

NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND  
Form N-Q  
September 28, 2018

**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: July 31, 2018

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 July 31, 2018

(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 145.5% (100.0% of Total Investments)			
	MUNICIPAL BONDS – 144.4% (99.3% of Total Investments)			
	Alabama – 0.7% (0.5% 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	10/18 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 (Alternative Minimum Tax), 144A	9/27 at 100.00	N/R	993,570
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	201,588
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)	10/18 at 100.00	B3	999,930
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	2,005,600
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+	877,760
1,090	Selma Industrial Development Board, Alabama, Environmental Improvement Revenue Bonds, Zilkha Biomass Selma LLC Project, Series 2015, 7.500%, 5/01/25 (Alternative Minimum Tax), 144A (4)	No Opt. Call	N/R	863,596
6,485	Total Alabama			5,942,046
	Arizona – 2.4% (1.7% of Total Investments)			
3,000	Phoenix Industrial Development Authority, Arizona, Lease Revenue Bonds, Rowan University Project, Tender Option Bond Trust 2016-XF2337, 14.841%, 6/01/42, 144A (IF) (5)	6/22 at 100.00	A3	3,825,990
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	433,140
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	1,078,480
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-	95,460
245	Pima County Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Edkey Charter Schools Project, Series 2016: 5.250%, 7/01/36	7/26 at 100.00	BB-	221,840
400	5.375%, 7/01/46	7/26 at 100.00	BB-	353,348
475	5.500%, 7/01/51	7/26 at 100.00	BB-	418,732

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2,000	Pima County Industrial Development Authority, Arizona, Education Facility Revenue Bonds, San Tan Montessori School Project, Series 2014A, 9.000%, 2/01/44	2/24 at 100.00	N/R	2,255,540
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 (6)	493,849

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Arizona (continued)			
\$ 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	\$2,282,725
	Pima County Industrial Development Authority, Arizona, Education Revenue Bonds, Paradise Education Center Project, Series 2010:			
1,315	6.000%, 6/01/40 (Pre-refunded 6/01/19)	6/19 at 100.00	BB+ (6)	1,363,300
500	6.100%, 6/01/45 (Pre-refunded 6/01/19)	6/19 at 100.00	BB+ (6)	518,775
	Pinal County Industrial Development Authority, Arizona, Correctional Facilities Contract Revenue Bonds, Florence West Prison LLC, Series 2002A, 5.250%, 10/01/22 – ACA Insured	10/18 at 100.00	BBB-	1,150,885
1,150	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-	1,866,748
1,665	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	Ba1	3,027,900
2,500	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)	10/18 at 100.00	N/R	942,520
1,000	Total Arizona			20,329,232
18,755	California – 19.0% (13.0% of Total Investments)			
	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	1,066,900
1,000	California County Tobacco Securitization Agency, Tobacco Settlement Asset-Backed Bonds, Sonoma County Tobacco Securitization Corporation, Series 2005, 5.125%, 6/01/38	10/18 at 100.00	BB	2,220,986
2,205	California Health Facilities Financing Authority, California, Revenue Bonds, Sutter Health, Refunding Series 2016B, 5.000%, 11/15/46 (UB) (5)	11/26 at 100.00	A+	11,355,100
10,000	California Health Facilities Financing Authority, Refunding Revenue Bonds, Stanford Hospital and Clinics, Tender Option Bond Trust 2016-XF2353:			
1,250	16.303%, 11/15/40 (Pre-refunded 11/15/21) (IF), 144A (5)	11/21 at 100.00	AA- (6)	1,836,950
1,875	17.293%, 11/15/40 (Pre-refunded 11/15/21) (IF), 144A (5)	11/21 at 100.00	AA- (6)	2,815,238
	California Health Facilities Financing Authority, Revenue Bonds, Children's Hospital Los Angeles, Series 2017A:			
5,165	5.000%, 8/15/42 (UB) (5)	8/27 at 100.00	BBB+	5,739,555
22,115	5.000%, 8/15/47 (UB) (5)	8/27 at 100.00	BBB+	24,484,843
12,500	California Health Facilities Financing Authority, Revenue Bonds, Kaiser Permanente System, Series 2017A-2, 4.000%, 11/01/44	11/27 at 100.00	AA-	12,909,625

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(UB) (5)

California Health Facilities Financing Authority, Revenue Bonds,

Stanford Hospitals and Clinics, Tender Option Bond Trust

2016-XG0049:

1,000	15.338%, 8/15/51 (IF), 144A (5)	8/22 at 100.00	AA-	1,381,500
250	15.342%, 8/15/51 (IF), 144A (5)	8/22 at 100.00	AA-	345,403
	California Municipal Finance Authority, Mobile Home Park			
1,020	Revenue Bonds, Caritas Affordable Housing Inc Projects, Series	8/24 at 100.00	N/R	1,107,944
	2014B, 5.875%, 8/15/49			
	California Municipal Finance Authority, Mobile Home Park			
970	Revenue Bonds, Caritas Projects Series 2010B, 7.250%, 8/15/45	8/20 at 100.00	N/R (6)	1,066,137
	(Pre-refunded 8/15/20)			

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	California (continued)			
\$ 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	\$539,170
7,430	California Municipal Finance Authority, Revenue Bonds, Eisenhower Medical Center, Refunding Series 2017B, 4.000%, 7/01/42 (UB) (5)	7/27 at 100.00	BBB-	7,507,644
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 (6)	1,086,400
10,000	California Municipal Finance Authority, Revenue Bonds, Linxs APM Project, Senior Lien Series 2018A, 4.000%, 12/31/47 (Alternative Minimum Tax) (UB) (5)	6/28 at 100.00	BBB+	10,007,800
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	400,840
1,950	California School Finance Authority, Educational Facilities Revenue Bonds, Tri-Valley Learning Corporation, Series 2012A, 7.000%, 6/01/47 (4)	6/20 at 102.00	N/R	1,452,750
1,300	California State, General Obligation Bonds, Tender Option Bond Trust 2016-XG0039, 17.070%, 3/01/40 – AGM Insured, 144A (IF)	3/20 at 100.00	Aa3	1,603,433
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	BB-	858,632
1,000	5.500%, 12/01/54	12/24 at 100.00	BB-	1,081,940
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-	7,455,156
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+	542,641
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	527,110
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	1,059,910
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	1,650,041
500	California Statewide Community Development Authority, Revenue Bonds, California Baptist University, Series 2011A, 7.500%, 11/01/41 (Pre-refunded 11/01/21)	11/21 at 100.00	N/R (6)	591,745
1,500	California Statewide Community Development Authority, Revenue Bonds, Daughters of Charity Health System, Series 2005A, 5.500%,	10/18 at 100.00	CCC	1,472,355



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7/01/39				
1,845	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	10/18 at 100.00N/R		1,847,675
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	10/18 at 100.00A+		2,003,500
1,000	Fontana, California, Special Tax Bonds, Community Facilities District 31 Citrus Heights North, Series 2006, 5.000%, 9/01/26 (Pre-refunded 9/01/18)	9/18 at 100.00 N/R (6)		1,003,020
2,000	Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Revenue Bonds, Refunding Series 2015A: 5.000%, 6/01/40 (UB) (5)	6/25 at 100.00 A+		2,236,140
2,000	5.000%, 6/01/45 (UB) (5)	6/25 at 100.00 A+		2,229,620
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## NMZ Nuveen Municipal High Income Opportunity Fund (continued)

Portfolio of Investments July 31, 2018

(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	California (continued)			
\$ 3,500	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	\$3,658,655
3,690	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1, 5.125%, 6/01/47 (Pre-refunded 8/30/18)	8/18 at 100.00	B3 (6)	3,703,874
2,660	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	2,733,469
860	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Tender Option Bond Trust 2015-XF1038, 14.601%, 6/01/45, 144A (IF) (5)	6/25 at 100.00	A+	1,254,912
1,500	Grossmont Healthcare District, California, General Obligation Bonds, Tender Option Bond Trust 3253, 19.830%, 7/15/40 (Pre-refunded 7/15/21), 144A (IF) (5)	7/21 at 100.00	Aaa (6)	2,279,925
1,000	Hercules Redevelopment Agency, California, Tax Allocation Bonds, Merged Project Area, Series 2005: 5.000%, 8/01/25 – AMBAC Insured	10/18 at 100.00	N/R	1,016,410
1,000	Hercules Redevelopment Agency, California, Tax Allocation Bonds, Merged Project Area, Series 2005: 5.000%, 8/01/35 – AMBAC Insured	10/18 at 100.00	N/R	1,011,740
	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 (6)	152,849
190	6.875%, 8/01/39 (Pre-refunded 8/01/19)	8/19 at 100.00	N/R (6)	200,285
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	418,969
850	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, 15.934%, 9/01/42, 144A (IF) (5)	9/21 at 100.00	Aa3	1,148,257
1,825	Los Angeles Department of Airports, California, Revenue Bonds, Los Angeles International Airport, Tender Option Bond Trust 2016-XL0005, 15.281%, 5/15/40, 144A (IF) (5)	5/20 at 100.00	Aa3	2,236,246
1,000	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-	1,148,960
	March Joint Powers Redevelopment Agency, California, Tax Allocation Revenue Bonds, March Air Force Base Redevelopment Project, Series 2011A:			

