

BLACKROCK MUNIYIELD INVESTMENT FUND
Form N-Q
December 23, 2014

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM N-Q

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS 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 M. Perlowski, Chief Executive Officer, BlackRock MuniYield Investment Fund, 55 East 52nd Street, New York, NY 10055

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

Date of fiscal year end: 07/31/2015

Date of reporting period: 10/31/2014

Item 1 – Schedule of Investments

California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%, 10/01/38			
California Health Facilities Financing Authority, RB, Sutter Health, Series B, 6.00%, 8/15/42	1,645	1,988,937	
California Health Facilities Financing Authority, Refunding RB, Catholic Healthcare West, Series A, 6.00%, 7/01/39 City & County of San Francisco	710	830,047	
California Airports Commission, Refunding ARB, 2nd Series A, AMT: 5.50%, 5/01/28	1,065	1,265,220	
5.25%, 5/01/33	830	951,097	
City of San Jose California, Refunding ARB, Series A-1, AMT, 5.50%, 3/01/30	1,500	1,689,885	
Kern Community College District, GO, Safety, Repair & Improvement, Election of 2002, Series C, 5.50%, 11/01/33	1,620	1,951,549	

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Los Angeles
 Department of
 Water & Power,
 RB, Power 3,600 4,051,044
 System,
 Sub-Series A-1,
 5.25%, 7/01/38
 San Diego
 Regional
 Building
 Authority, RB,
 County
 Operations 1,310 1,502,570
 Center &
 Annex, Series
 A, 5.38%,
 2/01/36

Municipal Bonds	Par (000)	Value
California (concluded)		
State of California, GO, Various Purposes, 6.00%, 3/01/33	\$2,535	\$3,108,797
State of California Public Works Board, LRB:		
Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33	835	974,161
Various Capital Projects, Series I, 5.50%, 11/01/31	1,000	1,211,720
Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%, 8/01/40	625	746,287
University of California, Refunding RB, Medical Center Regents, Series J, 5.25%, 5/15/38	3,730	4,345,786
		27,727,466
Colorado — 0.9%		
City & County of Denver Colorado Airport System, ARB, Series A, AMT:		
5.50%, 11/15/28	1,000	1,179,280
5.50%, 11/15/30	330	385,212
5.50%, 11/15/31	400	463,204
		2,027,696
Delaware — 0.3%		
County of Sussex Delaware, RB, NRG Energy, Inc., Indian River Power LLC Project, 6.00%, 10/01/40	500	568,805
Florida — 8.2%		
City of Jacksonville Florida, Refunding RB, Series A, 5.25%, 10/01/33	675	782,723
County of Escambia Florida, Refunding RB, International Paper Co. Project, Series B, AMT, 5.00%, 8/01/26	600	600,564

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County of Hillsborough Florida Aviation Authority, Refunding ARB, Tampa International Airport, Series A, AMT, 5.50%, 10/01/29	1,995	2,306,559
County of Hillsborough Florida IDA, RB, National Gypsum Co., AMT: Series A, 7.13%, 4/01/30	2,500	2,517,100
Series B, 7.13%, 4/01/30	2,290	2,292,954
County of Lee Florida, Refunding ARB, Series A, AMT, 5.38%, 10/01/32	2,000	2,219,000

