

BLACKROCK MUNIYIELD PENNSYLVANIA QUALITY FUND  
Form N-Q  
December 22, 2010

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 811-07136

Name of Fund: BlackRock MuniYield Pennsylvania Quality Fund (MPA)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: Anne F. Ackerley, Chief Executive Officer, BlackRock  
MuniYield Pennsylvania Quality Fund, 55 East 52<sup>nd</sup> Street, New York, NY 10055

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

Date of fiscal year end: 07/31/2011

Date of reporting period: 10/31/2010

Item 1 Schedule of Investments

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## Schedule of Investments October 31, 2010 (Unaudited)

BlackRock MuniYield Pennsylvania Quality Fund (MPA)  
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
<b>Pennsylvania 107.1%</b>		
<b>Corporate 6.1%</b>		
Beaver County IDA, Refunding RB, VRDN, FirstEnergy, Mandatory Put Bonds, 3.38%, 1/01/35	\$ 1,200	\$ 1,197,132
Delaware County IDA Pennsylvania, Refunding RB, Water Facilities, Aqua Pennsylvania Inc. Project, Series B, AMT (NPFGC), 5.00%, 11/01/36	2,520	2,553,365
Northumberland County IDA, Refunding RB, Aqua Pennsylvania Inc. Project, AMT (NPFGC), 5.05%, 10/01/39	6,000	6,046,440
Pennsylvania Economic Development Financing Authority, RB, Waste Management Inc. Project, Series A, AMT, 5.10%, 10/01/27	1,200	1,218,120
		11,015,057
<b>County/City/Special District/School District 41.1%</b>		
Chambersburg Area School District, GO (NPFGC):		
5.25%, 3/01/26	2,115	2,296,594
5.25%, 3/01/27	2,500	2,703,050
City of Philadelphia Pennsylvania, GO, Refunding, Series A (AGM), 5.25%, 12/15/32	7,000	7,310,100
Connellsville Area School District, GO, Series B (AGM), 5.00%, 11/15/37	1,000	1,018,330
Delaware Valley Regional Financial Authority, RB, Series A (AMBAC), 5.50%, 8/01/28	2,230	2,417,721
East Stroudsburg Area School District, GO, Series A (NPFGC), 7.75%, 9/01/27	2,000	2,479,860

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Erie County Conventional Center Authority, RB (NPFGC), 5.00%, 1/15/36	8,850	9,044,700
Marple Newtown School District, GO (AGM), 5.00%, 6/01/31	3,500	3,739,050
North Allegheny School District, GO, Series C (AGM), 5.25%, 5/01/27	2,175	2,287,795
Northeastern School District York County, GO, Series B (NPFGC), 5.00%, 4/01/32	1,585	1,656,579
Philadelphia Redevelopment Authority, RB (NPFGC): Neighborhood Transformation, Series A, 5.50%, 4/15/22	1,750	1,815,712

	Par (000)	Value
Municipal Bonds		
Pennsylvania (continued)		
County/City/Special District/School District (concluded)		
Philadelphia Redevelopment Authority, RB (NPFGC) (concluded): Quality Redevelopment Neighborhood, Series B, AMT, 5.00%, 4/15/27	\$ 4,645	\$ 4,655,916
Philadelphia School District, GO, Refunding, Series A (BHAC), 5.00%, 6/01/34	1,000	1,086,470
Philadelphia School District, GO: Series B (FGIC), 5.63%, 8/01/12 (a)	7,500	8,175,525
Series E, 6.00%, 9/01/38	4,800	5,234,448
Reading School District, GO (AGM), 5.00%, 1/15/29	6,000	6,311,040
Scranton School District Pennsylvania, GO, Series A (AGM), 5.00%, 7/15/38	3,500	3,628,345
Shaler Area School District Pennsylvania, GO, CAB (Syncora), 4.81%, 9/01/30 (b)	6,145	2,331,106
Township of North Londonderry Pennsylvania, GO (AGM), 4.75%,		

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9/01/40	4,360	4,454,220
York City School District, GO, Series A (Syncora), 5.25%, 6/01/22	1,040	1,121,869
		73,768,430

