

NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND  
Form N-Q  
April 01, 2019

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

**Washington, DC 20549**

**FORM N-Q**

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT  
INVESTMENT COMPANY**

Investment Company Act file number 811-21449

**Nuveen Municipal High Income Opportunity Fund**

(Exact name of registrant as specified in charter)

**Nuveen Investments**

**333 West Wacker Drive, Chicago, Illinois 60606**

(Address of principal executive offices) (Zip code)

**Gifford R. Zimmerman**

**Vice President and Secretary**

**333 West Wacker Drive, Chicago, Illinois 60606**

(Name and address of agent for service)

Registrant's telephone number, including area code: 312-917-7700

Date of fiscal year end: October 31

Date of reporting period: January 31, 2019

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (§§ 239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after the close of the first and third fiscal quarters, pursuant to rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270.30b1-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget (OMB) control number. Please direct

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comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to the Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.

**Item 1. Schedule of Investments**

NMZ

Nuveen Municipal High Income Opportunity Fund

Portfolio of Investments January 31, 2019

(Unaudited)

Principal

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 153.9% (100.0% of Total Investments)			
	MUNICIPAL BONDS – 152.5% (99.1% of Total Investments)			
	Alabama – 0.6% (0.4% of Total Investments)			
\$ 182	Adamsville Solid Waste Disposal Authority, Alabama, Solid Waste Disposal Revenue Bonds, Big Sky Environmental LLC Project, Refunding Taxable Series 2017C, 0.000%, 9/01/37, 144A	4/19 at 100.00	N/R	\$2
1,000	Adamsville Solid Waste Disposal Authority, Alabama, Solid Waste Disposal Revenue Bonds, Big Sky Environmental LLC Project, Series 2017A, 6.750%, 9/01/37, 144A	9/27 at 100.00	N/R	948,390
213	Adamsville Solid Waste Disposal Authority, Alabama, Solid Waste Disposal Revenue Bonds, Big Sky Environmental LLC Project, Taxable Series 2017B, 6.750%, 9/01/37, 144A	9/27 at 100.00	N/R	202,665
1,000	Alabama Industrial Development Authority, Solid Waste Disposal Revenue Bonds, Pine City Fiber Co Project, Series 1993, 6.450%, 12/01/23 (Alternative Minimum Tax)	4/19 at 100.00	B1	1,005,220
2,000	Alabama Private Colleges and University Facilities Authority, Limited Obligation Bonds, University of Mobile Project, Series 2015A, 6.000%, 9/01/45, 144A	9/25 at 100.00	N/R	1,945,560
1,000	Jefferson County, Alabama, Sewer Revenue Warrants, Senior Lien Series 2013C, 0.000%, 10/01/38 – AGM Insured	10/23 at 105.00	BB+	895,750
5,395	Total Alabama			4,997,587
	Arizona – 3.1% (2.0% of Total Investments)			
5,000	Arizona Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Pinecrest Academy of Nevada-Sloan Canyon Project, Refunding Series 2018A, 6.150%, 9/15/53, 144A	9/23 at 105.00	BB+	5,053,800
1,000	Arizona Industrial Development Authority, Education Facility Revenue Bonds, Caurus Academy Project, Series 2018A, 6.500%, 6/01/50, 144A	6/28 at 100.00	N/R	1,003,350
3,000	Phoenix Industrial Development Authority, Arizona, Lease Revenue Bonds, Rowan University Project, Tender Option Bond Trust 2016-XF2337, 14.230%, 6/01/42, 144A (IF) (4)	6/22 at 100.00	N/R	3,803,280
440	Phoenix Industrial Development Authority, Arizona, Multifamily Housing Revenue Bonds, Deer Valley Veterans Assisted Living Project, Series 2016A, 5.125%, 7/01/36	7/24 at 101.00	N/R	430,804
1,000	Pima County Industrial Development Authority, Arizona, Charter School Revenue Bonds, Desert Heights Charter School, Series 2014, 7.250%, 5/01/44	5/24 at 100.00	N/R	1,082,420
100	Pima County Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Edkey Charter Schools Project, Series 2014A, 6.875%, 7/01/34	7/20 at 102.00	BB-	96,255
	Pima County Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Edkey Charter Schools Project, Series			

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	2016:			
245	5.250%, 7/01/36	7/26 at 100.00	BB-	215,233
400	5.375%, 7/01/46	7/26 at 100.00	BB-	338,872
475	5.500%, 7/01/51	7/26 at 100.00	BB-	400,781
	Pima County Industrial Development Authority, Arizona, Education			
2,000	Facility Revenue Bonds, San Tan Montessori School Project, Series 2014A, 9.000%, 2/01/44	2/24 at 100.00	N/R	2,280,440

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Arizona (continued)			
\$ 465	Pima County Industrial Development Authority, Arizona, Education Revenue Bonds Legacy Traditional School Project, Series 2009, 8.500%, 7/01/39 (Pre-refunded 7/01/19)	7/19 at 100.00	N/R (5)	\$477,662
2,500	Pima County Industrial Development Authority, Arizona, Education Revenue Bonds, Carden Traditional Schools Project, Series 2012, 7.500%, 1/01/42	1/22 at 100.00	B	2,224,125
1,315	Pima County Industrial Development Authority, Arizona, Education Revenue Bonds, Paradise Education Center Project, Series 2010:			
500	6.000%, 6/01/40 (Pre-refunded 6/01/19)	6/19 at 100.00	BB+ (5)	1,333,423
	6.100%, 6/01/45 (Pre-refunded 6/01/19)	6/19 at 100.00	BB+ (5)	507,165
1,150	Pinal County Industrial Development Authority, Arizona, Correctional Facilities Contract Revenue Bonds, Florence West Prison LLC, Series 2002A, 5.250%, 10/01/22 – ACA Insured	4/19 at 100.00	BBB-	1,151,058
1,665	Quechan Indian Tribe of the Fort Yuma Reservation, Arizona, Tribal Economic Development Bonds, Series 2012A, 9.750%, 5/01/25	5/22 at 100.00	BB-	1,835,379
2,500	Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Citigroup Energy Inc Prepay Contract Obligations, Series 2007, 5.500%, 12/01/37, 144A	No Opt. Call	Ba3	3,044,875
975	Yuma County Industrial Development Authority, Arizona, Exempt Revenue Bonds, Far West Water & Sewer Inc Refunding, Series 2007A, 6.375%, 12/01/37 (Alternative Minimum Tax)	4/19 at 100.00	N/R	928,288
24,730	Total Arizona			26,207,210
	California – 21.2% (13.8% of Total Investments)			
18,875	Alameda Corridor Transportation Authority, California, Revenue Bonds, Refunding Second Subordinate Lien Series 2016B, 5.000%, 10/01/37 (UB) (4)	10/26 at 100.00	Baa2	20,849,891
2,205	California County Tobacco Securitization Agency, Tobacco Settlement Asset-Backed Bonds, Sonoma County Tobacco Securitization Corporation, Series 2005, 5.125%, 6/01/38	4/19 at 100.00	BB	2,210,424
1,000	California Enterprise Development Authority, Recovery Zone Facility Revenue Bonds, SunPower Corporation - Headquarters Project, Series 2010, 8.500%, 4/01/31	4/21 at 100.00	N/R	1,049,360
1,250	California Health Facilities Financing Authority, Refunding Revenue Bonds, Stanford Hospital and Clinics, Tender Option Bond Trust 2016-XF2353:			
1,875	15.801%, 11/15/40, 144A (IF) (4)	11/21 at 100.00	AA-	1,761,525
	16.799%, 11/15/40, 144A (IF) (4)	11/21 at 100.00	N/R	2,693,175
5,165	California Health Facilities Financing Authority, Revenue Bonds, Children's Hospital Los Angeles, Series 2017A:			
22,115	5.000%, 8/15/42 (UB) (4)	8/27 at 100.00	Baa2	5,696,014
	5.000%, 8/15/47 (UB) (4)	8/27 at 100.00	Baa2	24,303,279

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12,500	California Health Facilities Financing Authority, Revenue Bonds, Kaiser Permanente System, Series 2017A-2, 4.000%, 11/01/44 (UB) (4)	11/27 at 100.00 AA-	12,768,000
	California Health Facilities Financing Authority, Revenue Bonds, Stanford Hospitals and Clinics, Tender Option Bond Trust 2016-XG0049:		
1,000	14.202%, 8/15/51, 144A (IF) (4)	8/22 at 100.00 AA	1,297,930
250	14.205%, 8/15/51, 144A (IF) (4)	8/22 at 100.00 AA	324,505
1,020	California Municipal Finance Authority, Mobile Home Park Revenue Bonds, Caritas Affordable Housing Inc Projects, Series 2014B, 5.875%, 8/15/49	8/24 at 100.00 N/R	1,088,972

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	California (continued)			
\$ 970	California Municipal Finance Authority, Mobile Home Park Revenue Bonds, Caritas Projects Series 2010B, 7.250%, 8/15/45 (Pre-refunded 8/15/20)	8/20 at 100.00	N/R (5)	\$1,044,942
500	California Municipal Finance Authority, Revenue Bonds, California Baptist University, Series 2016A, 5.000%, 11/01/36, 144A	11/26 at 100.00	N/R	540,930
7,430	California Municipal Finance Authority, Revenue Bonds, Eisenhower Medical Center, Refunding Series 2017B: 4.000%, 7/01/42 (UB) (4)	7/27 at 100.00	BBB-	7,498,579
1,000	5.000%, 7/01/42	7/27 at 100.00	BBB-	1,093,170
1,000	California Municipal Finance Authority, Revenue Bonds, Harbor Regional Center Project, Series 2009, 8.500%, 11/01/39 (Pre-refunded 11/01/19)	11/19 at 100.00	A3 (5)	1,050,170
20,925	California Municipal Finance Authority, Revenue Bonds, Linxs APM Project, Senior Lien Series 2018A, 4.000%, 12/31/47 (Alternative Minimum Tax) (UB) (4)	6/28 at 100.00	BBB+	20,641,676
400	California Pollution Control Financing Authority, Solid Waste Disposal Revenue Bonds, Aemerge Redpak Services Southern California, LLC Project, Subordinate Series 2017, 8.000%, 12/01/27 (Alternative Minimum Tax), 144A	No Opt. Call	N/R	394,724
1,950	California School Finance Authority, Educational Facilities Revenue Bonds, Tri-Valley Learning Corporation, Series 2012A, 7.000%, 6/01/47 (6)	6/20 at 102.00	N/R	1,452,750
1,300	California State, General Obligation Bonds, Tender Option Bond Trust 2016-XG0039, 16.514%, 3/01/40 – AGM Insured, 144A (IF)	3/20 at 100.00	AA	1,489,696
800	California Statewide Communities Development Authority, California, Revenue Bonds, Loma Linda University Medical Center, Series 2014A: 5.250%, 12/01/44	12/24 at 100.00	BBB-	847,192
1,000	5.500%, 12/01/54	12/24 at 100.00	BBB-	1,070,230
6,940	California Statewide Communities Development Authority, California, Revenue Bonds, Loma Linda University Medical Center, Series 2016A, 5.250%, 12/01/56, 144A	6/26 at 100.00	BB-	7,314,413
520	California Statewide Communities Development Authority, Revenue Bonds, American Baptist Homes of the West, Series 2010, 6.250%, 10/01/39	10/19 at 100.00	BBB+	533,811
500	California Statewide Communities Development Authority, Revenue Bonds, Lancer Educational Student Housing Project, Refunding Series 2016A, 5.000%, 6/01/46, 144A	6/26 at 100.00	N/R	529,170
1,000	California Statewide Communities Development Authority, Special Tax Bonds, Community Facilities District 2012-01, Fancher Creek, Series 2013A, 5.700%, 9/01/43	9/22 at 100.00	N/R	1,047,590
1,580	California Statewide Communities Development Authority, Statewide Community Infrastructure Program Revenue Bonds, Series 2011A, 8.000%, 9/02/41	9/21 at 100.00	N/R	1,624,382
500		11/21 at 100.00	N/R (5)	579,095



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	California Statewide Community Development Authority, Revenue Bonds, California Baptist University, Series 2011A, 7.500%, 11/01/41 (Pre-refunded 11/01/21)		
1,500	California Statewide Community Development Authority, Revenue Bonds, Daughters of Charity Health System, Series 2005A, 5.500%, 4/19 at 100.00 CC 7/01/39		1,225,575
1,825	Daly City Housing Development Finance Agency, California, Mobile Home Park Revenue Bonds, Franciscan Mobile Home Park Project, Refunding Third Tier Series 2007C, 6.500%, 12/15/47	4/19 at 100.00 N/R	1,827,281
2,000	Daly City Housing Development Finance Agency, California, Mobile Home Park Revenue Bonds, Franciscan Mobile Home Park, Refunding Series 2007A, 5.000%, 12/15/37	4/19 at 100.00 A+	2,003,660

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	California (continued)			
	Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Revenue Bonds, Refunding Series 2015A:			
\$ 2,000	5.000%, 6/01/40 (UB) (4)	6/25 at 100.00	A+	\$2,204,580
2,000	5.000%, 6/01/45 (UB) (4)	6/25 at 100.00	A+	2,193,760
	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Senior Convertible Series 2007A-2, 5.300%, 6/01/37	6/22 at 100.00	B3	3,500,700
	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2018A-1, 5.000%, 6/01/47	6/22 at 100.00	N/R	2,520,350
2,660				
	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2018A-2, 5.000%, 6/01/47	6/22 at 100.00	N/R	4,737,500
5,000				
	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Tender Option Bond Trust 2015-XF1038, 14.049%, 6/01/45, 144A (IF) (4)	6/25 at 100.00	Aa2	1,193,259
860				
	Grossmont Healthcare District, California, General Obligation Bonds, Tender Option Bond Trust 2017-XF2453, 19.341%, 7/15/40, 144A (IF) (4)	7/21 at 100.00	N/R	2,167,350
1,500				
	Hercules Redevelopment Agency, California, Tax Allocation Bonds, Merged Project Area, Series 2005:			
1,000	5.000%, 8/01/25 – AMBAC Insured	4/19 at 100.00	N/R	1,016,070
1,000	5.000%, 8/01/35 – AMBAC Insured	4/19 at 100.00	N/R	1,011,400
	Lancaster Redevelopment Agency, California, Tax Allocation Bonds, Combined Redevelopment Project Areas Housing Programs, Series 2009:			
145	6.875%, 8/01/39 (Pre-refunded 8/01/19)	8/19 at 100.00	BBB (5)	148,774
190	6.875%, 8/01/39 (Pre-refunded 8/01/19)	8/19 at 100.00	N/R (5)	194,946
390	Lee Lake Public Financing Authority, California, Junior Lien Revenue Bonds, Series 2013B, 5.250%, 9/01/32	9/23 at 100.00	N/R	413,782
	Los Angeles County, California, Community Development Commission Headquarters Office Building, Lease Revenue Bonds, Community Development Properties Los Angeles County Inc, Tender Option Bond Trust 2016-XL0022, 15.328%, 9/01/42, 144A (IF) (4)	9/21 at 100.00	N/R	1,109,556
850				
	Los Angeles Department of Airports, California, Revenue Bonds, Los Angeles International Airport, Tender Option Bond Trust 2016-XL0005, 14.740%, 5/15/40, 144A (IF) (4)	5/20 at 100.00	N/R	2,105,959
1,825				
	Lynwood Redevelopment Agency, California, Tax Allocation Revenue Bonds, Project Area A, Subordinate Lien Series 2011A, 7.000%, 9/01/31	9/21 at 100.00	A	1,127,820
1,000				