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1,000	7.000%, 8/01/26 (Pre-refunded 8/01/21)	8/21 at 100.00 N/R (6)	1,154,230
1,500	7.500%, 8/01/41 (Pre-refunded 8/01/21)	8/21 at 100.00 N/R (6)	1,753,185
470	Moreno Valley Unified School District, Riverside County, California, Special Tax Bonds, Community Facilities District 2005-3, Series 2007, 5.000%, 9/01/37 (Pre-refunded 9/01/18)	9/18 at 100.00 N/R (6)	471,419
500	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)	8/21 at 100.00 A (6)	578,780
330	Novato Redevelopment Agency, California, Tax Allocation Bonds, Hamilton Field Redevelopment Project, Series 2011, 6.750%, 9/01/40	9/21 at 100.00 A-	368,620
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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:			
\$ 385	5.250%, 11/01/21 (Pre-refunded 11/01/20)	11/20 at 100.00	Ba1 (6)	\$403,684
1,000	6.000%, 11/01/41 (Pre-refunded 11/01/20)	11/20 at 100.00	Ba1 (6)	1,099,980
1,000	Pittsburg Redevelopment Agency, California, Tax Allocation Bonds, Los Medanos Community Development Project, Refunding Series 2008A, 6.500%, 9/01/28 (Pre-refunded 9/01/18)	9/18 at 100.00	N/R (6)	1,004,220
733	River Rock Entertainment Authority, California, Revenue Bonds, Senior Notes Series 2011B, 8.000%, 11/01/18 (4)	10/18 at 100.00	N/R	267,545
1,200	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	1,374,264
	Sacramento City Financing Authority California, Lease Revenue Bonds, Master Lease Program Facilities Projects, Tender Option Bond Trust 2016-XG0100:			
750	15.535%, 12/01/30 – AMBAC Insured (IF), 144A (5)	No Opt. Call	A+	1,333,440
2,015	15.637%, 12/01/33 – AMBAC Insured (IF), 144A (5)	No Opt. Call	A+	3,905,856
	San Buenaventura, California, Revenue Bonds, Community Memorial Health System, Series 2011:			
960	8.000%, 12/01/26	12/21 at 100.00	BB	1,112,659
1,000	8.000%, 12/01/31	12/21 at 100.00	BB	1,139,560
4,095	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	2,163,429
1,000	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	1,087,900
1,000	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 (6)	1,133,260
1,065	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	1,081,135
1,890	Tobacco Securitization Authority of Northern California, Tobacco Settlement Asset-Backed Bonds, Series 2005A-1, 5.500%, 6/01/45	10/18 at 100.00	B-	1,900,187
650	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+ (6)	766,441
1,250	University of California, General Revenue Bonds, Tender Option Bond Trust 2016-XL0001, 15.410%, 5/15/39, 144A (IF) (5)	5/23 at 100.00	AA	1,846,313
147,518	Total California			160,398,361
	Colorado – 6.6% (4.6% of Total Investments)			
500	Aurora Single Tree Metropolitan District, City of Aurora, Adams County, Colorado, Limited Tax General Obligation Bonds,	No Opt. Call	N/R	500,000

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	Refunding Series 2006, 5.000%, 11/15/20		
500	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	475,825
750	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Community Leadership Academy Project, Series 2008, 6.250%, 7/01/28	10/18 at 100.00 BB+	751,493

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Colorado (continued)			
\$ 1,000	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	10/18 at 100.00	N/R	\$1,000,120
2,255	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	2,365,472
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	575,221
5,000	Colorado Health Facilities Authority, Colorado, Revenue Bonds, Adventist Health System/Sunbelt Obligated Group, Series 2016A, 5.000%, 11/15/41 (UB)	5/26 at 100.00	AA	5,571,950
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	2,860,500
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	1,008,060
1,350	Colorado Health Facilities Authority, Colorado, Revenue Bonds, Colorado Senior Residences Project, Series 2012, 6.750%, 6/01/32 (7), (8)	6/22 at 100.00	N/R	495,362
1,285	Colorado Health Facilities Authority, Colorado, Revenue Bonds, Craig Hospital Project, Series 2012, 5.000%, 12/01/32 (UB) (5)	12/22 at 100.00	A	1,398,941
750	Colorado Health Facilities Authority, Health Facilities Revenue Bonds, Sisters of Charity of Leavenworth Health Services Corporation, Tender Option Bond Trust 2015-XF0054, 15.989%, 1/01/30, 144A (IF)	1/20 at 100.00	AA-	891,653
518	Colorado Housing and Finance Authority, Revenue Bonds, Confluence Energy LLC Project, Series 2007, 5.000%, 12/01/18 (Alternative Minimum Tax) (8)	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) (8)	No Opt. Call	N/R	635,924
2,224	6.875%, 10/01/27 (Alternative Minimum Tax) (8)	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	2,082,480
1,000	Confluence Metropolitan District, Colorado, General Obligation Limited Tax Bonds, Series 2007: 5.400%, 12/01/27	10/18 at 100.00	N/R	705,340
1,500	5.450%, 12/01/34	10/18 at 100.00	N/R	1,044,585
2,000		No Opt. Call	BBB+	1,491,100

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	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004A, 0.000%, 9/01/27 – NPFG Insured		
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	708,729
923	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	953,819
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	988,350

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Colorado (continued)			
	Foothills Metropolitan District, Fort Collins, Colorado, Special Revenue Bonds, Series 2014:			
\$ 1,000	5.750%, 12/01/30	12/24 at 100.00	N/R	\$1,029,810
1,080	6.000%, 12/01/38	12/24 at 100.00	N/R	1,107,281
	Great Western Metropolitan District 5, Colorado, General Obligation Limited Tax Revenue Bonds, Series 2009A-1, 9.000%, 8/01/39 (Pre-refunded 12/01/19) (9), (10)	12/19 at 100.00	N/R (6)	1,965,589
1,989				
	Heritage Todd Creek Metropolitan District, Colorado, General Obligation Bonds Limited Tax, Refunding & Improvement Series 2015, 6.125%, 12/01/44	12/24 at 100.00	N/R	2,041,260
2,000				
	Heritage Todd Creek Metropolitan District, Colorado, General Obligation Bonds Limited Tax, Series 2007A, 5.500%, 12/01/37	10/18 at 100.00	N/R	931,824
933				
	Iliff 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 103.00	N/R	1,014,340
1,000				
	Iliff 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 103.00	N/R	309,566
305				
	Jefferson Center Metropolitan District 1, Arvada, Jefferson County, Colorado, Revenue Bonds, Refunding Series 2015, 5.500%, 12/01/45	12/20 at 103.00	N/R	1,983,080
2,000				
	Johnstown Plaza Metropolitan District, Colorado, Special Revenue Bonds, Series 2016A:			
675	5.250%, 12/01/36	12/21 at 103.00	N/R	651,834
1,265	5.375%, 12/01/46	12/21 at 103.00	N/R	1,216,019
	Kit Carson County Health Service District, Colorado, Health Care Facility Revenue Bonds, Series 2007, 6.750%, 1/01/34	10/18 at 100.00	N/R	3,031,093
3,040				
	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 100.00	N/R	1,257,687
1,250				
	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 103.00	N/R	513,610
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 103.00	N/R	498,530
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 103.00	N/R	499,095
500				
	Murphy Creek Metropolitan District 3, Aurora, Colorado, General Obligation Bonds, Refunding & Improvement Series 2006, 6.125%, 12/01/35 (11)	10/18 at 100.00	N/R	1,640,000
2,000				
	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 103.00	N/R	919,070
1,000				
1,080		12/20 at 103.00	N/R	1,134,983



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	Promenade at Castle Rock Metropolitan District 1, Colorado, General Obligation Bonds, Limited Tax Series 2015A, 5.750%, 12/01/39			
	Regional Transportation District, Colorado, Denver Transit Partners Eagle P3 Project Private Activity Bonds, Series 2010:			
1,000	6.500%, 1/15/30	7/20 at 100.00	Baa3	1,063,340
1,000	6.000%, 1/15/41	7/20 at 100.00	Baa3	1,046,960
	STC Metropolitan District 2, Superior, Boulder County, Colorado, Limited Tax General Obligation Bonds, Series 2015A, 6.000%, 12/01/38	12/19 at 103.00	N/R	1,006,382
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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Colorado (continued)			
\$ 875	STC Metropolitan District 2, Superior, Boulder County, Colorado, Limited Tax General Obligation Bonds, Series 2015B, 7.750%, 12/15/38	12/19 at 103.00	N/R	\$886,515
3,000	Stone Ridge Metropolitan District 2, Colorado, General Obligation Bonds, Limited Tax Convertible to Unlimited, Series 2007, 7.250%, 12/01/31 (4)	10/18 at 100.00	N/R	480,000
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	1,867,036
965	VDW Metropolitan District 2, Larimer County, Colorado, General Obligation Bonds, Refunding Limited Tax Series 2016B, 7.250%, 12/15/45	No Opt. Call	A2	924,885
66,118	Total Colorado			56,294,130
	Connecticut – 1.0% (0.7% of Total Investments)			
4,000	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Trinity Health Credit Group, Series 2016CT, 5.000%, 12/01/45 (UB)	6/26 at 100.00	AA-	4,471,560
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 (6)	2,750,800
5,869	Mashantucket Western Pequot Tribe, Connecticut, Special Revenue Bonds, Subordinate Series 2013A, 6.050%, 7/01/31 (cash 4.000%, PIK 2.050%) (4)	No Opt. Call	N/R	183,413
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 (6)	1,133,790
13,369	Total Connecticut			8,539,563
	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	2,502,400
	District of Columbia – 0.6% (0.4% 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	186,740
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-	1,028,890
	District of Columbia, Revenue Bonds, Howard University, Tender Option Bond Trust 2016-XG0094:			
28	20.043%, 10/01/37 (Pre-refunded 4/01/21) (IF), 144A (5)	4/21 at 100.00	Ba2 (6)	35,653
2,472	20.043%, 10/01/37 (IF), 144A	4/21 at 100.00	N/R	3,147,622
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+ (6)	296,190
3,915	Total District of Columbia			4,695,095