Education 6.4%

Adams County IDA, Refunding RB, Gettysburg College, 5.00%, 8/15/26	100	108,032
Pennsylvania Higher Educational Facilities Authority, RB (NPFGC): Drexel University, Series A, 5.00%, 5/01/37	2,250	2,295,270
Series AE, 4.75%, 6/15/32	8,845	9,059,403
		11,462,705

Health 15.1%

Allegheny County Hospital Development Authority, RB, Health Center, UPMC Health, Series B (NPFGC), 6.00%, 7/01/26	2,000	2,389,720
County of Lehigh Pennsylvania, RB, Lehigh Valley Health Network, Series A (AGM), 5.00%, 7/01/33	7,995	8,214,863
Cumberland County Municipal Authority, RB, Diakon Lutheran, 6.38%, 1/01/39	500	528,440

Portfolio Abbreviations

To simplify the listings of portfolio holdings in the Schedule of Investments, the names and descriptions of many of the securities have been abbreviated according to the following list:

AGC	Assured Guaranty Corp.	GO	General Obligation Bonds
AGM	Assured Guaranty Municipal Corp.	HFA	Housing Finance Agency
AMBAC	American Municipal Bond Assurance Corp.	IDA	Industrial Development Authority
AMT	Alternative Minimum Tax (subject to)	LRB	Lease Revenue Bonds
BHAC	Berkshire Hathaway Assurance Corp.	NPFGC	National Public Finance Guarantee Corp.
CAB	Capital Appreciation Bonds	RB	Revenue Bonds
FGIC	Financial Guaranty Insurance Co.	S/F	Single Family
FHA	Federal Housing Administration	VRDN	Variable Rate Demand Notes

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Schedule of Investments<sup>(continued)</sup>

BlackRock MuniYield Pennsylvania Quality Fund (MPA)  
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
<b>Pennsylvania (continued)</b>		
<b>Health (concluded)</b>		
Lycoming County Authority, Refunding RB, Susquehanna Health System Project, Series A, 5.75%, 7/01/39	\$ 1,160	\$ 1,205,623
Monroe County Hospital Authority Pennsylvania, Refunding RB, Hospital, Pocono Medical Center, 5.13%, 1/01/37	1,265	1,260,383
Montgomery County Higher Education & Health Authority, Refunding RB, Abington Memorial Hospital, Series A, 5.13%, 6/01/33	1,760	1,786,171
Montgomery County IDA Pennsylvania, RB: Acts Retirement Life Community, Series A, 4.50%, 11/15/36	380	314,917
Acts Retirement Life Community, Series A-1, 6.25%, 11/15/29	235	250,348
New Regional Medical Center Project (FHA), 5.38%, 8/01/38	1,600	1,686,176
Pennsylvania Higher Educational Facilities Authority, RB, UPMC Health System, Series A, 6.00%, 1/15/11 (a)	3,000	3,066,480
Philadelphia Hospitals & Higher Education Facilities Authority, Refunding RB, Presbyterian Medical Center, 6.65%, 12/01/19 (c)	3,000	3,726,600
Sayre Health Care Facilities Authority, Refunding RB, Guthrie Health, Series A, 5.88%, 12/01/31	590	601,375
South Fork Municipal Authority, Refunding RB, Conemaugh Valley		

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Memorial, Series B (AGC), 5.38%,

7/01/35	2,000	2,077,020
		27,108,116

Housing 2.7%

Pennsylvania HFA, Refunding RB, AMT:

S/F Mortgage, Series 92-A, 4.75%,

4/01/31	740	739,970
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Series 99A, 5.15%, 4/01/38	800	850,016
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Philadelphia New Public Housing

Authority, RB, Series A (AGM), 5.50%,

12/01/18	3,000	3,182,760
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4,772,746

State 5.2%

Pennsylvania Turnpike Commission, RB,

Series C of 2003 Pennsylvania

Turnpike (NPFGC), 5.00%, 12/01/32	3,600	3,783,060
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State Public School Building Authority,

RB, CAB, Corry Area School District

(AGM) (b):

