BLACKROCK MUNIASSETS FUND, INC.

Form N-Q March 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 52nd Street, New York, NY 10055

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

Date of fiscal year end: 04/30/2014

Date of reporting period: 01/31/2014

Item 1 Schedule of Investments

Schedule of Investments January 31, 2014 (Unaudited)

BlackRock MuniAssets Fund, Inc. (MUA)

(Percentages shown are based on Net Assets)

	Par	
Municipal Bonds	(000)	Value
Alabama State Docks Department, Refunding RB, 6.00%, 10/01/40	\$ 2,165	\$ 2,432,204
County of Jefferson Alabama, RB, Limited Obligation School, Series A:	\$ 2,103	\$ 2,432,204
5.25%, 1/01/17	895	899,198
5.25%, 1/01/19	2,000	2,007,620
5.50%, 1/01/21	1,215	1,214,891
4.75%, 1/01/25	3,145	2,957,118
County of Jefferson Alabama Sewer, Refunding RB:	5,145	2,737,110
Convertible CAB, Senior Lien, Series C (AGM), 0.00%, 10/01/38 (a)	615	345,950
Convertible CAB, Senior Lien, Series C (AGM), 0.00%, 10/01/42 (a)	535	297,059
Senior Lien, Series A (AGM), 5.00%, 10/01/44	10	9,739
Senior Lien, Series A (AGM), 5.25%, 10/01/48	1,605	1,579,689
Sub-Lien, Series D, 6.00%, 10/01/42	3,745	3,694,180
		15,437,648
Alaska 1.2%		
Northern Tobacco Securitization Corp., Refunding RB, Tobacco Settlement, Asset-Backed, Series A:		
4.63%, 6/01/23	1,610	1,513,159
5.00%, 6/01/32	1,500	1,147,950
5.00%, 6/01/46	4,000	2,757,400
		5,418,509
Arizona 1.9%		2, .10,200
City of Phoenix Arizona IDA, RB, Great Hearts Academies Veritas Project:		
6.30%, 7/01/42	500	488,090
6.40%, 7/01/47	425	415,127
City of Show Low Arizona, Special Assessment Bonds, Improvement District No. 5, 6.38%, 1/01/15	50	50,733
County of Maricopa Arizona IDA, RB, Arizona Charter School Project 1, Series A, 6.63%, 7/01/20	865	818,532
Phoenix IDA Arizona, Refunding RB, America West Airlines, Inc. Project, AMT, 6.30%, 4/01/23	5,750	5,750,805
	Par	
Municipal Bonds	(000)	Value
Arizona (concluded)		
University Medical Center Corp., RB, 6.50%, 7/01/39	\$ 500	\$ 542,325
University Medical Center Corp. Arizona, RB, 6.25%, 7/01/29	820	890,315
		8,955,927
California 4.6%		0,733,721
California Pollution Control Financing Authority, RB:		
County of San Diego California Water Authority Desalination Project Pipeline, 5.00%, 11/21/45	1,270	1,182,192
Poseidon Resources (Channel Side) LP Desalination Project, AMT, 5.00%, 7/01/37 (b)	1,065	966,679
California School Finance Authority, RB:	1,000	,00,07
Alliance for College Ready Public School - 2023 Union LLC Project, Series A, 6.40%, 7/01/48	1,570	1,595,167
Value Schools, 6.65%, 7/01/33	435	440,455
Value Schools, 6.90%, 7/01/43	975	985,062
California Statewide Communities Development Authority, Refunding RB, American Baptist Homes of the	7.0	,000,00 2
West, 6.25%, 10/01/39	2,175	2,276,986
City of Fontana California, Refunding RB, Special Tax Bonds, Community Facilities District No. 22-Sierra,	,	, , . 00
Series H, 6.00%, 9/01/34	2,320	2,329,489
City of San Jose California Hotel Tax, RB, Convention Center Expansion & Renovation Project:	,===	, ,
6.50%, 5/01/36	900	1,038,483
6.50%, 5/01/42	2,220	2,546,562
City of Stockton California Public Financing Authority, RB, Delta Water Supply Project, Series A, 6.25%,	, == 0	, ,- - -
10/01/40	375	406,515
County of Riverside California Transportation Commission, RB, Senior Lien, Series A, 5.75%, 6/01/48	2,885	2,953,346
,	_,500	-,,0

BlackRock MuniAssets Fund, Inc. (MUA)