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Florida – 15.1% (10.4% 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	1,668,105
815	Ave Maria Stewardship Community District, Florida, Capital Improvement Revenue Bonds, Series 2006A, 5.125%, 5/01/38	10/18 at 100.00	N/R	782,188
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	1,888,006
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Florida (continued)			
\$ 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	\$1,704,655
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	1,008,681
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	1,033,365
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	1,869,647
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+	2,777,112
700	Broward County, Florida, Airport Facility Revenue Bonds, Learjet Inc., Series 2000, 7.500%, 11/01/20 (Alternative Minimum Tax)	10/18 at 100.00	Caa1	700,336
1,435	Capital Projects Finance Authority, Florida, Student Housing Revenue Bonds, Capital Projects Loan Program, Series 2001F-1, 5.000%, 10/01/31 – NPFG Insured	10/18 at 100.00	Baa2	1,436,062
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	987,380
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	1,026,330
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	1,018,090
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	2,177,860
940	Copperstone Community Development District, Manatee County, Florida, Capital Improvement Revenue Bonds, Series 2007, 5.200%, 5/01/38	10/18 at 100.00	N/R	940,056
970	Cordoba Ranch Community Development District, Hillsborough County, Florida, Special Assessment Revenue Bonds, Series 2006, 5.550%, 5/01/37	10/18 at 100.00	N/R	969,990
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	837,560
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	1,887,074
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	1,002,960
565	Florida Development Finance Corporation, Educational Facilities Revenue Bonds, Florida Charter Foundation Inc. Projects, Series	7/26 at 100.00	N/R	557,446

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	2016A, 5.000%, 7/15/46, 144A			
	Florida Development Finance Corporation, Educational Facilities			
1,000	Revenue Bonds, Renaissance Charter School, Inc. Projects, Series	9/20 at 100.00	BB+	1,036,080
	2010A, 6.000%, 9/15/40			
	Florida Development Finance Corporation, Educational Facilities			
2,000	Revenue Bonds, Renaissance Charter School, Inc. Projects, Series	6/21 at 100.00	BB	2,188,320
	2011A, 7.625%, 6/15/41			
	Florida Development Finance Corporation, Educational Facilities			
4,000	Revenue Bonds, Renaissance Charter School, Inc. Projects, Series	6/23 at 100.00	N/R	4,575,800
	2013A, 8.500%, 6/15/44			
	Florida, Development Finance Corporation, Surface Transportation			
14,300	Facility Revenue Bonds, Brightline Passenger Rail Project - South	1/19 at 105.00	BB-	14,863,563
	Segment, Series 2017, 5.625%, 1/01/47 (Alternative Minimum			
	Tax), 144A			

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Florida (continued)			
\$ 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	\$2,682,325
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	1,050,610
1,950	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	2,016,222
1,000	Jacksonville Economic Development Commission, Florida, Industrial Development Revenue Bonds, Gerdau Ameristeel US Inc. Project, Series 2007, 5.300%, 5/01/37 (Alternative Minimum Tax)	10/18 at 100.00	Ba2	1,000,390
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	1,039,550
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	669,323
2,000	Lee County Industrial Development Authority, Florida, Charter School Revenue Bonds, Lee County Community Charter Schools, Series 2007A, 5.375%, 6/15/37	10/18 at 100.00	BB	2,000,140
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	646,405
12,190	Miami Beach, Florida, Resort Tax Revenue Bonds, Series 2015, 5.000%, 9/01/45 (UB) (5)	9/25 at 100.00	AA-	13,553,695
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	739,823
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	1,148,603
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	762,518
84	Miami-Dade County, Florida, Aviation Revenue Bonds, Series 2008, Tender Option Bond Trust 2016-XG0010: 15.801%, 10/01/38 – AGC Insured (Alternative Minimum Tax) (IF), 144A	10/18 at 100.00	A2	86,068
430	15.801%, 10/01/38 (Pre-refunded 10/01/18) – AGC Insured (Alternative Minimum Tax) (IF), 144A (5)	10/18 at 100.00	A2 (6)	440,587
486		10/18 at 100.00	A2 (6)	497,965

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	15.801%, 10/01/38 (Pre-refunded 10/01/18) – AGC Insured (Alternative Minimum Tax) (IF), 144A (5)			
12,430	Miami-Dade County, Florida, General Obligation Bonds, Build Better Communities Program, Series 2015D, 5.000%, 7/01/45 (UB)	7/26 at 100.00	AA	13,973,806
1,250	Miami-Dade County, Florida, Water and Sewer System Revenue Bonds, Tender Option Bond Trust 2016-XG0030, 15.165%, 10/01/39 (Pre-refunded 10/01/20) – AGM Insured, 144A (IF)	10/20 at 100.00	A+ (6)	1,605,612
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	972,817
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	703,179
3,110	7.500%, 6/01/49	6/22 at 102.00	N/R	3,577,464
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Florida (continued)			
\$ 3,680	Pine Island Community Development District, Florida, Special Assessment Bonds, Bella Collina, Series 2004, 5.750%, 5/01/35	10/18 at 100.00	N/R	\$3,632,933
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	1,829,016
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	2,650,775
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	999,365
890	Sweetwater Creek Community Development District, Saint John's County, Florida, Capital Improvement Revenue Bonds, Series 2007A, 5.500%, 5/01/38	10/18 at 100.00	N/R	890,036
2,515	Tolomato Community Development District, Florida, Special Assessment Bonds, Convertible, Capital Appreciation, Series 2012A-3, 0.000%, 5/01/40 (10)	5/19 at 100.00	N/R	2,413,495
1,540	Tolomato Community Development District, Florida, Special Assessment Bonds, Convertible, Capital Appreciation, Series 2012A-4, 0.000%, 5/01/40 (10)	5/22 at 100.00	N/R	1,241,194
120	Tolomato Community Development District, Florida, Special Assessment Bonds, Hope Note, Series 2007-3: 6.375%, 5/01/19 (4)	No Opt. Call	N/R	1
1,360	6.650%, 5/01/40 (4)	10/18 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 (4)	10/18 at 100.00	N/R	28
120	Tolomato Community Development District, Florida, Special Assessment Bonds, Non Performing Parcel Series 2007-1. RMKT, 6.650%, 5/01/40	10/18 at 100.00	N/R	116,498
600	Tolomato Community Development District, Florida, Special Assessment Bonds, Non Performing Parcel Series 2007A-1. RMKT, 5.250%, 5/01/39	10/18 at 100.00	N/R	527,550
3,740	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-1, 0.000%, 5/01/40 (4)	10/18 at 81.98	N/R	2,978,686
2,300	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-2, 0.000%, 5/01/40 (4)	10/18 at 67.45	N/R	1,507,121
2,505	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-3, 6.610%, 5/01/40 (4)	10/18 at 100.00	N/R	25
3,660	Tolomato Community Development District, Florida, Special Assessment Bonds, Series 2006, 5.400%, 5/01/37	10/18 at 100.00	N/R	3,663,953
3,465	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	3,661,119
1,000		11/28 at 100.00	N/R	1,302,630



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	Venetian Parc Community Development District, Miami-Dade County, Florida, Special Assessment Bonds, Area One Project, Series 2013, 6.500%, 11/01/43			
1,000	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	1,057,750
1,000	Windsor at Westside Community Development District, Osceola County, Florida, Special Assessment Bonds, Area 1 Project, Series 2015, 5.125%, 11/01/45	11/25 at 100.00	N/R	991,940
129,300	Total Florida			127,567,897
	Georgia – 1.0% (0.7% 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+	1,012,810
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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Georgia (continued)			
\$ 800	Atlanta, Georgia, Tax Allocation Bonds, Beltline Project Series 2008A Remarketed, 7.500%, 1/01/31 (Pre-refunded 1/01/19)	1/19 at 100.00	A2 (6)	\$820,360
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	1,385,538
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	1,980,185
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	964,240
	Liberty County Industrial Authority, Georgia, Revenue Bonds, Series 2014:			
392	5.500%, 7/15/23	7/21 at 100.00	N/R	394,440
767	5.500%, 7/15/30	7/21 at 100.00	N/R	771,474
841	5.500%, 1/15/36	7/21 at 100.00	N/R	847,162
7,930	Total Georgia			8,176,209
	Guam – 0.3% (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 (6)	2,612,972
330	Guam International Airport Authority, Revenue Bonds, Series 2013C, 6.375%, 10/01/43 (Alternative Minimum Tax)	10/23 at 100.00	BBB	373,563
2,775	Total Guam			2,986,535
	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-	1,720,538
	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, 13.857%, 3/01/47, 144A (IF) (5)	3/22 at 100.00	A-	618,740
	Illinois – 20.1% (13.8% of Total Investments)			
730	Bolingbrook, Illinois, Sales Tax Revenue Bonds, Series 2005, 6.250%, 1/01/24	10/18 at 100.00	N/R	723,532
10,670	Chicago Board of Education, Illinois, Dedicated Capital Improvement Tax Revenue Bonds, Series 2017, 6.000%, 4/01/46 (UB) (5)	4/27 at 100.00	A	12,487,208
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+	1,554,585
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	B2	1,011,100
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+	17,908,909
2,025		12/26 at 100.00	BB-	2,318,767

