

BLACKROCK MUNIVEST FUND INC  
Form N-PX  
August 29, 2011

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

**Washington, D.C. 20549**

**FORM N-PX**

**ANNUAL REPORT OF PROXY VOTING RECORD OF REGISTERED MANAGEMENT**  
**INVESTMENT COMPANY**

Investment Company Act file number 811-05611

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

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

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

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

Date of fiscal year end: 08/31

Date of reporting period: 07/01/2010 - 06/30/2011

Item 1 Proxy Voting Record Attached hereto.

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\*\*\*\*\* FORM N-Px REPORT \*\*\*\*\*

ICA File Number: 811-05611  
Reporting Period: 07/01/2010 - 06/30/2011  
BlackRock MuniVest Fund, Inc.

===== BLACKROCK MUNIVEST FUND, INC. =====

BLACKROCK CORPORATE HIGH YIELD FUND VI, INC.

Ticker: HYT Security ID: 09255P107  
Meeting Date: SEP 02, 2010 Meeting Type: Annual  
Record Date: JUL 06, 2010

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1.1	Elect Director Richard E. Cavanagh	For	For	Management
1.2	Elect Director Richard S. Davis	For	For	Management
1.3	Elect Director Frank J. Fabozzi	For	For	Management
1.4	Elect Director Kathleen F. Feldstein	For	For	Management
1.5	Elect Director James T. Flynn	For	For	Management
1.6	Elect Director Henry Gabbay	For	For	Management
1.7	Elect Director Jerrold B. Harris	For	For	Management
1.8	Elect Director R. Glenn Hubbard	For	For	Management
1.9	Elect Director W. Carl Kester	For	For	Management
1.10	Elect Director Karen P. Robards	For	For	Management

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BLACKROCK CREDIT ALLOCATION INCOME TRUST II

Ticker: PSY Security ID: 09255H105  
Meeting Date: SEP 02, 2010 Meeting Type: Annual  
Record Date: JUL 06, 2010

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1.1	Elect Director Richard E. Cavanagh	For	For	Management
1.2	Elect Director Richard S. Davis	For	For	Management
1.3	Elect Director Kathleen F. Feldstein	For	For	Management
1.4	Elect Director James T. Flynn	For	For	Management
1.5	Elect Director Henry Gabbay	For	For	Management
1.6	Elect Director Jerrold B. Harris	For	For	Management
1.7	Elect Director R. Glenn Hubbard	For	For	Management
1.8	Elect Director Karen P. Robards	For	For	Management

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BLACKROCK CREDIT ALLOCATION INCOME TRUST IV

Ticker: BTZ Security ID: 092508100  
Meeting Date: SEP 02, 2010 Meeting Type: Annual  
Record Date: JUL 06, 2010

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1.1	Elect Director Richard E. Cavanagh	For	For	Management
1.2	Elect Director Kathleen F. Feldstein	For	For	Management
1.3	Elect Director Henry Gabbay	For	For	Management
1.4	Elect Director Jerrold B. Harris	For	For	Management

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### BLACKROCK ENERGY AND RESOURCES TRUST

Ticker: BGR Security ID: 09250U101  
Meeting Date: SEP 02, 2010 Meeting Type: Annual  
Record Date: JUL 06, 2010

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1.1	Elect Director Richard E. Cavanagh	For	For	Management
1.2	Elect Director Kathleen F. Feldstein	For	For	Management
1.3	Elect Director Henry Gabbay	For	For	Management
1.4	Elect Director Jerrold B. Harris	For	For	Management

### BLACKROCK ENHANCED DIVIDEND ACHIEVERS TRUST

Ticker: BDJ Security ID: 09251A104  
Meeting Date: SEP 02, 2010 Meeting Type: Annual  
Record Date: JUL 06, 2010

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1.1	Elect Director Richard E. Cavanagh	For	For	Management
1.2	Elect Director Kathleen F. Feldstein	For	For	Management
1.3	Elect Director Henry Gabbay	For	For	Management
1.4	Elect Director Jerrold B. Harris	For	For	Management

### BLACKROCK FLOATING RATE INCOME TRUST

Ticker: BGT Security ID: 091941104  
Meeting Date: SEP 02, 2010 Meeting Type: Annual  
Record Date: JUL 06, 2010

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1.1	Elect Director Richard E. Cavanagh	For	For	Management
1.2	Elect Director Kathleen F. Feldstein	For	For	Management
1.3	Elect Director Henry Gabbay	For	For	Management
1.4	Elect Director Jerrold B. Harris	For	For	Management

### BLACKROCK INTERNATIONAL GROWTH AND INCOME TRUST

Ticker: BGY Security ID: 092524107  
Meeting Date: SEP 02, 2010 Meeting Type: Annual  
Record Date: JUL 06, 2010

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1.1	Elect Director Richard E. Cavanagh	For	For	Management
1.2	Elect Director Kathleen F. Feldstein	For	For	Management
1.3	Elect Director Henry Gabbay	For	For	Management
1.4	Elect Director Jerrold B. Harris	For	For	Management

### BLACKROCK LIMITED DURATION INCOME TRUST

Ticker: BLW Security ID: 09249W101  
Meeting Date: SEP 02, 2010 Meeting Type: Annual  
Record Date: JUL 06, 2010

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#	Proposal	Mgt Rec	Vote Cast	Sponsor
1.1	Elect Director Richard E. Cavanagh	For	For	Management
1.2	Elect Director Kathleen F. Feldstein	For	For	Management
1.3	Elect Director Henry Gabbay	For	For	Management
1.4	Elect Director Jerrold B. Harris	For	For	Management

===== END NPX REPORT =====

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Pursuant to the requirements of the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BlackRock MuniVest Fund, Inc.

By: /s/ John Perlowski  
John Perlowski  
Chief Executive Officer of  
BlackRock MuniVest Fund, Inc.  
Date: August 29, 2011