BLACKROCK MUNIASSETS FUND, INC.

Form N-Q September 25, 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: 811-07642

Name of Fund: BlackRock MuniAssets Fund, Inc. (MUA)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniAssets Fund,

Inc., 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: 04/30/2015

Date of reporting period: 07/31/2014

Item 1 Schedule of Investments

## Schedule of Investments July 31, 2014 (Unaudited)

BlackRock MuniAssets Fund, Inc. (MUA)

	Par		
Municipal Bonds	(000)	Value	
Alabama 2.8%	(111)		
County of Jefferson Alabama, RB, Limited Obligation School, Series A:			
5.25%, 1/01/17	\$ 895	\$ 901,176	
5.25%, 1/01/19	2,000	2,017,800	
5.50%, 1/01/21	1,215	1,225,813	
4.75%, 1/01/25	3,145	3,069,174	
County of Jefferson Alabama Sewer, Refunding RB, Sub-Lien, Series D, 6.00%, 10/01/42	3,745	4,065,984	
State of Alabama Docks Department, Refunding RB, 6.00%, 10/01/40	2,165	2,488,646	
		13,768,593	
Alaska 1.1%			
Northern Tobacco Securitization Corp., Refunding RB, Tobacco Settlement, Asset-Backed, Series A:	1 405	1 220 420	
4.63%, 6/01/23	1,435	1,338,439	
5.00%, 6/01/32	1,500	1,152,645	
5.00%, 6/01/46	4,000	2,968,240	
		5,459,324	
Arizona 2.2%			
City of Phoenix Arizona IDA, RB:			
Great Hearts Academies Veritas Project, 6.30%, 7/01/42	500	517,670	
Great Hearts Academies Veritas Project, 6.40%, 7/01/47	425	440,568	
Legacy Traditional Schools Project, Series A, 6.75%, 7/01/44 (a)	1,000	1,101,340	
Series A, 6.50%, 7/01/34 (a)	570	620,365	
City of Show Low Arizona, Special Assessment Bonds, Improvement District No. 5, 6.38%, 1/01/15	50	50,894	
County of Maricopa Arizona IDA, RB, Arizona Charter School Project 1, Series A, 6.63%, 7/01/20	755	722,444	
Phoenix IDA Arizona, Refunding RB, America West Airlines, Inc. Project, AMT,			
6.30%, 10/01/14 (b)	5,750 <b>Par</b>	5,804,338	
	1 aı		
Municipal Bonds		Value	
Municipal Bonds Arizona (concluded)	(000)	Value	
Arizona (concluded)		Value	
Arizona (concluded) University Medical Center Corp. Arizona, RB,		<b>Value</b> \$ 947,854	
Arizona (concluded)	(000)		
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39	( <b>000</b> ) \$ 820	\$ 947,854	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1%	( <b>000</b> ) \$ 820	\$ 947,854 578,440	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water	\$ 820 500	\$ 947,854 578,440 10,783,913	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a)	( <b>000</b> ) \$ 820	\$ 947,854 578,440	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB:	\$ 820 500	\$ 947,854 578,440 10,783,913 1,285,570	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48	\$ 820 500	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33	\$ 820 500	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43	\$ 820 500 1,270 1,570 435	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33	\$ 820 500 1,270 1,570 435	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43 California Statewide Communities Development Authority, Refunding RB, American Baptist Homes	(000) \$ 820 500 1,270 1,570 435 975	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236 1,045,278	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43 California Statewide Communities Development Authority, Refunding RB, American Baptist Homes of the West, 6.25%, 10/01/39	(000) \$ 820 500 1,270 1,570 435 975 2,175	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236 1,045,278 2,332,013	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43 California Statewide Communities Development Authority, Refunding RB, American Baptist Homes of the West, 6.25%, 10/01/39 California Statewide Financing Authority, RB, Tobacco Settlement, Series B, 6.00%, 5/01/43	(000) \$ 820 500 1,270 1,570 435 975 2,175	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236 1,045,278 2,332,013	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43 California Statewide Communities Development Authority, Refunding RB, American Baptist Homes of the West, 6.25%, 10/01/39 California Statewide Financing Authority, RB, Tobacco Settlement, Series B, 6.00%, 5/01/43 City of Fontana California, Refunding RB, Special Tax Bonds, Community Facilities District	(000) \$ 820 500 1,270 1,570 435 975 2,175 1,650	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236 1,045,278 2,332,013 1,649,818	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43 California Statewide Communities Development Authority, Refunding RB, American Baptist Homes of the West, 6.25%, 10/01/39 California Statewide Financing Authority, RB, Tobacco Settlement, Series B, 6.00%, 5/01/43 City of Fontana California, Refunding RB, Special Tax Bonds, Community Facilities District No. 22-Sierra, Series H, 6.00%, 9/01/14 (b)	(000) \$ 820 500 1,270 1,570 435 975 2,175 1,650	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236 1,045,278 2,332,013 1,649,818	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43 California Statewide Communities Development Authority, Refunding RB, American Baptist Homes of the West, 6.25%, 10/01/39 California Statewide Financing Authority, RB, Tobacco Settlement, Series B, 6.00%, 5/01/43 City of Fontana California, Refunding RB, Special Tax Bonds, Community Facilities District No. 22-Sierra, Series H, 6.00%, 9/01/14 (b) City of San Jose California Hotel Tax, RB, Convention Center Expansion & Renovation Project:	(000) \$ 820 500 1,270 1,570 435 975 2,175 1,650 2,320	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236 1,045,278 2,332,013 1,649,818 2,331,113	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43 California Statewide Communities Development Authority, Refunding RB, American Baptist Homes of the West, 6.25%, 10/01/39 California Statewide Financing Authority, RB, Tobacco Settlement, Series B, 6.00%, 5/01/43 City of Fontana California, Refunding RB, Special Tax Bonds, Community Facilities District No. 22-Sierra, Series H, 6.00%, 9/01/14 (b) City of San Jose California Hotel Tax, RB, Convention Center Expansion & Renovation Project: 6.50%, 5/01/36	(000) \$ 820 500 1,270 1,570 435 975 2,175 1,650 2,320 900	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236 1,045,278 2,332,013 1,649,818 2,331,113 1,065,168	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43 California Statewide Communities Development Authority, Refunding RB, American Baptist Homes of the West, 6.25%, 10/01/39 California Statewide Financing Authority, RB, Tobacco Settlement, Series B, 6.00%, 5/01/43 City of Fontana California, Refunding RB, Special Tax Bonds, Community Facilities District No. 22-Sierra, Series H, 6.00%, 9/01/14 (b) City of San Jose California Hotel Tax, RB, Convention Center Expansion & Renovation Project: 6.50%, 5/01/36 6.50%, 5/01/42 City of Stockton California Public Financing Authority, RB, Delta Water Supply Project, Series A, 6.25%, 10/01/40	(000) \$ 820 500 1,270 1,570 435 975 2,175 1,650 2,320 900	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236 1,045,278 2,332,013 1,649,818 2,331,113 1,065,168	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43 California Statewide Communities Development Authority, Refunding RB, American Baptist Homes of the West, 6.25%, 10/01/39 California Statewide Financing Authority, RB, Tobacco Settlement, Series B, 6.00%, 5/01/43 City of Fontana California, Refunding RB, Special Tax Bonds, Community Facilities District No. 22-Sierra, Series H, 6.00%, 9/01/14 (b) City of San Jose California Hotel Tax, RB, Convention Center Expansion & Renovation Project: 6.50%, 5/01/36 6.50%, 5/01/42 City of Stockton California Public Financing Authority, RB, Delta Water Supply Project, Series A, 6.25%, 10/01/40 County of Riverside California Transportation Commission, RB, Senior Lien, Series A,	(000) \$ 820 500 1,270 1,570 435 975 2,175 1,650 2,320 900 2,220 375	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236 1,045,278 2,332,013 1,649,818 2,331,113 1,065,168 2,623,019 426,540	
Arizona (concluded) University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29 6.50%, 7/01/39  California 4.1% California Pollution Control Financing Authority, RB, County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45 (a) California School Finance Authority, RB: Alliance for College Ready Public School 2023 Union LLC Project, Series A, 6.40%, 7/01/48 Value Schools, 6.65%, 7/01/33 Value Schools, 6.90%, 7/01/43 California Statewide Communities Development Authority, Refunding RB, American Baptist Homes of the West, 6.25%, 10/01/39 California Statewide Financing Authority, RB, Tobacco Settlement, Series B, 6.00%, 5/01/43 City of Fontana California, Refunding RB, Special Tax Bonds, Community Facilities District No. 22-Sierra, Series H, 6.00%, 9/01/14 (b) City of San Jose California Hotel Tax, RB, Convention Center Expansion & Renovation Project: 6.50%, 5/01/36 6.50%, 5/01/42 City of Stockton California Public Financing Authority, RB, Delta Water Supply Project, Series A, 6.25%, 10/01/40	(000) \$ 820 500 1,270 1,570 435 975 2,175 1,650 2,320 900 2,220	\$ 947,854 578,440 10,783,913 1,285,570 1,753,486 463,236 1,045,278 2,332,013 1,649,818 2,331,113 1,065,168 2,623,019	

