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BLACKROCK MUNIVEST FUND INC

Form N-PX/A

August 31, 2010

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: Anne Ackerley, Chief Executive Officer,
BlackRock MuniVest Fund, Inc.,

55 East 52(nd) 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: 07/01/2009 -- 06/30/2010

Item 1 -- Proxy Voting Record -- Attached hereto.

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.

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BlackRock MuniVest Fund, Inc.

By: /s/ Anne Ackerley

Anne Ackerley

Chief Executive Officer of

BlackRock MuniVest Fund, Inc.

Date: August 23, 2010

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

ICA File Number: 811-05611
Reporting Period: 07/01/2009 - 06/30/2010
BlackRock MuniVest Fund, Inc.

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

BLACKROCK PREFERRED & EQUITY ADVANTAGE TRUST

Ticker: BTZ Security ID: 092508100
Meeting Date: AUG 26, 2009 Meeting Type: Annual
Record Date: JUN 29, 2009

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1.1	Elect Trustee Richard S. Davis	For	For	Management
1.2	Elect Trustee James T. Flynn	For	For	Management
1.3	Elect Trustee Karen P. Robards	For	For	Management

===== END NPX REPORT