	Par		
Municipal Bonds	(000)	Value	
California (concluded)			
County of San Marcos California Unified School District, GO, CAB, Election of 2010, Series B (c):	.	4.246.000	
0.00%, 8/01/40	\$ 5,000	\$ 1,246,900	
0.00%, 8/01/51	12,050	1,555,293	
Tobacco Securitization Authority of Southern California, Refunding RB, Tobacco Settlement,	2 205	2 100 112	
Asset-Backed, Senior Series A-1, 4.75%, 6/01/25	2,205	2,108,112	
		21,631,241	
Colorado 1.5%			
Plaza Metropolitan District No. 1, Tax Allocation Bonds, Public Improvement Fee, Tax Increment,			
8.00%, 6/01/14 (d)	4,850	5,025,230	
Plaza Metropolitan District No. 1 Colorado, Refunding, Tax Allocation Bonds, Public Improvement Fee,	575	544.074	
Tax Increment, 5.00%, 12/01/40	575	544,974	
Regional Transportation District, RB, Denver Transit Partners Eagle P3 Project, 6.00%, 1/15/34	1,500	1,563,375	
		7,133,579	
Connecticut 0.3%			
Mohegan Tribe of Indians of Connecticut, Refunding RB, Public Improvement, Priority Distribution,			
6.25%, 1/01/31	1,370	1,369,890	
Delaware 0.9%			
County of Sussex Delaware, RB, NRG Energy, Inc., Indian River Power LLC Project, 6.00%, 10/01/40	1,000	1,049,280	
Delaware State EDA, RB, Exempt Facilities, Indian River Power LLC Project, 5.38%, 10/01/45	3,145	3,086,094	
		4,135,374	
District of Columbia 0.9%			
District of Columbia, RB, Methodist Home District of Columbia, Series A:			
7.38%, 1/01/30	1,665	1,665,499	
7.50%, 1/01/39	1,615	1,607,636	
	-,		
	Par		
Municipal Bonds	,	Value	
District of Columbia (concluded)	Par (000)	Value	
	Par		
District of Columbia (concluded)	Par (000)	Value	
District of Columbia (concluded)	Par (000)	Value	
District of Columbia (concluded)	Par (000)	Value \$ 1,111,580	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33	Par (000)	Value \$ 1,111,580	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b)	Par (000) \$ 1,055	Value \$ 1,111,580 4,384,715	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT:	Par (000) \$ 1,055	Value \$ 1,111,580 4,384,715 3,670,156	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30	Par (000) \$ 1,055 4,165 2,510 3,000	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30	Par (000) \$ 1,055	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%,	Par (000) \$ 1,055 4,165 2,510 3,000 1,560	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33	Par (000) \$ 1,055 4,165 2,510 3,000	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%,	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500 955	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115 984,414	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Greeneway Improvement District, Special Assessment Bonds, 5.13%, 5/01/43	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Greeneway Improvement District, Special Assessment Bonds, 5.13%, 5/01/43 Harbor Bay Community Development District Florida, Special Assessment Bonds, Series A, 7.00%,	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500 955 4,165	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115 984,414 3,670,156	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Greeneway Improvement District, Special Assessment Bonds, 5.13%, 5/01/43 Harbor Bay Community Development District Florida, Special Assessment Bonds, Series A, 7.00%, 5/01/33	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500 955	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115 984,414	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Greeneway Improvement District, 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 US, Inc., AMT, 5.30%,	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500 955 4,165 455	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115 984,414 3,670,156 456,142	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Greeneway Improvement District, 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 US, Inc., AMT, 5.30%, 5/01/37	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500 955 4,165	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115 984,414 3,670,156	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Greeneway Improvement District, 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 US, Inc., AMT, 5.30%, 5/01/37 Jacksonville Economic Development Commission, Refunding RB, Florida Proton Therapy Institute,	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500 955 4,165 455 4,500	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115 984,414 3,670,156 456,142 4,149,675	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Greeneway Improvement District, 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 US, Inc., AMT, 5.30%, 5/01/37 Jacksonville Economic Development Commission, Refunding RB, Florida Proton Therapy Institute, Series A, 6.00%, 9/01/17	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500 955 4,165 455	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115 984,414 3,670,156 456,142	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Greeneway Improvement District, 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 US, 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 & New	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500 955 4,165 455 4,500 905	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115 984,414 3,670,156 456,142 4,149,675 1,000,459	
District of Columbia (concluded) District of Columbia Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, 6.50%, 5/15/33 Florida 10.6% Boggy Creek Improvement District, Refunding RB, Special Assessment Bonds, 5.13%, 5/01/43 (b) County of Collier Florida IDA, Refunding RB, Arlington of Naples Project, Series A, 8.13%, 5/15/44 (b) County of Hillsborough Florida IDA, RB, National Gypsum Co. AMT: Series A, 7.13%, 4/01/30 Series B, 7.13%, 4/01/30 County of Palm Beach Health Facilities Authority, RB, Acts Retirement Life Community, 5.50%, 11/15/33 County of Sarasota Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Greeneway Improvement District, 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 US, Inc., AMT, 5.30%, 5/01/37 Jacksonville Economic Development Commission, Refunding RB, Florida Proton Therapy Institute, Series A, 6.00%, 9/01/17	Par (000) \$ 1,055 4,165 2,510 3,000 1,560 3,500 955 4,165 455 4,500	Value \$ 1,111,580 4,384,715 3,670,156 2,532,992 3,001,110 1,560,234 3,559,115 984,414 3,670,156 456,142 4,149,675	

BlackRock MuniAssets Fund, Inc. (MUA)