BLACKROCK MUNIASSETS FUND, INC.

JULY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

	Par	
Municipal Bonds	(000)	Value
California (concluded)	(000)	,
Tobacco Securitization Authority of Southern California, Refunding RB, Tobacco Settlement, Asset-Backed, Senior Series A-1, 4.75%, 6/01/25	\$ 2,000	\$ 1,934,240
		20,126,862
Colorado 0.5%		
Plaza Metropolitan District No. 1 Colorado, Refunding, Tax Allocation Bonds, Public Improvement		
Fee, Tax Increment, 5.00%, 12/01/40	575	581,998
Regional Transportation District, RB, Denver Transit Partners Eagle P3 Project, 6.00%, 1/15/34	1,500	1,667,205
		2,249,203
Connecticut 0.3%  Mahagan Triba of Indiana of Connecticut Refunding RR, Dublic Improvement Priority Distribution		
Mohegan Tribe of Indians of Connecticut, Refunding RB, Public Improvement, Priority Distribution, 6.25%, 1/01/31	1,370	1,370,973
Delaware 0.8%	1,570	1,370,973
County of Sussex Delaware, RB, NRG Energy, Inc., Indian River Power LLC Project,		
6.00%, 10/01/40	1,000	1,100,930
Delaware State EDA, RB, Exempt Facilities, Indian River Power LLC Project, 5.38%, 10/01/45	2,620	2,756,502
·		
		3,857,432
District of Columbia 1.1%		
District of Columbia, RB, Methodist Home District of Columbia, Series A:		
7.38%, 1/01/30	1,665	1,669,212
7.50%, 1/01/39	1,615	1,618,505
District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed,	4.055	
6.50%, 5/15/33	1,055	1,167,115
	Par	
M. Challer	(000)	¥7.1
Municipal Bonds District of Columbia (concluded)	(000)	Value
Metropolitan Washington Airports Authority, Refunding RB, Dulles Metrorail and Capital		
Improvement Project Series A, 5.00%, 10/01/53	\$ 1,000	\$ 1,028,710
Improvement Project Series P., Cloudy, Police P.	4 1,000	Ψ 1,020,710
		5,483,542
Florida 9.0%		3,463,342
Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43	1,600	1,617,760
Capital Trust Agency Inc, RB:First Mortgage Silver Creek St. Augustine Project Series A,	,	, , , , , , ,
8.25%, 1/01/44	515	514,938
8.25%, 1/01/49	1,105	1,098,624
County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A,		
8.13%, 5/15/44 (a)	2,510	2,692,552
County of Hillsborough Florida IDA, RB, National Gypsum Co., AMT:		
Series A, 7.13%, 4/01/30	2.000	
	3,000	3,006,210
Series B, 7.13%, 4/01/30  County of Palm Beach Florida Health Facilities Authority, RB. Acts Retirement Life Community	3,000 1,560	3,006,210 1,561,576
County of Palm Beach Florida Health Facilities Authority, RB, Acts Retirement Life Community,	1,560	1,561,576
County of Palm Beach Florida Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33	1,560 3,500	1,561,576 3,697,470
County of Palm Beach Florida Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 Greeneway Improvement District, RB, Special Assessment Bonds, 5.13%, 5/01/43	1,560 3,500	1,561,576 3,697,470
County of Palm Beach Florida Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33  Greeneway Improvement District, RB, Special Assessment Bonds, 5.13%, 5/01/43  Harbor Bay Community Development District Florida, Special Assessment Bonds, Series A,	1,560 3,500 2,000	1,561,576 3,697,470 2,022,200
County of Palm Beach Florida Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33  Greeneway Improvement District, RB, Special Assessment Bonds, 5.13%, 5/01/43  Harbor Bay Community Development District Florida, Special Assessment Bonds, Series A, 7.00%, 5/01/33  Jacksonville Economic Development Commission, RB, Gerdau Ameristeel U.S. Inc., AMT, 5.30%, 5/01/37	1,560 3,500 2,000	1,561,576 3,697,470 2,022,200
County of Palm Beach Florida Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33  Greeneway Improvement District, RB, Special Assessment Bonds, 5.13%, 5/01/43  Harbor Bay Community Development District Florida, Special Assessment Bonds, Series A, 7.00%, 5/01/33  Jacksonville Economic Development Commission, RB, Gerdau Ameristeel U.S. Inc., AMT, 5.30%, 5/01/37  Jacksonville Economic Development Commission, Refunding RB, Florida Proton Therapy Institute,	1,560 3,500 2,000 410 4,500	1,561,576 3,697,470 2,022,200 411,267 4,499,730
County of Palm Beach Florida Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33  Greeneway Improvement District, RB, Special Assessment Bonds, 5.13%, 5/01/43  Harbor Bay Community Development District Florida, Special Assessment Bonds, Series A, 7.00%, 5/01/33  Jacksonville Economic Development Commission, RB, Gerdau Ameristeel U.S. Inc., AMT, 5.30%, 5/01/37  Jacksonville Economic Development Commission, Refunding RB, Florida Proton Therapy Institute, Series A, 6.00%, 9/01/17	1,560 3,500 2,000 410	1,561,576 3,697,470 2,022,200 411,267
County of Palm Beach Florida Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33  Greeneway Improvement District, RB, Special Assessment Bonds, 5.13%, 5/01/43  Harbor Bay Community Development District Florida, Special Assessment Bonds, Series A, 7.00%, 5/01/33  Jacksonville Economic Development Commission, RB, Gerdau Ameristeel U.S. Inc., AMT, 5.30%, 5/01/37  Jacksonville Economic Development Commission, Refunding RB, Florida Proton Therapy Institute, Series A, 6.00%, 9/01/17  Lakewood Ranch Stewardship District, Refunding, Special Assessment Bonds, Lakewood Center &	1,560 3,500 2,000 410 4,500 905	1,561,576 3,697,470 2,022,200 411,267 4,499,730 1,014,433
County of Palm Beach Florida Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33  Greeneway Improvement District, RB, Special Assessment Bonds, 5.13%, 5/01/43  Harbor Bay Community Development District Florida, Special Assessment Bonds, Series A, 7.00%, 5/01/33  Jacksonville Economic Development Commission, RB, Gerdau Ameristeel U.S. Inc., AMT, 5.30%, 5/01/37  Jacksonville Economic Development Commission, Refunding RB, Florida Proton Therapy Institute, Series A, 6.00%, 9/01/17	1,560 3,500 2,000 410 4,500	1,561,576 3,697,470 2,022,200 411,267 4,499,730