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	Chicago Board of Education, Illinois, General Obligation Bonds, Dedicated Revenues, Series 2016B, 6.500%, 12/01/46			
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+	11,863,558
3,000	Chicago Greater Metropolitan Water Reclamation District, Illinois, General Obligation Bonds, Capital Improvement, Green 2014 Series 2015A, 5.000%, 12/01/44 (UB) (5)	12/24 at 100.00	AA+	3,299,880

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Illinois (continued)			
\$ 7,500	Chicago Transit Authority, Illinois, Sales Tax Receipts Revenue Bonds, Series 2011, 5.250%, 12/01/40 (UB) (5)	12/21 at 100.00	A3	\$8,003,775
1,595	Chicago, Illinois, Certificates of Participation Tax Increment Bonds, 35th and State Redevelopment Project, Series 2012, 6.100%, 1/15/29	10/18 at 100.00	N/R	1,595,130
2,567	Chicago, Illinois, Certificates of Participation, Tax Increment Allocation Revenue Bonds, Diversey-Narragansett Project, Series 2006, 7.460%, 2/15/26 (4)	10/18 at 100.00	N/R	1,877,756
2,000	Chicago, Illinois, General Obligation Bonds, Project & Refunding Series 2014A, 5.250%, 1/01/30	1/24 at 100.00	Ba1	2,119,540
9,400	Chicago, Illinois, General Obligation Bonds, Project & Refunding Series 2017A, 6.000%, 1/01/38	1/27 at 100.00	BBB-	10,609,780
1,000	Chicago, Illinois, General Obligation Bonds, Project and Refunding Series 2005D, 5.500%, 1/01/37	1/25 at 100.00	Ba1	1,068,340
1,880	Chicago, Illinois, General Obligation Bonds, Refunding Series 2008A, 5.250%, 1/01/37 – FGIC Insured	10/18 at 100.00	Ba1	1,882,444
130	Chicago, Illinois, General Obligation Bonds, Refunding Series 2016C, 5.000%, 1/01/38	1/26 at 100.00	BBB-	136,562
1,500	Chicago, Illinois, General Obligation Bonds, VArivable Rate Demand Series 2007F, 5.500%, 1/01/42	1/25 at 100.00	Ba1	1,595,580
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	5,470,000
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	B+	4,232,800
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	4,674,900
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	1,058,200
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	AA+	11,492,594
1,000	Illinois Finance Authority, Revenue Bonds, Lake Forest College, Series 2012A, 6.000%, 10/01/48	10/22 at 100.00	BBB-	1,069,070
5,000	Illinois Finance Authority, Revenue Bonds, Northwestern Memorial Healthcare, Series 2017A, 4.000%, 7/15/47 (UB) (5)	1/28 at 100.00	AA+	5,090,650
25	Illinois Finance Authority, Revenue Bonds, Provena Health, Series 2009A:			
2,875	7.750%, 8/15/34 (Pre-refunded 8/15/19)	8/19 at 100.00	N/R (6)	26,579
	7.750%, 8/15/34 (Pre-refunded 8/15/19)	8/19 at 100.00	N/R (6)	3,056,556
	Illinois Finance Authority, Revenue Bonds, Silver Cross Hospital and Medical Centers, Series 2009:			
2,000	6.875%, 8/15/38 (Pre-refunded 8/15/19)	8/19 at 100.00	N/R (6)	2,108,380
3,850	7.000%, 8/15/44 (Pre-refunded 8/15/19)	8/19 at 100.00	N/R (6)	4,063,560

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Illinois Finance Authority, Revenue Bonds, The Carle Foundation,  
Tender Option Bond Trust 2015-XF0121:

1,685	19.036%, 8/15/41 – AGM Insured (IF), 144A (5)	8/21 at 100.00	A2	2,367,931
250	19.049%, 8/15/41 – AGM Insured (IF), 144A (5)	8/21 at 100.00	A2	351,400
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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Illinois (continued)			
\$ 5,000	Illinois Finance Authority, Revenue Bonds, The University of Chicago Medical Center, Series 2016B, 4.000%, 8/15/41 (UB) (5)	2/27 at 100.00	AA-	\$5,010,700
3,000	Illinois State, General Obligation Bonds, December Series 2017A, 5.250%, 12/01/30	12/27 at 100.00	BBB-	3,260,220
1,000	Illinois State, General Obligation Bonds, November Series 2016: 5.000%, 11/01/35	11/26 at 100.00	BBB-	1,053,080
1,000	5.000%, 11/01/37	11/26 at 100.00	BBB-	1,049,520
9,945	Illinois State, General Obligation Bonds, November Series 2017D, 5.000%, 11/01/27 (UB) (5)	No Opt. Call	BBB-	10,778,789
630	Illinois State, General Obligation Bonds, Series 2012A, 5.000%, 3/01/36	3/22 at 100.00	BBB-	646,361
5,445	Illinois State, Sales Tax Revenue Bonds, Series 2016C, 4.000%, 6/15/31 (UB) (5)	6/26 at 100.00	A-	5,615,537
2,000	Lombard Public Facilities Corporation, Illinois, Conference Center and Hotel Revenue Bonds, First Tier Series 2005A-2, 5.500%, 1/01/36 – ACA Insured	1/19 at 100.00	N/R	1,862,120
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	BB+	5,053,700
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 (6)	892,064
930	Rantoul, Champaign County, Illinois, Tax Increment Revenue Bonds, Evans Road Series 2013B, 7.000%, 12/01/33	12/23 at 100.00	N/R	956,021
6,170	Sales Tax Securitization Corporation, Illinois, Sales Tax Securitization Bonds, Series 2018A, 5.000%, 1/01/31 (UB) (5)	1/28 at 100.00	AA	7,039,476
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 (6)	1,246,700
895	Yorkville United City Business District, Illinois, Storm Water and Water Improvement Project Revenue Bonds, Series 2007, 6.000%, 1/01/26 (12)	1/19 at 100.00	N/R	474,350
162,467	Total Illinois			170,057,704
	Indiana – 2.2% (1.5% of Total Investments)			
4,150	Carmel Redevelopment District, Indiana, Tax Increment Revenue Bonds, Series 2004A, 6.650%, 1/15/24	10/18 at 100.00	N/R	4,125,266
1,000	Indiana Bond Bank, Special Program Bonds, Hendricks Regional Health Project, Tender Option Bond Trust 2016-XL0019, 15.830%, 4/01/30 – AMBAC Insured, 144A (IF) (5)	No Opt. Call	AA	1,862,090
1,250	Indiana Bond Bank, Special Program Gas Revenue Bonds, JP Morgan Ventures Energy Corporation Guaranteed, Tender Option Bond Trust 2015-XF0115, 15.222%, 10/15/20, 144A (IF) (5)	No Opt. Call	A3	1,601,687

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1,000	Indiana Finance Authority, Educational Facilities Revenue Bonds, Discovery Charter School Project, Series 2015A, 7.250%, 12/25 at 100.00 BB- 12/01/45	1,014,010
1,000	Indiana Finance Authority, Environmental Improvement Revenue Bonds, United States Steel Corporation Project, Refunding Series No Opt. Call B 2011, 6.000%, 12/01/19	1,031,640
2,000	Indiana Finance Authority, Environmental Improvement Revenue Bonds, United States Steel Corporation Project, Series 2012, 8/22 at 100.00 B 5.750%, 8/01/42 (Alternative Minimum Tax)	2,020,580
500	Indiana Finance Authority, Hospital Revenue Bonds, King's Daughters' Hospital and Health Services, Series 2010, 5.500%, 8/20 at 100.00 Baa2 8/15/45	520,780