4.85%, 12/15/22	1,640	1,039,153
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4.87%, 12/15/23	1,980	1,194,178
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4.89%, 12/15/24	1,980	1,139,391
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4.92%, 12/15/25	1,770	963,623
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State Public School Building Authority,

Refunding RB, Harrisburg School

District Project, Series A (AGC), 5.00%,

11/15/33	1,200	1,263,900
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9,383,305

	Par	Value
	(000)	

Pennsylvania (concluded)

Transportation 12.3%

Delaware River Port Authority, RB,

Series D (AGC), 5.00%, 1/01/40	\$ 1,560	\$ 1,629,919
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Pennsylvania Turnpike Commission, RB:

Series A (AMBAC), 5.50%,

12/01/31	7,800	8,421,348
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Series A (AMBAC), 5.25%,

12/01/32	350	365,435
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Sub-Series B (AGM), 5.25%, 6/01/39	3,500	3,653,720
Philadelphia Authority for Industrial Development, Refunding RB, Philadelphia Airport System Project, Series A, AMT (NPFGC): 5.50%, 7/01/17	4,000	4,121,680
5.50%, 7/01/18	3,655	3,772,435
		21,964,537
<b>Utilities 18.2%</b>		
Allegheny County Sanitation Authority, Refunding RB, Series A (NPFGC), 5.00%, 12/01/30	5,000	5,105,550
City of Philadelphia Pennsylvania, RB: 1998 General Ordinance, 4th Series (AGM), 5.00%, 8/01/32	4,500	4,535,325
Ninth Series, 5.25%, 8/01/40	1,430	1,442,269
Series A, 5.25%, 1/01/36	700	736,498
Series C (AGM), 5.00%, 8/01/40	3,000	3,114,780
Delaware County IDA Pennsylvania, RB, Pennsylvania Suburban Water Co. Project, Series A, AMT (AMBAC), 5.15%, 9/01/32	5,500	5,574,910
Northampton Boro Municipal Authority, RB (NPFGC), 5.00%, 5/15/34	935	956,907
Pennsylvania Economic Development Financing Authority, RB, Philadelphia Biosolids Facility, 6.25%, 1/01/32	900	971,568
Pennsylvania IDA, Refunding RB, Economic Development (AMBAC), 5.50%, 7/01/20	7,000	7,340,200
Reading Area Water Authority Pennsylvania, RB (AGM), 5.00%, 12/01/27	2,680	2,856,157
		32,634,164
Total Municipal Bonds in Pennsylvania		192,109,060
<b>Guam 1.9%</b>		
<b>Transportation 1.4%</b>		
Guam International Airport Authority, Refunding RB, General, Series C, AMT (NPFGC), 5.00%, 10/01/23	2,500	2,488,150



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Utilities 0.5%

Guam Power Authority, Refunding RB, Series A (AGM), 5.00%, 10/01/37	850	861,926
Total Municipal Bonds in Guam		3,350,076

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Schedule of Investments<sup>(continued)</sup>

BlackRock MuniYield Pennsylvania Quality Fund (MPA)  
(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
<b>Puerto Rico 0.7%</b>		
<b>State 0.7%</b>		
Commonwealth of Puerto Rico, GO, Refunding, Public Improvement, Series A-4 (AGM), 5.25%, 7/01/30	\$ 1,270	\$ 1,337,437
Total Municipal Bonds 109.7%		196,796,573
Municipal Bonds Transferred to Tender		
Option Bond Trusts (d)		
<b>Pennsylvania 44.2%</b>		
<b>County/City/Special District/School District 4.2%</b>		
East Stroudsburg Area School District, GO, Refunding (AGM), 5.00%, 9/01/25	7,000	7,602,350
<b>Education 1.4%</b>		
University of Pittsburgh Pennsylvania, RB, Capital Project, Series B, 5.00%, 9/15/28	2,202	2,436,609
<b>Health 3.2%</b>		
Geisinger Authority, RB, Series A: 5.13%, 6/01/34	2,500	2,626,550
5.25%, 6/01/39	3,000	3,158,700
		5,785,250
<b>Housing 1.6%</b>		
Pennsylvania HFA, Refunding RB, Series 96-A, AMT, 4.70%, 10/01/37	3,000	2,937,060
<b>State 29.6%</b>		
Commonwealth of Pennsylvania, GO, First Series, 5.00%, 3/15/28	5,203	5,757,820
Pennsylvania Turnpike Commission, RB, Series C of 2003 Pennsylvania Turnpike (NPFGC), 5.00%, 12/01/32	10,000	10,508,500
State Public School Building Authority, LRB, Philadelphia School District		