BLACKROCK MUNIASSETS FUND, INC.

2

BlackRock MuniAssets Fund, Inc. (MUA)

	Par		
Municipal Bonds	(000)	Value	
Florida (concluded)	(***)		
Midtown Miami Community Development District, Refunding, Special Assessment Bonds: Series A, 5.00%, 5/01/37	\$ 850	\$ 856,528	
Midtown Miami Community Development District, Refunding, Special Assessment Bonds	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,. <u>-</u>	
(concluded): Series B, 5.00%, 5/01/37	500	504,550	
Palm Beach County Health Facilities Authority, Refunding RB, Series A, 7.25%, 6/01/34	500	551,860	
Santa Rosa Bay Bridge Authority, RB, 6.25%, 7/01/28 (c)(d)	4,739	1,990,112	
Tampa Palms Open Space and Transportation Community Development District, RB, Capital			
Improvement, Richmond Place Project, 7.50%, 5/01/18	1,075	1,076,139	
Tolomato Community Development District, Refunding, CAB, Special Assessment Bonds:			
0.00%, 5/01/39 (e)	250	183,085	
0.00%, 5/01/40 (e)	585	349,070	
6.65%, 5/01/40	910	924,587	
Convertible Series A-4, 0.00%, 5/01/40 (e)	305	134,715	
Tolomato Community Development District, Series A-1 (c)(d):	50	50,991	
Series 1, 6.65%, 5/01/40 Series 2, 6.65%, 5/01/40	2,110	1,235,405	
Series 3, 6.65%, 5/01/40	710	7	
Village Community Development District No. 9, Special Assessment Bonds:	710	,	
6.75%, 5/01/31	1,765	2,125,907	
7.00%, 5/01/41	2,865	3,493,810	
5.50%, 5/01/42	1,320	1,419,766	
	·		
		44,372,637	
Georgia 2.0%		44,372,037	
City of Atlanta Georgia, Tax Allocation Bonds, Princeton Lakes Project, 5.50%, 1/01/31	1,035	1,046,458	
County of Clayton Georgia, Tax Allocation Bonds, Ellenwood Project, 7.50%, 7/01/33	2,745	2,859,576	
County of Clayton Georgia Development Authority, Refunding RB, Delta Air Lines, Inc. Project,	•		
Series A, 8.75%, 6/01/29	3,365	4,180,070	
	Par		
Municipal Bonds	(000)	Value	
Georgia (concluded)	, í		
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life			
Community, Series A-2: 6.38%, 11/15/29	\$ 700	\$ 783,090	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life			
Community, Series A-2 (concluded): 6.63%, 11/15/39	880	970,552	
		9,839,746	
Guam 1.5%			
Guam Government Waterworks Authority, RB, Water & Wastewater System:			
5.25%, 7/01/33	1,450	1,579,094	
5.50%, 7/01/43	2,415	2,646,405	
Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System,			
6.00%, 7/01/15 (b)	1,265	1,329,502	
Territory of Guam, GO, Series A:	ć1.7	(70.7(1	
6.00%, 11/15/19	615	672,761	
7.00%, 11/15/39	1,115	1,230,458	
WILL 1.46		7,458,220	
Illinois 4.4%	2.450	2.405.046	
City of Chicago Illinois Board of Education, GO, Series A, 5.25%, 12/01/41	3,450	3,495,816	
Illinois Finance Authority, Refunding RB:	1 214	10	
CAB, Clare Water Tower, Series B, 0.00%, 5/15/50 (c)(d)(f)	1,214	12	
Clare Water Tower, Series A-7, 6.13%, 5/15/41 (c)(d)	3,129 4,000	4 184 720	
Friendship Village of Schaumburg, 7.25%, 2/15/45  Lutheran Home & Services Obligated Group, 5.63%, 5/15/42	·	4,184,720	
Lutheran Home & Services Obligated Group, 5.63%, 5/15/42	2,395	2,416,172	

Primary Health Care Centers Program, 6.60%, 7/01/24	1,175	1,186,327	
Roosevelt University Project, 6.50%, 4/01/44	4,170	4,441,592	
Railsplitter Tobacco Settlement Authority, RB:			
5.50%, 6/01/23	1,400	1,628,620	
6.00%, 6/01/28	710	826,383	

BLACKROCK MUNIASSETS FUND, INC.