	Par		
Municipal Bonds	(000)	Value	
Florida (concluded)			
Midtown Miami Community Development District, Special Assessment Bonds, Series A:			
6.00%, 5/01/24	\$ 1,165	\$ 1,166,934	
6.25%, 5/01/37	4,605	4,606,059	
Santa Rosa Bay Bridge Authority, RB, 6.25%, 7/01/28 (e)(f)	4,739	1,942,156	
Tampa Palms Open Space and Transportation Community Development District, RB, Capital Improvement, Richmond Place Project, 7.50%, 5/01/18	1,300	1,300,624	
Tolomato Community Development District, Refunding, Special Assessment Bonds:			
Series A-1, 6.65%, 5/01/40	910	907,188	
CAB, Series A-2, 0.00%, 5/01/39 (a)	250	183,510	
CAB, Series A-3, 0.00%, 5/01/40 (a)	585	349,935	
CAB, Series A-4, 0.00%, 5/01/40 (a)	305	135,069	
Tolomato Community Development District (e)(f):			
Series 1, 6.65%, 5/01/40	50	49,577	
Series 2, 6.65%, 5/01/40	2,110	1,182,866	
Series 3, 6.65%, 5/01/40	710	7	
Village Community Development District No. 9, Special Assessment Bonds:			
6.75%, 5/01/31	1,810	2,003,942	
7.00%, 5/01/41	2,950	3,272,642	
5.50%, 5/01/42	1,330	1,342,076	
		49,881,904	
Georgia 2.0%		.,,	
City of Atlanta Georgia, Tax Allocation Bonds, Princeton Lakes Project, 5.50%, 1/01/31	1,035	1,037,929	
County of Clayton Georgia, Tax Allocation Bonds, Ellenwood Project, 7.50%, 7/01/33	2,755	2,784,396	
County of Clayton Georgia Development Authority, Refunding RB, Delta Air Lines, Inc. Project, Series A,	_,	_,,,,,,,,	
8.75%, 6/01/29	3,365	3,972,382	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life	ĺ		
Community, Series A-2:			
6.38%, 11/15/29	700	755,818	
	Par		
Municipal Bonds	(000)	Value	
Georgia (concluded)	(000)	v aiue	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life			
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded):	\$ 880	\$ 938 740	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life	\$ 880	\$ 938,740	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39	\$ 880	\$ 938,740 9,489,265	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5%	\$ 880	,	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System:		9,489,265	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33	1,450	9,489,265 1,457,424	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43	1,450 2,415	9,489,265 1,457,424 2,430,746	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33	1,450	9,489,265 1,457,424	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43 Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System, 6.00%, 7/01/25	1,450 2,415	9,489,265 1,457,424 2,430,746	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43 Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System, 6.00%, 7/01/25 Territory of Guam, GO, Series A:	1,450 2,415 1,265	9,489,265 1,457,424 2,430,746 1,281,217	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43 Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System, 6.00%, 7/01/25 Territory of Guam, GO, Series A: 6.00%, 11/15/19 7.00%, 11/15/39	1,450 2,415 1,265	9,489,265 1,457,424 2,430,746 1,281,217 651,703	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43 Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System, 6.00%, 7/01/25 Territory of Guam, GO, Series A: 6.00%, 11/15/19 7.00%, 11/15/39	1,450 2,415 1,265	9,489,265 1,457,424 2,430,746 1,281,217 651,703 1,175,221	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43 Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System, 6.00%, 7/01/25 Territory of Guam, GO, Series A: 6.00%, 11/15/19 7.00%, 11/15/39 Illinois 3.7% Illinois Finance Authority, Refunding RB:	1,450 2,415 1,265 615 1,115	9,489,265 1,457,424 2,430,746 1,281,217 651,703 1,175,221 6,996,311	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43 Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System, 6.00%, 7/01/25 Territory of Guam, GO, Series A: 6.00%, 11/15/19 7.00%, 11/15/39 Illinois 3.7% Illinois Finance Authority, Refunding RB: CAB, Clare Water Tower, Series B, 0.00%, 5/15/50 (c)(e)(f)	1,450 2,415 1,265 615 1,115	9,489,265 1,457,424 2,430,746 1,281,217 651,703 1,175,221 6,996,311	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43 Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System, 6.00%, 7/01/25 Territory of Guam, GO, Series A: 6.00%, 11/15/19 7.00%, 11/15/39 Illinois 3.7% Illinois Finance Authority, Refunding RB: CAB, Clare Water Tower, Series B, 0.00%, 5/15/50 (c)(e)(f) Clare Water Tower, Series A-7, 6.13%, 5/15/41 (e)(f)	1,450 2,415 1,265 615 1,115	9,489,265 1,457,424 2,430,746 1,281,217 651,703 1,175,221 6,996,311	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43 Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System, 6.00%, 7/01/25 Territory of Guam, GO, Series A: 6.00%, 11/15/19 7.00%, 11/15/39 Illinois 3.7% Illinois Finance Authority, Refunding RB: CAB, Clare Water Tower, Series B, 0.00%, 5/15/50 (c)(e)(f) Clare Water Tower, Series A-7, 6.13%, 5/15/41 (e)(f) Friendship Village of Schaumburg, 7.25%, 2/15/45	1,450 2,415 1,265 615 1,115 1,214 3,129 4,000	9,489,265 1,457,424 2,430,746 1,281,217 651,703 1,175,221 6,996,311 12 31 4,059,160	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43 Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System, 6.00%, 7/01/25 Territory of Guam, GO, Series A: 6.00%, 11/15/19 7.00%, 11/15/39 Illinois 3.7% Illinois Finance Authority, Refunding RB: CAB, Clare Water Tower, Series B, 0.00%, 5/15/50 (c)(e)(f) Clare Water Tower, Series A-7, 6.13%, 5/15/41 (e)(f) Friendship Village of Schaumburg, 7.25%, 2/15/45 Lutheran Home & Services Obligated Group, 5.63%, 5/15/42	1,450 2,415 1,265 615 1,115 1,214 3,129 4,000 2,395	9,489,265 1,457,424 2,430,746 1,281,217 651,703 1,175,221 6,996,311 12 31 4,059,160 2,186,923	
County of Gainesville & Hall Georgia Development Authority, Refunding RB, Acts Retirement Life Community, Series A-2 (concluded): 6.63%, 11/15/39 Guam 1.5% Guam Government Waterworks Authority, RB, Water & Wastewater System: 5.25%, 7/01/33 5.50%, 7/01/43 Guam Government Waterworks Authority, Refunding RB, Water & Wastewater System, 6.00%, 7/01/25 Territory of Guam, GO, Series A: 6.00%, 11/15/19 7.00%, 11/15/39 Illinois 3.7% Illinois Finance Authority, Refunding RB: CAB, Clare Water Tower, Series B, 0.00%, 5/15/50 (c)(e)(f) Clare Water Tower, Series A-7, 6.13%, 5/15/41 (e)(f) Friendship Village of Schaumburg, 7.25%, 2/15/45	1,450 2,415 1,265 615 1,115 1,214 3,129 4,000	9,489,265 1,457,424 2,430,746 1,281,217 651,703 1,175,221 6,996,311 12 31 4,059,160	

Railsplitter Tobacco Settlement Authority, RB:

5.50%, 6/01/23	1,400	1,566,782	
6.00%, 6/01/28	710	787,532	
Village of Lincolnshire Illinois, Special Tax Bonds, Sedgebrook Project, 6.25%, 3/01/34	1,800	1,821,204	

BLACKROCK MUNIASSETS FUND, INC.