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Project (AGM), 5.25%, 6/01/13 (a)	15,000	16,729,800
State Public School Building Authority, Refunding RB, School District of Philadelphia Project, Series B (AGM), 5.00%, 6/01/26	19,025	20,022,738
		53,018,858
<b>Transportation 4.2%</b>		
City of Philadelphia Pennsylvania, RB, Series A, AMT (AGM), 5.00%, 6/15/37	7,500	7,466,775
Total Municipal Bonds Transferred to Tender Option Bond Trusts 44.2%		79,246,902
Total Long-Term Investments (Cost \$265,320,197) 153.9%		276,043,475
Short-Term Securities	Shares	
BIF Pennsylvania Municipal Money Fund 0.00% (e)(f)	5,149,376	5,149,376
Total Short-Term Securities (Cost \$5,149,376) 2.9%		5,149,376
		Value
Total Investments (Cost \$270,469,573*) 156.8%		\$ 281,192,851
Other Assets Less Liabilities 1.7%		3,013,465
Liability for Trust Certificates, Including Interest		
Expense and Fees Payable (21.5)%		(38,486,980)
Preferred Shares, at Redemption Value (37.0)%		(66,354,894)
Net Assets Applicable to Common Shares 100.0%		\$ 179,364,442

\* The cost and unrealized appreciation (depreciation) of investments as of October 31, 2010, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 232,035,288
Gross unrealized appreciation	\$ 10,918,188
Gross unrealized depreciation	(205,761)
Net unrealized appreciation	\$ 10,712,427

(a) US 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

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at a premium to par.

(b) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.

(c) Security is collateralized by Municipal or US Treasury obligations.

(d) Securities represent bonds transferred to a tender option bond trust in exchange for which the Fund acquired residual interest certificates.

These securities serve as collateral in a financing transaction.

(e) Investments in companies considered to be an affiliate of the Fund during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

	Shares Held at July 31, 2010	Net Activity	Shares Held at October 31, 2010	Income
Affiliate				
BIF				
Pennsylvania				
Municipal				
Money Fund	8,508,134	(3,358,758)	5,149,376	--

(f) Represents the current yield as of report date.

For Fund compliance purposes, the Fund's sector classifications refer to any one or more of the sector sub-classifications used by one or more

widely recognized market indexes or rating group indexes, and/or as defined by Fund management. This definition may not apply for purposes of this report, which may combine such sector sub-classifications for reporting ease.

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## Schedule of Investments<sup>(concluded)</sup>

### BlackRock MuniYield Pennsylvania Quality Fund (MPA)

Fair Value Measurements - Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 price quotations in active markets/exchanges for identical assets and liabilities

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)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with investing in those securities. For information about the Fund's policy regarding valuation of investments and other significant accounting policies, please refer to the Fund's most recent financial statements as contained in its annual report.

The following table summarizes the inputs used as of October 31, 2010 in determining the fair valuation of the Fund's investments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments in				
Securities:				
Long-Term				
Investments <sup>1</sup>		\$276,043,475		\$ 276,043,475
Short-Term				
Securities	\$ 5,149,376			5,149,376
Total	\$ 5,149,376	\$276,043,475		\$ 281,192,851

<sup>1</sup> See above Schedule of Investments for values in each sector.

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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 Pennsylvania Quality Fund

By: /s/ Anne F. Ackerley

Anne F. Ackerley

Chief Executive Officer of

BlackRock MuniYield Pennsylvania Quality Fund

Date: December 22, 2010

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/ Anne F. Ackerley

Anne F. Ackerley

Chief Executive Officer (principal executive officer) of

BlackRock MuniYield Pennsylvania Quality Fund

Date: December 22, 2010

By: /s/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock MuniYield Pennsylvania Quality Fund

Date: December 22, 2010

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