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Indiana (continued)			
	Indiana Finance Authority, Revenue Bonds, Trinity Health Care Group Revenue Bonds, Tender Option Bond Trust 2015-XF0106:			
\$ 1,290	15.098%, 12/01/37 (Pre-refunded 12/01/20) (IF), 144A (5)	12/20 at 100.00	AA- (6)	\$1,668,757
1,250	16.092%, 12/01/38 (Pre-refunded 12/01/19) (IF), 144A (5)	12/19 at 100.00	AA- (6)	1,493,263
	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	1,124,180
955	St. Joseph County, Indiana, Economic Development Revenue Bonds, Chicago Trail Village Apartments, Series 2005A, 7.500%, 7/01/35	10/18 at 100.00	N/R	955,162
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	1,367,905
16,770	Total Indiana			18,785,320
	Iowa – 0.8% (0.6% of Total Investments)			
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	1,058,274
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-	2,138,640
	Iowa Tobacco Settlement Authority, Asset Backed Settlement Revenue Bonds, Series 2005C:			
1,000	5.375%, 6/01/38	10/18 at 100.00	B2	1,010,820
2,900	5.625%, 6/01/46	10/18 at 100.00	B	2,933,466
6,930	Total Iowa			7,141,200
	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) (5)	9/25 at 100.00	AA-	5,859,585
	Kentucky – 6.4% (4.4% of Total Investments)			
	Kentucky Economic Development Finance Authority, Hospital Revenue Bonds, Owensboro Health, Refunding Series 2017A:			
565	5.000%, 6/01/41	6/27 at 100.00	BB+	602,324
12,665	5.000%, 6/01/45 (UB) (5)	6/27 at 100.00	BB+	13,443,771
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+ (6)	538,105
	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	11,882,640
9,295	5.000%, 7/01/40 (UB)	7/25 at 100.00	Baa2	9,929,383
16,800	5.000%, 1/01/45 (UB)	7/25 at 100.00	Baa2	17,915,016
50,825	Total Kentucky			54,311,239
	Louisiana – 1.4% (1.0% of Total Investments)			
2,205		7/23 at 100.00	N/R	2,372,382



Ascension Parish Industrial development Board, Louisiana,  
Revenue Bonds, Impala Warehousing (US) LLC Project, Series  
2013, 6.000%, 7/01/36

NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Louisiana (continued)			
\$ 100	Louisiana Local Government Environmental Facilities and Community Development Authority, Revenue Bonds, Southgate Suites Retail Project, Series 2007B, 9.000%, 12/15/18 (4)	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	Baa3	546,060
	Louisiana Local Government Environmental Facilities and Community Development Authority, Revenue Bonds, Womans Hospital Foundation Project, Tender Option Bonds Trust 2016-XF2336:			
750	18.314%, 10/01/40 (Pre-refunded 10/01/20) (IF), 144A (5)	10/20 at 100.00	A2 (6)	1,012,072
750	18.325%, 10/01/40 (Pre-refunded 10/01/20) (IF), 144A (5)	10/20 at 100.00	A2 (6)	1,012,237
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	1,107,200
1,825	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	1,961,145
2,000	Louisiana Public Facilities Authority, Revenue Bonds, Loyola University Project, Refunding Series 2017, 0.000%, 10/01/33 (10)	No Opt. Call	BBB	1,788,720
2,110	Louisiana Public Facilities Authority, Revenue Bonds, Southwest Louisiana Charter Academy Foundation Project, Series 2013A, 8.125%, 12/15/33	12/23 at 100.00	N/R	2,266,731
2,000	Louisiana Public Facilities Authority, Solid Waste Disposal Facility Revenue Bonds, Louisiana Pellets Inc Project, Series 2015, 7.000%, 7/01/24 (Alternative Minimum Tax), 144A (4)	10/18 at 100.00	N/R	20
13,240	Total Louisiana			12,066,568
	Maine – 0.4% (0.3% 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	10/18 at 100.00	Baa2	3,159,480
	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-	3,126,870
4,000	Maryland Economic Development Corporation, Revenue Bonds, Chesapeake Bay Hyatt Conference Center, Series 2006A, 5.000%, 12/01/31 (4)	10/18 at 100.00	N/R	2,540,000
2,500	Maryland Economic Development Corporation, Revenue Bonds, Chesapeake Bay Hyatt Conference Center, Series 2006B, 5.250%, 12/01/31 (4)	10/18 at 100.00	N/R	1,587,500
9,500	Total Maryland			7,254,370
	Massachusetts – 1.8% (1.2% of Total Investments)			

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5,735	Massachusetts Educational Financing Authority, Education Loan Revenue Bonds, Issue K, Series 2017B, 4.250%, 7/01/46 (Alternative Minimum Tax) (UB) (5)	7/26 at 100.00	A	5,835,191
480	Massachusetts Port Authority, Special Facilities Revenue Bonds, Delta Air Lines Inc., Series 2001A, 5.000%, 1/01/27 – AMBAC Insured (Alternative Minimum Tax)	1/19 at 100.00	N/R	485,275
5,000	Massachusetts State, General Obligation Bonds, Consolidated Loan, Series 2016A, 5.000%, 3/01/46 (UB) (5)	3/24 at 100.00	AA	5,589,200
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Massachusetts (continued)			
\$ 2,985	Massachusetts State, General Obligation Bonds, Consolidated Loan, Series 2016E, 4.000%, 4/01/33 (UB) (5)	4/25 at 100.00	AA	\$ 3,132,668
14,200	Total Massachusetts			15,042,334
	Michigan – 2.1% (1.4% of Total Investments)			
	Detroit Local Development Finance Authority, Michigan, Tax Increment Bonds, Series 1998A:			
10	5.500%, 5/01/21 – ACA Insured	10/18 at 100.00	B-	9,903
485	5.500%, 5/01/21	11/18 at 100.00	B-	480,295
88	Detroit, Michigan, General Obligation Bonds, Series 2003A, 5.250%, 4/01/22 – SYNCORA GTY Insured	10/18 at 100.00	N/R	85,660
116	Detroit, Michigan, General Obligation Bonds, Series 2004A-1, 5.250%, 4/01/19 – AMBAC Insured	10/18 at 100.00	N/R	116,136
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	790,584
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	1,014,289
	Michigan Housing Development Authority, Rental Housing Revenue Bonds, Series 2015A:			
2,225	4.350%, 10/01/45 (UB) (5)	10/24 at 100.00	AA	2,285,431
4,500	4.600%, 4/01/52 (UB) (5)	10/24 at 100.00	AA	4,643,505
1,620	Michigan Public Educational Facilities Authority, Charter School Revenue Bonds, American Montessori Academy, Series 2007, 6.500%, 12/01/37	10/18 at 100.00	N/R	1,619,903
1,000	Michigan Public Educational Facilities Authority, Limited Obligation Revenue Bonds, Chandler Park Academy Project, Series 2008, 6.500%, 11/01/35	10/18 at 100.00	BBB	1,001,220
1,000	Michigan Public Educational Facilities Authority, Limited Obligation Revenue Bonds, Richfield Public School Academy, Series 2007, 5.000%, 9/01/36	10/18 at 100.00	BBB-	994,080
825	Michigan Public Educational Facilities Authority, Limited Obligation Revenue Bonds, David Ellis Academy-West Charter School Project, Series 2007, 5.875%, 6/01/37	10/18 at 100.00	N/R	824,942
885	Michigan Strategic Fund, Limited Obligation Revenue Bonds, Detroit Thermal LLC Project, Series 2013, 8.500%, 12/01/30 (Alternative Minimum Tax), 144A	12/23 at 100.00	N/R	934,330
1,000	Royal Oak Hospital Finance Authority, Michigan, Hospital Revenue Bonds, William Beaumont Hospital, Refunding Series 2009V, 8.250%, 9/01/39 (Pre-refunded 9/01/18)	9/18 at 100.00	Aaa (6)	1,005,590
500	Summit Academy, Michigan, Revenue Bonds, Public School Academy Series 2005, 6.375%, 11/01/35	10/18 at 100.00	BB-	500,360
1,200	University of Michigan, General Revenue Bonds, Series 2015, 5.000%, 4/01/46 (UB) (5)	4/26 at 100.00	AAA	1,366,704
17,629	Total Michigan			17,672,932

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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	681,472	
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-	882,770	
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	470,700	
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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Minnesota (continued)			
\$ 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	\$1,866,880
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	Ba2	2,841,060
7,170	Total Minnesota			6,742,882
	Mississippi – 0.2% (0.1% of Total Investments)			
638	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	588,445
1,000	Warren County, Mississippi, Gulf Opportunity Zone Revenue Bonds, International Paper Company Project, Series 2008A, 6.500%, 9/01/32	9/18 at 100.00	BBB	1,003,870
1,638	Total Mississippi			1,592,315
	Missouri – 2.3% (1.6% 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-	1,027,030
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	2,103,240
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	666,639
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	1,997,120
10,000	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, Mercy Health, Series 2017C, 4.000%, 11/15/49 (UB) (5)	11/27 at 100.00	AA-	10,162,600
1,100	Saint Louis Industrial Development Authority, Missouri, Confluence Academy Project, Series 2007A, 5.350%, 6/15/32	10/18 at 100.00	N/R	1,057,243
975	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	9/20 at 100.00	N/R	1,006,990
1,353	Saint Louis, Missouri, Tax Increment Financing Revenue Bonds, Fashion Square Redevelopment Project, Series 2008A, 6.300%, 8/22/26	10/18 at 100.00	N/R	1,343,678
732	Saint Louis, Missouri, Tax Increment Financing Revenue Bonds, Grace Lofts Redevelopment Projects, Series 2007A, 6.000%,	10/18 at 100.00	N/R	387,960