JULY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

	Par	
Municipal Bonds	(000)	Value
Illinois (concluded)  Village of Lincolnships Illinois Chasial Tay Dands, Sadachusek Preisest, 6 25%, 2/01/24	\$ 1,800	\$ 1,837,386
Village of Lincolnshire Illinois, Special Tax Bonds, Sedgebrook Project, 6.25%, 3/01/34 Village of Wheeling Illinois, Tax Allocation Bonds, North Milwaukee/Lake-Cook TIF Project,	\$ 1,800	\$ 1,837,386
6.00%, 1/01/25	1,420	1,421,690
0.0076, 1101123	1,120	1,121,000
		21,438,749
Indiana 1.1%		,
City of Valparaiso Indiana, RB, Exempt Facilities, Pratt Paper LLC Project, AMT:		
6.75%, 1/01/34	825	917,590
7.00%, 1/01/44	2,000	2,229,760
Indiana Finance Authority, RB, Private Activity Bond, Ohio River Bridges East End Crossing Project, Series A, AMT:		
5.00%, 7/01/44	470	485,688
5.00%, 7/01/48	1,555	1,603,454
X 229		5,236,492
Iowa 3.3%		
Iowa Finance Authority, Refunding RB: Midwestern Disaster Area, Iowa Fertilizer Co. Project, 5.50%, 12/01/22	4,090	4,264,643
Midwestern Disaster Area, Iowa Fertilizer Co. Project, 5.25%, 12/01/25	2,190	2,308,107
Sunrise Retirement Community Project, 5.50%, 9/01/37	1,355	1,291,979
Sunrise Retirement Community Project, 5.75%, 9/01/43	2,115	2,060,983
Iowa Tobacco Settlement Authority, Refunding RB:	,	, ,
Asset-Backed, Series C, 5.63%, 6/01/46	1,565	1,293,347
Series B, 5.60%, 6/01/34	1,200	1,047,624
Series C, 5.38%, 6/01/38	4,900	3,997,273
		16,263,956
Kentucky 0.9%		
Kentucky Public Transportation Infrastructure Authority, RB, Downtown Crossing, First Tier,	4.000	4 470 000
Series A, 5.75%, 7/01/49	4,000 <b>Par</b>	4,470,000
	1 41	
Municipal Bonds	(000)	Value
Louisiana 2.7%	(000)	
Louisiana Local Government Environmental Facilities & Community Development Authority, RB,		
Westlake Chemical Corp. Project, 6.75%, 11/01/32	\$ 5,000	\$ 5,562,250
Louisiana Public Facilities Authority, RB, Belle Chasse Educational Foundation Project,		
6.75%, 5/01/41	1,855	2,051,148
Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, Series A, 5.25%, 5/15/35	5,570	5,919,127
Maine 0.7%		13,532,525
Maine Health & Higher Educational Facilities Authority, RB, Maine General Medical Center,		
6.75%, 7/01/41	2,955	3,228,840
Maryland 2.5%	_,,,,,,	-,,
County of Frederick Maryland, RB, Jefferson Technology Park Project, Series B, 7.13%, 7/01/43	2,840	3,095,202
Maryland EDC, RB, Transportation Facilities Project, Series A, 5.75%, 6/01/35	3,615	3,841,480
Maryland EDC, Refunding RB, CNX Marine Terminals, Inc., 5.75%, 9/01/25	4,785	5,223,593
		12,160,275
Massachusetts 1.0%		
Massachusetts Development Finance Agency, RB, Series A:	1.005	1.140.001
Foxborough Regional Charter School, 7.00%, 7/01/42	1,025	1,148,861
North Hill Communities Issue, 6.50%, 11/15/43  Massachusetts Development Finance Agency, Refunding RB:	2,020	2,070,661
wiassachuseus Develophicht l'ilianee Agency, Refuildilig RD:		

25	25,049	
80	80,158	
1,490	1,742,764	
	5.067.493	
	80	80 80,158 1,490 1,742,764

BLACKROCK MUNIASSETS FUND, INC.

BlackRock MuniAssets Fund, Inc. (MUA)

	Par		
Municipal Bonds	(000)	Value	
Michigan 2.7%			
City of Detroit Michigan, GO, Taxable Capital Improvement, Limited Tax (c)(d):	A 650	4.02.000	
Series A-1, 5.00%, 4/01/16	\$ 650	\$ 182,000	
Series A-2, 8.00%, 4/01/14	3,185	891,800	
City of Detroit Michigan Sewage Disposal System, Refunding RB, Senior Lien, Series A:			
5.00%, 7/01/32	1,610	1,563,551	
5.25%, 7/01/39	2,785	2,728,019	
Royal Oak Hospital Finance Authority, Refunding RB, William Beaumont Hospital, Series V, 8.25%, 9/01/18 (b)	6,310	8,138,575	
		13,503,945	
Minnesota 0.4%		15,505,945	
City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series A, 6.75%, 11/15/32	1,785	2 111 280	
Missouri 1.0%	1,765	2,111,280	
Kirkwood IDA Missouri, RB, Aberdeen Heights, Series A, 8.25%, 5/15/39	2,315	2,641,438	
•			
Lees Summit IDA, RB, John Knox Village Obligated Group Series 5.25%, 8/15/39	2,235	2,189,205	
		4,830,643	
New Jersey 4.3%			
New Jersey EDA, RB:			
AMT, Series A, 10.50%, 6/01/32	1,940	1,425,978	
Kapkowski Road Landfill Project, Series B, AMT, 6.50%, 4/01/31	2,250	2,615,872	
Patterson Charter School for Science and Technology, Inc. Project, Series A:, 6.10%, 7/01/44	1,085	1,134,769	
Team Academy Charter School Project, 6.00%, 10/01/43	1,530	1,668,312	
New Jersey EDA, RB (concluded):	2,220	2,000,000	
The Goethals Bridge Replacement Project, 5.38%, 1/01/43	2,155	2,286,132	
The Goodman Enage Replacement Flogerit, Prof. 10	Par	2,200,102	
Municipal Bonds	(000)	Value	
New Jersey (concluded)	()		
New Jersey Health Care Facilities Financing Authority, Refunding RB:			
St. Barnabas Health Care System, Series A, 5.63%, 7/01/37	\$ 2,650	\$ 2,877,847	
St. Joseph's Healthcare System, 6.63%, 7/01/38	4,090	4,421,576	
Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A:	.,050	., .21,070	
4.63%, 6/01/26	2,000	1,727,840	
5.00%, 6/01/29	3,735	3,120,929	
5.60%, 6101125	5,755	3,120,727	
		21,279,255	
New Mexico 0.5%			
New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical			
Center Project, 5.50%, 7/01/42	2,970	2,562,338	
New York 5.2%			
City of New York New York Industrial Development Agency, ARB, AMT:			
American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g)	1,765	1,950,431	
British Airways PLC Project, 7.63%, 12/01/32	4,130	4,151,476	
City of New York New York Industrial Development Agency, RB, Special Needs Facilities Pooled Program, Series C-1:			
6.50%, 7/01/24	610	609,915	
6.63%, 7/01/29	1,100	1,075,404	
County of Chautauqua New York Industrial Development Agency, RB, NRG Dunkirk Power Project,		· · ·	
5.88%, 4/01/42			
	3,695	4,009.371	
County of Westchester New York Healthcare Corp., RB, Senior Lien, Series A, 5.00%, 11/01/44	3,695 2,062	4,009,371 2,189,486	
County of Westchester New York Healthcare Corp., RB, Senior Lien, Series A, 5.00%, 11/01/44  Dutchess County Industrial Development Agency, Refunding RB, 5.00%, 8/01/46	2,062	2,189,486	
County of Westchester New York Healthcare Corp., RB, Senior Lien, Series A, 5.00%, 11/01/44  Dutchess County Industrial Development Agency, Refunding RB, 5.00%, 8/01/46  Metropolitan Transportation Authority, RB, Series C, 6.50%, 11/15/28			