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	March Joint Powers Redevelopment Agency, California, Tax Allocation Revenue Bonds, March Air Force Base Redevelopment Project, Series 2011A:		
1,000	7.000%, 8/01/26 (Pre-refunded 8/01/21)	8/21 at 100.00 N/R (5)	1,130,600
1,500	7.500%, 8/01/41 (Pre-refunded 8/01/21)	8/21 at 100.00 N/R (5)	1,714,140
	National City Community Development Commission, California, Tax Allocation Bonds, National City Redevelopment Project, Series 2011, 7.000%, 8/01/32 (Pre-refunded 8/01/21)		
500		8/21 at 100.00 A (5)	566,685
	Novato Redevelopment Agency, California, Tax Allocation Bonds, Hamilton Field Redevelopment Project, Series 2011, 6.750%, 9/01/40		
330		9/21 at 100.00 A-	362,762
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	California (continued)			
	Palomar Pomerado Health Care District, California, Certificates of Participation, Series 2010:			
\$ 295	5.250%, 11/01/21 (Pre-refunded 11/01/20)	11/20 at 100.00	Ba1 (5)	\$308,101
1,000	6.000%, 11/01/41 (Pre-refunded 11/01/20)	11/20 at 100.00	Ba1 (5)	1,075,250
	Riverside County Redevelopment Agency, California, Tax Allocation Bonds, Jurupa Valley Project Area, Series 2011B, 6.750%, 10/01/30	10/21 at 100.00	A	1,350,468
	Sacramento City Financing Authority California, Lease Revenue Bonds, Master Lease Program Facilities Projects, Tender Option Bond Trust 2016-XG0100:			
750	15.048%, 12/01/30, 144A (IF) (4)	No Opt. Call	AA-	1,386,368
2,015	15.048%, 12/01/33, 144A (IF) (4)	No Opt. Call	AA-	4,042,412
	San Buenaventura, California, Revenue Bonds, Community Memorial Health System, Series 2011:			
960	8.000%, 12/01/26	12/21 at 100.00	BB	1,095,754
1,000	8.000%, 12/01/31	12/21 at 100.00	BB	1,118,820
	San Francisco City and County Redevelopment Agency Successor Agency, California, Tax Allocation Bonds, Mission Bay South Redevelopment Project, Subordinate Series 2016D, 0.000%, 8/01/31, 144A	8/21 at 61.78	N/R	2,243,937
	Santa Margarita Water District, California, Special Tax Bonds, Community Facilities District 2013-1 Village of Sendero, Series 2013, 5.625%, 9/01/43	9/23 at 100.00	N/R	1,072,910
	Santee Community Development Commission, California, Santee Redevelopment Project Tax Allocation Bonds, Series 2011A, 7.000%, 8/01/41 (Pre-refunded 2/01/21)	2/21 at 100.00	A (5)	1,107,110
	Temecula Public Financing Authority, California, Special Tax Bonds, Community Facilities District 16-01, Series 2017, 6.250%, 9/01/47, 144A	9/27 at 100.00	N/R	1,075,480
	Tobacco Securitization Authority of Northern California, Tobacco Settlement Asset-Backed Bonds, Series 2005A-1, 5.500%, 6/01/45	4/19 at 100.00	B-	1,898,411
	Twentynine Palms Redevelopment Agency, California, Tax Allocation Bonds, Four Corners Project Area, Series 2011A, 7.650%, 9/01/42 (Pre-refunded 9/01/21)	9/21 at 100.00	BBB+ (5)	749,164
	University of California, General Revenue Bonds, Tender Option Bond Trust 2016-XL0001, 14.770%, 5/15/39, 144A (IF) (4)	5/23 at 100.00	N/R	1,773,525
166,315	Total California			177,569,814
	Colorado – 7.4% (4.8% of Total Investments)			
	Cherry Creek Corporate Center Metropolitan District, Arapahoe County, Colorado, Revenue Bonds, Refunding Subordinate Lien Series 2016B, 8.000%, 6/15/37	12/21 at 103.00	N/R	467,650
	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Community Leadership Academy Project, Series 2008, 6.250%, 7/01/28	4/19 at 100.00	BB+	751,425
		4/19 at 100.00	N/R	999,950

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	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Jefferson County School District R-1 - Compass Montessori Secondary School, Series 2006, 5.625%, 2/15/36		
2,220	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Mountain Phoenix Community School, Series 2012, 7.000%, 10/01/42	10/22 at 100.00 N/R	2,297,589
560	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Skyview Academy Project, Series 2014, 5.375%, 7/01/44, 144A	7/24 at 100.00 BB	565,589
2,500	Colorado Health Facilities Authority, Colorado, Revenue Bonds, American Baptist Homes of the Midwest Obligated Group, Series 2013, 8.000%, 8/01/43	2/24 at 100.00 N/R	2,797,300

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Colorado (continued)			
\$ 1,000	Colorado Health Facilities Authority, Colorado, Revenue Bonds, American Baptist Homes Project, Series 2016, 6.125%, 2/01/46, 144A	2/26 at 100.00	N/R	\$979,960
1,285	Colorado Health Facilities Authority, Colorado, Revenue Bonds, Craig Hospital Project, Series 2012, 5.000%, 12/01/32 (UB) (4)	12/22 at 100.00	A+	1,396,063
750	Colorado Health Facilities Authority, Health Facilities Revenue Bonds, Sisters of Charity of Leavenworth Health Services Corporation, Tender Option Bond Trust 2015-XF0054, 15.282%, 1/01/30, 144A (IF)	1/20 at 100.00	AA-	839,198
518	Colorado Housing and Finance Authority, Revenue Bonds, Confluence Energy LLC Project, Series 2007, 5.000%, 12/01/18 (Alternative Minimum Tax) (7)	No Opt. Call	N/R	—
5,045	Colorado Housing and Finance Authority, Revenue Bonds, Confluence Energy LLC Project, Series 2017: 6.750%, 4/01/27 (Alternative Minimum Tax) (7)	No Opt. Call	N/R	635,924
2,224	6.875%, 10/01/27 (Alternative Minimum Tax) (7)	No Opt. Call	N/R	769,417
2,000	Compark Business Campus Metropolitan District, Douglas County, Colorado, General Obligation Bonds, Series 2012A, 6.750%, 12/01/39	12/22 at 100.00	N/R	2,059,980
1,000	Confluence Metropolitan District, Colorado, General Obligation Limited Tax Bonds, Series 2007: 5.400%, 12/01/27	4/19 at 100.00	N/R	600,000
1,500	5.450%, 12/01/34	4/19 at 100.00	N/R	900,000
1,000	Cross Creek Metropolitan District 2, Aurora, Colorado, Unlimited Tax General Obligation Bonds, Refunding Series 2018, 5.375%, 11/01/50, 144A	11/29 at 100.00	N/R	1,001,120
10,000	Denver City and County, Colorado, Airport System Revenue Bonds, Subordinate Lien Series 2018A, 4.000%, 12/01/48 (Alternative Minimum Tax) (UB) (4)	12/28 at 100.00	A	10,048,000
2,000	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004A, 0.000%, 9/01/27 – NPMFG Insured	No Opt. Call	BBB+	1,554,560
708	Erie Highlands Metropolitan District No 1 (In the Town of Erie), Weld County, Colorado, General Obligation Limited Tax Bonds, Series 2015B, 7.750%, 12/15/45	12/20 at 103.00	N/R	695,291
880	Fitzsimons Village Metropolitan District 1, Aurora, Arapahoe County, Colorado, Tax Increment Public Improvement Fee Supported Revenue Bonds, Series 2010A, 7.500%, 3/01/40	3/20 at 100.00	N/R	898,383
1,000	Fitzsimons Village Metropolitan District 3, Arapahoe County, Colorado, Tax Increment/Public Improvement Fee Supported Revenue Bonds, Series 2014A, 6.000%, 3/01/44	3/20 at 100.00	N/R	939,660
1,000	Foothills Metropolitan District, Fort Collins, Colorado, Special Revenue Bonds, Series 2014: 5.750%, 12/01/30	12/24 at 100.00	N/R	1,021,710

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2,080	6.000%, 12/01/38 Great Western Metropolitan District 5, Colorado, General	12/24 at 100.00 N/R	2,114,486
1,989	Obligation Limited Tax Revenue Bonds, Series 2009A-1, 9.000%, 8/01/39 (8), (9) Heritage Todd Creek Metropolitan District, Colorado, General	12/19 at 100.00 N/R	1,895,298
2,000	Obligation Bonds Limited Tax, Refunding & Improvement Series 2015, 6.125%, 12/01/44 Heritage Todd Creek Metropolitan District, Colorado, General	12/24 at 100.00 N/R	2,018,780
912	Obligation Bonds Limited Tax, Series 2007A, 5.500%, 12/01/37	4/19 at 100.00 N/R	891,033

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Colorado (continued)			
\$ 1,000	Iiff Commons Metropolitan District 2, Aurora, Arapahoe County, Colorado, General Obligation Bonds, Limited Tax Convertible to Unlimited Tax Series 2015, 6.250%, 12/01/44	12/20 at 103.00N/R		\$1,004,840
305	Iiff Commons Metropolitan District 2, Aurora, Arapahoe County, Colorado, General Obligation Bonds, Subordinated Limited Tax Convertible to Unlimited Tax Series 2016B, 8.000%, 12/15/46	12/21 at 103.00N/R		306,559
2,000	Jefferson Center Metropolitan District 1, Arvada, Jefferson County, Colorado, Revenue Bonds, Refunding Series 2015, 5.500%, 12/01/45	12/20 at 103.00N/R		1,929,220
675	Johnstown Plaza Metropolitan District, Colorado, Special Revenue Bonds, Series 2016A: 5.250%, 12/01/36	12/21 at 103.00N/R		652,212
1,265	5.375%, 12/01/46	12/21 at 103.00N/R		1,210,264
2,930	Kit Carson County Health Service District, Colorado, Health Care Facility Revenue Bonds, Series 2007, 6.750%, 1/01/34	4/19 at 100.00 N/R		2,844,180
500	Larkridge Metropolitan District No 2, In the City of Thornton, Adams County, Colorado, General Obligation, Limited Tax Convertible to Unlimited Tax, Improvement Bonds, Refunding Series 2019, 5.250%, 12/01/48	12/23 at 103.00N/R		500,595
1,250	Lewis Pointe Metropolitan District, Thornton, Colorado, Limited Tax Convertible to Unlimited Tax General Obligation Bonds, Series 2015A, 6.000%, 12/01/44	12/20 at 100.00N/R		1,251,800
500	Leyden Rock Metropolitan District No 10, In the City of Arvada, Colorado, Limited Tax General Obligation Bonds, Refunding and Improvement Series 20016A, 5.000%, 12/01/45	12/21 at 103.00N/R		502,220
500	Leyden Rock Metropolitan District No 10, In the City of Arvada, Colorado, Limited Tax General Obligation Bonds, Refunding and Improvement Series 20016B, 7.250%, 12/15/45	12/21 at 103.00N/R		495,035
500	Midcities Metropolitan District No 2, In the City and County of Broomfield, Colorado, Subordinate Special Revenue Refunding Bonds, Series 2016B, 7.750%, 12/15/46	12/21 at 103.00N/R		488,195
2,000	Murphy Creek Metropolitan District 3, Aurora, Colorado, General Obligation Bonds, Refunding & Improvement Series 2006, 6.125%, 12/01/35 (10)	4/19 at 100.00 N/R		1,640,000
1,000	Pinon Pines Metropolitan District No 1, El Paso County, Colorado, General Obligation Limited Tax Bonds, Series 2016, 5.375%, 12/01/46	12/21 at 103.00N/R		894,810
1,080	Promenade at Castle Rock Metropolitan District 1, Colorado, General Obligation Bonds, Limited Tax Series 2015A, 5.750%, 12/01/39	12/20 at 103.00N/R		1,121,288
1,000	Regional Transportation District, Colorado, Denver Transit Partners Eagle P3 Project Private Activity Bonds, Series 2010: 6.500%, 1/15/30	7/20 at 100.00	Baa3	1,015,800
1,000	6.000%, 1/15/41	7/20 at 100.00	BBB+	1,017,400
1,000	South Aurora Regional Improvement Authority, Aurora, Colorado, Special Revenue Bonds, Series 2018, 6.250%, 12/01/57	12/23 at 103.00N/R		1,007,020



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978	STC Metropolitan District 2, Superior, Boulder County, Colorado, Limited Tax General Obligation Bonds, Series 2015A, 6.000%, 12/01/38	12/19 at 103.00N/R	996,592
875	STC Metropolitan District 2, Superior, Boulder County, Colorado, Limited Tax General Obligation Bonds, Series 2015B, 7.750%, 12/15/38	12/19 at 103.00N/R	880,696
3,000	Stone Ridge Metropolitan District 2, Colorado, General Obligation Bonds, Limited Tax Convertible to Unlimited, Series 2007, 7.250%, 12/01/31 (6)	4/19 at 100.00 N/R	480,000

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Colorado (continued)			
\$ 1,815	Three Springs Metropolitan District 3, Durango, La Plata County, Colorado, Property Tax Supported Revenue Bonds, Series 2010, 7.750%, 12/01/39	12/20 at 100.00	N/R	\$1,850,393
965	VDW Metropolitan District 2, Larimer County, Colorado, General Obligation Bonds, Refunding Limited Tax Series 2016B, 7.250%, 12/15/45	12/21 at 103.00	N/R	924,364
72,559	Total Colorado			62,151,849
	Connecticut – 0.5% (0.3% of Total Investments)			
2,500	Harbor Point Infrastructure Improvement District, Connecticut, Special Obligation Revenue Bonds, Harbor Point Project, Series 2010A, 7.875%, 4/01/39 (Pre-refunded 4/01/20)	4/20 at 100.00	N/R (5)	2,674,725
6,047	Mashantucket Western Pequot Tribe, Connecticut, Special Revenue Bonds, Subordinate Series 2013A, 6.050%, 7/01/31 (cash 4.000%, PIK 2.050%) (6)	No Opt. Call	N/R	207,101
1,000	Stamford, Connecticut, Special Obligation Revenue Bonds, Mill River Corridor Project, Series 2011aA, 7.000%, 4/01/41 (Pre-refunded 4/01/21)	4/21 at 100.00	N/R (5)	1,109,560
9,547	Total Connecticut			3,991,386
	Delaware – 0.3% (0.2% of Total Investments)			
2,500	Delaware Economic Development Authority, Revenue Bonds, Odyssey Charter School Inc Project, Series 2015A, 7.000%, 9/01/45, 144A	3/25 at 100.00	N/R	2,598,525
	District of Columbia – 0.5% (0.3% of Total Investments)			
165	District of Columbia Tobacco Settlement Corporation, Tobacco Settlement Asset-Backed Bonds, Series 2001, 6.500%, 5/15/33	No Opt. Call	Baa1	177,929
1,000	District of Columbia, Revenue Bonds, Cesar Chavez Public Charter Schools for Public Policy, Series 2011, 7.500%, 11/15/31	11/20 at 100.00	B-	1,018,260
2,500	District of Columbia, Revenue Bonds, Howard University, Tender Option Bond Trust 2016-XG0094, 19.448%, 10/01/37, 144A (IF) (4)	4/21 at 100.00	A1	2,968,875
250	District of Columbia, Revenue Bonds, KIPP DC Issue, Series 2013A, 6.000%, 7/01/33 (Pre-refunded 7/01/23)	7/23 at 100.00	BBB+ (5)	294,418
3,915	Total District of Columbia			4,459,482
	Florida – 13.4% (8.7% of Total Investments)			
1,500	Alachua County Health Facilities Authority, Florida, Health Facilities Revenue Bonds, Terraces at Bonita Springs Project, Series 2011A, 8.125%, 11/15/46	11/21 at 100.00	N/R	1,631,880
815	Ave Maria Stewardship Community District, Florida, Capital Improvement Revenue Bonds, Series 2006A, 5.125%, 5/01/38	4/19 at 100.00	N/R	763,305
1,840	Ave Maria Stewardship Community District, Florida, Capital Improvement Revenue Bonds, Series 2012, 6.700%, 5/01/42	5/22 at 100.00	N/R	1,870,728
1,735	Ave Maria Stewardship Community District, Florida, Capital Improvement Revenue Bonds, Series 2015, 5.375%, 5/01/45	5/25 at 100.00	N/R	1,676,860