JANUARY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

	Par	
Municipal Bonds	(000)	Value
Illinois (concluded)	(111)	
Village of Wheeling Illinois, Tax Allocation Bonds, North Milwaukee/Lake-Cook TIF Project, 6.00%,		
1/01/25	\$ 1,420	\$ 1,382,285
		17,211,271
Indiana 1.0%		,,
City of Valparaiso Indiana, RB, Exempt Facilities, Pratt Paper LLC Project, AMT:		
6.75%, 1/01/34	825	856,325
7.00%, 1/01/44	2,000	2,089,940
Indiana Finance Authority, RB, Private Activity Bond, Ohio River Bridges East End Crossing Project, Series		
A, AMT:		
5.00%, 7/01/44	470	442,717
5.00%, 7/01/48	1,555	1,448,980
		4,837,962
Iowa 2.7%		
Iowa Finance Authority, Refunding RB:		
Midwestern Disaster Area, Iowa Fertilizer Co. Project, 5.50%, 12/01/22	4,090	3,942,842
Midwestern Disaster Area, Iowa Fertilizer Co. Project, 5.25%, 12/01/25	2,190	2,032,780
Sunrise Retirement Community Project, 5.50%, 9/01/37	1,355	1,169,243
Sunrise Retirement Community Project, 5.75%, 9/01/43	2,115	1,823,912
Iowa Tobacco Settlement Authority, Refunding RB, Series C, 5.38%, 6/01/38	4,900	3,794,217
		12,762,994
Kentucky 0.9%		
Kentucky Public Transportation Infrastructure Authority, RB, Downtown Crossing, First Tier, Series A,		
5.75%, 7/01/49	4,000	4,122,920
Louisiana 2.7%		
Louisiana Local Government Environmental Facilities & Community Development Authority, RB, Westlake		
Chemical Corp. Project, 6.75%, 11/01/32	5,000	5,334,050
	Par	
Municipal Bonds	(000)	Value
Louisiana (concluded)		
Louisiana Public Facilities Authority, RB, Belle Chasse Educational Foundation Project, 6.75%, 5/01/41	\$ 1,855	\$ 2,005,700
Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, Series A, 5.25%, 5/15/35	5,570	5,544,824
		12,884,574
Maine 0.7%		
Maine Health & Higher Educational Facilities Authority, RB, Maine General Medical Center, 6.75%,		
7/01/41	2,955	3,094,919
Maryland 2.5%		
County of Frederick Maryland, RB, Jefferson Technology Park Project, Series B, 7.13%, 7/01/43	2,840	2,909,637
Maryland EDC, RB, Transportation Facilities Project, Series A, 5.75%, 6/01/35	3,615	3,690,156
Maryland EDC, Refunding RB, CNX Marine Terminals, Inc., 5.75%, 9/01/25	4,785	5,016,785
W 1000		11,616,578
Massachusetts 1.0%		
Massachusetts Development Finance Agency, RB, Series A:	1.025	1 110 042
Foxborough Regional Charter School, 7.00%, 7/01/42	1,025	1,119,843
North Hill Communities Issue, 6.50%, 11/15/43	2,020	1,945,260
Massachusetts Development Finance Agency, Refunding RB:	20	20.006
Eastern Nazarene College, 5.63%, 4/01/19	30	30,006
Eastern Nazarene College, 5.63%, 4/01/29 Tufte Medical Center, Series I. 6.75%, 1/01/26	1 400	80,015
Tufts Medical Center, Series I, 6.75%, 1/01/36	1,490	1,695,844

		4,870,968	
Michigan 2.8%			
City of Detroit Michigan, GO, Taxable Capital Improvement Limited Tax (e)(f):			
Series A-1, 5.00%, 4/01/16	650	207,987	
Series A-2, 8.00%, 4/01/14	3,185	1,019,137	

BLACKROCK MUNIASSETS FUND, INC.

