale of that asset in an arm's-length transaction. Fair value determinations shall be based upon all available factors that the investment advisor and/or sub-advisor deems relevant. The pricing of all Fair Value Assets is subsequently reported to the Board or a committee thereof.

Forward Commitments and When-Issued Delayed Delivery Securities: The Trusts may purchase securities on a when-issued basis and may purchase or sell securities on a forward commitment basis. Settlement of such transactions normally occurs within a month or more after the purchase or sale commitment is made. The Trusts may purchase securities under such conditions with the intention of actually acquiring them, but may enter into a separate agreement to sell the securities before the settlement date. Since the value of securities purchased may fluctuate prior to settlement, the Trusts may be required to pay more at settlement than the security is worth. In addition, the purchaser is not entitled to any of the interest earned prior to settlement. When purchasing a security on a delayed delivery basis, the Trusts assume the rights and risks of ownership of the security, including the risk of price and yield fluctuations. In the event of default by the counterparty, the Trusts' maximum amount of loss is the unrealized appreciation of unsettled when-issued transactions, which is shown on the Schedules of Investments, if any.

Municipal Bonds Transferred to Tender Option Bond Trusts: The Trusts leverage their assets through the use of tender option bond trusts (TOBs). A TOB is established by a third party sponsor forming a special purpose entity, into which one or more funds, or an agent on behalf of the funds, transfers municipal bonds. Other funds managed by the investment advisor may also contribute municipal bonds to a TOB into which a Trust has contributed bonds. A TOB typically issues two classes of beneficial interests: short-term floating rate certificates, which are sold to third party investors, and residual certificates (TOB Residuals), which are generally issued to the participating funds that made the transfer. The TOB Residuals held by a Trust include the right of a Trust (1) to cause the holders of a proportional share of the short-term floating rate certificates to tender their certificates at par, including during instances of a rise in short-term interest rates, and (2) to transfer, within seven days, a corresponding share of the municipal bonds from the TOB to a Trust. The TOB may also be terminated without the consent of a Trust upon the occurrence of certain events as defined in the TOB agreements. Such termination events may include the bankruptcy or default of the municipal bond, a substantial downgrade in credit quality of the municipal bond, the inability of the TOB to obtain quarterly or annual renewal of the liquidity support agreement, a substantial decline in market value of the municipal bond or the inability to remarket the short-term floating rate certificates to third party investors.

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

The cash received by the TOB from the sale of the short-term floating rate certificates, less transaction expenses, is paid to a Trust, which typically invests the cash in additional municipal bonds. Each Trust's transfer of the municipal bonds to a TOB is accounted for as a secured borrowing, therefore the municipal bonds deposited into a TOB are presented in the Trusts' Schedules of Investments and the proceeds from the issuance of the short-term floating rate certificates are shown as trust certificates in the Statements of Assets and Liabilities.

Interest income from the underlying municipal bonds is recorded by the Trusts on an accrual basis. Interest expense incurred on the secured borrowing and other expenses related to remarketing, administration and trustee services to a TOB are shown as interest expense and fees in the Statements

ANNUAL REPORT

AUGUST 31, 2010

49

Notes to Financial Statements (continued)

of Operations. The short-term floating rate certificates have interest rates that generally reset weekly and their holders have the option to tender certificates to the TOB for redemption at par at each reset date. At August 31, 2010, the aggregate value of the underlying municipal bonds transferred to TOBs, the related liability for trust certificates and the range of interest rates on the liability for trust certificates were as follows:

	Underlying Municipal Bonds Transferred to TOBs	Liability for Trust Certificates	Range of Interest Rates
BYM	\$ 158,164,397	\$ 80,914,512	0.29% 0.35%
BAF	\$ 57,343,967	\$ 32,196,264	0.30% 0.40%
BBK	\$ 15,328,877	\$ 7,399,148	0.28% 0.35%
BIE	\$ 32,148,301	\$ 16,275,832	0.29% 0.31%
BLE	\$ 72,638,966	\$ 39,252,437	0.26% 0.35%
MFL	\$ 143,849,359	\$ 71,067,717	0.29% 0.45%
MVF	\$ 349,462,376	\$ 179,119,846	0.26% 0.40%