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995	Babcock Ranch Community Independent Special District, Charlotte County, Florida, Special Assessment Bonds, Series 2015, 5.250%, 11/01/46	11/25 at 100.00 N/R	1,017,577
905	Belmont Community Development District, Florida, Capital Improvement Revenue Bonds, Phase 1 Project, Series 2013A, 6.125%, 11/01/33	11/24 at 100.00 N/R	1,012,496
1,850	Boggy Creek Improvement District, Orlando, Florida, Special Assessment Revenue Bonds, Refunding Series 2013, 5.125%, 5/01/43	5/23 at 100.00 N/R	1,852,053

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Florida (continued)			
\$ 2,700	Brevard County, Florida, Industrial Development Revenue Bonds, TUFF Florida Tech Project, Series 2009, 6.500%, 11/01/29	11/19 at 100.00	BB+	\$2,753,406
700	Broward County, Florida, Airport Facility Revenue Bonds, Learjet Inc, Series 2000, 7.500%, 11/01/20 (Alternative Minimum Tax)	4/19 at 100.00	Caa1	700,175
1,435	Capital Projects Finance Authority, Florida, Student Housing Revenue Bonds, Capital Projects Loan Program, Series 2001F-1, 5.000%, 10/01/31 – NPFQ Insured	4/19 at 100.00	Baa2	1,444,342
1,000	Capital Trust Agency, Florida, Revenue Bonds, Palm Coast Senior Living Community Project, Series 2017A, 7.000%, 10/01/49, 144A	4/24 at 103.00	N/R	940,170
2,595	Capital Trust Agency, Florida, Revenue Bonds, Provision CARES Proton Therapy Center, Orlando Project, Series 2018, 7.500%, 6/01/48, 144A	6/28 at 100.00	N/R	2,673,447
1,000	Capital Trust Agency, Florida, Senior Living Facilities Revenue Bonds, Elim Senior Housing, Inc Project, Series 2017, 5.875%, 8/01/52, 144A	8/24 at 103.00	N/R	980,620
1,000	Celebration Pointe Community Development District 1, Alachua County, Florida, Special Assessment Revenue Bonds, Series 2014, 5.125%, 5/01/45	5/24 at 100.00	N/R	1,002,420
2,000	Collier County Industrial Development Authority, Florida, Continuing Care Community Revenue Bonds, Arlington of Naples Project, Series 2014A, 7.750%, 5/15/35, 144A	5/24 at 100.00	N/R	1,957,020
940	Copperstone Community Development District, Manatee County, Florida, Capital Improvement Revenue Bonds, Series 2007, 5.200%, 5/01/38	4/19 at 100.00	N/R	940,310
935	Cordoba Ranch Community Development District, Hillsborough County, Florida, Special Assessment Revenue Bonds, Series 2006, 5.550%, 5/01/37	4/19 at 100.00	N/R	904,594
800	Fishhawk Community Development District IV, Hillsborough County, Florida, Special Assessment Revenue Bonds, Series 2013A, 7.000%, 5/01/33	5/23 at 100.00	N/R	827,960
1,850	Florida Development Finance Corporation, Educational Facilities Revenue Bonds, Downtown Doral Charter Elementary School Project, Series 2014A, 6.500%, 7/01/44	7/24 at 100.00	N/R	1,862,395
1,000	Florida Development Finance Corporation, Educational Facilities Revenue Bonds, Downtown Doral Charter Elementary School Project, Series 2017A, 5.750%, 7/01/44, 144A	7/27 at 100.00	N/R	971,990
565	Florida Development Finance Corporation, Educational Facilities Revenue Bonds, Florida Charter Foundation Inc Projects, Series 2016A, 5.000%, 7/15/46, 144A	7/26 at 100.00	N/R	530,524
1,000	Florida Development Finance Corporation, Educational Facilities Revenue Bonds, Renaissance Charter School, Inc Projects, Series 2010A, 6.000%, 9/15/40	9/20 at 100.00	BB+	1,028,850
2,000	Florida Development Finance Corporation, Educational Facilities Revenue Bonds, Renaissance Charter School, Inc Projects, Series 2011A, 7.625%, 6/15/41	6/21 at 100.00	BB	2,147,800
4,000		6/23 at 100.00	N/R	4,540,760

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	Florida Development Finance Corporation, Educational Facilities Revenue Bonds, Renaissance Charter School, Inc. Projects, Series 2013A, 8.500%, 6/15/44			
14,300	Florida, Development Finance Corporation, Surface Transportation Facility Revenue Bonds, Brightline Passenger Rail Project - South Segment, Series 2017, 5.625%, 1/01/47 (Alternative Minimum Tax) (Mandatory Put 1/01/28), 144A	4/19 at 105.00	N/R	14,816,659
2,500	Grand Bay at Doral Community Development District, Miami-Dade County, Florida, Special Assessment Bonds, Doral Breeze Project Series 2012, 5.500%, 11/01/32	11/22 at 100.00	N/R	2,642,300
1,000	Grand Bay at Doral Community Development District, Miami-Dade County, Florida, Special Assessment Improvement Bonds, Assessment Area Two Project, Refunding Series 2014A-2, 6.500%, 5/01/39	5/24 at 100.00	N/R	1,037,070
1,940	Harmony Community Development District, Florida, Capital Improvement Revenue Bonds, Special Assessment, Refunding Series 2014, 5.250%, 5/01/32	5/24 at 100.00	N/R	1,978,082

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Florida (continued)			
\$ 1,000	Lakes by the Bay South Community Development District, Florida, Special Assessment Bonds, Series 2012, 5.750%, 11/01/42	11/22 at 100.00	N/R	\$1,022,480
665	Lakewood Ranch Stewardship District, Florida, Special Assessment Revenue Bonds, Lakewood Centre North Project, Series 2015, 4.875%, 5/01/45	5/25 at 100.00	N/R	650,969
2,000	Lee County Industrial Development Authority, Florida, Charter School Revenue Bonds, Lee County Community Charter Schools, Series 2007A, 5.375%, 6/15/37	4/19 at 100.00	BB-	1,889,480
630	Lee County Industrial Development Authority, Florida, Healthcare Facilities Revenue Bonds, Preserve Project, Series 2017A, 5.750%, 12/01/52, 144A	12/22 at 105.00	N/R	632,967
12,190	Miami Beach, Florida, Resort Tax Revenue Bonds, Series 2015, 5.000%, 9/01/45 (UB) (4)	9/25 at 100.00	AA-	13,735,448
750	Miami Dade County Industrial Development Authority, Florida, Educational Facilities Revenue Bonds, South Florida Autism Charter School Project, Series 2017, 6.000%, 7/01/47, 144A	7/27 at 100.00	N/R	714,660
1,085	Miami World Center Community Development District, Miami-Dade County, Florida, Special Assessment Bonds, Series 2017, 5.250%, 11/01/49	11/27 at 100.00	N/R	1,107,785
750	Miami-Dade County Industrial Development Authority, Florida, Revenue Bonds, Youth Co-Op Charter Schools Project, Series 2015A, 6.000%, 9/15/45, 144A	9/25 at 100.00	N/R	757,433
1,250	Miami-Dade County, Florida, Water and Sewer System Revenue Bonds, Tender Option Bond Trust 2016-XG0030, 14.555%, 10/01/39 – AGM Insured, 144A (IF)	10/20 at 100.00	Aa3	1,522,787
930	Northern Palm Beach County Improvement District, Florida, Water Control and Improvement Bonds, Development Unit 53, Series 2015, 5.500%, 8/01/46	8/26 at 100.00	N/R	955,584
620	Palm Beach County Health Facilities Authority, Florida, Revenue Bonds, Sinai Residences of Boca Raton Project, Series 2014A: 7.000%, 6/01/29	6/22 at 102.00	N/R	688,814
3,110	7.500%, 6/01/49	6/22 at 102.00	N/R	3,496,915
3,665	Pine Island Community Development District, Florida, Special Assessment Bonds, Bella Collina, Series 2004, 5.750%, 5/01/35	4/19 at 100.00	N/R	3,645,502
1,710	Reunion West Community Development District, Florida, Special Assessment Bonds, Series 2004A-1, 6.250%, 5/01/36	5/22 at 100.00	N/R	1,803,400
2,500	Rolling Oaks Community Development District, Florida, Special Assessment Bonds, Series 2016, 6.000%, 11/01/47	11/27 at 100.00	N/R	2,689,725
990	Shingle Creek Community Development District, Florida, Special Assessment Revenue Bonds, Series 2015, 5.400%, 11/01/45	11/25 at 100.00	N/R	982,981
870	Sweetwater Creek Community Development District, Saint John's County, Florida, Capital Improvement Revenue Bonds, Series	4/19 at 100.00	N/R	846,771

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	2007A, 5.500%, 5/01/38			
2,500	Tolomato Community Development District, Florida, Special Assessment Bonds, Convertible, Capital Appreciation, Series 2012A-3, 6.610%, 5/01/40 (9)	5/19 at 100.00	N/R	2,464,325
1,540	Tolomato Community Development District, Florida, Special Assessment Bonds, Convertible, Capital Appreciation, Series 2012A-4, 6.610%, 5/01/40 (9)	5/22 at 100.00	N/R	1,261,876
120	Tolomato Community Development District, Florida, Special Assessment Bonds, Hope Note, Series 2007-3: 6.375%, 5/01/19 (6)	No Opt. Call	N/R	1
1,360	6.650%, 5/01/40 (6)	4/19 at 100.00	N/R	14
2,845	Tolomato Community Development District, Florida, Special Assessment Bonds, Hope Note, Series 2007A-2, 5.250%, 5/01/39 (6)	5/19 at 100.00	N/R	28
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Florida (continued)			
\$ 120	Tolomato Community Development District, Florida, Special Assessment Bonds, Non Performing Parcel Series 2007-1. RMKT, 6.650%, 5/01/40	4/19 at 100.00	N/R	\$111,505
600	Tolomato Community Development District, Florida, Special Assessment Bonds, Non Performing Parcel Series 2007A-1. RMKT, 5.250%, 5/01/39	5/19 at 100.00	N/R	504,288
3,740	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-1, 6.610%, 5/01/40 (6)	4/19 at 100.00	N/R	3,001,387
2,300	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-2, 6.610%, 5/01/40 (6)	4/19 at 100.00	N/R	1,514,251
2,505	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-3, 6.610%, 5/01/40 (6)	4/19 at 100.00	N/R	25
3,545	Tolomato Community Development District, Florida, Special Assessment Bonds, Series 2006, 5.400%, 5/01/37	4/19 at 100.00	N/R	3,548,226
3,405	Twin Creeks North Community Development District, Florida, Special Assessment Bonds, Master Infrastructure Improvements, Series 2016A-2, 6.375%, 11/01/47	11/31 at 100.00	N/R	3,442,353
1,000	Venetian Parc Community Development District, Miami-Dade County, Florida, Special Assessment Bonds, Area One Project, Series 2013, 6.500%, 11/01/43	11/28 at 100.00	N/R	1,269,460
975	Waterset North Community Development District, Hillsborough County, Florida, Special Assessment Revenue Bonds, Series 2014, 5.500%, 11/01/45	11/24 at 100.00	N/R	1,009,310
116,170	Total Florida			111,776,543
	Georgia – 0.9% (0.6% of Total Investments)			
1,000	Atlanta Urban Residential Finance Authority, Georgia, Multifamily Housing Revenue Bonds, Testletree Village Apartments, Series 2013A, 5.000%, 11/01/48	11/23 at 100.00	BBB+	1,010,430
1,250	Clayton County Development Authority, Georgia, Special Facilities Revenue Bonds, Delta Air Lines, Inc. Project, Series 2009A, 8.750%, 6/01/29	6/20 at 100.00	Baa3	1,353,863
1,880	Douglas County Development Authority, Georgia, Charter School Revenue Bonds, Brighten Academy Project, Series 2013A, 7.125%, 10/01/43	10/23 at 100.00	N/R	1,951,515
1,000	Fulton County Development Authority, Georgia, Revenue Bonds, Amana Academy Project, Series 2013A, 6.500%, 4/01/43	4/23 at 100.00	N/R	1,010,010
	Liberty County Industrial Authority, Georgia, Revenue Bonds, Series 2014:			
360	5.500%, 7/15/23	7/21 at 100.00	N/R	360,499
767	5.500%, 7/15/30	7/21 at 100.00	N/R	765,555
842	5.500%, 1/15/36	7/21 at 100.00	N/R	840,984
7,099	Total Georgia			7,292,856



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	Guam – 0.4% (0.2% of Total Investments)		
2,445	Guam Government, General Obligation Bonds, 2009 Series A, 7.000%, 11/15/39 (Pre-refunded 11/15/19)	11/19 at 100.00	N/R (5) 2,546,737
330	Guam International Airport Authority, Revenue Bonds, Series 2013C, 6.375%, 10/01/43 (Alternative Minimum Tax)	10/23 at 100.00	BBB+ 374,992
2,775	Total Guam		2,921,729
	Hawaii – 0.2% (0.1% of Total Investments)		
1,655	Hawaii Department of Budget and Finance, Special Purpose Revenue Bonds, Hawaiian Electric Company, Inc and Subsidiary Projects, Series 2009, 6.500%, 7/01/39	7/19 at 100.00	BBB- 1,684,674