BLACKROCK MUNIYIELD INVESTMENT FUND, INC. OCTOBER 31, 2014 1

Schedule of Investments (continued) **BlackRock MuniYield Investment Fund, Inc. (MYF)**
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
Florida (concluded)		
County of Manatee Florida Housing Finance Authority, RB, S/F Housing, Series A, AMT (Ginnie Mae, Fannie Mae & Freddie Mac), 5.90%, 9/01/40	\$310	\$316,178
County of Miami-Dade Florida, RB, Seaport Department: Series A, 5.38%, 10/01/33	1,170	1,335,310
Series B, AMT, 6.25%, 10/01/38	525	641,051
Series B, AMT, 6.00%, 10/01/42	700	822,472
County of Miami-Dade Florida Aviation, Refunding ARB, Series A, AMT, 5.00%, 10/01/31	2,440	2,708,913
Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32	1,200	1,382,352
		17,925,176
Georgia — 0.5%		
Municipal Electric Authority of Georgia, Refunding RB, Project One, Sub-Series D, 6.00%, 1/01/23	880	1,037,458
Hawaii — 0.5%		
State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25	485	572,882
5.25%, 8/01/26	525	615,699
		1,188,581
Illinois — 16.6%		
City of Chicago Illinois, GARB, O'Hare International Airport, 3rd Lien, Series C, 6.50%, 1/01/41	6,065	7,377,406
City of Chicago Illinois, GO, Refunding, Series A: Project, 5.25%, 1/01/29	1,000	1,063,490
5.25%, 1/01/33	980	1,022,669
	655	704,819

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City of Chicago Illinois Midway
International Airport, Refunding
GARB, AMT, 2nd Lien, Series A,
5.00%, 1/01/41

City of Chicago Illinois Transit
Authority, RB, Sales Tax

Receipts:

5.25%, 12/01/36	1,000	1,132,370
5.25%, 12/01/40	1,000	1,122,250
5.00%, 12/01/44	2,520	2,831,926

Municipal Bonds	Par (000)	Value
Illinois (concluded)		
County of Cook Illinois Community College District No. 508, GO, City College of Chicago:		
5.50%, 12/01/38	\$1,000	\$1,151,920
5.25%, 12/01/43	1,500	1,676,700
Illinois Finance Authority, RB, Carle Foundation, Series A, 6.00%, 8/15/41	4,000	4,622,880
Illinois Finance Authority, Refunding RB:		
Central DuPage Health, Series B, 5.38%, 11/01/39	1,200	1,339,680
Northwestern Memorial Hospital, Series A, 6.00%, 8/15/39	4,160	4,884,963
Railsplitter Tobacco Settlement Authority, RB:		
5.50%, 6/01/23	1,370	1,602,489
6.00%, 6/01/28	390	457,634
State of Illinois, GO:		
5.25%, 2/01/31	1,005	1,102,083
5.25%, 2/01/32	2,200	2,408,956
5.50%, 7/01/33	1,000	1,106,570
5.50%, 7/01/38	415	454,458
		36,063,263
Indiana — 3.1%		
City of Valparaiso Indiana, RB, Exempt Facilities, Pratt Paper LLC Project, AMT, 6.75%, 1/01/34	1,350	1,539,500
Indiana Municipal Power Agency, RB, Series B, 6.00%, 1/01/39	4,525	5,186,419
		6,725,919
Kansas — 1.7%		
Kansas Development Finance Authority, Refunding RB, Adventist Health System/Sunbelt Obligated Group, Series C, 5.50%, 11/15/29	3,275	3,774,274
Kentucky — 0.7%		
	1,200	1,430,424

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County of Louisville & Jefferson Kentucky Metropolitan
Government Parking Authority, RB, Series A, 5.75%,
12/01/34

Louisiana — 2.2%

Lake Charles Harbor & Terminal District, RB, Series B,
AMT, 5.50%, 1/01/29 1,500 1,727,085

BLACKROCK MUNIYIELD INVESTMENT FUND, INC. OCTOBER 31, 2014 2

Schedule of Investments (continued) **BlackRock MuniYield Investment Fund, Inc. (MYF)**
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
Louisiana (concluded)		
Louisiana Local Government Environmental Facilities & Community Development Authority,	\$1,420	\$1,680,783
RB, Westlake Chemical Corp. Project, Series A-1, 6.50%, 11/01/35		
Tobacco Settlement Financing Corp., Refunding RB,	1,195	1,306,231
Asset-Backed, Series A, 5.50%, 5/15/29		
		4,714,099
Maine — 1.4%		
Maine Health & Higher Educational Facilities Authority, RB, Maine	2,500	2,959,225
General Medical Center, 7.50%, 7/01/32		
Massachusetts — 4.1%		
Massachusetts Educational Financing Authority, RB, Education Loan, Issue I, AMT, 5.00%, 1/01/26	1,510	1,680,419
Massachusetts HFA, Refunding RB, AMT:		
Series B, 5.50%, 6/01/41	3,000	3,166,230
Series C, 5.35%, 12/01/42	2,000	2,084,040
Series F, 5.70%, 6/01/40	1,970	2,067,692
		8,998,381
Michigan — 2.8%		
City of Lansing Michigan, RB, Board of Water & Light Utilities System,	1,805	2,117,915
Series A, 5.50%, 7/01/41		
Michigan State Building Authority, Refunding RB,	1,250	1,447,175

