

BLACKROCK MUNIVEST FUND, INC.  
Form N-PX  
August 28, 2013

**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: 07/01/2012 - 06/30/2013

Item 1 Proxy Voting Record Attached hereto.

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

ICA File Number: 811-05611  
Reporting Period: 07/01/2012 - 06/30/2013  
BlackRock MuniVest Fund, Inc.

===== BlackRock MuniVest Fund, Inc. =====

There is no proxy voting activity for the fund, as the fund did not hold any  
votable positions during the reporting period.

===== 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 27, 2013