BLACKROCK MUNIASSETS FUND, INC.

JULY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

	Par	
Municipal Bonds	(000)	Value
New York (concluded)	(000)	vaiue
New York Liberty Development Corp., Refunding RB, 2nd Priority, Bank of America Tower at 1		
Bryant Park Project, Class 3, 6.38%, 7/15/49	\$ 1,270	\$ 1,398,206
Niagara Area Development Corp., Refunding RB, Solid Waste Disposal Facility, Covanta Energy		
Project, Series A, AMT, 5.25%, 11/01/42	1,335	1,350,179
Port Authority of New York & New Jersey, ARB, Special Project, JFK International Air Terminal		
LLC Project, Series 8, 6.00%, 12/01/36	1,340	1,545,596
		25,617,544
North Carolina 1.6%		- / /-
North Carolina Medical Care Commission, Refunding RB, First Mortgage, Series A:		
Deerfield Project, 6.13%, 11/01/38	4,565	4,973,887
Retirement Facilities Whitestone Project, 7.75%, 3/01/31	1,000	1,123,680
Retirement Facilities Whitestone Project, 7.75%, 3/01/41	1,420	1,574,553
		7,672,120
North Dakota 0.5%		
City of Williston North Dakota, RB, Eagle Crest Apartments LLC Project, 7.75%, 9/01/38	2,155	2,229,929
Ohio 2.6%		
Buckeye Tobacco Settlement Financing Authority, RB, Asset-Backed Bonds, Series A-2:		
5.75%, 6/01/34	6,745	5,353,844
6.00%, 6/01/42	3,040	2,398,712
State of Ohio, RB, Ford Motor Co. Project, AMT, 5.75%, 4/01/35	4,880	4,985,798
		12,738,354
011.1 0.20		
Oklahoma 0.3%		
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community,		
	1,305	1,333,880
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community,	1,305 <b>Par</b>	1,333,880
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32	Par	
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds		1,333,880 <b>Value</b>
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5%	Par	
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A:	Par (000)	Value
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35	Par (000) \$ 1,815	<b>Value</b> \$ 1,874,895
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42	Par (000)	Value
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A,	Par (000) \$ 1,815 4,170	Value \$ 1,874,895 4,280,130
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds  Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36	Par (000) \$ 1,815	<b>Value</b> \$ 1,874,895
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds  Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A,	Par (000) \$ 1,815 4,170	Value \$ 1,874,895 4,280,130
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds  Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36  County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran,	(000) \$ 1,815 4,170 2,000	Value \$ 1,874,895 4,280,130 2,031,140
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds  Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/35 5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36  County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39	(000) \$ 1,815 4,170 2,000	Value \$ 1,874,895 4,280,130 2,031,140
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds  Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/35 5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36  County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39  County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series	Par (000)  \$ 1,815   4,170   2,000   6,165	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5% Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42 City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36 County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39 County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26 County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church	Par (000)  \$ 1,815   4,170   2,000   6,165	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5% Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42 City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36 County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39 County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26 County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds  Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35  5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36  County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39  County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26  County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32  County of Northampton Pennsylvania IDA, Route 33 Project, Tax Allocation Bonds, 7.00%, 7/01/32  Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A,	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160   2,705   2,110	\$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323 2,253,923
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds  Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35  5.00%, 5/01/35  5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36  County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39  County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26  County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160   2,705	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds  Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35  5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36  County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39  County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26  County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32  County of Northampton Pennsylvania IDA, Route 33 Project, Tax Allocation Bonds, 7.00%, 7/01/32  Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A,	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160   2,705   2,110	\$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323 2,253,923
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds  Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35  5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36  County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39  County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26  County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32  County of Northampton Pennsylvania IDA, Route 33 Project, Tax Allocation Bonds, 7.00%, 7/01/32  Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A,	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160   2,705   2,110	\$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323 2,253,923
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds  Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35  5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36  County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39  County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26  County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32  County of Northampton Pennsylvania IDA, Route 33 Project, Tax Allocation Bonds, 7.00%, 7/01/32  Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A,	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160   2,705   2,110	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323 2,253,923 1,250,462
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36  County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39  County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26  County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32  County of Northampton Pennsylvania IDA, Route 33 Project, Tax Allocation Bonds, 7.00%, 7/01/32  Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A, AMT, 6.25%, 11/01/27	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160   2,705   2,110	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323 2,253,923 1,250,462
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/35 5.00%, 5/01/42  City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36  County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39  County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26  County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32  County of Northampton Pennsylvania IDA, Route 33 Project, Tax Allocation Bonds, 7.00%, 7/01/32  Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A, AMT, 6.25%, 11/01/27	Par (000)  \$ 1,815	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323 2,253,923 1,250,462 22,235,829
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5% Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42 City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36 County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39 County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26 County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32 County of Northampton Pennsylvania IDA, Route 33 Project, Tax Allocation Bonds, 7.00%, 7/01/32 Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A, AMT, 6.25%, 11/01/27  Puerto Rico 1.1% Commonwealth of Puerto Rico, GO, Refunding Series A, 8.00%, 7/01/35 Rhode Island 0.8% Central Falls Detention Facility Corp., Refunding RB, 7.25%, 7/15/35 (c)(d)	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160   2,705   2,110   1,250   6,000   4,190	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323 2,253,923 1,250,462 22,235,829
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5% Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42 City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36 County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39 County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26 County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32 County of Northampton Pennsylvania IDA, Route 33 Project, Tax Allocation Bonds, 7.00%, 7/01/32 Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A, AMT, 6.25%, 11/01/27  Puerto Rico 1.1% Commonwealth of Puerto Rico, GO, Refunding Series A, 8.00%, 7/01/35 Rhode Island 0.8%	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160   2,705   2,110   1,250   6,000	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323 2,253,923 1,250,462 22,235,829 5,400,060
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42 City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36 County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39 County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26 County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32 County of Northampton Pennsylvania IDA, Route 33 Project, Tax Allocation Bonds, 7.00%, 7/01/32 Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A, AMT, 6.25%, 11/01/27  Puerto Rico 1.1% Commonwealth of Puerto Rico, GO, Refunding Series A, 8.00%, 7/01/35 Rhode Island 0.8% Central Falls Detention Facility Corp., Refunding RB, 7.25%, 7/15/35 (c)(d)	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160   2,705   2,110   1,250   6,000   4,190	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323 2,253,923 1,250,462 22,235,829 5,400,060 2,499,712
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32  Municipal Bonds Pennsylvania 4.5%  Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A: 5.00%, 5/01/35 5.00%, 5/01/42 City of Philadelphia, Pensylvania Hospitals & Higher Education Facilities Authority, RB, Series A, 5.63%, 7/01/36 County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39 County of Lancaster Pennsylvania Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26 County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church Homes, 5.13%, 7/01/32 County of Northampton Pennsylvania IDA, Route 33 Project, Tax Allocation Bonds, 7.00%, 7/01/32 Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A, AMT, 6.25%, 11/01/27  Puerto Rico 1.1% Commonwealth of Puerto Rico, GO, Refunding Series A, 8.00%, 7/01/35 Rhode Island 0.8% Central Falls Detention Facility Corp., Refunding RB, 7.25%, 7/15/35 (c)(d)	Par (000)  \$ 1,815   4,170   2,000   6,165   1,160   2,705   2,110   1,250   6,000   4,190	Value  \$ 1,874,895 4,280,130 2,031,140 6,656,350 1,217,606 2,671,323 2,253,923 1,250,462 22,235,829 5,400,060 2,499,712