For the year ended August 31, 2010, the Trusts' average trust certificates outstanding and the daily weighted average interest rate, including fees, were as follows:

	Average Trust Certificates Outstanding	Daily Weighted Average Interest Rate
BYM	\$ 67,322,669	0.75%
BAF	\$ 29,367,683	0.72%
BBK	\$ 6,232,025	0.71%
BIE	\$ 12,722,064	0.80%
BLE	\$ 37,020,265	0.72%
MFL	\$ 51,200,898	0.83%
MVF	\$ 153,486,307	0.74%

Should short-term interest rates rise, the Trusts' investments in TOBs may adversely affect the Trusts' net investment income and distributions to shareholders. Also, fluctuations in the market values of municipal bonds deposited into the TOB may adversely affect the Trusts' net asset values per share.

Zero-Coupon Bonds: The Trusts may invest in zero-coupon bonds, which are normally issued at a significant discount from face value and do not provide for periodic interest payments. Zero-coupon bonds may experience greater volatility in market value than similar maturity debt obligations which provide for regular interest payments.

Segregation and Collateralization: In cases in which the 1940 Act and the interpretive positions of the Securities and Exchange Commission (SEC) require that the Trusts either deliver collateral or segregate assets in connection with certain investments (e.g., financial futures contracts) the Trusts will, consistent with SEC rules and/or certain interpretive letters issued by the SEC, segregate collateral or designate on their books and records cash or other liquid securities having a market value at least equal to the amount that would otherwise be required to be physically segregated. Furthermore, based on requirements and agreements with certain exchanges and third party broker-dealers, each party has requirements to deliver/deposit securities as collateral for certain investments.

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

Investment Transactions and Investment Income: For financial reporting purposes, investment transactions are recorded on the dates the transactions are entered into (the trade dates). Realized gains and losses on investment transactions are determined on the identified cost basis. Dividend income is recorded on the ex-dividend dates. Interest income, including amortization of premium and accretion of discount on debt securities, is recognized on the accrual basis.

Dividends and Distributions: Dividends from net investment income are declared and paid monthly. Distributions of capital gains are recorded on the ex-dividend dates. The amount and timing of dividends and distributions are determined in accordance with federal income tax regulations, which may differ from US GAAP. Dividends and distributions to Preferred Shareholders are accrued and determined as described in Note 7.

Income Taxes: It is each Trust's policy to comply with the requirements of the Internal Revenue Code of 1986, as amended, applicable to regulated investment companies and to distribute substantially all of its taxable income to its shareholders. Therefore, no federal income tax provision is required.

The Trusts file US federal and various state and local tax returns. No income tax returns are currently under examination. The statute of limitations on the Trusts' US federal tax returns remains open for each of the four years ended August 31, 2010. The statutes of limitations on the Trusts' state and local tax returns may remain open for an additional year depending upon the jurisdiction. There are no uncertain tax positions that require recognition of a tax liability.

Deferred Compensation and BlackRock Closed-End Share Equivalent Investment Plan: Under the deferred compensation plan approved by each Trust's Board, non-interested Directors/Trustees (Independent Trustees) may defer a portion of their annual complex-wide compensation. Deferred amounts earn an approximate return as though equivalent dollar amounts had been invested in common shares of certain other BlackRock Closed-End Funds selected by the Independent Trustees. This has approximately the same economic effect for the Independent Trustees as if the Independent Trustees had invested the deferred amounts directly in certain other BlackRock Closed-End Funds.

The deferred compensation plan is not funded and obligations thereunder represent general unsecured claims against the general assets of each Trust. Each Trust may, however, elect to invest in common shares of certain other BlackRock Closed-End Funds selected by the Independent Trustees in order to match its deferred compensation obligations. Investments to cover each Trust's deferred compensation liability, if any, are included in other assets in the Statements of Assets and Liabilities. Dividends and distributions from the BlackRock Closed-End Fund investments under the plan are included in income affiliated in the Statements of Operations.

Other: Expenses directly related to a Trust are charged to that Trust. Other operating expenses shared by several funds are pro rated among those funds on the basis of relative net assets or other appropriate methods. The Trusts have an arrangement with the custodians whereby fees may be reduced by credits earned on uninvested cash balances, which if applicable

Notes to Financial Statements (continued)

are shown as fees paid indirectly in the Statements of Operations. The custodians impose fees on overdrawn cash balances, which can be offset by accumulated credits earned or may result in additional custody charges.