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Facilities Program, Series I,
6.00%, 10/15/38
Royal Oak Hospital
Finance Authority,
Refunding RB, William 1,970 2,518,861
Beaumont Hospital, Series
V, 8.25%, 9/01/18 (a)

6,083,951

Mississippi — 1.3%
Mississippi Development
Bank, RB, Jackson Water
& Sewer System Project 1,785 2,359,716
(AGM), 6.88%, 12/01/40

Municipal Bonds	Par (000)	Value
Mississippi (concluded)		
Mississippi State University Educational Building Corp., Refunding RB, Mississippi State University Improvement Project, 5.25%, 8/01/38	\$440	\$507,980
		2,867,696
Nevada — 3.4%		
City of Las Vegas Nevada, GO, Limited Tax, Performing Arts Center, 6.00%, 4/01/34	2,850	3,328,942
County of Clark Nevada Airport System, ARB, Series B, 5.75%, 7/01/42	3,375	3,980,509
		7,309,451
New Jersey — 4.8%		
New Jersey EDA, RB:		
Private Activity Bond, The Goethals Bridge Replacement Project, AMT (AGM), 5.00%, 1/01/31	900	997,596
School Facilities Construction, Series UU, 5.00%, 6/15/40	1,000	1,080,000
New Jersey EDA, Refunding RB, New Jersey American Water Co., Inc. Project, Series A, AMT, 5.70%, 10/01/39	2,250	2,547,157
New Jersey Transportation Trust Fund Authority, RB:		
Transportation Program, Series AA, 5.50%, 6/15/39	2,475	2,810,981
Transportation System, Series A, 5.88%, 12/15/38	2,670	3,102,300
		10,538,034
New York — 0.9%		
New York Liberty Development Corp., Refunding RB, 2nd Priority, Bank of America Tower at One Bryant Park Project, Class 3, 6.38%, 7/15/49	1,650	1,867,982
Ohio — 2.7%		
	3,115	3,479,548

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County of Allen Ohio Hospital Facilities, Refunding RB, Catholic Healthcare Partners, Series A,
5.25%, 6/01/38

State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1:
5.25%, 2/15/30

1,000 1,167,190

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Schedule of Investments (continued) **BlackRock MuniYield Investment Fund, Inc. (MYF)**
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
Ohio (concluded) State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects,		
Series A-1 (concluded): 5.25%, 2/15/31	\$ 1,000	\$ 1,163,190
		5,809,928
Pennsylvania — 4.5% Pennsylvania Economic Development Financing Authority, RB, American Water Co. Project, 6.20%, 4/01/39	1,075	1,256,761
Pennsylvania Turnpike Commission, RB: Series A, 5.00%, 12/01/44	755	841,666
Sub-Series A, 5.63%, 12/01/31	2,455	2,775,869
Sub-Series A, 6.00%, 12/01/41	3,000	3,254,790
Township of Bristol Pennsylvania School District, GO, 5.25%, 6/01/37	1,500	1,706,235
		9,835,321
South Carolina — 2.9% County of Charleston South Carolina, RB, Special Source, 5.25%, 12/01/38	2,505	2,941,271
County of Charleston South Carolina Airport District, ARB, Series A, AMT: 6.00%, 7/01/38	1,955	2,284,104
5.50%, 7/01/41	1,000	1,129,200
		6,354,575
Texas — 9.0% Central Texas Regional Mobility Authority, Refunding RB, Senior Lien: 5.75%, 1/01/31	1,000	1,154,940