State of South Carolina Public Service Authority, RB, Santee Cooper, Series A, 5.50%, 12/01/54

3,775

4,179,604

6 BLACKROCK MUNIASSETS FUND, INC.

BlackRock MuniAssets Fund, Inc. (MUA)

	Par		
Municipal Bonds	(000)	Value	
Texas 12.3%	(***)		
Brazos River Authority, Refunding RB, Texas Utility Co., Series A, AMT, 7.70%, 4/01/33 (c)(d)	\$ 5,080	\$ 469,900	
Central Texas Regional Mobility Authority, Refunding RB:			
CAB, 0.00%, 1/01/28 (f)	1,000	536,180	
CAB, 0.00%, 1/01/29 (f)	2,000	1,013,640	
CAB, 0.00%, 1/01/30 (f)	1,170	560,582	
CAB, 0.00%, 1/01/33 (f)	3,690	1,475,410	
CAB, 0.00%, 1/01/34 (f)	4,000	1,495,960	
Senior Lien, 5.75%, 1/01/25	675	744,910	
Senior Lien, 6.25%, 1/01/46	2,210	2,480,239	
Sub-Lien, 5.00%, 1/01/42	330	338,765	
City of Houston Texas Airport System, RB, Special Facilities, Continental Airlines, Inc., AMT, Series A, 6.63%, 7/15/38	2,890	3,215,847	
City of Houston Texas Airport System, Refunding ARB, United Airlines, Inc. Terminal E Project,	,	, ,	
AMT:	1 140	1 172 764	
4.75%, 7/01/24 5.00%, 7/01/20	1,140	1,172,764	
5.00%, 7/01/29 Clifton Higher Education Finance Corp., ERB, Idea Public Schools:	910	918,399	
5.50%, 8/15/31	955	1,037,837	
5.75%, 8/15/31	720	789,221	
Clifton Higher Education Finance Corp., Refunding RB, Uplift Education, Series A, 4.40%, 12/01/47	810	726,667	
County of Bexar Texas Health Facilities Development Corp., RB, Army Retirement Residence	010	720,007	
Project, 6.20%, 7/01/45	5,040	5,496,876	
County of Harris Texas Cultural Education Facilities Finance Corp., RB, 1st Mortgage, Brazos	5,010	3,170,070	
Presbyterian Homes, Inc. Project, Series B, 7.00%, 1/01/48	475	527,188	
County of Harris Texas-Houston Sports Authority, Refunding RB, CAB, Senior Lien, Series A		,	
(NPFGC), 0.00%, 11/15/38 (f)	10,000	2,521,500	
County of Matagorda Texas Navigation District No. 1, Refunding RB, Central Power & Light Co.			
Project, Series A, 6.30%, 11/01/29	2,090	2,384,335	
County of Tarrant Texas Cultural Education Facilities Finance Corp., RB, Series A:			
CC Young Memorial Home, 8.00%, 2/15/38	1,745	1,928,068	
	Par		
Municipal Bonds	(000)	Value	
Texas (continued)	()		
County of Tarrant Texas Cultural Education Facilities Finance Corp., RB, Series A (concluded):			
Senior Living Center Project, 8.25%, 11/15/44	\$ 4,200	\$ 3,610,362	
County of Travis Texas Health Facilities Development Corp., Refunding RB, 7.13%, 1/01/46	3,080	3,295,015	
Decatur Hospital Authority, Refunding RB, Wise Regional Health System Series A,			
5.00%, 9/01/34	225	226,053	
5.25%, 9/01/44	735	741,269	
La Vernia Higher Education Finance Corp., RB, Kipp, Inc., Series A, 6.38%, 8/15/44	860	960,672	
New Hope Cultural Education Facilities Corp., RB, Stephenville LLC Tarleton State University			
Project:			
5.88%, 4/01/36	1,210	1,343,814	
6.00%, 4/01/45	1,845	2,052,876	
North Texas Education Finance Corp., ERB, Uplift Education, Series A, 5.25%, 12/01/47	1,600	1,697,904	
North Texas Tollway Authority, RB, CAB, Special Project System, Series B, 0.00%, 9/01/37 (f)	2,110	629,835	
North Texas Tollway Authority, Refunding RB, 2nd Tier System, Series F, 6.13%, 1/01/31 Red River Health Facilities Development Corp., First MRB, Project:	4,425	4,693,376	
Eden Home, Inc., 7.25%, 12/15/42	2,895	2,738,930	
Wichita Falls Retirement Foundation, 5.13%, 1/01/41	900	841,068	
Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien:		,	
LBJ Infrastructure Group LLC, LBJ Freeway Managed Lanes Project, 7.00%, 6/30/40	3,775	4,483,228	
1	,	, , ,	

BLACKROCK MUNIASSETS FUND, INC.