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Idaho – 0.1% (0.0% of Total Investments)			
\$ 500	Idaho Health Facilities Authority, Revenue Bonds, Saint Luke's Health System Project, Tender Option Bond Trust 2016-XG0066, 13.340%, 3/01/47, 144A (IF) (4)	3/22 at 100.00	AA-	\$ 602,785
	Illinois – 27.0% (17.6% of Total Investments)			
625	Bolingbrook, Illinois, Sales Tax Revenue Bonds, Series 2005, 6.250%, 1/01/24	4/19 at 100.00	N/R	609,669
10,670	Chicago Board of Education, Illinois, Dedicated Capital Improvement Tax Revenue Bonds, Series 2016, 6.000%, 4/01/46 (UB) (4)	4/27 at 100.00	A	12,166,254
1,500	Chicago Board of Education, Illinois, General Obligation Bonds, Dedicated Revenues, Project Series 2015C, 5.250%, 12/01/39	12/24 at 100.00	B+	1,536,135
1,000	Chicago Board of Education, Illinois, General Obligation Bonds, Dedicated Revenues, Refunding Series 2010F, 5.000%, 12/01/31	12/20 at 100.00	BB-	1,009,300
1,000	Chicago Board of Education, Illinois, General Obligation Bonds, Dedicated Revenues, Refunding Series 2018D, 5.000%, 12/01/46	12/28 at 100.00	B+	1,008,430
15,385	Chicago Board of Education, Illinois, General Obligation Bonds, Dedicated Revenues, Series 2016A, 7.000%, 12/01/44	12/25 at 100.00	B+	17,622,441
2,025	Chicago Board of Education, Illinois, General Obligation Bonds, Dedicated Revenues, Series 2016B, 6.500%, 12/01/46	12/26 at 100.00	B+	2,273,873
9,910	Chicago Board of Education, Illinois, General Obligation Bonds, Dedicated Revenues, Series 2017A, 7.000%, 12/01/46, 144A	12/27 at 100.00	B+	11,681,412
3,000	Chicago Greater Metropolitan Water Reclamation District, Illinois, General Obligation Bonds, Capital Improvement, Green 2014 Series 2015A, 5.000%, 12/01/44 (UB) (4)	12/24 at 100.00	AA+	3,333,600
7,500	Chicago Transit Authority, Illinois, Sales Tax Receipts Revenue Bonds, Series 2011, 5.250%, 12/01/40 (UB) (4)	12/21 at 100.00	A3	7,886,925
1,511	Chicago, Illinois, Certificates of Participation Tax Increment Bonds, 35th and State Redevelopment Project, Series 2012, 6.100%, 1/15/29	3/19 at 100.00	N/R	1,508,948
2,510	Chicago, Illinois, Certificates of Participation, Tax Increment Allocation Revenue Bonds, Diversey-Narragansett Project, Series 2006, 7.460%, 2/15/26 (6)	4/19 at 100.00	N/R	1,831,247
5,000	Chicago, Illinois, General Airport Revenue Bonds, O'Hare International Airport, Refunding Senior Lien Series 2018A, 4.000%, 1/01/43 (Alternative Minimum Tax) (UB) (4)	1/29 at 100.00	A	4,931,600
30,500	Chicago, Illinois, General Airport Revenue Bonds, O'Hare International Airport, Senior Lien Series 2018B, 5.000%, 1/01/48 (UB) (4)	1/29 at 100.00	A	33,950,465
2,000	Chicago, Illinois, General Obligation Bonds, Project & Refunding Series 2014A, 5.250%, 1/01/30	1/24 at 100.00	Ba1	2,102,160
9,400	Chicago, Illinois, General Obligation Bonds, Project & Refunding Series 2017A, 6.000%, 1/01/38	1/27 at 100.00	BBB-	10,514,746
1,000		1/25 at 100.00	Ba1	1,060,380

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	Chicago, Illinois, General Obligation Bonds, Project and Refunding Series 2005D, 5.500%, 1/01/37			
130	Chicago, Illinois, General Obligation Bonds, Refunding Series 2016C, 5.000%, 1/01/38	1/26 at 100.00	BBB-	134,676
1,500	Chicago, Illinois, General Obligation Bonds, Variable Rate Demand Series 2007F, 5.500%, 1/01/42	1/25 at 100.00	Ba1	1,575,405
5,000	City of Chicago, Illinois, Chicago O'Hare International Airport, Senior Special Facilities Revenue Bonds, TRIPs Obligated Group, Series 2018, 5.000%, 7/01/48 (Alternative Minimum Tax)	7/28 at 100.00	BBB	5,437,700
4,000	Cook County, Illinois, Recovery Zone Facility Revenue Bonds, Navistar International Corporation Project, Series 2010, 6.750%, 10/15/40	10/20 at 100.00	BB-	4,161,560
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Illinois (continued)			
\$ 5,000	Illinois Finance Authority Revenue Bonds, Ness Healthcare NFP, Series 2016A, 6.375%, 11/01/46, 144A	11/26 at 100.00	N/R	\$4,512,400
1,000	Illinois Finance Authority, Recovery Zone Facility Revenue Bonds, Navistar International Corporation Project, Series 2010, 6.750%, 10/15/40	10/20 at 100.00	B2	1,044,450
11,175	Illinois Finance Authority, Revenue Bonds, Ascension Health/fkaPresence Health Network, Series 2016C, 4.000%, 2/15/41 (UB)	2/27 at 100.00	Aa2	11,289,767
1,000	Illinois Finance Authority, Revenue Bonds, Lake Forest College, Series 2012A, 6.000%, 10/01/48	10/22 at 100.00	BBB-	1,052,280
5,000	Illinois Finance Authority, Revenue Bonds, Northwestern Memorial Healthcare, Series 2017A, 4.000%, 7/15/47 (UB) (4)	1/28 at 100.00	AA+	5,048,650
25	Illinois Finance Authority, Revenue Bonds, Provena Health, Series 2009A: 7.750%, 8/15/34 (Pre-refunded 8/15/19)	8/19 at 100.00	N/R (5)	25,791
2,875	7.750%, 8/15/34 (Pre-refunded 8/15/19)	8/19 at 100.00	N/R (5)	2,965,994
2,000	Illinois Finance Authority, Revenue Bonds, Silver Cross Hospital and Medical Centers, Series 2009: 6.875%, 8/15/38 (Pre-refunded 8/15/19)	8/19 at 100.00	N/R (5)	2,054,520
3,850	7.000%, 8/15/44 (Pre-refunded 8/15/19)	8/19 at 100.00	N/R (5)	3,956,645
1,685	Illinois Finance Authority, Revenue Bonds, The Carle Foundation, Tender Option Bond Trust 2015-XF0121: 17.655%, 8/15/41, 144A (IF) (4)	8/21 at 100.00	AA	2,275,053
250	17.667%, 8/15/41, 144A (IF) (4)	8/21 at 100.00	AA	337,610
5,000	Illinois Finance Authority, Revenue Bonds, The University of Chicago Medical Center, Series 2016B, 4.000%, 8/15/41 (UB) (4)	2/27 at 100.00	AA-	5,085,950
1,000	Illinois State, General Obligation Bonds, November Series 2016: 5.000%, 11/01/35	11/26 at 100.00	BBB-	1,038,940
1,000	5.000%, 11/01/37	11/26 at 100.00	BBB-	1,034,290
9,945	Illinois State, General Obligation Bonds, November Series 2017D, 5.000%, 11/01/27 (UB) (4)	No Opt. Call	BBB	10,801,861
630	Illinois State, General Obligation Bonds, Series 2012A, 5.000%, 3/01/36	3/22 at 100.00	BBB-	639,475
5,445	Illinois State, Sales Tax Revenue Bonds, Build Illinois, Refunding Junior Obligation September Series 2016C, 4.000%, 6/15/31 (UB) (4)	6/26 at 100.00	BBB	5,418,483
2,000	Lombard Public Facilities Corporation, Illinois, Conference Center and Hotel Revenue Bonds, First Tier Series 2005A-2, 5.500%, 1/01/36	3/28 at 100.00	N/R	1,825,860
10,000	Metropolitan Pier and Exposition Authority, Illinois, Revenue Bonds, McCormick Place Expansion Project, Series 2002A, 0.000%, 12/15/33 – NPMFG Insured	No Opt. Call	BBB-	5,213,800
800	Railsplitter Tobacco Settlement Authority, Illinois, Tobacco Settlement Revenue Bonds, Series 2010, 6.000%, 6/01/28 (Pre-refunded 6/01/21)	6/21 at 100.00	N/R (5)	876,920

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900	Rantoul, Champaign County, Illinois, Tax Increment Revenue Bonds, Evans Road Series 2013B, 7.000%, 12/01/33 Sales Tax Securitization Corporation, Illinois, Sales Tax Securitization Bonds, Series 2018C:	12/23 at 100.00	N/R	916,038
9,875	5.000%, 1/01/36 (UB) (4)	1/29 at 100.00	AA-	10,992,159
17,750	5.250%, 1/01/48 (UB) (4)	1/29 at 100.00	AA-	19,672,325
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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Illinois (continued)			
\$ 1,000	Southwestern Illinois Development Authority, Health Facility Revenue Bonds, Memorial Group, Inc, Series 2013, 7.125%, 11/01/43 (Pre-refunded 11/01/23)	11/23 at 100.00	N/R (5)	\$1,235,810
895	Yorkville United City Business District, Illinois, Storm Water and Water Improvement Project Revenue Bonds, Series 2007, 6.000%, 1/01/26 (11)	4/19 at 100.00	N/R	474,350
215,266	Total Illinois			226,126,347
	Indiana – 2.2% (1.4% of Total Investments)			
3,830	Carmel Redevelopment District, Indiana, Tax Increment Revenue Bonds, Series 2004A, 6.650%, 7/15/24	1/24 at 100.00	N/R	3,901,200
1,000	Indiana Bond Bank, Special Program Bonds, Hendricks Regional Health Project, Tender Option Bond Trust 2016-XL0019, 15.328%, 4/01/30, 144A (IF) (4)	No Opt. Call	AA	1,942,390
1,250	Indiana Bond Bank, Special Program Gas Revenue Bonds, JP Morgan Ventures Energy Corporation Guaranteed, Tender Option Bond Trust 2015-XF0115, 14.524%, 10/15/20, 144A (IF) (4)	No Opt. Call	A	1,499,100
1,000	Indiana Finance Authority, Educational Facilities Revenue Bonds, Discovery Charter School Project, Series 2015A, 7.250%, 12/01/45	12/25 at 100.00	BB-	1,050,220
1,000	Indiana Finance Authority, Environmental Improvement Revenue Bonds, United States Steel Corporation Project, Refunding Series 2011, 6.000%, 12/01/19	No Opt. Call	B	1,021,490
2,000	Indiana Finance Authority, Environmental Improvement Revenue Bonds, United States Steel Corporation Project, Series 2012, 5.750%, 8/01/42 (Alternative Minimum Tax)	8/22 at 100.00	B	2,006,240
500	Indiana Finance Authority, Hospital Revenue Bonds, King's Daughters' Hospital and Health Services, Series 2010, 5.500%, 8/15/45	8/20 at 100.00	Baa2	517,950
1,290	Indiana Finance Authority, Revenue Bonds, Trinity Health Care Group Revenue Bonds, Tender Option Bond Trust 2015-XF0106: 14.487%, 12/01/37, 144A (IF) (4)	12/20 at 100.00	AA-	1,580,224
1,250	15.484%, 12/01/38, 144A (IF) (4)	12/19 at 100.00	AA-	1,393,838
1,000	Shoals, Indiana, Exempt Facilities Revenue Bonds, National Gypsum Company Project, Series 2013, 7.250%, 11/01/43 (Alternative Minimum Tax)	11/23 at 100.00	N/R	1,099,590
940	St Joseph County, Indiana, Economic Development Revenue Bonds, Chicago Trail Village Apartments, Series 2005A, 7.500%, 7/01/35	7/19 at 100.00	N/R	925,129
1,375	Terre Haute, Indiana, Economic Development Solid Waste Facility Revenue Bonds, Pyrolyx USA Indiana, LLC Project, Series 2017A, 7.250%, 12/01/28 (Alternative Minimum Tax)	No Opt. Call	N/R	1,343,746
16,435	Total Indiana			18,281,117
	Iowa – 0.8% (0.5% of Total Investments)			

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1,030	Iowa Finance Authority, Iowa, Midwestern Disaster Area Revenue Bonds, Alcoa Inc. Project, Series 2012, 4.750%, 8/01/42	8/22 at 100.00	Ba2	1,054,462
2,000	Iowa Finance Authority, Iowa, Midwestern Disaster Area Revenue Bonds, Iowa Fertilizer Company Project, Series 2013, 5.250%, 12/01/25	12/23 at 100.00	B-	2,122,120
1,000	Iowa Tobacco Settlement Authority, Asset Backed Settlement Revenue Bonds, Series 2005C: 5.375%, 6/01/38	4/19 at 100.00	B2	993,390
2,900	5.625%, 6/01/46	4/19 at 100.00	B	2,869,811
6,930	Total Iowa			7,039,783
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Kansas – 0.7% (0.5% of Total Investments)			
\$ 5,305	University of Kansas Hospital Authority, Health Facilities Revenue Bonds, KU Health System, Refunding & Improvement Series 2015, 5.000%, 9/01/45 (UB) (4)	9/25 at 100.00	AA-	\$ 5,788,126
	Kentucky – 7.4% (4.8% of Total Investments)			
5,450	Kentucky Economic Development Finance Authority, Hospital Revenue Bonds, Owensboro Health, Refunding Series 2017A: 5.000%, 6/01/41	6/27 at 100.00	BB+	5,757,271
3,300	5.000%, 6/01/45	6/27 at 100.00	BB+	3,469,455
12,665	5.000%, 6/01/45 (UB) (4)	6/27 at 100.00	BB+	13,315,348
500	Kentucky Economic Development Finance Authority, Hospital Revenue Bonds, Owensboro Medical Health System, Series 2010A, 6.000%, 6/01/30 (Pre-refunded 6/01/20)	6/20 at 100.00	BB+ (5)	527,700
	Kentucky Economic Development Finance Authority, Revenue Bonds, Next Generation Kentucky Information Highway Project, Senior Series 2015A:			
11,000	5.000%, 7/01/37 (UB)	7/25 at 100.00	Baa2	11,825,440
9,295	5.000%, 7/01/40 (UB)	7/25 at 100.00	Baa2	9,775,273
16,800	5.000%, 1/01/45 (UB)	7/25 at 100.00	Baa2	17,424,624
59,010	Total Kentucky			62,095,111
	Louisiana – 1.4% (0.9% of Total Investments)			
2,205	Ascension Parish Industrial development Board, Louisiana, Revenue Bonds, Impala Warehousing (US) LLC Project, Series 2013, 6.000%, 7/01/36	7/23 at 100.00	N/R	2,334,919
100	Louisiana Local Government Environmental Facilities and Community Development Authority, Revenue Bonds, Southgate Suites Retail Project, Series 2007B, 9.000%, 12/15/19 (6)	No Opt. Call	N/R	1
500	Louisiana Local Government Environmental Facilities and Community Development Authority, Revenue Bonds, Westlake Chemical Corporation Projects, Series 2010A-1, 6.500%, 11/01/35	11/20 at 100.00	BBB	532,440
	Louisiana Local Government Environmental Facilities and Community Development Authority, Revenue Bonds, Womans Hospital Foundation Project, Tender Option Bond Trust 2016-XF2336:			
750	17.713%, 10/01/40, 144A (IF) (4)	10/20 at 100.00	N/R	953,745
750	17.723%, 10/01/40, 144A (IF) (4)	10/20 at 100.00	N/R	953,872
1,000	Louisiana Public Facilities Authority, Dock and Wharf Revenue Bonds, Impala Warehousing (US) LLC Project, Series 2013, 6.500%, 7/01/36 (Alternative Minimum Tax), 144A	7/23 at 100.00	N/R	1,087,020
1,785	Louisiana Public Facilities Authority, Revenue Bonds, Lake Charles Charter Academy Foundation Project, Series 2011A, 7.750%, 12/15/31	12/21 at 100.00	N/R	1,931,138
2,000	Louisiana Public Facilities Authority, Revenue Bonds, Loyola University Project, Refunding Series 2017, 0.000%, 10/01/33 (9)	No Opt. Call	BBB	1,843,340
2,110	Louisiana Public Facilities Authority, Revenue Bonds, Southwest Louisiana Charter Academy Foundation Project, Series 2013A,	12/23 at 100.00	N/R	2,235,207