JANUARY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

	Par	
	(0.00)	
Municipal Bonds	(000)	Value
Michigan (concluded)		
City of Detroit Michigan Sewage Disposal System, Refunding RB, Senior Lien, Series A:	.	h 1 150 100
5.00%, 7/01/32	\$ 1,610	\$ 1,470,429
5.25%, 7/01/39	2,785	2,570,026
Royal Oak Hospital Finance Authority, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39	6,310	7,666,145
		12,933,724
Minnesota 0.4%		
City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series A, 6.75%, 11/15/32	1,785	2,069,868
Missouri 0.5%		
Kirkwood IDA Missouri, RB, Aberdeen Heights, Series A, 8.25%, 5/15/39	2,315	2,575,877
New Jersey 5.3%		
New Jersey EDA, RB:		
Kapkowski Road Landfill Project, Series B, AMT, 6.50%, 4/01/31	2,250	2,503,012
Patterson Charter School for Science and Technology, Inc. Project, Series A, 6.10%, 7/01/44	1,085	1,087,051
Team Academy Charter School Project, 6.00%, 10/01/43	1,530	1,538,767
The Goethals Bridge Replacement Project, AMT, 5.38%, 1/01/43	2,155	2,168,900
New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14	4,000	4,070,000
New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B,		
7.50%, 6/01/19 (d)	3,575	4,700,446
New Jersey Health Care Facilities Financing Authority, Refunding RB:		
St. Barnabas Health Care System, Series A, 5.63%, 7/01/37	2,650	2,763,128
St. Joseph s Healthcare System, 6.63%, 7/01/38	4,090	4,160,716
	Par	
Municipal Bonds	(000)	Value
Municipal Bonds New Jersey (concluded)	(000)	Value
	(000) \$ 2,000	Value \$ 1,727,920
New Jersey (concluded)	Ì	
New Jersey (concluded)	Ì	\$ 1,727,920
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26	Ì	
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5%	Ì	\$ 1,727,920
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center	\$ 2,000	\$ 1,727,920 24,719,940
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42	Ì	\$ 1,727,920
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8%	\$ 2,000	\$ 1,727,920 24,719,940
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT:	\$ 2,000	\$ 1,727,920 24,719,940 2,407,987
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g)	\$ 2,000 2,970 1,765	\$ 1,727,920 24,719,940 2,407,987 1,936,752
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32	\$ 2,000	\$ 1,727,920 24,719,940 2,407,987
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A,	\$ 2,000 2,970 1,765 4,130	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A, 6.00%, 6/01/41	\$ 2,000 2,970 1,765	\$ 1,727,920 24,719,940 2,407,987 1,936,752
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A,	\$ 2,000 2,970 1,765 4,130	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948 2,231,932
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A, 6.00%, 6/01/41 County of Chautauqua New York Industrial Development Agency, RB, NRG Dunkirk Power Project, 5.88%, 4/01/42	\$ 2,000 2,970 1,765 4,130 2,090	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A, 6.00%, 6/01/41 County of Chautauqua New York Industrial Development Agency, RB, NRG Dunkirk Power Project, 5.88%, 4/01/42 County of Dutchess New York Industrial Development Agency, Refunding RB, St. Francis Hospital, Series	\$ 2,000 2,970 1,765 4,130 2,090 3,695	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948 2,231,932 3,768,789
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A, 6.00%, 6/01/41 County of Chautauqua New York Industrial Development Agency, RB, NRG Dunkirk Power Project, 5.88%, 4/01/42	\$ 2,000 2,970 1,765 4,130 2,090	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948 2,231,932
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A, 6.00%, 6/01/41 County of Chautauqua New York Industrial Development Agency, RB, NRG Dunkirk Power Project, 5.88%, 4/01/42 County of Dutchess New York Industrial Development Agency, Refunding RB, St. Francis Hospital, Series A, 7.50%, 3/01/29	\$ 2,000 2,970 1,765 4,130 2,090 3,695 1,400	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948 2,231,932 3,768,789 1,102,052
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A, 6.00%, 6/01/41 County of Chautauqua New York Industrial Development Agency, RB, NRG Dunkirk Power Project, 5.88%, 4/01/42 County of Dutchess New York Industrial Development Agency, Refunding RB, St. Francis Hospital, Series A, 7.50%, 3/01/29 Dutchess County Industrial Development Agency New York, RB, St. Francis Hospital, Series B, 7.50%, 3/01/29	\$ 2,000 2,970 1,765 4,130 2,090 3,695	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948 2,231,932 3,768,789 1,102,052 787,180
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A, 6.00%, 6/01/41 County of Chautauqua New York Industrial Development Agency, RB, NRG Dunkirk Power Project, 5.88%, 4/01/42 County of Dutchess New York Industrial Development Agency, Refunding RB, St. Francis Hospital, Series A, 7.50%, 3/01/29 Dutchess County Industrial Development Agency New York, RB, St. Francis Hospital, Series B, 7.50%,	\$ 2,000 2,970 1,765 4,130 2,090 3,695 1,400 1,000	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948 2,231,932 3,768,789 1,102,052
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A, 6.00%, 6/01/41 County of Chautauqua New York Industrial Development Agency, RB, NRG Dunkirk Power Project, 5.88%, 4/01/42 County of Dutchess New York Industrial Development Agency, Refunding RB, St. Francis Hospital, Series A, 7.50%, 3/01/29 Dutchess County Industrial Development Agency New York, RB, St. Francis Hospital, Series B, 7.50%, 3/01/29 Metropolitan Transportation Authority, RB, Series C, 6.50%, 11/15/28	\$ 2,000 2,970 1,765 4,130 2,090 3,695 1,400 1,000	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948 2,231,932 3,768,789 1,102,052 787,180
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A, 6.00%, 6/01/41 County of Chautauqua New York Industrial Development Agency, RB, NRG Dunkirk Power Project, 5.88%, 4/01/42 County of Dutchess New York Industrial Development Agency, Refunding RB, St. Francis Hospital, Series A, 7.50%, 3/01/29 Dutchess County Industrial Development Agency New York, RB, St. Francis Hospital, Series B, 7.50%, 3/01/29 Metropolitan Transportation Authority, RB, Series C, 6.50%, 11/15/28 New York City Industrial Development Agency, RB, Special Needs Facilities Pooled Program, Series C-1:	\$ 2,000 2,970 1,765 4,130 2,090 3,695 1,400 1,000 2,000 610	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948 2,231,932 3,768,789 1,102,052 787,180 2,348,500
New Jersey (concluded) Tobacco Settlement Financing Corp. New Jersey, Refunding RB, Series 1A, 4.63%, 6/01/26 New Mexico 0.5% New Mexico Hospital Equipment Loan Council, Refunding RB, Gerald Champion Regional Medical Center Project, 5.50%, 7/01/42 New York 4.8% City of New York New York Industrial Development Agency, RB, AMT: American Airlines, Inc., JFK International Airport, 8.00%, 8/01/28 (g) British Airways PLC Project, 7.63%, 12/01/32 City of Yonkers New York Industrial Development Agency, RB, Sarah Lawrence College Project, Series A, 6.00%, 6/01/41 County of Chautauqua New York Industrial Development Agency, RB, NRG Dunkirk Power Project, 5.88%, 4/01/42 County of Dutchess New York Industrial Development Agency, Refunding RB, St. Francis Hospital, Series A, 7.50%, 3/01/29 Dutchess County Industrial Development Agency New York, RB, St. Francis Hospital, Series B, 7.50%, 3/01/29 Metropolitan Transportation Authority, RB, Series C, 6.50%, 11/15/28 New York City Industrial Development Agency, RB, Special Needs Facilities Pooled Program, Series C-1: 6.50%, 7/01/24	\$ 2,000 2,970 1,765 4,130 2,090 3,695 1,400 1,000 2,000	\$ 1,727,920 24,719,940 2,407,987 1,936,752 4,149,948 2,231,932 3,768,789 1,102,052 787,180 2,348,500 590,455