JULY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

	Par		
Municipal Bonds	(000)	Value	
Texas (concluded)	(000)	v uiuc	
Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien (concluded):			
NTE Mobility Partners LLC, North Tarrant Express Managed Lanes Project, 6.88%, 12/31/39	\$ 3,000	\$ 3,521,730	
		60,670,420	
Utah 0.6%			
State of Utah Charter School Finance Authority, Revenue Improvement and Refunding RB, Entheos	2050	2.110.051	
Academy Series A 6.75%, 10/15/43	2,950	3,119,861	
Vermont 0.2%  Vermont EDA, Refunding, MRB, Wake Robin Corp. Project, 5.40%, 5/01/33	770	787,240	
Virginia 3.0%	770	767,240	
County of Fairfax Virginia EDA, Refunding RB:			
Goodwin House, Inc., 5.13%, 10/01/42	2,500	2,561,800	
Vinson Hall LLC, Series A, 5.00%, 12/01/42	1,330	1,337,794	
Mosaic District Community Development Authority, Special Assessment, Series A:			
6.63%, 3/01/26	1,485	1,686,529	
6.88%, 3/01/36	1,300	1,486,901	
Virginia Small Business Financing Authority, RB, Senior Lien, Elizabeth River Crossings OpCo LLC	6.005	7.500.520	
Project, AMT, 6.00%, 1/01/37	6,805	7,588,528	
		14 ((1 550	
Washington 0.00		14,661,552	
Washington 0.6% County of King Washington Public Hospital District No. 4, GO, Refunding, Snoqualmie Valley			
Hospital, 7.00%, 12/01/40	1,455	1,542,795	
Greater Wenatchee Regional Events Center Public Facilities District, Refunding RB, Series A,	1,133	1,3 12,7 73	
5.50%, 9/01/42	1,495	1,534,139	
		3,076,934	
	Par	3,076,934	
	Par	3,076,934	
Municipal Bonds	Par (000)	3,076,934 <b>Value</b>	
Wisconsin 0.4%		, , ,	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A:	(000)	Value	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44	(000)	<b>Value</b> \$ 427,820	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49	(000)	Value	
Wisconsin 0.4%  Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49  Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc.,	(000)	<b>Value</b> \$ 427,820	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A:	(000)	<b>Value</b> \$ 427,820	
Wisconsin 0.4%  Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49  Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc.,	(000) \$ 430 270	Value \$ 427,820 273,283	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29	(000) \$ 430 270	Value \$ 427,820 273,283 478,839	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29	(000) \$ 430 270	Value \$ 427,820 273,283 478,839 984,644	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39	(000) \$ 430 270	Value \$ 427,820 273,283 478,839	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29	(000) \$ 430 270	Value \$ 427,820 273,283 478,839 984,644 2,164,586	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39	(000) \$ 430 270	Value \$ 427,820 273,283 478,839 984,644 2,164,586	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%	(000) \$ 430 270	Value \$ 427,820 273,283 478,839 984,644 2,164,586	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%  Municipal Bonds Transferred to	(000) \$ 430 270	Value \$ 427,820 273,283 478,839 984,644 2,164,586	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%  Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (h)	(000) \$ 430 270	Value \$ 427,820 273,283 478,839 984,644 2,164,586	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%  Municipal Bonds Transferred to	(000) \$ 430 270	Value \$ 427,820 273,283 478,839 984,644 2,164,586	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%  Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (h) Colorado 2.5% Colorado Health Facilities Authority, Refunding RB, Sisters of Leavenworth Health System, Series A, 5.00%, 1/01/40	(000) \$ 430 270	Value \$ 427,820 273,283 478,839 984,644 2,164,586	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%  Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (h) Colorado 2.5% Colorado Health Facilities Authority, Refunding RB, Sisters of Leavenworth Health System, Series A, 5.00%, 1/01/40 District of Columbia 1.5%	(000) \$ 430 270 425 855	Value  \$ 427,820 273,283  478,839 984,644  2,164,586 420,433,734	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%  Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (h) Colorado 2.5% Colorado Health Facilities Authority, Refunding RB, Sisters of Leavenworth Health System, Series A, 5.00%, 1/01/40 District of Columbia 1.5% District of Columbia Water & Sewer Authority, Refunding RB, Senior Lien, Series A,	(000) \$ 430 270 425 855	Value  \$ 427,820 273,283  478,839 984,644  2,164,586 420,433,734	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%  Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (h) Colorado 2.5% Colorado Health Facilities Authority, Refunding RB, Sisters of Leavenworth Health System, Series A, 5.00%, 1/01/40 District of Columbia 1.5% District of Columbia Water & Sewer Authority, Refunding RB, Senior Lien, Series A, 6.00%, 10/01/35 (i)	(000) \$ 430 270 425 855	Value  \$ 427,820 273,283  478,839 984,644  2,164,586 420,433,734	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%  Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (h) Colorado 2.5% Colorado Health Facilities Authority, Refunding RB, Sisters of Leavenworth Health System, Series A, 5.00%, 1/01/40 District of Columbia 1.5% District of Columbia Water & Sewer Authority, Refunding RB, Senior Lien, Series A, 6.00%, 10/01/35 (i) Florida 3.4%	(000) \$ 430 270 425 855	Value  \$ 427,820 273,283  478,839 984,644  2,164,586 420,433,734	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%  Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (h) Colorado 2.5% Colorado Health Facilities Authority, Refunding RB, Sisters of Leavenworth Health System, Series A, 5.00%, 1/01/40 District of Columbia 1.5% District of Columbia Water & Sewer Authority, Refunding RB, Senior Lien, Series A, 6.00%, 10/01/35 (i) Florida 3.4% County of Miami-Dade Florida, Refunding RB, Miami International Airport, Series A, AMT (AGC),	(000) \$ 430 270 425 855	Value  \$ 427,820 273,283  478,839 984,644  2,164,586 420,433,734  12,258,857  7,681,242	
Wisconsin 0.4% Public Finance Authority, RB, Rose Villa Project Series A: 5.75%, 11/15/44 6.00%, 11/15/49 Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc., Series A: 7.25%, 9/15/29 7.63%, 9/15/39  Total Municipal Bonds 85.4%  Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (h) Colorado 2.5% Colorado Health Facilities Authority, Refunding RB, Sisters of Leavenworth Health System, Series A, 5.00%, 1/01/40 District of Columbia 1.5% District of Columbia Water & Sewer Authority, Refunding RB, Senior Lien, Series A, 6.00%, 10/01/35 (i) Florida 3.4%	(000) \$ 430 270 425 855	Value  \$ 427,820 273,283  478,839 984,644  2,164,586 420,433,734	

City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien, Series A (NPFGC),			
5.00%, 1/01/33 (i)	6,510	6,772,027	
Illinois Finance Authority, RB, The Carle Foundation, Series A (AGM), 6.00%, 8/15/41	7,180	8,171,199	
		14,943,226	
New York 13.5%			
City of New York New York Municipal Water Finance Authority, Refunding RB, Water & Sewer			
System, 2nd General Resolution:			
Fiscal 2013, Series CC, 5.00%, 6/15/47	14,181	15,407,315	
Series EE, 5.50%, 6/15/43	7,605	8,967,664	
Series HH, 5.00%, 6/15/31 (i)	8,609	9,612,448	

BLACKROCK MUNIASSETS FUND, INC.