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	8.125%, 12/15/33		
	Louisiana Public Facilities Authority, Solid Waste Disposal		
2,000	Facility Revenue Bonds, Louisiana Pellets Inc Project, Series 2015, No Opt. Call	N/R	20
	7.000%, 7/01/24 (Alternative Minimum Tax), 144A (6)		
13,200	Total Louisiana		11,871,702
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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Maine – 0.4% (0.2% of Total Investments)			
\$ 3,155	Portland Housing Development Corporation, Maine, Section 8 Assisted Senior Living Revenue Bonds, Avesta Housing Development Corporation, Series 2004A, 6.000%, 2/01/34	4/19 at 100.00	Baa2	\$ 3,159,859
	Maryland – 0.9% (0.6% of Total Investments)			
3,000	Maryland Economic Development Corporation, Port Facilities Revenue Bonds, CNX Marine Terminals Inc Port of Baltimore Facility, Refunding Series 2010, 5.750%, 9/01/25	9/20 at 100.00	BB-	3,089,430
4,000	Maryland Economic Development Corporation, Revenue Bonds, Chesapeake Bay Hyatt Conference Center, Series 2006A, 5.000%, 12/01/31 (6)	4/19 at 100.00	N/R	2,720,000
2,500	Maryland Economic Development Corporation, Revenue Bonds, Chesapeake Bay Hyatt Conference Center, Series 2006B, 5.250%, 12/01/31 (6)	4/19 at 100.00	N/R	1,700,000
9,500	Total Maryland			7,509,430
	Massachusetts – 1.7% (1.1% of Total Investments)			
5,735	Massachusetts Educational Financing Authority, Education Loan Revenue Bonds, Issue K, Series 2017B, 4.250%, 7/01/46 (Alternative Minimum Tax) (UB) (4)	7/26 at 100.00	A	5,818,616
5,000	Massachusetts State, General Obligation Bonds, Consolidated Loan, Series 2016A, 5.000%, 3/01/46 (UB) (4)	3/24 at 100.00	AA	5,509,450
2,985	Massachusetts State, General Obligation Bonds, Consolidated Loan, Series 2016E, 4.000%, 4/01/33 (UB) (4)	4/25 at 100.00	AA	3,153,324
13,720	Total Massachusetts			14,481,390
	Michigan – 1.8% (1.2% of Total Investments)			
	Detroit Local Development Finance Authority, Michigan, Tax Increment Bonds, Series 1998A:			
10	5.500%, 5/01/21 – ACA Insured	4/19 at 100.00	B-	10,028
485	5.500%, 5/01/21	5/19 at 100.00	B-	482,944
88	Detroit, Michigan, General Obligation Bonds, Series 2003A, 5.250%, 4/01/22	4/19 at 100.00	N/R	86,246
116	Detroit, Michigan, General Obligation Bonds, Series 2004A-1, 5.250%, 4/01/19 – AMBAC Insured	3/19 at 100.00	N/R	116,164
930	Michigan Finance Authority, Public School Academy Limited Obligation Revenue Bonds, Hope Academy Project, Series 2011, 8.125%, 4/01/41	4/21 at 100.00	B	772,728
1,245	Michigan Finance Authority, Public School Academy Limited Obligation Revenue Bonds, Voyageur Academy Project, Refunding Series 2017 Private Placement of 2017, 5.900%, 7/15/46, 144A	7/27 at 100.00	N/R	977,449
2,225	Michigan Housing Development Authority, Rental Housing Revenue Bonds, Series 2015A: 4.350%, 10/01/45 (UB) (4)	10/24 at 100.00	AA	2,273,038
4,500	4.600%, 4/01/52 (UB) (4)	10/24 at 100.00	AA	4,628,385

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1,620	Michigan Public Educational Facilities Authority, Charter School Revenue Bonds, American Montessori Academy, Series 2007, 6.500%, 12/01/37	4/19 at 100.00	N/R	1,620,016
1,000	Michigan Public Educational Facilities Authority, Limited Obligation Revenue Bonds, Chandler Park Academy Project, Series 2008, 6.500%, 11/01/35	4/19 at 100.00	BBB	1,001,230
1,000	Michigan Public Educational Facilities Authority, Limited Obligation Revenue Bonds, Richfield Public School Academy, Series 2007, 5.000%, 9/01/36	4/19 at 100.00	BBB-	999,960
825	Michigan Public Educational Facilities Authority, Limited Obligation Revenue Bonds, David Ellis Academy-West Charter School Project, Series 2007, 5.875%, 6/01/37	4/19 at 100.00	N/R	809,061

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Michigan (continued)			
\$ 865	Michigan Strategic Fund, Limited Obligation Revenue Bonds, Detroit Thermal LLC Project, Series 2018, 7.000%, 12/01/30 (Alternative Minimum Tax), 144A	12/23 at 100.00	N/R	\$965,720
500	Summit Academy, Michigan, Revenue Bonds, Public School Academy Series 2005, 6.375%, 11/01/35	4/19 at 100.00	B+	500,095
15,409	Total Michigan			15,243,064
	Minnesota – 0.8% (0.5% of Total Investments)			
665	Brooklyn Park, Minnesota, Charter School Lease Revenue Bonds, Athlos Leadership Academy Project, Series 2015A, 5.500%, 7/01/35	7/25 at 100.00	N/R	680,448
1,000	Columbus, Minnesota, Charter School Lease Revenue Bonds, New Millennium Academy Project, Series 2015A, 6.000%, 7/01/45	7/25 at 100.00	B-	849,670
505	Greenwood, Minnesota, Charter School Lease Revenue Bonds, Main Street School of Performing Arts Project, Series 2016A, 5.000%, 7/01/47	7/26 at 100.00	N/R	466,852
2,000	Saint Paul Housing & Redevelopment Authority, Minnesota, Charter School Lease Revenue Bonds, Community School of Excellence, Series 2016A, 5.750%, 7/01/47, 144A	7/26 at 100.00	N/R	1,997,100
3,000	Saint Paul Port Authority, Minnesota, Solid Waste Disposal Revenue Bonds, Gerdau Saint Paul Steel Mill Project, Series 2012-7, 4.500%, 10/01/37 (Alternative Minimum Tax), 144A	10/22 at 100.00	Ba1	2,740,890
7,170	Total Minnesota			6,734,960
	Mississippi – 0.1% (0.1% of Total Investments)			
622	Mississippi Home Corporation, Multifamily Housing Revenue Bonds, Tupelo Personal Care Apartments, Series 2004-2, 6.125%, 9/01/34 (Alternative Minimum Tax)	10/19 at 100.00	N/R	623,819
	Missouri – 2.3% (1.5% of Total Investments)			
1,000	Hanley Road Corridor Transportation Development District, Brentwood and Maplewood, Missouri, Transportation Sales Revenue Bonds, Refunding Series 2009A, 5.875%, 10/01/36	10/19 at 100.00	A-	1,016,320
2,000	Joplin Industrial Development Authority, Missouri, Tax Increment Revenue Bonds, Joplin Recovery TIF Redevelopment Project, Series 2013B, 5.875%, 4/01/36	4/23 at 100.00	N/R	2,078,500
655	Kansas City Industrial Development Authority, Missouri, Sales Tax Revenue Bonds, Ward Parkway Center Community Improvement District, Senior Refunding & Improvement Series 2016, 5.000%, 4/01/46, 144A	4/26 at 100.00	N/R	638,802
2,000	Liberty, Missouri, Special Obligation Tax Increment and Special Districts Bonds, Liberty Commons Project, Subordinate Lien Series 2015B, 8.500%, 6/15/46, 144A	6/25 at 100.00	N/R	1,955,040
10,000	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, Mercy Health, Series 2017C, 4.000%, 11/15/49 (UB) (4)	11/27 at 100.00	AA-	10,125,300
1,100	Saint Louis Industrial Development Authority, Missouri, Confluence Academy Project, Series 2007A, 5.350%, 6/15/32	4/19 at 100.00	N/R	1,036,761
960		9/20 at 100.00	N/R	981,379

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Saint Louis Land Clearance for Redevelopment Authority,  
Missouri, Tax-Exempt Recovery Zone Facilities Improvement,  
Special Revenue Bonds, Kiel Opera House Project, Series 2010B,  
7.000%, 9/01/35

1,353	Saint Louis, Missouri, Tax Increment Financing Revenue Bonds, Fashion Square Redevelopment Project, Series 2008A, 6.300%, 8/22/26	8/19 at 100.00 N/R	1,331,460
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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Missouri (continued)			
\$ 732	Saint Louis, Missouri, Tax Increment Financing Revenue Bonds, Grace Lofts Redevelopment Projects, Series 2007A, 6.000%, 12/31/26	3/26 at 100.00	N/R	\$ 256,200
19,800	Total Missouri			19,419,762
	Nevada – 1.5% (1.0% of Total Investments)			
1,000	City of Henderson, Nevada, Local Improvement District No T-20 Rainbow Canyon, Local Improvement Bonds, Series 2018, 5.375%, 9/01/48	9/28 at 100.00	N/R	999,220
10,000	Las Vegas Convention and Visitors Authority, Nevada, Convention Center Expansion Revenue Bonds, Series 2018B, 4.000%, 7/01/49 (UB) (4)	7/28 at 100.00	A+	10,070,000
305	Sparks Tourism Improvement District 1, Legends at Sparks Marina, Nevada, Senior Sales Tax Revenue Bonds Series 2008A: 6.500%, 6/15/20	4/19 at 100.00	Ba3	305,259
1,500	6.750%, 6/15/28	3/19 at 100.00	Ba3	1,501,185
12,805	Total Nevada			12,875,664
	New Jersey – 6.0% (3.9% of Total Investments)			
2,500	New Jersey Economic Development Authority, Lease Revenue Bonds, State Government Buildings-Health Department & Taxation Division Office Project, Series 2018A, 5.000%, 6/15/47 (UB) (4)	12/27 at 100.00	BBB+	2,610,850
5,000	New Jersey Economic Development Authority, Lease Revenue Bonds, State Government Buildings-Juvenile Justice Commission Facilities Project, Series 2018C, 5.000%, 6/15/47 (UB) (4)	12/27 at 100.00	BBB+	5,221,700
9,500	New Jersey Economic Development Authority, School Facilities Construction Bonds, Series 2017DDD, 5.000%, 6/15/42 (UB) (4)	6/27 at 100.00	BBB+	9,948,970
2,100	New Jersey Economic Development Authority, Special Facilities Revenue Bonds, Continental Airlines Inc., Series 1999, 5.250%, 9/15/29 (Alternative Minimum Tax)	8/22 at 101.00	BB	2,279,571
1,080	New Jersey Economic Development Authority, Special Facilities Revenue Bonds, Continental Airlines Inc., Series 2000A & 2000B, 5.625%, 11/15/30 (Alternative Minimum Tax)	3/24 at 101.00	Ba3	1,218,791
1,000	New Jersey Economic Development Authority, Student Housing Revenue Bonds, Provident Group-Montclair Properties LLC, Montclair State University Student Housing Project, Series 2010A, 5.875%, 6/01/42 (Pre-refunded 6/01/20)	6/20 at 100.00	N/R (5)	1,055,120
600	New Jersey Educational Facilities Authority, Revenue Bonds, University of Medicine and Dentistry of New Jersey, Refunding Series 2009B, 7.500%, 12/01/32 (Pre-refunded 6/01/19)	6/19 at 100.00	N/R (5)	611,406
5,200	New Jersey Health Care Facilities Financing Authority, New Jersey, Revenue Bonds, Saint Peters University Hospital, Series 2007, 5.750%, 7/01/37	4/19 at 100.00	BB+	5,213,364
40,000	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Refunding Series 2006C, 0.000%, 12/15/36 –	No Opt. Call	A-	18,318,000

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	AMBAC Insured (UB) (4)		
1,000	South Jersey Port Corporation, New Jersey, Marine Terminal Revenue Bonds, Subordinate Series 2017B, 5.000%, 1/01/42 (Alternative Minimum Tax)	1/28 at 100.00 Baa1	1,063,490
2,200	Tobacco Settlement Financing Corporation, New Jersey, Tobacco Settlement Asset-Backed Bonds, Series 2018B, 5.000%, 6/01/46	6/28 at 100.00 BBB	2,197,250
70,180	Total New Jersey		49,738,512
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	New Mexico – 0.7% (0.4% of Total Investments)			
\$ 320	Mariposa East Public Improvement District, New Mexico, Revenue Bonds, Capital Appreciation Taxable Series 2015D, 0.000%, 3/01/32 (6)	3/19 at 51.34	N/R	\$147,200
55	Mariposa East Public Improvement District, New Mexico, Special Levy Revenue Bonds, Series 2015A, 5.900%, 9/01/32	9/25 at 100.00	N/R	53,991
250	Mariposa East Public Improvement District, New Mexico, Special Levy Revenue Bonds, Series 2015B, 5.900%, 9/01/32	9/25 at 100.00	N/R	245,415
415	Mariposa East Public Improvement District, New Mexico, Special Levy Revenue Bonds, Series 2015C, 5.900%, 9/01/32	9/25 at 100.00	N/R	392,744
1,210	Mesa Del Sol Public Improvement District 1, Albuquerque, New Mexico, Special Levy Revenue Bonds, Series 2013, 7.250%, 10/01/43	10/23 at 100.00	N/R	1,241,436
965	New Mexico Hospital Equipment Loan Council, First Mortgage Revenue Bonds, La Vida LLena Project, Series 2010A, 5.875%, 7/01/30	7/20 at 100.00	BBB	994,712
1,020	Volterra Public Improvement District, Albuquerque, New Mexico, Special Levy Revenue Bonds, Series 2014, 6.750%, 10/01/33	10/24 at 100.00	N/R	1,035,647
1,452	Winrock Town Center Tax Increment Development District, Albuquerque, New Mexico, Gross Receipts Tax Increment Bonds, Senior Lien Series 2015, 6.000%, 5/01/40, 144A	5/20 at 103.00	N/R	1,460,465
5,687	Total New Mexico			5,571,610
	New York – 9.7% (6.3% of Total Investments)			
1,000	Brooklyn Arena Local Development Corporation, New York, Payment in Lieu of Taxes Revenue Bonds, Barclays Center Project, Series 2009, 6.375%, 7/15/43 (Pre-refunded 1/15/20)	1/20 at 100.00	AA+ (5)	1,045,280
4,000	Build NYC Resource Corporation, New York, Revenue Bonds, Albert Einstein College of Medicine, Inc, Series 2015, 5.500%, 9/01/45, 144A	9/25 at 100.00	N/R	4,246,920
500	Dormitory Authority of the State of New York, Revenue Bonds, Montefiore Obligated Group, Series 2018A, 4.000%, 8/01/38	8/28 at 100.00	BBB	500,000
200	Dormitory Authority of the State of New York, Revenue Bonds, Orange Regional Medical Center Obligated Group, Series 2017, 5.000%, 12/01/36, 144A	6/27 at 100.00	BBB-	219,826
10,000	Metropolitan Transportation Authority, New York, Transportation Revenue Bonds, Series 2016C-1, 5.000%, 11/15/56 (UB) (4)	11/26 at 100.00	A	10,864,400
14,260	New York City Housing Development Corporation, New York, Multifamily Housing Revenue Bonds, Sustainable Neighborhood Series 2018K, 4.125%, 11/01/53 (UB) (4)	11/25 at 100.00	Aa2	14,319,607
1,500	New York City Industrial Development Agency, New York, Civic Facility Revenue Bonds, Bronx Parking Development Company, LLC Project, Series 2007: 5.750%, 10/01/37 (6)	4/19 at 100.00	N/R	982,500
5,000	5.875%, 10/01/46 (6)	10/37 at 100.00	N/R	3,275,000
470	New York City Industrial Development Agency, New York, Civic Facility Revenue Bonds, Special Needs Facilities Pooled	4/19 at 100.00	N/R	457,066