2. Derivative Financial Instruments:

The Trusts engage in various portfolio investment strategies using derivative contracts both to increase the returns of the Trusts and to economically hedge, or protect, their exposure to certain risks such as interest rate risk. These contracts may be transacted on an exchange.

Losses may arise if the value of the contract decreases due to an unfavorable change in the market rates or value of the underlying instrument or if the counterparty does not perform under the contract. Counterparty risk related to exchange-traded financial futures contracts is minimal because of the protection against defaults provided by the exchange on which they trade.

Financial Futures Contracts: The Trusts purchase or sell financial futures contracts and options on financial futures contracts to gain exposure to, or economically hedge against, changes in interest rates (interest rate risk). Financial futures contracts are contracts for delayed delivery of securities at a specific future date and at a specific price or yield. Pursuant to the contract, the Trusts agree to receive from or pay to the broker an amount of cash equal to the daily fluctuation in value of the contract. Such receipts or payments are known as margin variation and are recognized by the Trusts as unrealized gains or losses. When the contract is closed, the Trusts record a realized gain or loss equal to the difference between the value of the contract at the time it was opened and the value at the time it was closed. The use of financial futures transactions involves the risk of an imperfect correlation in the movements in the price of financial futures contracts, interest rates and the underlying assets.

Derivative Instruments Categorized by Risk Exposure:

The Effect of Derivative Instruments on the Statements of Operations
Year Ended August 31, 2010*

	Net Realized Gain (Loss) from						
	BYM	BAF	BBK	BIE	BLE	MFL	MVF
Interest rate contracts:							
Financial futures contracts	\$ (74,301)	\$ 15,682	\$ (56,745)	\$ 5,532	\$ 157,452	\$ 60,655	\$ (143,455)

* As of August 31, 2010, there were no financial futures contracts outstanding.
For the year ended August 31, 2010, the average quarterly balance of outstanding derivative financial instruments was as follows:

	BYM	BAF	BBK	BIE	BLE	MFL	MVF
Financial futures contracts:							
Average number of contracts purchased	6	3	2	1	57	9	11
Average number of contracts sold	56	2	27	1	51	10	126
Average notional value of contracts purchased	\$ 632,512	\$ 287,506	\$ 258,755	\$ 86,252	\$ 6,557,547	\$ 1,035,020	\$ 1,236,274
	\$ 6,695,710	\$ 274,144	\$ 3,282,999	\$ 121,842	\$ 6,080,853	\$ 1,187,955	\$ 15,125,313

Average notional value of
contracts sold

3. Investment Advisory Agreement and Other Transactions with Affiliates:

The PNC Financial Services Group, Inc. (PNC), Bank of America Corporation (BAC) and Barclays Bank PLC (Barclays) are the largest stockholders of BlackRock, Inc. (BlackRock). Due to the ownership structure, PNC is an affiliate of the Trusts for 1940 Act purposes, but BAC and Barclays are not.

Each Trust entered into an Investment Advisory Agreement with BlackRock Advisors, LLC (the Manager), the Trusts' investment advisor, an indirect, wholly owned subsidiary of BlackRock, to provide investment advisory and administration services.

The Manager is responsible for the management of each Trust's portfolio and provides the necessary personnel, facilities, equipment and certain other services necessary to the operations of each Trust. For such services, each Trust pays the Manager a monthly fee at the following annual rates of the Trust's average weekly net assets except MFL and MVF, which are based upon average daily net assets as follows:

BYM	0.55%
BAF	0.55%
BBK	0.65%
BIE	0.65%
BLE	0.55%
MFL	0.55%
MVF	0.50%

Average weekly net assets and average daily net assets are the average weekly value or the average daily value of each Trust's total assets minus the sum of its accrued liabilities.