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6.00%, 1/01/41	2,600	3,016,988
City of Beaumont Texas, GO, Certificates of Obligation,	1,555	1,800,037
5.25%, 3/01/37		
Conroe Texas ISD, GO, School Building, Series A, 5.75%,	1,800	2,054,538
2/15/35		
County of Tarrant Texas Cultural Education Facilities Finance Corp., RB, Scott &	3,795	4,554,114
White Healthcare, 6.00%, 8/15/45		

Municipal Bonds	Par (000)	Value
Texas (concluded)		
Dallas-Fort Worth International Airport, ARB, Joint Improvement, AMT: Series A, 5.00%, 11/01/38	\$1,365	\$1,460,455
Series H, 5.00%, 11/01/37	1,535	1,661,008
North Texas Tollway Authority, Refunding RB, 1st Tier System, Series K-1 (AGC), 5.75%, 1/01/38	1,000	1,145,720
Red River Education Financing Corp., RB, Texas Christian University Project, 5.25%, 3/15/38	710	822,911
Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien, NTE Mobility Partners LLC, North Tarrant Express Managed Lanes Project, 6.88%, 12/31/39	1,700	2,012,766
		19,683,477

Virginia — 2.0%		
City of Lexington Virginia IDA, RB, Washington & Lee University, 5.00%, 1/01/43	560	625,593
Virginia Public School Authority, RB, Fluvanna County School Financing,	800	979,920

6.50%, 12/01/18 (a)
 Virginia Small Business
 Financing Authority, RB,
 Senior Lien, Elizabeth
 River Crossings OpCo LLC 2,440 2,770,522
 Project, AMT, 6.00%,
 1/01/37

4,376,035

Wisconsin — 1.8%
 Wisconsin Health &
 Educational Facilities
 Authority, Refunding RB, 3,470 3,816,271
 Froedtert & Community
 Health, Inc., Series C,
 5.25%, 4/01/39

Total Municipal Bonds — 90.5% 196,955,928

Municipal Bonds Transferred to

Tender Option Bond (TOB) Trusts (b)

California — 20.3%
 Bay Area Toll Authority,
 Refunding RB, San 2,680 3,211,519
 Francisco Bay Area, Series
 F-1, 5.63%, 4/01/19 (a)

Schedule of Investments (continued) **BlackRock MuniYield Investment Fund, Inc. (MYF)**
(Percentages shown are based on Net Assets)

Municipal
 Bonds
 Transferred
 to

Par Tender Option Bond (TOB) Trusts (b)	Value
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California (concluded)

California
 Educational
 Facilities
 Authority,
 RB,
 University
 of
 \$ 4,200 \$4,750,662
 Southern

California,
 Series
 B,
 5.25%,
 10/01/39

(c)
 Grossmont
 Union
 High
 School
 District,
 GO,
 Elec 6,000 6,569,400
 of

2008,
 Series
 B,
 5.00%,
 8/01/40
 Los5,250 6,083,700

Angeles
 Community
 College
 District
 California,

GO,
Election
of
2008,
Series
C,
5.25%,
8/01/39
(c)
Los
Angeles
Community
College
District
California,
GO,
Refunding, 9,295,024
Election
of
2008,
Series
A,
6.00%,
8/01/33
Los
Angeles
Unified
School
District
California, 894,328
GO,
Series
I,
5.00%,
1/01/34
San
Diego
Public
Facilities
Financing
Authority
Water, 9,827,881
RB,
Series
B,
5.50%,
8/01/39
Unified, 3,527,690
of
California,
RB,

Series
O,
5.75%,
5/15/34

44,160,204

Colorado — 1.1%
Colorado
Health
Facilities
Authority,
Refunding
RB,
Catholic
Health
Initiatives,
Series
A,
5.50%,
7/01/34
(c)

2,149 2,466,383

District of Columbia —
3.4%
District
of
Columbia,
RB,
Series
A,
5.50%,
12/01/30
(c)