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	Program, Series 2008A-1, 5.800%, 7/01/23			
7,075	New York City, New York, General Obligation Bonds, Fiscal 2017 Series A-1, 5.000%, 8/01/38 (UB) (4)	8/26 at 100.00	Aa1	8,002,886
3,000	New York Liberty Development Corporation, New York, Liberty Revenue Bonds, 3 World Trade Center Project, Class 1 Series 2014, 5.000%, 11/15/44, 144A	11/24 at 100.00	N/R	3,110,940
3,250	New York Liberty Development Corporation, New York, Liberty Revenue Bonds, 3 World Trade Center Project, Class 2 Series 2014, 5.150%, 11/15/34, 144A	11/24 at 100.00	N/R	3,475,582

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	New York (continued)			
\$ 6,000	New York Liberty Development Corporation, New York, Liberty Revenue Bonds, 3 World Trade Center Project, Class 3 Series 2014, 7.250%, 11/15/44, 144A	11/24 at 100.00	N/R	\$6,993,660
1,375	New York Liberty Development Corporation, New York, Liberty Revenue Bonds, Bank of America Tower at One Bryant Park Project, Second Priority Refunding Series 2010, 6.375%, 7/15/49	1/20 at 100.00	BBB-	1,427,979
500	New York Liberty Development Corporation, New York, Liberty Revenue Bonds, Secured by Port Authority Consolidated Bonds, Tender Option Bond Trust 2016-XG0062, 14.680%, 12/15/41, 144A (IF) (4)	12/21 at 100.00	AA-	651,665
250	New York Liberty Development Corporation, New York, Second Priority Liberty Revenue Refunding Bonds, Bank of America Tower at One Bryant Park Project, Tender Option Bond Trust 2016-XG0018:			
625	15.239%, 1/15/44, 144A (IF) (4)	1/20 at 100.00	AA+	278,115
	15.239%, 1/15/44, 144A (IF) (4)	1/20 at 100.00	AA+	695,287
4,985	New York Transportation Development Corporation, Special Facilities Bonds, LaGuardia Airport Terminal B Redevelopment Project, Series 2016A, 5.000%, 7/01/46 – AGM Insured (Alternative Minimum Tax) (UB) (4)	7/24 at 100.00	A2	5,453,141
3,265	Port Authority of New York and New Jersey, Consolidated Revenue Bonds, Two Hundred Series 2017, 5.000%, 4/15/57 (UB) (4)	4/27 at 100.00	AA-	3,645,732
530	Port Authority of New York and New Jersey, Special Project Bonds, JFK International Air Terminal LLC Project, Eighth Series 2010, 6.000%, 12/01/42	12/20 at 100.00	Baa1	561,212
9,975	Westchester County Local Development Corporation, New York, Revenue Bonds, Westchester Medical Center Obligated Group Project, Refunding Series 2016, 5.000%, 11/01/46 (UB) (4)	11/25 at 100.00	BBB-	10,589,061
77,760	Total New York			80,795,859
	North Carolina – 0.1% (0.1% of Total Investments)			
940	Charlotte-Mecklenberg Hospital Authority, North Carolina, Health Care Revenue Bonds, DBA Carolinas HealthCare System, Tender Option Bond Trust 2016-XF2222, 15.587%, 1/15/42, 144A (IF)	1/21 at 100.00	AA-	1,161,370
	North Dakota – 0.1% (0.1% of Total Investments)			
2,000	Williston, North Dakota, Multifamily Housing Revenue Bonds, Eagle Crest Apartments LLC Project, Series 2013, 7.750%, 9/01/38 (6)	9/23 at 100.00	N/R	800,000
	Ohio – 8.3% (5.4% of Total Investments)			
30,500	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Second Subordinate Capital Appreciation Turbo Term Series 2007C, 0.000%, 6/01/52	4/19 at 8.71	N/R	779,885
	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series			

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	2007A-2:		
10,000	5.875%, 6/01/30	3/19 at 100.00 Caa3	9,350,600
6,875	5.750%, 6/01/34	3/19 at 100.00 Caa3	6,437,475
10,500	5.875%, 6/01/47	3/19 at 100.00 B-	9,776,970
2,005	6.500%, 6/01/47	3/19 at 100.00 B-	1,987,537
	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco		
5,455	Settlement Asset-Backed Revenue Bonds, Senior Lien, Series	6/22 at 100.00 Caa1	5,366,847
	2007A-3, 6.250%, 6/01/37		
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Ohio (continued)			
\$ 1,500	Butler County Port Authority, Ohio, Public Infrastructure Revenue Bonds, Liberty Center Project, Liberty Community Authority, Series 2014C, 6.000%, 12/01/43	12/22 at 100.00	N/R	\$1,445,550
1,270	Medina County Port Authority, Ohio, Development Revenue Bond, Fiber Network Project, Series 2010B, 6.000%, 12/01/30	12/20 at 100.00	AA-	1,331,798
11,160	Montgomery County, Ohio, Hospital Facilities Revenue Bonds, Kettering Health Network Obligated Group, Series 2016, 4.000%, 8/01/47 (UB) (4)	8/26 at 100.00	A2	11,122,279
2,800	Ohio Air Quality Development Authority, Ohio, Air Quality Development Revenue Bonds, FirstEnergy Generation Corporation Project, Series 2009A, 5.700%, 8/01/20 (6)	No Opt. Call	N/R	2,226,000
2,000	Ohio Air Quality Development Authority, Ohio, Pollution Control Revenue Bonds, FirstEnergy Generation Corporation Project, Refunding Series 2009C, 5.625%, 6/01/19 (6)	No Opt. Call	CCC+	1,970,000
4,750	Ohio Air Quality Development Authority, Ohio, Pollution Control Revenue Bonds, FirstEnergy Nuclear Generation Project, Refunding Series 2008C, 3.950%, 11/01/32 (Alternative Minimum Tax) (Mandatory Put 5/01/20) (6)	No Opt. Call	N/R	3,776,250
3,000	Ohio Water Development Authority, Pollution Control Revenue Refunding Bonds, FirstEnergy Nuclear Generating Corporation Project, Series 2005B, 4.000%, 1/01/34 (Mandatory Put 7/01/21) (6)	No Opt. Call	N/R	2,385,000
3,085	Ohio Water Development Authority, Pollution Control Revenue Refunding Bonds, FirstEnergy Nuclear Generating Corporation Project, Series 2006A, 3.000%, 5/15/19 (6)	No Opt. Call	N/R	2,452,575
255	Ohio Water Development Authority, Pollution Control Revenue Refunding Bonds, FirstEnergy Nuclear Generating Corporation Project, Series 2008B, 3.625%, 10/01/33 (Mandatory Put 4/01/20) (6)	No Opt. Call	N/R	202,725
995	Ohio Water Development Authority, Pollution Control Revenue Refunding Bonds, FirstEnergy Nuclear Generating Corporation Project, Series 2008C, 3.950%, 11/01/32 (Alternative Minimum Tax) (Mandatory Put 5/01/20) (6)	No Opt. Call	N/R	791,025
3,000	Ohio Water Development Authority, Pollution Control Revenue Refunding Bonds, FirstEnergy Nuclear Generating Corporation Project, Series 2010B, 4.375%, 6/01/33 (Mandatory Put 6/01/22) (6)	No Opt. Call	N/R	2,955,000
3,000	State of Ohio, Solid Waste Disposal Revenue Bonds (USG Corporation Project) Series 1997 Remarketed, 5.600%, 8/01/32 (Alternative Minimum Tax)	2/19 at 100.00	B1	3,004,200
2,000	Tuscarawas County Economic Development and Finance Alliance, Ohio, Higher Education Facilities Revenue Bonds, Ashland University, Refunding & Improvement Series 2015, 6.000%, 3/01/45	3/25 at 100.00	N/R	2,004,920
6,000	Western Reserve Port Authority, Ohio, Solid Waste Facility Revenue Bonds, Central Waste Inc, Series 2007A, 6.350%, 7/01/27 (Alternative Minimum Tax) (6)	7/19 at 100.00	N/R	60
110,150	Total Ohio			69,366,696

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	Oklahoma – 0.3% (0.2% of Total Investments)			
	Fort Sill Apache Tribe of Oklahoma Economic Development			
1,925	Authority, Gaming Enterprise Revenue Bonds, Fort Sill Apache	8/21 at 100.00	N/R	2,177,695
	Casino, Series 2011A, 8.500%, 8/25/26, 144A			
	Pennsylvania – 2.4% (1.6% of Total Investments)			
	Allegheny Country Industrial Development Authority,			
	Pennsylvania, Environmental Improvement Revenue Bonds, United			
	States Steel Corporation Project, Refunding Series 2009:			
500	6.750%, 11/01/24	11/19 at 100.00	B	508,655
2,000	6.875%, 5/01/30	11/19 at 100.00	B	2,017,320
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## NMZ Nuveen Municipal High Income Opportunity Fund (continued)

Portfolio of Investments January 31, 2019

(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Pennsylvania (continued)			
\$ 1,250	Allentown Neighborhood Improvement Zone Development Authority, Pennsylvania, Tax Revenue Bonds, City Center Project, Subordinate Lien, Series 2018, 5.125%, 5/01/32, 144A	5/28 at 100.00	N/R	\$1,266,900
2,500	Beaver County Industrial Development Authority, Pennsylvania, Pollution Control Revenue Refunding Bonds, FirstEnergy Nuclear Generation Project, Series 2006A, 3.500%, 4/01/41 (Mandatory Put 6/01/20) (6)	No Opt. Call	N/R	1,987,500
2,715	Beaver County Industrial Development Authority, Pennsylvania, Pollution Control Revenue Refunding Bonds, FirstEnergy Nuclear Generation Project, Series 2006B, 3.500%, 12/01/35 (Mandatory Put 6/01/20) (6)	No Opt. Call	N/R	2,158,425
185	Montgomery County Industrial Development Authority, Pennsylvania, FHA Insured Mortgage Revenue Bonds, New Regional Medical Center Project, Tender Option Bond Trust 2017-XF2454, 16.183%, 8/01/38, 144A (IF) (4)	8/20 at 100.00	N/R	224,326
5	Pennsylvania Economic Development Financing Authority, Exempt Facilities Revenue Bonds, Shippingport Project, First Energy Guarantor, Series 2006A, 2.550%, 11/01/41 (6)	No Opt. Call	N/R	3,975
4,250	Pennsylvania Economic Development Financing Authority, Exempt Facilities Revenue Refunding Bonds, PPL Energy Supply, LLC Project, Series 2009A, 6.400%, 12/01/38	9/25 at 100.00	B3	4,285,955
4,115	Pennsylvania Economic Development Financing Authority, Solid Waste Disposal Revenue Bonds, USG Corporation Project, Series 1999, 6.000%, 6/01/31 (Alternative Minimum Tax)	6/19 at 100.00	BB+	4,115,329
2,500	Philadelphia Authority for Industrial Development, Pennsylvania, Revenue Bonds, Nueva Esperanza, Inc - Esperanza Academy Charter School, Series 2013, 8.000%, 1/01/33	1/23 at 100.00	N/R	2,741,750
510	Philadelphia Hospitals and Higher Education Facilities Authority, Pennsylvania, Hospital Revenue Bonds, Temple University Health System Obligated Group, Series 2012A, 5.625%, 7/01/36	7/22 at 100.00	Ba1	545,027
180	The Redevelopment Authority of the City of Scranton, Lackawanna county, Pennsylvania, Guaranteed Lease Revenue Bonds, Series 2016A, 5.000%, 11/15/28	5/24 at 100.00	BB+	181,481
20,710	Total Pennsylvania			20,036,643
	Puerto Rico – 0.9% (0.5% of Total Investments)			
5,260	Puerto Rico Aqueduct and Sewerage Authority, Revenue Bonds, Senior Lien Series 2008A: 6.000%, 7/01/38	4/19 at 100.00	C	5,023,300
2,125	6.000%, 7/01/44	4/19 at 100.00	C	2,029,375
7,385	Total Puerto Rico			7,052,675
	Rhode Island – 0.4% (0.2% of Total Investments)			
1,000	Rhode Island Health & Educational Building Corporation, Health Facilities Revenue Bonds, Tockwotton Home, Series 2011, 8.375%,	1/21 at 100.00	N/R (5)	1,122,770

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	1/01/46 (Pre-refunded 1/01/21)			
18,260	Rhode Island Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed Bonds, Series 2007A, 0.000%, 6/01/52	4/19 at 100.00	CCC+	1,967,150
19,260	Total Rhode Island			3,089,920
	South Carolina – 2.3% (1.5% of Total Investments)			
4,000	Lancaster County, South Carolina, Special Assessment Bonds, Edgewater II Improvement District, Series 2007A, 7.750%, 11/01/39 (6)	4/19 at 100.00	N/R	840,000

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	South Carolina (continued)			
\$ 3,477	Lancaster County, South Carolina, Special Assessment Bonds, Edgewater II Improvement District, Series 2007B, 7.700%, 11/01/19 (6)	No Opt. Call	N/R	\$730,170
1,000	South Carolina Jobs-Economic Development Authority, Economic Development Revenue Bonds, Midland Valley Preparatory School Project, Series 2014, 7.750%, 11/15/45, 144A	11/24 at 100.00	N/R	1,101,690
1,250	South Carolina Jobs-Economic Development Authority, Hospital Revenue Bonds, Palmetto Health, Refunding Series 2011A, 6.500%, 8/01/39 (Pre-refunded 8/01/21) – AGM Insured	8/21 at 100.00	AA (5)	1,395,125
3,000	South Carolina Public Service Authority Santee Cooper Revenue Obligations, Refunding Series 2016B, 5.000%, 12/01/46 (UB) (4)	12/26 at 100.00	A+	3,195,540
11,615	South Carolina Public Service Authority, Santee Cooper Revenue Obligations, Series 2014A, 5.000%, 12/01/49 (UB) (4)	6/24 at 100.00	A-	12,177,863
24,342	Total South Carolina			19,440,388
	Tennessee – 4.1% (2.7% of Total Investments)			
3,000	Johnson City Health and Educational Facilities Board, Tennessee, Hospital Revenue Bonds, Mountain States Health Alliance, Refunding Series 2010A, 6.500%, 7/01/38 (Pre-refunded 7/01/20)	7/20 at 100.00	Baa1 (5)	3,196,890
11,095	Metropolitan Government of Nashville-Davidson County Health and Educational Facilities Board, Tennessee, Revenue Bonds, Vanderbilt University Medical Center, Series 2016A:	7/26 at 100.00	Aa1	12,164,891
5,240	5.000%, 7/01/40 (UB)	7/26 at 100.00	Aa1	5,713,172
5,000	The Health and Educational Facilities Board of the City of Franklin, Tennessee, Revenue Bonds, Provision Cares Proton Therapy Center, Nashville Project, Series 2017A, 7.500%, 6/01/47, 144A	6/27 at 100.00	N/R	5,316,900
6,024	The Tennessee Energy Acquisition Corporation, Gas Revenue Bonds, Series 2006B, 5.625%, 9/01/26	No Opt. Call	BBB	7,017,237
940	Wilson County Health and Educational Facilities Board, Tennessee, Senior Living Revenue Bonds, Rutland Place Inc Project, Series 2015A, 5.500%, 1/01/46	4/19 at 100.00	N/R	830,923
31,299	Total Tennessee			34,240,013
	Texas – 5.6% (3.7% of Total Investments)			
1,000	Celina, Texas, Special Assessment Revenue Bonds, Creeks of Legacy Public Improvement District Phase 1 Project, Series 2014, 7.000%, 9/01/40	9/22 at 103.00	N/R	1,001,480
250	Central Texas Regional Mobility Authority, Revenue Bonds, Senior Lien Series 2011:	1/21 at 100.00	Baa1 (5)	269,360
1,000	6.000%, 1/01/41 (Pre-refunded 1/01/21)	1/21 at 100.00	Baa2 (5)	1,091,240
1,965	Clifton Higher Education Finance Corporation, Texas, Education Revenue Bonds, Tejano Center for Community Concerns, Inc.-Raul Yzaguirre School for Success, Refunding Series 2009A, 8.750%, 2/15/28	4/19 at 100.00	B	1,969,009