BLACKROCK MUNIASSETS FUND, INC.

JANUARY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

(Percentages shown are based on Net Assets)

Par

	Par		
Municipal Bonds	(000)	Value	
New York (concluded)	(111)	,	
Niagara Area Development Corp., Refunding RB, Solid Waste Disposal Facility, Covanta Energy Project,			
Series A, AMT,			
5.25%, 11/01/42	\$ 1,835	\$ 1,663,611	
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	1,452,922	
		22,422,197	
North Carolina 1.6%		22, 122, 13 /	
North Carolina Medical Care Commission, Refunding RB, First Mortgage Series A:			
Deerfield Project, 6.13%, 11/01/38	4,565	4,734,453	
Whitestone Project, 7.75%, 3/01/31	1,000	1,074,370	
Retirement Facilities, Whitestone Project, 7.75%, 3/01/41	1,420	1,506,165	
	,	, ,	
		7,314,988	
North Dakota 0.5%		1,314,700	
City of Williston North Dakota, RB, Eagle Crest Apartments LLC Project, 7.75%, 9/01/38	2,155	2,150,087	
Ohio 2.7%	2,133	2,130,087	
Buckeye Tobacco Settlement Financing Authority, RB, Asset-Backed Bonds, Series A-2:			
5.75%, 6/01/34	6,745	5,224,272	
6.00%, 6/01/42	3,040	2,395,520	
State of Ohio, RB, Ford Motor Co. Project, AMT, 5.75%, 4/01/35	4,880	4,918,894	
State of Olito, RB, Ford Wildon Co. Froject, Aivi 1, 3.13 //, 4/01/33	4,000	4,910,894	
		12,538,686	
Oklahoma 0.3%			
Oklahoma Development Finance Authority, Refunding RB, Inverness Village Community, 6.00%, 1/01/32	1,305	1,289,418	
Pennsylvania 5.8%			
Allentown Neighborhood Improvement Zone Development Authority, Refunding RB, Series A:	4.04.5	4 727 000	
5.00%, 5/01/35	1,815	1,725,938	
5.00%, 5/01/42	4,170	3,838,861	
	Par		
Municipal Bonds	(000)	Value	
Pennsylvania (concluded)			
City of Philadelphia Pennsylvania Industrial Development, RB, Commercial Development, AMT, 7.75%,			
12/01/17	\$ 8,000	\$ 8,019,920	
County of Cumberland Pennsylvania Municipal Authority, Refunding RB, Diakon Lutheran, 6.38%, 1/01/39	6,165	6,543,901	
County of Lehigh Pennsylvania General Purpose Authority, Refunding RB, Bible Fellowship Church			
Homes, 5.13%, 7/01/32	2,805	2,461,780	
County of Northampton Pennsylvania IDA, Tax Allocation Bonds, 7.00%, 7/01/32	2,110	2,086,832	
Lancaster County Hospital Authority, Refunding RB, Brethren Village Project, Series A, 6.25%, 7/01/26	1,160	1,178,409	
Pennsylvania Economic Development Financing Authority, RB, National Gypsum Co., Series A, AMT,	1.250	1 244 150	
6.25%, 11/01/27	1,250	1,244,150	
		27,099,791	
Rhode Island 0.7%			
Central Falls Detention Facility Corp., Refunding RB, 7.25%, 7/15/35	4,190	3,155,363	
Texas 13.0%			
Brazos River Authority, Refunding RB, Texas Utility Co., Series A, AMT, 7.70%, 4/01/33 (e)(f)	5,080	139,700	
Central Texas Regional Mobility Authority, Refunding RB:			
CAB, 0.00%, 1/01/28 (c)	1,000	462,700	
CAB, 0.00%, 1/01/29 (c)	2,000	868,060	
CAB, 0.00%, 1/01/30 (c)	1,170	473,604	
CAB, 0.00%, 1/01/31 (c)	2,000	756,180	
CAD 0.000/. 1/01/23 (-)			
CAB, 0.00%, 1/01/32 (c)	3,500	1,234,380	
CAB, 0.00%, 1/01/32 (c) CAB, 0.00%, 1/01/33 (c)			

CAB, 0.00%, 1/01/34 (c)	4,000	1,227,520	
Senior Lien, 5.75%, 1/01/25	675	721,805	
Senior Lien, 6.25%, 1/01/46	2,210	2,312,566	
Sub-Lien, 5.00%, 1/01/33	375	351,765	
Sub-Lien, 5.00%, 1/01/42	330	296,205	
City of Houston Texas, RB, Special Facilities Continental Airlines Inc. AMT:			
Series A, 6.63%, 7/15/38	2,890	2,988,433	
Series E, 6.75%, 7/01/21	4,550	4,550,045	

BLACKROCK MUNIASSETS FUND, INC.

