

BLACKROCK MUNIVEST FUND, INC.
Form N-PX
August 25, 2017

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 52nd 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: 07/01/2016 - 06/30/2017

Item 1 Proxy Voting Record There were no matters relating to a portfolio security considered at any shareholder meeting held during the period ended June 30, 2017 with respect to which the registrant was entitled to vote.

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

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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

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 25, 2017