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	3/27/26		
19,815	Total Missouri		19,752,500
	Nevada – 0.2% (0.1% of Total Investments)		
	Sparks Tourism Improvement District 1, Legends at Sparks		
	Marina, Nevada, Senior Sales Tax Revenue Bonds Series 2008A:		
305	6.500%, 6/15/20, 144A	10/18 at 100.00 Ba3	305,323
1,500	6.750%, 6/15/28, 144A	9/18 at 100.00 Ba3	1,501,485
1,805	Total Nevada		1,806,808
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	New Jersey – 6.9% (4.8% 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) (5)	12/27 at 100.00	BBB+	\$2,697,700
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) (5)	12/27 at 100.00	BBB+	5,395,400
9,500	New Jersey Economic Development Authority, School Facilities Construction Bonds, Series 2017DDD, 5.000%, 6/15/42 (UB) (5)	6/27 at 100.00	BBB+	10,269,405
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	Ba3	2,284,926
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	1,223,316
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	Aaa (6)	1,076,790
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 (6)	629,946
5,200	New Jersey Health Care Facilities Financing Authority, New Jersey, Revenue Bonds, Saint Peters University Hospital, Series 2007, 5.750%, 7/01/37	10/18 at 100.00	BB+	5,212,948
8,230	New Jersey Health Care Facilities Financing Authority, Revenue Bonds, Saint Joseph's Healthcare System Obligated Group Issue, Refunding Series 2016, 5.000%, 7/01/41	7/26 at 100.00	BBB-	8,754,580
40,000	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Refunding Series 2006C, 0.000%, 12/15/36 – AMBAC Insured (UB) (5)	No Opt. Call	BBB+	17,598,800
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	1,087,590
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	2,362,448
78,410	Total New Jersey			58,593,849
	New Mexico – 0.7% (0.5% of Total Investments)			
375	Mariposa East Public Improvement District, New Mexico, Revenue Bonds, Capital Appreciation Taxable Series 2015D, 0.000%, 9/01/32 (4)	9/18 at 50.09	N/R	56,250
60	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	59,996
280	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	278,961
435	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	415,338



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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	1,255,012
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	1,015,460
1,020 19	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	1,046,694

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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	New Mexico (continued)			
\$ 1,575	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	\$ 1,598,168
5,920	Total New Mexico			5,725,879
	New York – 11.0% (7.5% of Total Investments)			
3,830	Brooklyn Arena Local Development Corporation, New York, Payment in Lieu of Taxes Revenue Bonds, Barclays Center Project, Refunding Series 2016A, 5.000%, 7/15/42	1/27 at 100.00	BBB-	4,156,661
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+ (6)	1,069,940
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	4,323,120
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	504,930
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-	220,852
10,000	Metropolitan Transportation Authority, New York, Transportation Revenue Bonds, Series 2016C-1, 5.000%, 11/15/56 (UB) (5)	11/26 at 100.00	A	11,077,900
	New York City Industrial Development Agency, New York, Civic Facility Revenue Bonds, Bronx Parking Development Company, LLC Project, Series 2007:			
1,500	5.750%, 10/01/37 (4)	10/18 at 100.00	N/R	795,000
5,000	5.875%, 10/01/46 (4)	10/37 at 100.00	N/R	2,650,000
470	New York City Industrial Development Agency, New York, Civic Facility Revenue Bonds, Special Needs Facilities Pooled Program, Series 2008A-1, 5.800%, 7/01/23	10/18 at 100.00	N/R	462,955
17,000	New York City Transitional Finance Authority, New York, Building Aid Revenue Bonds, Fiscal Series 2016S-1, 5.000%, 7/15/43 (UB) (5)	1/26 at 100.00	AA	19,062,440
7,075	New York City, New York, General Obligation Bonds, Fiscal 2016 Series A-1, 5.000%, 8/01/38 (UB)	8/26 at 100.00	AA	8,031,399
500	New York Liberty Development Corporation, Liberty Revenue Bonds, Secured by Port Authority Consolidated Bonds, Tender Option Bonds Trust 2016-XG0062, 15.290%, 12/15/41, 144A (IF) (5)	12/21 at 100.00	AA-	665,270
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	3,170,250
3,250	New York Liberty Development Corporation, New York, Liberty Revenue Bonds, 3 World Trade Center Project, Class 2 Series	11/24 at 100.00	N/R	3,570,157

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	2014, 5.150%, 11/15/34, 144A			
6,000	New York Liberty Development Corporation, New York, Liberty Revenue Bonds, 3 World Trade Center Project, Class 3 Series	11/24 at 100.00 N/R		7,114,200
	2014, 7.250%, 11/15/44, 144A			
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-		1,449,319
	New York Liberty Development Corporation, Second Priority Liberty Revenue Refunding Bonds, Bank of America Tower at One Bryant Park Project, Tender Option Bond Trust			
	2016-XG0018:			
250	15.716%, 1/15/44 (IF), 144A (5)	1/20 at 100.00 AA		293,342
625	15.716%, 1/15/44 (IF), 144A (5)	1/20 at 100.00 AA		733,356
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	New York (continued)			
\$ 1,900	New York Transportation Development Corporation, New York, Special Facility Revenue Bonds, American Airlines, Inc. John F Kennedy International Airport Project, Refunding Series 2016, 5.000%, 8/01/26 (Alternative Minimum Tax)	8/21 at 100.00	BB-	\$2,004,234
1,000	New York Transportation Development Corporation, Special Facilities Bonds, LaGuardia Airport Terminal B Redevelopment Project, Series 2016A: 5.000%, 7/01/46 (Alternative Minimum Tax)	7/24 at 100.00	BBB	1,072,300
4,985	5.000%, 7/01/46 – AGM Insured (Alternative Minimum Tax) (UB) (5)	7/24 at 100.00	A2	5,420,041
3,265	Port Authority of New York and New Jersey, Consolidated Revenue Bonds, Two Hundred Series 2017, 5.000%, 4/15/57 (UB) (5)	4/27 at 100.00	AA-	3,681,745
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	BBB	578,405
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) (5)	11/25 at 100.00	BBB-	10,693,898
87,230	Total New York			92,801,714
	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, 16.089%, 1/15/42, 144A (IF)	1/21 at 100.00	AA-	1,229,520
	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 (4)	9/23 at 100.00	N/R	800,000
	Ohio – 8.1% (5.6% 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	10/18 at 100.00	N/R	1,385,920
	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-2:			
10,000	5.875%, 6/01/30	9/18 at 100.00	Caa1	10,050,000
6,875	5.750%, 6/01/34	10/18 at 100.00	Caa1	6,892,256
10,500	5.875%, 6/01/47	9/18 at 100.00	B-	10,590,405
2,005	6.500%, 6/01/47	9/18 at 100.00	B-	2,065,130
5,455	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-3, 6.250%, 6/01/37	6/22 at 100.00	Caa1	5,713,894
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	1,482,525
1,270			A+	1,348,295

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	Medina County Port Authority, Ohio, Development Revenue Bond, 12/20 at			
	Fiber Network Project, Series 2010B, 6.000%, 12/01/30	100.00		
11,160	Montgomery County, Ohio, Hospital Facilities Revenue Bonds, Kettering Health Network Obligated Group, Series 2016, 4.000%, 8/01/47 (UB) (5)	8/26 at 100.00 A2		11,251,289
2,800	Ohio Air Quality Development Authority, Ohio, Air Quality Development Revenue Bonds, FirstEnergy Generation Corporation Project, Series 2009A, 5.700%, 8/01/20 (4)	No Opt. Call	N/R	1,554,000
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## NMZ Nuveen Municipal High Income Opportunity Fund (continued)

Portfolio of Investments July 31, 2018

(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Ohio (continued)			
\$ 2,000	Ohio Air Quality Development Authority, Ohio, Pollution Control Revenue Bonds, FirstEnergy Generation Corporation Project, Refunding Series 2009C, 5.625%, 6/01/19 (4)	No Opt. Call	N/R	\$1,930,000
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) (4)	No Opt. Call	N/R	2,636,250
1,250	Ohio State, Hospital Facility Revenue Refunding Bonds, Cleveland Clinic Health System Obligated Group, Tender Option Bond Trust 2015-XF0105, 15.000%, 1/01/39 (Pre-refunded 1/01/19), 144A (IF)	1/19 at 100.00	AA (6)	1,336,113
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) (4)	No Opt. Call	N/R	1,665,000
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) (4)	No Opt. Call	N/R	141,525
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) (4)	No Opt. Call	N/R	552,225
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) (4)	No Opt. Call	N/R	2,895,000
3,000	State of Ohio, Solid Waste Disposal Revenue Bonds (USG Corporation Project) Series 1997 Remarketed, 5.600%, 8/01/32 (Alternative Minimum Tax)	8/18 at 100.00	Ba2	3,004,920
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	2,033,520
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) (4)	7/19 at 100.00	N/R	60
108,315	Total Ohio			68,528,327
	Oklahoma – 0.3% (0.2% of Total Investments)			
1,925	Fort Sill Apache Tribe of Oklahoma Economic Development Authority, Gaming Enterprise Revenue Bonds, Fort Sill Apache Casino, Series 2011A, 8.500%, 8/25/26, 144A	8/21 at 100.00	N/R	2,233,270
	Pennsylvania – 2.1% (1.4% of Total Investments)			
	Allegheny Country Industrial Development Authority, Pennsylvania, Environmental Improvement Revenue Bonds, United States Steel Corporation Project, Refunding Series 2009:			