JANUARY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)
Texas (continued)	(001)
Clifton Higher Education Finance Corp., ERB, Idea Public Schools:	
5.50%, 8/15/31	\$ 955
5.75%, 8/15/41	720
Clifton Higher Education Finance Corp., Refunding RB, Uplift Education, Series A, 4.40%, 12/01/47	810
County of Bexar Texas Health Facilities Development Corp., RB, Army Retirement Residence Project, 6.20%, 7/01/45	5,040
County of Harris Texas Cultural Education Facilities Finance Corp., RB, 1st Mortgage, Brazos Presbyterian Homes, Inc. Project, Series B, 7.00%, 1/01/48	475
County of Harris Texas-Houston Sports Authority, Refunding RB, CAB, Senior Lien, Series A (NPFGC), 0.00%, 11/15/38 (c)	10,000
County of Matagorda Texas Navigation District No. 1, Refunding RB, Central Power & Light Co. Project, Series A, 6.30%, 11/01/29	2,090
County of Tarrant Texas Cultural Education Facilities Finance Corp., RB, Series A:	
CC Young Memorial Home, 8.00%, 2/15/38	1,745
Senior Living Center Project, 8.25%, 11/15/44	4,200
County of Travis Texas Health Facilities Development Corp., Refunding RB, 7.13%, 1/01/46	3,080
La Vernia Higher Education Finance Corp., RB, Kipp, Inc., Series A, 6.38%, 8/15/44	860
New Hope Cultural Education Facilities Corp., RB, Stephenville Tarleton St.:	
5.88%, 4/01/36	1,210
6.00%, 4/01/45	1,845
North Texas Education Finance Corp., ERB, Uplift Education, Series A, 5.25%, 12/01/47	1,600
North Texas Tollway Authority, RB, CAB, Special Project System, Series B, 0.00%, 9/01/37 (c)	2,110
North Texas Tollway Authority, Refunding RB, 2nd Tier System, Series F, 6.13%, 1/01/31	4,425
	Par
Municipal Bonds	(000)
Texas (concluded)	
Red River Health Facilities Development Corp., First MRB Project:	
Eden Home, Inc., 7.25%, 12/15/42	\$ 2,895
Wichita Falls Retirement Foundation, 5.13%, 1/01/41	900
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
NTE Mobility Partners LLC, North Tarrant Express Managed Lanes Project, 6.88%, 12/31/39	3,000
Utah 0.6%	
State of Utah Charter School Finance Authority, Refunding RB, 6.75%, 10/15/43	2,950
Vermont 0.2%	=,,, - :
Vermont EDA, Refunding, MRB, Wake Robin Corp. Project, 5.40%, 5/01/33	770
Virginia 3.3%	
County of Fairfax Virginia EDA, Refunding RB:	
Goodwin House, Inc., 5.13%, 10/01/42	2,500
Vinson Hall LLC, Series A, 5.00%, 12/01/42	1,330
Vinson Hall LLC, Series A, 5.00%, 12/01/47	1,735
Mosaic District Community Development Authority, Special Assessment Bonds, Series A:	,
6.63%, 3/01/26	1,485
6.88%, 3/01/36	1,300
Virginia Small Business Financing Authority, RB, Senior Lien, Elizabeth River Crossings OpCo LLC Project, AMT, 6.00%, 1/01/37	6,805

BLACKROCK MUNIASSETS FUND, INC.

JANUARY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

		Par		
Municipal Bonds		(000)	Value	
Washington 0.6%				
County of King Washington Public Hospital District No. 4, GO, Refunding, Snoqualmie Valley				
Hospital, 7.00%, 12/01/40		\$ 1,455	\$ 1,483,751	
Greater Wenatchee Regional Events Center Public Facilities District, Refunding RB, Series A, 5.50%	b,			
9/01/42		1,495	1,436,710	
			2 020 461	
W:: 0.20/			2,920,461	
Wisconsin 0.3%				
Wisconsin Health & Educational Facilities Authority, Refunding RB, St. Johns Communities, Inc.,				
Series A:		10.5	151 554	
7.25%, 9/15/29		425	454,776	
7.63%, 9/15/39		855	918,073	
			1,372,849	
Total Municipal Bonds 87.8%			411,306,593	
Total Manager 2014s Onto 10			111,000,000	
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	1,	11,475	11,692,107	
		11,473	11,092,107	
District of Columbia 1.6%				
District of Columbia Water & Sewer Authority, Refunding RB, Senior Lien, Series A, 6.00%,		((70	7 500 200	
10/01/35 (i)		6,679	7,508,280	
Florida 3.4%				
County of Miami-Dade Florida, Refunding RB, Miami International Airport, Series A, AMT (AGC),				
5.25%, 10/01/33		15,000	15,911,100	
Illinois 3.0%				
City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien, Series A (NPFGC), 5.00%,				
1/01/33 (i)		6,510	6,582,001	
Illinois Finance Authority, RB, The Carle Foundation, Series A (AGM), 6.00%, 8/15/41		7,180	7,804,588	
			14,386,589	
Municipal Dande Transferred to		Par	14,500,509	
Municipal Bonds Transferred to			X7-1	
Tender Option Bond (TOB) Trusts (h)		(000)	Value	
New York 13.6%				
City of New York New York Municipal Water Finance Authority, Refunding RB, Water &				
Sewer System 2nd General Resolution:		11100	11005000	
Fiscal 2013, Series CC, 5.00%, 6/15/47	\$	14,180	\$ 14,803,069	
Series EE, 5.50%, 6/15/43		7,605	8,217,735	
Series HH, 5.00%, 6/15/31 (i)		8,609	9,353,832	
Hudson Yards Infrastructure Corp., RB, Fiscal 2012, Series A, 5.75%, 2/15/47 (i)		4,520	4,883,869	
New York Liberty Development Corp., RB, 1 World Trade Center Port Authority Consolidated,				
5.25%, 12/15/43		18,105	19,254,849	
New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%,				
11/15/51 (i)		6,600	7,118,496	
		•	* *	
			(2 (21 050	
W. 11. 4. 40 <i>c</i> /			63,631,850	
Washington 1.8%		7.066	0.446.200	
City of Bellingham Washington, RB, Water & Sewer, 5.00%, 8/01/40		7,966	8,446,399	
Total Municipal Bonds Transferred to				
Tender Option Bond (TOB) Trusts 25.9%			121,576,325	
Total Long-Term Investments				
(Cost \$530,277,507) 113.7%			532,882,918	