2,805 3,315,931

District
of
Columbia
Water
&
Sewer
Authority,
Refunding
RB,
Senior
Lien,
Series
A,
5.50%,
10/01/39

3,607 3,969,105

7,285,036

Florida — 2.2%
 County
 of
 Hillsborough
 Florida
 Aviation
 Authority,
 ARB,
 Tampa
 International 3,869 4,333,204
 Airport,
 Series
 A,
 AMT
 (AGC),
 5.50%,
 10/01/38
 County
 of
 Lee
 Florida
 Housing
 Finance
 Authority,
 RB,
 S/F
 Housing 470 483,758
 Multi-County
 Program,
 Series
 A-2,
 AMT
 (Ginnie
 Mae),
 6.00%,
 9/01/40

4,816,962

Municipal Bonds Transferred to	Par	Value
Tender Option Bond (TOB) Trusts (b)	(000)	
Illinois — 3.8% State of Illinois Finance Authority, RB, University of Chicago, Series B, 6.25%, 7/01/18 (a)	\$5,300	\$6,341,609

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State of Illinois Toll Highway
 Authority, RB, Senior Priority, Series
 B, 5.50%, 1/01/33

1,750 1,941,234

8,282,843

Nevada — 8.9%

County of Clark Nevada Water
 Reclamation District, GO:

Limited Tax, 6.00%, 7/01/38 5,000 5,795,900

Series B, 5.50%, 7/01/29 5,668 6,653,146

Las Vegas Valley Water District, GO,
 Refunding, Series C, 5.00%, 6/01/28 6,070 6,950,089

19,399,135

New Hampshire — 1.1%

New Hampshire Health & Education
 Facilities Authority, RB, Dartmouth
 College, 5.25%, 6/01/39 (c)

2,159 2,473,805

New Jersey — 3.7%

New Jersey Housing & Mortgage
 Finance Agency, RB, S/F Housing,
 Series CC, 5.25%, 10/01/29

2,251 2,420,890

New Jersey Transportation Trust Fund
 Authority, RB, Transportation System:

Series A (AMBAC), 5.00%, 12/15/32 4,000 4,397,840

Series B, 5.25%, 6/15/36 (c) 1,000 1,107,191

7,925,921

New York — 14.2%

City of New York New York
 Municipal Water Finance Authority,
 Refunding RB, Water & Sewer
 System, 2nd General Resolution:

Series BB, 5.25%, 6/15/44 4,408 4,952,680

Series FF, 5.00%, 6/15/45 3,859 4,272,873

Series FF-2, 5.50%, 6/15/40 2,505 2,893,959

City of New York New York
 Transitional Finance Authority, BARB,
 Fiscal 2009, Series S-3, 5.25%, 1/15/39

2,499 2,815,387

Hudson Yards Infrastructure Corp.,
 RB, Fiscal 2012, Series A, 5.75%,
 2/15/47 (c)

1,290 1,485,173

Schedule of Investments (continued) **BlackRock MuniYield Investment Fund, Inc. (MYF)**
(Percentages shown are based on Net Assets)

Municipal
 Bonds
 Transferred
 to

Par Tender Option Bond (TOB) Trusts (b)	Value
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New York
 (concluded)
 New
 York
 Liberty
 Development
 Corp.,
 RB,
 1

World Trade Center Port Authority Consolidated Bonds, 5.25%, 12/15/43 New York Liberty Development Corp., Refunding RB, 4	\$4,365 \$4,987,449 2,560 2,978,995
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World
 Trade
 Center
 Project,
 5.75%,
 11/15/51
 (c)
 5,700 6,492,243

New
 York
 State
 Dormitory
 Authority,
 ERB,
 Personal
 Income
 Tax,
 Series
 B,
 5.25%,
 3/15/38

30,878,759

South Carolina — 1.7%
 State
 of
 South
 Carolina
 Public
 Service
 Authority,
 Refunding
 RB, ^{3,240} 3,689,712
 Santee
 Cooper,
 Series
 A,
 5.50%,
 1/01/38
 (c)

