

BLACKROCK MUNIYIELD INVESTMENT FUND  
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 811-06502

Name of Fund: BlackRock MuniYield Investment Fund (MYF)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John Perlowski, Chief Executive Officer, BlackRock MuniYield Investment Fund, 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: 07/31

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

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, 2011 with respect to which the registrant was entitled to vote.

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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 MuniYield Investment Fund

By: /s/ John Perlowski  
John Perlowski  
Chief Executive Officer of BlackRock MuniYield  
Investment Fund

Date: August 29, 2011