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2,000	Clifton Higher Education Finance Corporation, Texas, Education Revenue Bonds, Tejano Center for Community Concerns, Inc-Raul Yzaguirre School for Success, Refunding Series 2009A, 9.000%, 2/15/38	4/19 at 100.00 B	2,003,660
4,165	Dallas Area Rapid Transit, Texas, Sales Tax Revenue Bonds, Refunding Series 2016A, 5.000%, 12/01/48 (UB) (4)	12/25 at 100.00 Aa2	4,661,843
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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Texas (continued)			
	Decatur Hospital Authority, Texas, Revenue Bonds, Wise Regional Health System, Series 2013A:			
\$ 410	6.625%, 9/01/31	9/23 at 100.00	N/R	\$475,936
1,000	6.375%, 9/01/42	9/23 at 100.00	N/R	1,118,740
1,500	Fort Bend County Industrial Development Corporation, Texas, Revenue Bonds, NRG Energy Inc. Project, Series 2012A. RMKT, 4.750%, 5/01/38	11/22 at 100.00	Baa3	1,530,285
1,000	Gulf Coast Industrial Development Authority, Texas, Solid Waste Disposal Revenue Bonds, Citgo Petroleum Corporation Project, Series 1998, 8.000%, 4/01/28 (Alternative Minimum Tax)	4/19 at 100.00	B3	1,007,280
835	Heart of Texas Education Finance Corporation, Texas, Gateway Charter Academy, Series 2006A, 6.000%, 2/15/36	4/19 at 100.00	N/R	782,570
3,500	Jefferson County Industrial Development Corporation, Texas, Hurricane Ike Disaster Area Revenue Bonds, Port of Beaumont Petroleum Transload Terminal, LLC Project, Series 2012, 8.250%, 7/01/32	7/22 at 100.00	N/R	3,559,465
2,000	Mission Economic Development Corporation, Texas, Water Supply Revenue Bonds, Enviro Water Minerals Project, Green Bonds, Series 2015, 7.750%, 1/01/45 (Alternative Minimum Tax), 144A (6)	1/26 at 102.00	N/R	1,600,000
1,000	New Hope Cultural Education Facilities Finance Corporation, Texas, Student Housing Revenue Bonds, CHF-Collegiate Housing Corpus Christi I, LLC-Texas A&M University-Corpus Christi Project, Series 2014A, 5.000%, 4/01/44	4/24 at 100.00	BBB-	997,090
1,000	New Hope Cultural Education Facilities Finance Corporation, Texas, Student Housing Revenue Bonds, CHF-Collegiate Housing Foundation - San Antonio 1, L.L.C. - Texas A&M University - San Antonio Project,, 5.000%, 4/01/48	4/26 at 100.00	BBB-	990,840
2,445	New Hope Cultural Education Facilities Finance Corporation, Texas, Student Housing Revenue Bonds, NCCD - College Station Properties LLC - Texas A&M University Project, Series 2015A, 5.000%, 7/01/47	7/25 at 100.00	B3	2,203,776
2,250	North Texas Tollway Authority, Special Projects System Revenue Bonds, Tender Option Bond Trust 2016-XG0036, 16.706%, 9/01/41, 144A (IF)	9/21 at 100.00	AA+	3,093,638
2,000	Red River Health Facilities Development Corporation, Texas, First Mortgage Revenue Bonds, Eden Home Inc, Series 2012, 7.000%, 12/15/32 (6)	12/21 at 100.00	N/R	1,245,000
175	Rowlett, Texas, Special Assessment Revenue Bonds, Bayside Public Improvement District North Improvement Area, Series 2016, 5.750%, 9/15/36	3/24 at 102.00	N/R	166,079
5,000	Texas Department of Housing and Community Affairs, Single Family Mortgage Revenue Bonds, Series 2018A, 4.250%, 9/01/48 (UB) (4)	9/27 at 100.00	AA+	5,111,750
2,810			BBB-	2,917,314

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	Texas Private Activity Bond Surface Transportation Corporation, Revenue Bonds, NTE Mobility Partners LLC North Tarrant Express Managed Lanes Project, Senior Lien Series 2009, 6.875%, 12/31/39	12/19 at 100.00		
	Texas Private Activity Bond Surface Transportation Corporation, Senior Lien Revenue Bonds, LBJ Infrastructure Group LLC IH-635 Managed Lanes Project, Series 2010:			
1,000	7.000%, 6/30/34	6/20 at 100.00	Baa3	1,061,630
4,500	7.000%, 6/30/40	6/20 at 100.00	Baa3	4,772,025
	Texas Public Finance Authority Charter School Finance Corporation, Charter School Revenue Bonds, School of Excellence Education Project, Series 2004A, 7.000%, 12/01/34	4/19 at 100.00	BB-	811,377

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Texas (continued)			
\$ 2,075	Texas State Affordable Housing Corporation Multifamily Housing Revenue Bonds, Peoples El Shaddai Village and St James Manor Apartments Project, Series 2016, 4.850%, 12/01/56, 144A	1/34 at 100.00	N/R	\$2,060,197
60	Travis County Health Facilities Development Corporation, Texas, Revenue Bonds, Westminster Manor, Series 2010: 7.000%, 11/01/30	11/20 at 100.00	BBB+	62,816
440	7.000%, 11/01/30 (Pre-refunded 11/01/20)	11/20 at 100.00	N/R (5)	478,645
46,190	Total Texas			47,043,045
	Utah – 1.1% (0.7% of Total Investments)			
1,690	Utah State Charter School Finance Authority, Charter School Revenue Bonds, North Davis Preparatory Academy, Series 2010, 6.375%, 7/15/40	7/20 at 100.00	BBB-	1,752,615
1,980	Utah State Charter School Finance Authority, Charter School Revenue Bonds, Summit Academy High School, Series 2011A, 8.125%, 5/15/31	5/21 at 100.00	N/R	2,104,106
5,420	Utah State Charter School Finance Authority, Revenue Bonds, Summit Academy Project, Series 2007A, 5.800%, 6/15/38	4/19 at 100.00	BBB-	5,428,997
9,090	Total Utah			9,285,718
	Vermont – 0.6% (0.4% of Total Investments)			
3,400	Vermont Educational and Health Buildings Financing Agency, Revenue Bonds, University of Vermont Medical Center Project, Green Series 2016B, 5.000%, 12/01/46 (UB) (4)	6/26 at 100.00	A	3,773,218
1,155	Vermont Educational and Health Buildings Financing Agency, Revenue Bonds, Vermont Law School Project, Series 2011A, 6.250%, 1/01/41 (Pre-refunded 1/01/21)	1/21 at 100.00	N/R (5)	1,249,837
4,555	Total Vermont			5,023,055
	Virgin Islands – 1.1% (0.7% of Total Investments)			
	Virgin Islands Public Finance Authority, Gross Receipts Taxes Loan Note, Refunding Series 2014C:			
1,000	5.000%, 10/01/19	No Opt. Call	N/R	996,610
5,000	5.000%, 10/01/39	10/24 at 100.00	N/R	4,581,250
1,000	Virgin Islands Public Finance Authority, Matching Fund Revenue Loan Note - Diageo Project, Series 2009A, 6.750%, 10/01/37	10/19 at 100.00	Caa3	1,011,140
2,820	Virgin Islands Water and Power Authority, Electric System Revenue Bonds, BANS Series 2018B, 7.000%, 7/01/20, 144A	No Opt. Call	N/R	2,826,881
9,820	Total Virgin Islands			9,415,881
	Virginia – 2.2% (1.5% of Total Investments)			
762	Celebrate Virginia North Community Development Authority, Special Assessment Revenue Bonds, Series 2003B, 6.250%, 3/01/19 (12)	No Opt. Call	N/R	457,200
5,000	Industrial Development Authority of the City of Newport News, Virginia, Health System Revenue Bonds, Riverside Health System, Series 2017A, 5.000%, 7/01/46, 144A	7/27 at 100.00	N/R	5,198,050
9,400	Metropolitan Washington Airports Authority, Virginia, Dulles Toll Road Revenue Bonds, Dulles Metrorail & Capital improvement Projects, Second Senior Lien Series 2009B, 0.000%, 10/01/38 –	No Opt. Call	BBB+	3,979,960

1,000	AGC Insured Tobacco Settlement Financing Corporation of Virginia, Tobacco Settlement Asset Backed Bonds, Series 2007B1, 5.000%, 6/01/47	3/19 at 100.00	B-	946,380
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## NMZ Nuveen Municipal High Income Opportunity Fund (continued)

Portfolio of Investments January 31, 2019

(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Virginia (continued)			
\$ 7,380	Virginia Small Business Financing Authority, Private Activity Revenue Bonds, Transform 66 P3 Project, Senior Lien Series 2017, 5.000%, 12/31/56 (Alternative Minimum Tax)	6/27 at 100.00	Baa3	\$7,874,976
80	Virginia Small Business Financing Authority, Senior Lien Revenue Bonds, Elizabeth River Crossing, Opco LLC Project, Series 2012: 6.000%, 1/01/37 (Alternative Minimum Tax)	7/22 at 100.00	BBB	87,501
130	5.500%, 1/01/42 (Alternative Minimum Tax)	7/22 at 100.00	BBB	138,927
23,752	Total Virginia			18,682,994
	Washington – 2.1% (1.4% of Total Investments)			
2,415	FYI Properties, Washington, Lease Revenue Bonds, Washington State Department of Information Services Project, Tender Option Bond Trust 2016-XL0006, 16.346%, 6/01/34, 144A (IF) (4)	6/19 at 100.00	AA	2,521,671
500	FYI Properties, Washington, Lease Revenue Bonds, Washington State Department of Information Services Project, Tender Option Bond Trust 2016-XL0007, 16.346%, 6/01/39, 144A (IF) (4)	6/19 at 100.00	AA	521,555
1,000	King County Public Hospital District 4, Washington, Hospital Revenue Bonds, Snoqualmie Valley Hospital, Series 2015A, 6.250%, 12/01/45	12/25 at 100.00	N/R	1,006,500
1,000	Kitsap County Consolidated Housing Authority, Washington, Pooled Tax Credit Housing Revenue Bonds, Series 2007, 5.600%, 6/01/37 (Alternative Minimum Tax)	4/19 at 100.00	N/R	1,000,610
275	Tacoma Consolidated Local Improvement District 65, Washington, Special Assessment Bonds, Series 2013, 5.750%, 4/01/43	4/19 at 100.00	N/R	275,003
3,215	Washington Economic Development Finance Authority, Environmental Facilities Revenue Bonds, Columbia Pulp I, LLC Project, Series 2017A, 7.500%, 1/01/32 (Alternative Minimum Tax), 144A	1/28 at 100.00	N/R	3,605,076
570	Washington Economic Development Finance Authority, Environmental Facilities Revenue Bonds, Columbia Pulp I, LLC Project, Series 2018, 7.250%, 1/01/32 (Alternative Minimum Tax), 144A	1/28 at 100.00	N/R	558,286
7,330	Washington Health Care Facilities Authority, Revenue Bonds, Virginia Mason Medical Center, Series 2017, 4.000%, 8/15/42 (UB)	8/27 at 100.00	BBB	7,101,451
1,000	Washington State Housing Finance Commission, Non-Profit Housing Revenue Bonds, Mirabella Project, Series 2012A, 6.750%, 10/01/47, 144A	10/22 at 100.00	N/R	1,066,360
17,305	Total Washington			17,656,512
	West Virginia – 0.2% (0.2% of Total Investments)			
1,399	Berkeley, Hardy and Jefferson Counties, West Virginia, as Joint Issuers, Commercial Development Revenue Bonds, Scattered Site Housing Projects, Series 2010, 5.750%, 12/01/44	12/23 at 100.00	N/R	1,430,981
500		6/27 at 100.00	N/R	513,590

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	Monongalia County Commission, West Virginia, Special District Excise Tax Revenue, University Town Centre Economic Opportunity Development District, Refunding & Improvement Series 2017A, 5.750%, 6/01/43, 144A			
1,899	Total West Virginia			1,944,571
	Wisconsin – 6.7% (4.3% of Total Investments) Green Bay Redevelopment Authority, Wisconsin, Industrial Development Revenue Bonds, Fort James Project, Series 1999, 5.600%, 5/01/19 (Alternative Minimum Tax)			
30		No Opt. Call	N/R	30,179
	Lac Courte Oreilles Band of Lake Superior Chippewa Indians, Wisconsin, General Revenue Bonds, Refunding Series 2017, 6.750%, 6/01/32			
2,000		12/27 at 100.00N/R		1,933,380
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Wisconsin (continued)			
\$ 5,000	Public Finance Authority of Wisconsin, Charter School Revenue Bonds, North Carolina Charter Educational Foundation Project, Series 2016A, 5.000%, 6/15/46, 144A	6/26 at 100.00	N/R	\$4,466,800
1,650	Public Finance Authority of Wisconsin, Charter School Revenue Bonds, Thomas Jefferson Classical Academy of Mooresboro, North Carolina, Series 2011, 7.125%, 7/01/42	7/19 at 100.00	BBB-	1,659,801
	Public Finance Authority of Wisconsin, Conference Center and Hotel Revenue Bonds, Lombard Public Facilities Corporation, First Tier Series 2018A-1:			
13	0.000%, 1/01/47, 144A	No Opt. Call	N/R	376
11	0.000%, 1/01/48, 144A	No Opt. Call	N/R	326
11	0.000%, 1/01/49, 144A	No Opt. Call	N/R	318
10	0.000%, 1/01/50, 144A	No Opt. Call	N/R	305
10	0.000%, 1/01/51, 144A	No Opt. Call	N/R	298
13	0.000%, 1/01/52, 144A	No Opt. Call	N/R	385
13	0.000%, 1/01/53, 144A	No Opt. Call	N/R	377
13	0.000%, 1/01/54, 144A	No Opt. Call	N/R	362
13	0.000%, 1/01/55, 144A	No Opt. Call	N/R	352
12	0.000%, 1/01/56, 144A	No Opt. Call	N/R	343
596	5.500%, 7/01/56, 144A	3/28 at 100.00	N/R	558,743
14	0.000%, 1/01/57, 144A	No Opt. Call	N/R	377
13	0.000%, 1/01/58, 144A	No Opt. Call	N/R	365
13	0.000%, 1/01/59, 144A	No Opt. Call	N/R	353
13	0.000%, 1/01/60, 144A	No Opt. Call	N/R	344
12	0.000%, 1/01/61, 144A	No Opt. Call	N/R	337
12	0.000%, 1/01/62, 144A	3/28 at 17.35	N/R	325
12	0.000%, 1/01/63, 144A	3/28 at 16.48	N/R	316
12	0.000%, 1/01/64, 144A	No Opt. Call	N/R	308
11	0.000%, 1/01/65, 144A	No Opt. Call	N/R	301
12	0.000%, 1/01/66, 144A	No Opt. Call	N/R	323
148	0.000%, 1/01/67, 144A	No Opt. Call	N/R	3,864
27				



NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Wisconsin (continued)			
	Public Finance Authority of Wisconsin, Conference Center and Hotel Revenue Bonds, Lombard Public Facilities Corporation, Second Tier Series 2018B:			
\$ 24	0.000%, 1/01/46, 144A	No Opt. Call	N/R	\$724
24	0.000%, 1/01/47, 144A	No Opt. Call	N/R	708
24	0.000%, 1/01/48, 144A	No Opt. Call	N/R	698
23	0.000%, 1/01/49, 144A	No Opt. Call	N/R	687
23	0.000%, 1/01/50, 144A	No Opt. Call	N/R	672
25	0.000%, 1/01/51, 144A	No Opt. Call	N/R	732
659	3.750%, 7/01/51, 144A	3/28 at 100.00	N/R	597,300
25	0.000%, 1/01/52, 144A	No Opt. Call	N/R	721
25	0.000%, 1/01/53, 144A	No Opt. Call	N/R	707
25	0.000%, 1/01/54, 144A	No Opt. Call	N/R	697
24	0.000%, 1/01/55, 144A	No Opt. Call	N/R	683
24	0.000%, 1/01/56, 144A	No Opt. Call	N/R	669
24	0.000%, 1/01/57, 144A	No Opt. Call	N/R	660
23	0.000%, 1/01/58, 144A	No Opt. Call	N/R	647
23	0.000%, 1/01/59, 144A	No Opt. Call	N/R	638
23	0.000%, 1/01/60, 144A	No Opt. Call	N/R	630
23	0.000%, 1/01/61, 144A	No Opt. Call	N/R	617
23	0.000%, 1/01/62, 144A	No Opt. Call	N/R	609
22	0.000%, 1/01/63, 144A	No Opt. Call	N/R	596
22	0.000%, 1/01/64, 144A	No Opt. Call	N/R	588
22	0.000%, 1/01/65, 144A	No Opt. Call	N/R	580
22	0.000%, 1/01/66, 144A	No Opt. Call	N/R	568
281	0.000%, 1/01/67, 144A	No Opt. Call	N/R	7,355
	Public Finance Authority of Wisconsin, Contract Revenue Bonds, Mercer Crossing Public Improvement District Project, Series 2017, 7.000%, 3/01/47, 144A	3/27 at 100.00	N/R	4,532,257
4,700				
	Public Finance Authority of Wisconsin, Educational Facility Revenue Bonds, Cottonwood Classical Preparatory School in Albuquerque, New Mexico, Series 2012A, 6.250%, 12/01/42	12/22 at 100.00	N/R	831,303
830				
	Public Finance Authority of Wisconsin, Exempt Facilities Revenue Bonds, National Gypsum Company Project, Refunding Series 2016, 4.000%, 8/01/35 (Alternative Minimum Tax)	8/26 at 100.00	N/R	316,019
335				
	Public Finance Authority of Wisconsin, Limited Obligation Grant Revenue Bonds, American Dream @ Meadowlands Project, Series 2017A, 6.750%, 8/01/31, 144A	No Opt. Call	N/R	1,086,380
1,000				
	Public Finance Authority of Wisconsin, Limited Obligation PILOT Revenue Bonds, American Dream @ Meadowlands Project, Series 2017:			
2,000	6.750%, 12/01/42, 144A	12/27 at 100.00	N/R	2,231,980
14,000	7.000%, 12/01/50, 144A	12/27 at 100.00	N/R	15,732,360

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3,500	Public Finance Authority of Wisconsin, Revenue Bonds, Alabama	9/28 at 100.00	N/R	3,454,500
28	Gulf Coast Zoo, Series 2018A, 6.500%, 9/01/48			

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Wisconsin (continued)			
\$ 500	Public Finance Authority of Wisconsin, Revenue Bonds, Alabama Proton Therapy Center, Senior Series 2017A, 7.000%, 10/01/47, 144A	10/27 at 100.00	N/R	\$524,725
2,415	Public Finance Authority of Wisconsin, Revenue Bonds, Procure Proton Therapy Center, Senior Series 2018A: 6.950%, 7/01/38, 144A	7/28 at 100.00	N/R	2,565,455
4,585	6.950%, 7/01/38, 144A 7.000%, 7/01/48, 144A	7/28 at 100.00	N/R	4,843,181
1,060	Public Finance Authority of Wisconsin, Revenue Bonds, Roseman University of Health Sciences, Series 2015, 5.875%, 4/01/45	4/25 at 100.00	BB	1,121,215
1,000	Public Finance Authority of Wisconsin, Revenue Bonds, SearStone Retirement Community of Cary North Carolina, Series 2016, 6.000%, 6/01/49, 144A	6/22 at 104.00	N/R	1,018,860
5,000	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Ascension Health Alliance Senior Credit Group, Series 2016A, 4.000%, 11/15/46 (UB) (4)	5/26 at 100.00	Aa2	5,028,050
1,000	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Froedtert Community Health, Inc Obligated Group, Tender Option Bond Trust 2015-XF0118, 15.484%, 4/01/39, 144A (IF) (4)	4/19 at 100.00	AA	1,023,070
1,985	Wisconsin Public Finance Authority, Revenue Bonds, SearStone Retirement Community of Cary North Carolina, Series 2012A, 8.625%, 6/01/47 (Pre-refunded 6/01/22)	6/22 at 100.00	N/R (5)	2,386,744
55,010	Total Wisconsin			55,974,143
\$ 1,350,746	Total Municipal Bonds (cost \$1,255,746,496)			1,276,001,874

Shares	Description (1)	Value
	COMMON STOCKS – 1.0% (0.6% of Total Investments)	
	Airlines – 1.0% (0.6% of Total Investments)	
227,514	American Airlines Group Inc (13)	\$ 8,138,176
	Total Common Stocks (cost \$6,316,916)	8,138,176

NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
 Portfolio of Investments January 31, 2019  
 (Unaudited)

Principal Amount (000)	Description (1)	Coupon	Maturity	Ratings (3)	Value
	CORPORATE BONDS – 0.4% (0.3% of Total Investments)				
	Industrials – 0.4% (0.3% of Total Investments)				
\$ 300	Zilkha Biomass Selma LLC	5.000%	8/01/28	N/R	\$303,945
3,200	Zilkha Biomass Selma LLC	10.000%	8/01/38	N/R	3,203,497
3,500	Total Industrials				3,507,442
	Transportation – 0.0% (0.0% of Total Investments)				
25	Las Vegas Monorail Company, Senior Interest Bonds (7), (14)	5.500%	7/15/19	N/R	16,730
7	Las Vegas Monorail Company, Senior Interest Bonds (7), (14)	5.500%	7/15/55	N/R	3,563
32	Total Transportation				20,293
	Utilities – 0.0% (0.0% of Total Investments)				
310	EWM P1 LLC (cash 15.000%, PIK 1.250%) (6)	15.000%	9/01/28	N/R	216,767
\$ 3,842	Total Corporate Bonds (cost \$3,811,059)				3,744,502
	Total Long-Term Investments (cost \$1,265,874,471)				1,287,884,552
	Floating Rate Obligations – (44.4)%				(371,737,000)
	Adjustable Rate MuniFund Term Preferred Shares, net of deferred offering costs – (10.4)% (15)				(86,855,325)
	Other Assets Less Liabilities – 0.9%				7,444,337
	Net Assets Applicable to Common Shares – 100%				\$ 836,736,564

Fair Value Measurements

Fair value is defined as the price that would be received upon selling an investment or transferring a liability in an orderly transaction to an independent buyer in the principal or most advantageous market for the investment. A three-tier hierarchy is used to maximize the use of observable market data and minimize the use of unobservable inputs and to establish classification of fair value measurements for disclosure purposes. Observable inputs reflect the assumptions market participants would use in pricing the asset or liability. Observable inputs are based on market data obtained from sources independent of the reporting entity. Unobservable inputs reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability. Unobservable inputs are based on the best information available in the circumstances. The following is a summary of the three-tiered hierarchy of valuation input levels.

Level 1 – Inputs are unadjusted and prices are determined using quoted prices in active markets for identical securities.

Level 2 – Prices are determined using other significant observable inputs (including quoted prices for similar securities, interest rates, credit spreads, etc.).

Level 3 – Prices are determined using significant unobservable inputs (including management's assumptions in determining the fair value of investments).

The inputs or methodologies used for valuing securities are not an indication of the risks associated with investing in those securities. The following is a summary of the Fund's fair value measurements as of the end of the reporting period:

	Level 1	Level 2	Level 3	Total
Long-Term Investments:				
Municipal Bonds	\$ —	\$1,274,596,533	\$1,405,341	\$1,276,001,874
Common Stocks	8,138,176	—	—	8,138,176
Corporate Bonds	—	3,724,209	20,293	3,744,502
Total	\$8,138,176	\$1,278,320,742	\$1,425,634	\$1,287,884,552



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**Income Tax Information**

The following information is presented on an income tax basis. Differences between amounts for financial statement and federal income tax purposes are primarily due to timing differences in recognizing taxable market discount, timing differences in recognizing certain gains and losses on investment transactions and the treatment of investments in inverse floating rate securities reflected as financing transactions, if any. To the extent that differences arise that are permanent in nature, such amounts are reclassified within the capital accounts on the Statement of Assets and Liabilities presented in the annual report, based on their federal tax basis treatment; temporary differences do not require reclassification. Temporary and permanent differences do not impact the net asset value of the Fund.

The table below presents the cost and unrealized appreciation (depreciation) of the Fund's investment portfolio, as determined on a federal income tax basis, as of January 31, 2019.

Tax cost of investments	\$889,077,255
Gross unrealized:	
Appreciation	\$ 68,434,732
Depreciation	(41,362,863)
Net unrealized appreciation (depreciation) of investments	\$ 27,071,869

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)

Portfolio of Investments January 31, 2019

(Unaudited)

- (1) All percentages shown in the Portfolio of Investments are based on net assets applicable to common shares unless otherwise noted.
- (2) Optional Call Provisions: Dates (month and year) and prices of the earliest optional call or redemption. There may be other call provisions at varying prices at later dates. Certain mortgage-backed securities may be subject to periodic principal paydowns.
- (3) The ratings disclosed are the lowest of Standard & Poor's Group ("Standard & Poor's"), Moody's Investors Service, Inc. ("Moody's") or Fitch, Inc. ("Fitch") rating. Ratings below BBB by Standard & Poor's, Baa by Moody's or BBB by Fitch are considered to be below investment grade. Holdings designated N/R are not rated by any of these national rating agencies.
- (4) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
- (5) Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities, which ensure the timely payment of principal and interest.
- (6) As of, or subsequent to, the end of the reporting period, this security is non-income producing. Non-income producing, in the case of a fixed-income security, generally denotes that the issuer has (1) defaulted on the payment of principal or interest, (2) is under the protection of the Federal Bankruptcy Court or (3) the Fund's Adviser has concluded that the issue is not likely to meet its future interest payment obligations and has ceased accruing additional income on the Fund's records.
- (7) Investment valued at fair value using methods determined in good faith by, or at the discretion of, the Board. For fair value measurement disclosure purposes, investment classified as Level 3.
- (8) On December 1, 2016, the Fund's Adviser determined it was unlikely that this borrower would fulfill its entire obligation on this security, and therefore reduced the security's interest rate of accrual from 9.000% to 6.750%.
- (9) Step-up coupon bond, a bond with a coupon that increases ("steps up"), usually at regular intervals, while the bond is outstanding. The rate shown is the coupon as of the end of the reporting period.
- (10) On July 28, 2015, the Fund's Adviser determined it was unlikely that this borrower would fulfill its entire obligation on this security, and therefore reduced the security's interest rate of accrual from 6.125% to 3.675%.
- (11) On December 9, 2015, the Fund's Adviser determined it was likely that this borrower would fulfill a greater portion of its obligation on this security, and therefore increased the security's interest rate of accrual from 3.675% to 4.900%.
- (12) On July 1, 2014, the Fund's Adviser determined it was unlikely that this borrower would fulfill its entire obligation on this security, and therefore reduced the security's interest rate of accrual from 6.000% to 4.200%.
- (13) On September 1, 2013, the Fund's Adviser determined it was unlikely that this borrower would fulfill its entire obligation on this security, and therefore reduced the security's interest rate of accrual from 6.250% to 4.688%. On November 28, 2011, AMR Corp. ("AMR"), the parent company of American Airlines Group, Inc. ("AAL") filed for federal bankruptcy protection. On December 9, 2013, AMR emerged from federal bankruptcy with the acceptance of its reorganization plan by the bankruptcy court. Under the settlement agreement established to meet AMR's unsecured bond obligations, the bondholders, including the Fund, received a distribution of AAL preferred stock which was converted to AAL common stock over a 120-day period. Every 30 days, a quarter of the preferred stock was converted to AAL common stock based on the 5-day volume-weighted average price and the amount of preferred shares tendered during the optional preferred conversion period.
- (14) During January 2010, Las Vegas Monorail Company ("Las Vegas Monorail") filed for federal bankruptcy protection. During March 2012, Las Vegas Monorail emerged from federal bankruptcy with the acceptance of a reorganization plan assigned by the Federal Bankruptcy Court. Under the reorganization plan, the Fund surrendered its Las Vegas Monorail Project Revenue Bonds, First Tier, Series 2000 and in turn received two senior interest corporate bonds: the first with an annual coupon rate of 5.500% maturing on July 15, 2019 and the second with an annual coupon rate of 3.000% (5.500% after December 31, 2015) maturing on July 15, 2055. The Fund was not accruing income for either senior interest corporate bond. On January 18, 2017, the

Fund's Adviser determined it was likely that this senior interest corporate bond would fulfill its obligation on the security maturing on July 15, 2019, and therefore began accruing income on the Fund's records.

(15) Adjustable Rate MuniFund Term Preferred Shares, net of deferred offering cost as a percentage of Total Investments is 6.7%.

Investment is exempt from registration under Rule 144A of the Securities Act of 1933, as amended. These 144A investments may only be resold in transactions exempt from registration, which are normally those transactions with qualified institutional buyers.

IF Inverse floating rate security issued by a tender option bond ("TOB") trust, the interest rate on which varies inversely with the Securities Industry Financial Markets Association (SIFMA) short-term rate, which resets weekly, or a similar short-term rate, and is reduced by the expenses related to the TOB trust.

PIK Payment-in-kind ("PIK") security. Depending on the terms of the security, income may be received in the form of cash, securities, or a combination of both. The PIK rate shown, where applicable, represents the annualized rate of the last PIK payment made by the issuer as of the end of the reporting period.

UB Underlying bond of an inverse floating rate trust reflected as a financing transaction.

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**Item 2. Controls and Procedures.**

- 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") (17 CFR 270.30a-3(c))) are effective, as of a date within 90 days of the filing date of this report that includes the disclosure required by this paragraph, based on their evaluation of the controls and procedures required by Rule 30a-3(b) under the 1940 Act (17 CFR 270.30a-3(b)) and Rule 13a-15(b) or 15d-15(b) under the Securities Exchange Act of 1934 (17 CFR 240.13a-15(b) or 240.15d-15(b)).
- 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 (17 CFR 270.30a-3(d))) 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.**

File as exhibits as part of this Form a separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the 1940 Act (17 CFR 270.30a-2(a)), exactly as set forth below: See EX-99 CERT attached hereto.

### SIGNATURES

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.

(Registrant) Nuveen Municipal High Income Opportunity Fund

By (Signature and Title) /s/ Gifford R. Zimmerman  
Gifford R. Zimmerman  
Vice President and Secretary

Date: April 1, 2019

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 (Signature and Title) /s/ Cedric H. Antosiewicz  
Cedric H. Antosiewicz  
Chief Administrative Officer (principal executive officer)

Date: April 1, 2019

By (Signature and Title) /s/ Stephen D. Foy  
Stephen D. Foy  
Vice President and Controller (principal financial officer)

Date: April 1, 2019