Short-Term Securities	Shares	
FFI Institutional Tax-Exempt Fund, 0.03% (j)(k)	1,506,739	1,506,739
Total Short-Term Securities		
(Cost \$1,506,739) 0.3%		1,506,739

8 BLACKROCK MUNIASSETS FUND, INC.

JANUARY 31, 2014

Schedule of Investments (continued)

BlackRock MuniAssets Fund, Inc. (MUA)

(Percentages shown are based on Net Assets)

Total Investments (Cost \$531,784,246*) 114.0%	534,389,657
Other Assets Less Liabilities 1.2%	5,384,277
Liability for TOB Trust Certificates, Including Interest	
Expense and Fees Payable (15.2%)	(71,164,679)
Net Assets Applicable to Common Shares 100.0%	\$ 468,609,255

* As of January 31, 2014, gross unrealized appreciation and depreciation based on cost for federal income tax purposes were as follows:

Tax cost	\$ 460,758,122
Gross unrealized appreciation	\$ 28,052,316
Gross unrealized depreciation	(25,564,258)
Net unrealized appreciation	\$ 2,488,058

Notes to Schedule of Investments

- (a) Represents a step-up bond that pays an initial coupon rate for the first period and then a higher coupon rate for the following periods. Rate shown is as of report date.
- (b) 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.
- (c) Zero-coupon bond.
- (d) 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 at a premium to par.
- (e) Non-income producing security.
- (f) Issuer filed for bankruptcy and/or is in default of principal and/or interest payments.
- (g) Variable rate security. Rate shown is as of report date.

(h)

Represent bonds transferred to a TOB. In exchange for which the Fund acquired residual interest certificates. These bonds serve as collateral in a financing transaction.

- (i) All or a portion of security is subject to a recourse agreement, which may require the Fund to pay the liquidity provider in the event there is a shortfall between the TOB trust certificates and proceeds received from the sale of the security contributed to the TOB trust. In the case of a shortfall, the aggregate maximum potential amount the Fund could ultimately be required to pay under the agreements, which expire from January 1, 2015 to November 15, 2019 is \$21,570,076.
- (j) Investments in issuers considered to be an affiliate of the Fund during the period ended January 31, 2014, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

	Shares Held	Shares Held Shares Held		
	at April 30,	Net	at January 31,	
Affiliate	2013	Activity	2014	Income
FFI Institutional Tax-Exempt Fund	9,209,652	(7,702,913)	1,506,739	\$ 799

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

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 Guarantee Corp.
AGM Assured Guaranty Municipal Corp.
AMT Alternative Minimum Tax (subject to)

BLACKROCK MUNIASSETS FUND, INC.

JANUARY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

ARB Airport Revenue Bonds Capital Appreciation Bonds CAB **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

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

				Notional	Unrealized	
Contracts Sold	Issue	Exchange	Expiration	Value	Depreciation	
(439)	10-Year US Treasury Note	Chicago Board of Trade	March 2014	\$ 55,204,250	\$ (581,933)	

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 semi-annual report.

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

BLACKROCK MUNIASSETS FUND, INC.

JANUARY 31, 2014

BlackRock MuniAssets Fund, Inc. (MUA)

	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments ¹		\$ 532,882,918		\$ 532,882,918
Short-Term Securities	\$ 1,506,739			1,506,739
Total	\$ 1,506,739	\$ 532,882,918		\$ 534,389,657

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

		Levei			
	Level 1	Level 2	3		Total
Derivative Financial Instruments ²					
Liabilities:					
Interest rate contracts	\$ (581,933)			\$	(581,933)

² Derivative financial instruments are financial futures contracts, which are valued at the unrealized appreciation/depreciation on the instrument. The carrying amount for certain of the Fund s assets and/or liabilities approximates fair value for financial reporting purposes. As of January 31, 2014, such assets and/or liabilities are categorized within the disclosure hierarchy as follows:

	Level 1	Level 2	Level 3	Total
Assets:				
Cash	\$ 92,848			\$ 92,848
Cash pledged for financial futures contracts	732,000			732,000
Liabilities:				
TOB trust certificates		\$ (71,143,477)		(71,143,477)
Total	\$ 824,848	\$ (71,143,477)		\$ (70,318,629)

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

BLACKROCK MUNIASSETS FUND, INC.

JANUARY 31, 2014

Item 2 Controls and Procedures

- 2(a) The registrant s principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant s disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the 1940 Act)) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.
- 2(b) There were no changes in the registrant s internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant s last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant s internal control over financial reporting.

Item 3 Exhibits

Certifications Attached hereto

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BlackRock MuniAssets Fund, Inc.

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

Chief Executive Officer (principal executive officer) of

BlackRock MuniAssets Fund, Inc.

Date: March 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: March 25, 2014

By: /s/ NEAL J. ANDREWS Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock MuniAssets Fund, Inc.

Date: March 25, 2014