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500	6.750%, 11/01/24	11/19 at 100.00	B	511,375
2,000	6.875%, 5/01/30	11/19 at 100.00	B	2,034,180
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) (4)	No Opt. Call	N/R	1,387,500
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) (4)	No Opt. Call	N/R	1,506,825
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Pennsylvania (continued)			
\$ 185	Montgomery County Industrial Development Authority, Pennsylvania, FHA Insured Mortgage Revenue Bonds, New Regional Medical Center Project, Tender Option Bond Trust 2017-XF2454, 16.813%, 8/01/38 (Pre-refunded 8/01/20), 144A (IF) (5)	8/20 at 100.00	N/R (6)	\$239,240
5	Pennsylvania Economic Development Financing Authority, Exempt Facilities Revenue Bonds, Shippingport Project, First Energy Guarantor., Series 2006A, 2.550%, 11/01/41 (Mandatory Put 12/03/18) (4)	No Opt. Call	N/R	2,775
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	B2	4,339,293
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)	12/18 at 100.00	Ba2	4,114,959
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	2,773,800
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	553,773
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+	182,513
19,460	Total Pennsylvania			17,646,233
	Rhode Island – 0.4% (0.3% of Total Investments)			
1,000	Rhode Island Health & Educational Building Corporation, Health Facilities Revenue Bonds, Tockwotton Home, Series 2011, 8.375%, 1/01/46 (Pre-refunded 1/01/21)	1/21 at 100.00	Aaa (6)	1,153,840
18,260	Rhode Island Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed Bonds, Series 2007A, 0.000%, 6/01/52	10/18 at 100.00	CCC+	2,306,603
19,260	Total Rhode Island			3,460,443
	South Carolina – 2.3% (1.6% of Total Investments)			
4,000	Lancaster County, South Carolina, Special Assessment Bonds, Edgewater II Improvement District, Series 2007A, 7.750%, 11/01/39 (4)	10/18 at 100.00	N/R	840,000
3,477	Lancaster County, South Carolina, Special Assessment Bonds, Edgewater II Improvement District, Series 2007B, 7.700%, 11/01/18 (4)	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	1,094,220
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 (6)	1,417,925
9,250			A2	9,994,625



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	South Carolina Public Service Authority Santee Cooper Revenue	12/26 at	
	Obligations, Refunding Series 2016B, 5.000%, 12/01/46 (UB) (5)	100.00	
5,000	South Carolina Public Service Authority, Santee Cooper Revenue	6/24 at 100.00 A2	5,284,100
	Obligations, Series 2014A, 5.000%, 12/01/49 (UB) (5)		
23,977	Total South Carolina		19,361,040
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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Tennessee – 5.3% (3.7% 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 (6)	\$3,271,770
11,095	Metropolitan Government of Nashville-Davidson County Health and Educational Facilities Board, Tennessee, Revenue Bonds, Vanderbilt University Medical Center, Series 2016A: 5.000%, 7/01/40 (UB)	7/26 at 100.00	A3	12,268,740
14,835	5.000%, 7/01/46 (UB) (5)	7/26 at 100.00	A3	16,296,693
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	5,327,850
6,024	The Tennessee Energy Acquisition Corporation, Gas Revenue Bonds, Series 2006B, 5.625%, 9/01/26	No Opt. Call	BBB	6,899,769
950	Wilson County Health and Educational Facilities Board, Tennessee, Senior Living Revenue Bonds, Rutland Place Inc. Project, Series 2015A, 5.500%, 1/01/46	10/18 at 100.00	N/R	881,628
40,904	Total Tennessee			44,946,450
	Texas – 5.8% (4.0% of Total Investments)			
4,005	Brazos River Authority, Texas, Pollution Control Revenue Refunding Bonds, TXU Electric Company, Series 2001D, 8.250%, 5/01/33 (Alternative Minimum Tax) (4)	10/18 at 100.00	N/R	40
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	1,006,000
250	Central Texas Regional Mobility Authority, Revenue Bonds, Senior Lien Series 2011: 6.000%, 1/01/41 (Pre-refunded 1/01/21)	1/21 at 100.00	Baa2 (6)	274,068
1,000	6.750%, 1/01/41 (Pre-refunded 1/01/21)	1/21 at 100.00	Baa3 (6)	1,113,880
2,100	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	10/18 at 100.00	B	2,104,683
2,000	9.000%, 2/15/38	10/18 at 100.00	B	2,004,180
4,165	Dallas Area Rapid Transit, Texas, Sales Tax Revenue Bonds, Refunding Series 2016A, 5.000%, 12/01/48 (UB) (5)	12/25 at 100.00	Aa2	4,691,831
10	Danbury Higher Education Authority Inc., Texas, Golden Rule Charter School Revenue Bonds, Series 2008A, 6.500%, 8/15/38	10/18 at 100.00	N/R	10,000
430	Decatur Hospital Authority, Texas, Revenue Bonds, Wise Regional Health System, Series 2013A: 6.625%, 9/01/31	9/23 at 100.00	N/R	501,612
1,000	6.375%, 9/01/42	9/23 at 100.00	N/R	1,131,230
1,500		11/22 at 100.00	Baa3	1,536,975

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	Fort Bend County Industrial Development Corporation, Texas, Revenue Bonds, NRG Energy Inc. Project, Series 2012A. RMKT, 4.750%, 5/01/38		
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)	10/18 at 100.00 B3	1,009,950
865	Heart of Texas Education Finance Corporation, Texas, Gateway Charter Academy, Series 2006A, 6.000%, 2/15/36	10/18 at 100.00 N/R	827,943
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Texas (continued)			
\$ 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	\$3,589,635
1,000	Mission Economic Development Corporation, Texas, Revenue Bonds, Natgasoline Project, Series 2016B, 5.750%, 10/01/31 (Alternative Minimum Tax), 144A	10/18 at 103.00	BB-	1,033,250
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 (4)	1/26 at 102.00	N/R	1,498,640
1,000	New Hope Cultural Education Facilities Finance Corporation, Texas, Student Housing Revenue Bonds, CHF-Collegiate Housing Corpus Christi I, L.L.C.-Texas A&M University-Corpus Christi Project, Series 2014A, 5.000%, 4/01/44	4/24 at 100.00	BBB-	1,032,260
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, Series 2016A, 5.000%, 4/01/48	4/26 at 100.00	BBB-	1,030,090
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	CCC	2,179,644
2,250	North Texas Tollway Authority, Special Projects System Revenue Bonds, Tender Option Bond Trust 2016-XG0036, 17.201%, 9/01/41 (Pre-refunded 9/01/21), 144A (IF)	9/21 at 100.00	N/R (6)	3,206,295
2,000	Red River Health Facilities Development Corporation, Texas, First Mortgage Revenue Bonds, Eden Home Inc., Series 2012, 7.000%, 12/15/32 (4)	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	169,817
2,000	Sabine River Authority, Texas, Pollution Control Revenue Refunding Bonds, TXU Energy Company LLC Project, Series 2003B, 6.150%, 8/01/22 (4)	10/18 at 100.00	N/R	20
4,000	Tarrant County Cultural Education Facilities Finance Corporation, Texas, Hospital Revenue Bonds, Scott & White Healthcare Project, Series 2016A, 5.000%, 11/15/45 (UB)	5/26 at 100.00	AA-	4,445,960
2,810	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	BBB-	2,984,529
1,000	Texas Private Activity Bond Surface Transportation Corporation, Senior Lien Revenue Bonds, LBJ Infrastructure Group LLC IH-635 Managed Lanes Project, Series 2010:			
	7.000%, 6/30/34	6/20 at 100.00	Baa3	1,085,200
4,500	7.000%, 6/30/40	6/20 at 100.00	Baa3	4,878,090
835			BB-	836,570

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	Texas Public Finance Authority Charter School Finance Corporation, Charter School Revenue Bonds, School of Excellence Education Project, Series 2004A, 7.000%, 12/01/34	10/18 at 100.00		
2,972	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 Travis County Health Facilities Development Corporation, Texas, Revenue Bonds, Westminster Manor, Series 2010:	1/34 at 100.00 N/R		3,012,491
85	7.000%, 11/01/30	11/20 at 100.00	BBB+	90,310
440	7.000%, 11/01/30 (Pre-refunded 11/01/20)	11/20 at 100.00	N/R (6)	490,151
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## NMZ Nuveen Municipal High Income Opportunity Fund (continued)

Portfolio of Investments July 31, 2018

(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Texas (continued)			
\$ 340	Trinity River Authority of Texas, Pollution Control Revenue Refunding Bonds, TXU Electric Company, Series 20003, 6.250%, 5/01/28 (Alternative Minimum Tax) (4)	10/18 at 100.00	C	\$ 3
53,677	Total Texas			49,020,347
	Utah – 1.1% (0.8% 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-	1,782,206
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	2,139,905
5,420	Utah State Charter School Finance Authority, Revenue Bonds, Summit Academy Project, Series 2007A, 5.800%, 6/15/38	10/18 at 100.00	BBB-	5,430,136
9,090	Total Utah			9,352,247
	Vermont – 0.8% (0.5% of Total Investments)			
	Vermont Educational and Health Buildings Financing Agency, Revenue Bonds, University of Vermont Medical Center Project, Green Series 2016B:			
1,605	5.000%, 12/01/46	6/26 at 100.00	A	1,761,664
3,400	5.000%, 12/01/46 (UB) (5)	6/26 at 100.00	A	3,731,874
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 (6)	1,272,972
6,160	Total Vermont			6,766,510
	Virgin Islands – 0.6% (0.4% 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	990,000
5,000	5.000%, 10/01/39	10/24 at 100.00	N/R	4,475,000
6,000	Total Virgin Islands			5,465,000
	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 (13)	10/18 at 100.00	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	5,211,550
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 – AGC Insured	No Opt. Call	BBB+	4,089,940
1,000	Tobacco Settlement Financing Corporation of Virginia, Tobacco Settlement Asset Backed Bonds, Series 2007B1, 5.000%, 6/01/47	9/18 at 100.00	B-	999,980