Texas — 6.9%
 City
 of
 San
 Antonio
 Texas
 Public
 Service
 Board, ^{2,089} 4,555,181
 Refunding
 RB,
 Series
 A,
 5.25%,
 2/01/31
 (c)
 5,400 6,240,996

County
of
Harris
Texas
Cultural
Education
Facilities
Finance
Corp.,
RB,
Texas
Children's
Hospital
Project,
5.50%,
10/01/39
North
Texas
Tollway
Authority,
RB,
Special
Projects 3,480 4,103,686
System,
Series
A,
5.50%,
9/01/41

14,899,863

Utah — 1.0%
City
of
Riverton
Utah,
RB,
IHC,994 2,188,087
Health
Services,
Inc.,
5.00%,
8/15/41

Municipal Value
Bond (00)
Transferred
to

Tender
Option
Bond
(TOB)
Trusts
(b)

Virginia — 0.9%
County
of
Fairfax
Virginia
IDA,
Refunding
RB,
Health
\$1,749 \$1,986,287
Care,
Inova
Health
System,
Series
A,
5.50%,
5/15/35

**Total
Municipal
Bonds
Transferred
to Tender
Option
Bond
(TOB)
Trusts —
69.2%**

150,452,997

**Total
Long-Term
Investments
(Cost —
\$308,616,707)
— 159.7%**

347,408,925

Short-Term
Securities

FFII 87,977 187,977
Institutional
Tax-Exempt

Fund,
0.03%
(d)(e)

**Total
Short-Term
Securities** 187,977
(Cost —
\$187,977) —
0.1%

**Total
Investments**
(Cost — 347,596,902
\$308,804,684*)
— 159.8%

**Other
Assets**
Less 5,111,241
Liabilities —
2.4%
**Liability
for TOB
Trust
Certificates,
Including** (75,830,366)
**Interest
Expense
and Fees
Payable —**
(34.9%)
**VRDP
Shares, at
Liquidation (59,400,000)**
Value —
(27.3%)

**Net Assets
Applicable
to
Common
Shares —** \$217,477,777
100.0%

* As of October
31, 2014,
gross
unrealized

appreciation
and
depreciation
based on cost
for federal
income tax
purposes were
as follows:

Tax
cost \$233,751,361

Gross
unrealized
appreciation
Gross
unrealized
depreciation
(768,436)

Net
unrealized
appreciation
\$38,030,270

**Notes to Schedule of
Investments**

- U.S.
government
securities,
held in
escrow, are
used to pay
interest on
this security,
as well as to
retire the
bond in full
at the date
indicated,
typically at a
premium to
par.
- (a)
- (b) Represent
bonds
transferred to
a TOB. In

exchange for
which the
Fund
received cash
and residual
interest
certificates.

These bonds
serve as
collateral in a
financing
transaction.

- (c) All or a
portion of
security is
subject to a
recourse
agreement,
which may
require the
Fund to pay
the liquidity
provider in
the event
there is a
shortfall
between the
TOB trust
certificates
and proceeds
received from
the sale of the
security
contributed to
the TOB
trust. In the
case of a
shortfall, the
aggregate
maximum
potential
amount the
Fund could
ultimately be
required to
pay under the
agreement,
which expire
from
October, 01,
2016 to

November,
15, 2019 is
\$18,118,171.

- (d) Represents
the current
yield as of
report date.
Investments
in issuers
considered to
be an affiliate
of the Fund
during the
period ended
October 31,
2014, for
(e) purposes of
Section
2(a)(3) of the
Investment
Company Act
of 1940, as
amended,
were as
follows:

Schedule of Investments (continued) **BlackRock MuniYield Investment Fund, Inc. (MYF)**

Affiliate	Shares Held at July 31, 2014	Net Activity	Shares Held at October 31, 2014	Income
FFI Institutional Tax-Exempt Fund	1,361,852	(1,173,875)	187,977	\$75