BlackRock MuniAssets Fund, Inc. (MUA)

(Percentages shown are based on Net Assets)

Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (h) New York (concluded)	Par (000)	Value
Hudson Yards Infrastructure Corp., RB, Senior Bond, Fiscal 2012, Series A, 5.75%, 2/15/47 (i) New York Liberty Development Corp., RB, 1 World Trade Center Port Authority Consolidated,	\$ 4,520	\$ 5,141,667
5.25%, 12/15/43  New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (i)	18,105 6,600	19,949,537 7.398.864
5.15 lb, 11115/51 (I)	0,000	
YV. 14		66,477,495
Washington 1.8%	= 0.44	0.405.050
City of Bellingham Washington, RB, Water & Sewer, 5.00%, 8/01/40  Total Municipal Bonds Transferred to	7,966	8,687,053
Tender Option Bond (TOB) Trusts 25.7%		126,624,523
Total Long-Term Investments		
(Cost \$523,719,265) 111.1%		547,058,257
Short-Term Securities	Shares	Value
FFI Institutional Tax-Exempt Fund, 0.03% (j)(k)	12,437,792	\$ 12,437,792
Total Short-Term Securities		
(Cost \$12,437,792) 2.5%		12,437,792
Total Investments (Cost \$536,157,057*) 113.6%		559,496,049
Liabilities in Excess of Other Assets (28.1)%		(138,227,006)
Liability for TOB Trust Certificates, Including Interest		
Expense and Fees Payable 14.5%		71,166,180
Net Assets Applicable to Common Shares 100.0%		\$ 492,435,223

<sup>\*</sup> As of July 31, 2014, gross unrealized appreciation and depreciation based on cost for federal income tax purposes were as follows:

Tax cost	\$ 464,857,009
Gross unrealized appreciation	\$ 43,514,794
Gross unrealized depreciation	(20,020,259)
Net unrealized appreciation	\$ 23,494,535

#### Notes to Schedule of Investments

- (a) Security exempt from registration pursuant to Rule 144A under the Securities Act of 1933, as amended. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (b) 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.
- (c) Issuer filed for bankruptcy and/or is in default of principal and/or interest payments.

(d)	Non-income producing security.				
(e)	e) Represents a step-up bond that pays an initial coupon rate for the first perior report date.	d and then a higher coupo	n rate for the follow	ring periods. Rate show	wn is as of
(f)	Zero-coupon bond.				
(g)	g) Variable rate security. Rate shown is as of report date.				
(h)	n) Represent bonds transferred to a TOB. In exchange for which the Fund rec- financing transaction.	eived cash and residual int	erest certificates. The	hese bonds serve as co	llateral in a
(i)	All or a portion of security is subject to a recourse agreement, which may rebetween the TOB trust certificates and proceeds received from the sale of the maximum potential amount the Fund could ultimately be required to pay un \$21,570,076.	ne security contributed to t	he TOB trust. In the	case of a shortfall, the	e aggregate
	) Investments in issuers considered to be an affiliate of the Fund during the p Company Act of 1940, as amended, were as follows:	eriod ended July 31, 2014,	for purposes of Sec	ction 2(a)(3) of the Inv	restment
Affi	ffiliate	Shares Held at April 30, 2014	Net Activity	Shares Held at July 31, 2014	Income
	FI Institutional Tax-Exempt Fund	259,703	12,178,089	12,437,792	\$ 779

JULY 31, 2014

BLACKROCK MUNIASSETS FUND, INC.

BlackRock MuniAssets Fund, Inc. (MUA)

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

#### Portfolio Abbreviations

AGC Assured Guarantee Corp.
AGM Assured Guaranty Municipal Corp.
AMT Alternative Minimum Tax (subject to)
ARB Airport Revenue Bonds

Airport Revenue Bonds CAB Capital Appreciation Bonds **EDA** Economic Development Authority **EDC** Economic Development Corp. **ERB** Education Revenue Bonds **GARB** General Airport Revenue Bonds GO General Obligation Bonds **IDA** Industrial Development Authority MRB Mortgage Revenue Bonds

**NPFGC** National Public Finance Guarantee Corp.

RB Revenue Bonds

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

#### Contracts

Purchased/				Notional Unrealized	
Sold	Issue	Exchange	Expiration	Value Appreciation	
(375)	10-Year U.S. Treasury Note	Chicago Board of Trade	September 2014	\$ 46,728,516 \$ 403,772	

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 as follows:

Level 1 unadjusted price quotations 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)

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.

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. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investment and derivative financial instrument and is not necessarily an indication of the risks associated with investing in those securities. 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.

10 BLACKROCK MUNIASSETS FUND, INC.

BlackRock MuniAssets Fund, Inc. (MUA)

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

	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments <sup>1</sup>		\$ 547,058,257		\$ 547,058,257
Short-Term Securities	\$ 12,437,792			12,437,792
Total	\$ 12.437.792	\$ 547.058.257		\$ 559,496,049
Total	\$ 12,437,792	\$ 547,058,257		\$ 559,496,049

<sup>&</sup>lt;sup>1</sup> See above Schedule of Investments for values in each state or Political Subdivision.

	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments <sup>2</sup>				
Assets:				
Interest rate contracts	\$ 403,772			\$ 403,772

<sup>&</sup>lt;sup>2</sup> 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 July 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	\$ 512,000			\$ 512,000
Liabilities:				
Bank overdraft		\$ (258,031)		(258,031)
TOB trust certificates		(71,144,505)		(71,144,505)
Total	\$ 512,000	\$ (71,402,536)		\$ (70,890,536)

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

BLACKROCK MUNIASSETS FUND, INC.

JULY 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.
- 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 MuniAssets Fund, Inc.

By: /s/ John M. Perlowski John M. Perlowski

Chief Executive Officer (principal executive officer) of

BlackRock MuniAssets Fund, Inc.

Date: September 25, 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 MuniAssets Fund, Inc.

Date: September 25, 2014

By: /s/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock MuniAssets Fund, Inc.

Date: September 25, 2014