The Manager voluntarily agreed to waive a portion of the investment advisory fee with respect to the Insured Trusts, as a percentage of average weekly net assets, at an annual rate of 0.10% through October 2009 and 0.05% through October 2010. With respect to the Bond Trusts, the waiver, as a percentage of average weekly net assets is 0.15% through April 2010, 0.10%

Notes to Financial Statements (continued)

through April 2011 and 0.05% through April 2012. With respect to BLE, the waiver, as a percentage of average weekly assets, is 0.05% through July 2012. With respect to MFL, the Manager voluntarily agreed to waive its investment advisory fees on the proceeds of Preferred Shares and TOBs that exceed 35% of net assets applicable to Common Shareholders. For the year ended August 31, 2010, the Manager waived the following amounts, which are included in fees waived by advisor in the Statements of Operations:

BYM	\$	333,781
BAF	\$	115,296
BBK	\$	309,360
BIE	\$	105,542
BLE	\$	253,040
MFL	\$	381,203

The Manager voluntarily agreed to waive its investment advisory fees by the amount of investment advisory fees each Trust pays to the Manager indirectly through each Trust's investment in affiliated money market funds; however, the Manager does not waive its investment advisory fees by the amount of investment advisory fees paid through each Trust's investment in other affiliated investment companies, if any. These amounts are included in fees waived by advisor in the Statements of Operations. For the year ended August 31, 2010, the amounts waived were as follows:

BYM	\$	2,176
BAF	\$	3,936
BBK	\$	1,580
BIE	\$	1,494
BLE	\$	4,742
MFL	\$	10,786
MVF	\$	6,771

The Manager entered into sub-advisory agreements with BlackRock Financial Management, Inc. ("BFM"), an affiliate of the Manager, with respect to the Insured Trusts, Bond Trusts and BLE, and BlackRock Investment Management, LLC ("BIM"), an affiliate of the Manager, with respect to MFL and MVF, under which the Manager pays BFM and BIM for services they provide, a monthly fee that is a percentage of the investment advisory fees paid by each Trust to the Manager.

For the year ended August 31, 2010, each Trust reimbursed the Manager for certain accounting services, which are included in accounting services in the Statements of Operations. The reimbursements were as follows:

BYM	\$	10,789
BAF	\$	3,718
BBK	\$	4,405
BIE	\$	1,490
BLE	\$	9,566
MFL	\$	16,006
MVF	\$	18,624

Certain officers and/or directors of the Trusts are officers and/or directors of BlackRock or its affiliates. The Trusts reimburse the Manager for compensation paid to the Trusts' Chief Compliance Officer.

4. Investments:

Purchases and sales of investments excluding short-term securities for the year ended August 31, 2010, were as follows:

	Purchases	Sales
BYM	\$ 87,657,912	\$ 73,195,036
BAF	\$ 60,784,583	\$ 48,966,559
BBK	\$ 116,836,993	\$ 120,518,026
BIE	\$ 41,743,907	\$ 36,975,133
BLE	\$ 161,061,546	\$ 142,957,091
MFL	\$ 355,823,168	\$ 313,856,879
MVF	\$ 279,619,652	\$ 244,351,259

5. Income Tax Information:

Reclassifications: US GAAP requires that certain components of net assets be adjusted to reflect permanent differences between financial and tax reporting. These reclassifications have no effect on net assets or net asset values per share. The following permanent differences as of August 31, 2010 attributable to amortization methods on fixed income securities, distributions received from regulated investment companies and the sale of bonds received from tender option bond trusts were reclassified to the following accounts:

	BYM	BBK	BIE	BLE	MFL	MVF
Undistributed net investment income	\$ (35,346)	\$ (2,589)	\$ (69,854)	\$ (6,308)	\$ (169,175)	\$ (201,887)
Accumulated net realized gain (loss)	\$ 35,346	\$ 2,589	\$ 69,854	\$ 6,308	\$ 169,175	\$ 201,887

The tax character of distributions paid during the years ended August 31, 2010 and August 31, 2009 was as follows:

	BYM	BAF	BBK	BIE	BLE	MFL	MVF
Tax-exempt income							
8/31/10	\$ 22,840,254	\$ 7,615,094	\$ 10,923,719	\$ 3,125,313	\$ 23,189,181	\$ 32,988,174	\$ 41,531,992
8/31/09	22,292,827	7,020,174	10,735,433	3,239,201	22,161,219	31,445,738	37,190,644

Ordinary income

8/31/09