Portfolio Abbreviations

AGC	Assured Guarantee Corp.
AGM	Assured Guaranty Municipal Corp.
AMBAC	American Municipal Bond Assurance Corp.
AMT	Alternative Minimum Tax (subject to)
ARB	Airport Revenue Bonds
BARB	Building Aid Revenue Bonds
COP	Certificates of Participation Economic
EDA	Development Authority Education
ERB	Revenue Bonds

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	General
GARB	Airport Revenue Bonds
GO	General Obligation Bonds
HFA	Housing Finance Agency
IDA	Industrial Development Authority
IDB	Industrial Development Board
ISD	Independent School District
LRB	Lease Revenue Bonds
RB	Revenue Bonds
S/F	Single-Family

Financial futures contracts outstanding as of October 31, 2014 were as follows:

Contracts Sold	Issue	Exchange	Expiration	Notional Value	Unrealized Appreciation
(216)	10-Year U.S. Treasury Note	Chicago Board of Trade	December 2014	\$27,293,625	\$38,827

BLACKROCK MUNIYIELD INVESTMENT FUND, INC. OCTOBER 31, 2014 7

Schedule of Investments (concluded) **BlackRock MuniYield Investment Fund, Inc. (MYF)**

Fair Value Measurements - Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs to valuation techniques are categorized into a disclosure hierarchy consisting of three broad levels for financial reporting purposes. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3. The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the fair value hierarchy classification is determined based on the lowest level input that is significant to the fair value measurement in its entirety.

Level 1 — unadjusted quoted prices in active markets/exchanges for identical assets or liabilities that the Fund has the ability to access

Level 2 — other observable inputs (including, but not limited to, quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 — unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Fund's own assumptions used in determining the fair value of investments and derivative financial instruments)

Changes in valuation techniques may result in transfers into or out of an assigned level within the disclosure hierarchy. In accordance with the Fund's policy, transfers between different levels of the fair value disclosure hierarchy are deemed to have occurred as of the beginning of the reporting period. For information about the Fund's policy regarding valuation of investments and derivative financial instruments, please refer to the Fund's most recent financial statements as contained in its annual report.

The following tables summarize the Fund's investments and derivative financial instruments categorized in the disclosure hierarchy as of October 31, 2014:

	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments ¹	—	\$ 347,408,925	—	\$ 347,408,925
Short-Term Securities	\$ 187,977	—	—	187,977
Total	\$ 187,977	\$ 347,408,925	—	\$ 347,596,902

¹ See above Schedule of Investments for values in each state or political subdivision.

	Level 1	Level 2	Level 3	Total
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Derivative Financial Instruments ²

Assets:

Interest rate contracts \$ 38,827 — — \$38,827

² Derivative financial instruments are financial futures contracts, which are valued at the unrealized appreciation/depreciation on the instrument.

The Fund may hold assets and/or liabilities in which the fair value approximates the carrying amount for financial reporting purposes. As of October 31, 2014, such assets and/or liabilities are categorized within the disclosure hierarchy as follows:

	Level 1	Level 2	Level 3	Total
Assets:				
Cash pledged for financial futures contracts	\$ 264,000	—	—	\$264,000
Liabilities:				
TOB trust certificates	—	\$ (75,815,271)	—	(75,815,271)
VRDP Shares	—	(59,400,000)	—	(59,400,000)
Total	\$ 264,000	\$ (135,215,271)	—	\$ (134,951,271)

There were no transfers between levels during the period ended October 31, 2014.

Item 2 – Controls and Procedures

2(a) – The registrant's principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the 1940 Act)) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.

2(b) – There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant's last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 3 – Exhibits

Certifications – Attached hereto

Pursuant to the requirements of the Securities Exchange Act of 1934 and 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 M. Perlowski

John M. Perlowski

Chief Executive Officer (principal executive officer) of

BlackRock MuniYield Investment Fund

Date: December 23, 2014

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ John M. Perlowski

John M. Perlowski

Chief Executive Officer (principal executive officer) of

BlackRock MuniYield Investment Fund

Date: December 23, 2014

By: /s/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock MuniYield Investment Fund

Date: December 23, 2014