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7,380	Virginia Small Business Financing Authority, Private Activity Revenue Bonds, Transform 66 P3 Project, Senior Lien Series 2017, 6/27 at 100.00 BBB 8,073,129 5.000%, 12/31/56 (Alternative Minimum Tax)	
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 88,580	
130	5.500%, 1/01/42 (Alternative Minimum Tax) 7/22 at 100.00 BBB 140,954	
23,752	Total Virginia	19,061,333
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	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, 16.951%, 6/01/34, 144A (IF) (5)	6/19 at 100.00	AA	\$2,692,628
500	FYI Properties, Washington, Lease Revenue Bonds, Washington State Department of Information Services Project, Tender Option Bond Trust 2016-XL0007, 16.951%, 6/01/39, 144A (IF) (5)	6/19 at 100.00	AA	555,970
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	1,008,070
1,000	Kitsap County Consolidated Housing Authority, Washington, Pooled Tax Credit Housing Revenue Bonds, Series 2007, 5.600%, 6/01/37 (Alternative Minimum Tax)	10/18 at 100.00	N/R	1,000,780
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	275,649
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	3,692,556
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	7,346,493
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	1,086,070
16,735	Total Washington			17,658,216
	West Virginia – 0.2% (0.2% of Total Investments)			
1,411	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	1,438,543
500	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	6/27 at 100.00	N/R	521,750
1,911	Total West Virginia			1,960,293
	Wisconsin – 6.7% (4.6% of Total Investments)			
30	Green Bay Redevelopment Authority, Wisconsin, Industrial Development Revenue Bonds, Fort James Project, Series 1999, 5.600%, 5/01/19 (Alternative Minimum Tax)	No Opt. Call	N/R	30,620
2,000	Lac Courte Oreilles Band of Lake Superior Chippewa Indians, Wisconsin, General Revenue Bonds, Refunding Series 2017, 6.750%, 6/01/32	12/27 at 100.00	N/R	1,964,560
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	4,572,300
1,650	Public Finance Authority of Wisconsin, Charter School Revenue Bonds, Thomas Jefferson Classical Academy of Mooresboro, North	7/19 at 100.00	BBB-	1,675,822



Carolina, Series 2011, 7.125%, 7/01/42

## NMZ Nuveen Municipal High Income Opportunity Fund (continued)

Portfolio of Investments July 31, 2018

(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, First Tier Series 2018A-1:			
\$ 13	0.000%, 1/01/47 – ACA Insured, 144A	No Opt. Call	N/R	\$392
11	0.000%, 1/01/48 – ACA Insured, 144A	No Opt. Call	N/R	342
11	0.000%, 1/01/49 – ACA Insured, 144A	No Opt. Call	N/R	336
10	0.000%, 1/01/50 – ACA Insured, 144A	No Opt. Call	N/R	325
10	0.000%, 1/01/51 – ACA Insured, 144A	No Opt. Call	N/R	319
13	0.000%, 1/01/52 – ACA Insured, 144A	No Opt. Call	N/R	413
13	0.000%, 1/01/53 – ACA Insured, 144A	No Opt. Call	N/R	407
13	0.000%, 1/01/54 – ACA Insured, 144A	No Opt. Call	N/R	393
12	0.000%, 1/01/55 – ACA Insured, 144A	No Opt. Call	N/R	385
12	0.000%, 1/01/56 – ACA Insured, 144A	No Opt. Call	N/R	376
595	5.500%, 7/01/56 – ACA Insured, 144A	3/28 at 100.00	N/R	592,679
14	0.000%, 1/01/57 – ACA Insured, 144A	No Opt. Call	N/R	416
13	0.000%, 1/01/58 – ACA Insured, 144A	No Opt. Call	N/R	405
13	0.000%, 1/01/59 – ACA Insured, 144A	No Opt. Call	N/R	394
13	0.000%, 1/01/60 – ACA Insured, 144A	No Opt. Call	N/R	385
12	0.000%, 1/01/61 – ACA Insured, 144A	No Opt. Call	N/R	379
12	0.000%, 1/01/62 – ACA Insured, 144A	3/28 at 17.35	N/R	368
12	0.000%, 1/01/63 – ACA Insured, 144A	3/28 at 16.48	N/R	360
12	0.000%, 1/01/64 – ACA Insured, 144A	No Opt. Call	N/R	352
11	0.000%, 1/01/65 – ACA Insured, 144A	No Opt. Call	N/R	346
12	0.000%, 1/01/66 – ACA Insured, 144A	No Opt. Call	N/R	372
148	0.000%, 1/01/67 – ACA Insured, 144A	No Opt. Call	N/R	4,481
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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 – ACA Insured, 144A	No Opt. Call	N/R	\$752
24	0.000%, 1/01/47 – ACA Insured, 144A	No Opt. Call	N/R	740
24	0.000%, 1/01/48 – ACA Insured, 144A	No Opt. Call	N/R	733
23	0.000%, 1/01/49 – ACA Insured, 144A	No Opt. Call	N/R	726
23	0.000%, 1/01/50 – ACA Insured, 144A	No Opt. Call	N/R	715
25	0.000%, 1/01/51 – ACA Insured, 144A	No Opt. Call	N/R	782
659	3.750%, 7/01/51 – ACA Insured, 144A	3/28 at 100.00	N/R	640,369
25	0.000%, 1/01/52 – ACA Insured, 144A	No Opt. Call	N/R	776
25	0.000%, 1/01/53 – ACA Insured, 144A	No Opt. Call	N/R	764
25	0.000%, 1/01/54 – ACA Insured, 144A	No Opt. Call	N/R	758
24	0.000%, 1/01/55 – ACA Insured, 144A	No Opt. Call	N/R	746
24	0.000%, 1/01/56 – ACA Insured, 144A	No Opt. Call	N/R	735
24	0.000%, 1/01/57 – ACA Insured, 144A	No Opt. Call	N/R	729
23	0.000%, 1/01/58 – ACA Insured, 144A	No Opt. Call	N/R	718
23	0.000%, 1/01/59 – ACA Insured, 144A	No Opt. Call	N/R	712
23	0.000%, 1/01/60 – ACA Insured, 144A	No Opt. Call	N/R	706
23	0.000%, 1/01/61 – ACA Insured, 144A	No Opt. Call	N/R	695
23	0.000%, 1/01/62 – ACA Insured, 144A	No Opt. Call	N/R	689
22	0.000%, 1/01/63 – ACA Insured, 144A	No Opt. Call	N/R	678
22	0.000%, 1/01/64 – ACA Insured, 144A	No Opt. Call	N/R	672
22	0.000%, 1/01/65 – ACA Insured, 144A	No Opt. Call	N/R	666
22	0.000%, 1/01/66 – ACA Insured, 144A	No Opt. Call	N/R	656
281	0.000%, 1/01/67 – ACA Insured, 144A	No Opt. Call	N/R	8,530
	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	4,642,425
830	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	839,611
335	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	327,315
1,000	Public Finance Authority of Wisconsin, Limited Obligation Grant Revenue Bonds, American Dream @ Meadowlands Project, Series 2017A, 6.750%, 8/01/31	No Opt. Call	N/R	1,107,130
	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	2,303,620
14,000	7.000%, 12/01/50, 144A	12/27 at 100.00	N/R	16,088,800
3,500	Public Finance Authority of Wisconsin, Revenue Bonds, Alabama Gulf Coast Zoo, Series 2018A, 6.500%, 9/01/48	9/28 at 100.00	N/R	3,525,480
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NMZ Nuveen Municipal High Income Opportunity Fund (continued)  
Portfolio of Investments July 31, 2018  
(Unaudited)

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	\$500,935
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	2,394,255
4,585	7.000%, 7/01/48, 144A	7/28 at 100.00	N/R	4,544,881
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	1,141,779
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	1,038,460
5,000	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Ascension Health Alliance Senior Credit Group, Series 2016A, 4.000%, 11/15/46 (UB) (5)	5/26 at 100.00	Aa2	5,090,250
1,000	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Froedtert Community Health, Inc. Obligated Group, Tender Option Bond Trust 2015-XF0118, 16.092%, 4/01/39 (Pre-refunded 4/01/19), 144A (IF) (5)	4/19 at 100.00	AA-(6)	1,101,870
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 (6)	2,431,466
55,008	Total Wisconsin			56,590,251
\$ 1,291,943	Total Municipal Bonds (cost \$1,196,065,102)			1,222,216,905

Shares	Description (1)	Value
	COMMON STOCKS – 1.1% (0.7% of Total Investments)	
	Airlines – 1.1% (0.7% of Total Investments)	
227,514	American Airlines Group Inc. (14)	\$ 8,995,904
	Total Common Stocks (cost \$6,316,916)	8,995,904

Principal Amount (000)	Description (1)	Coupon Maturity	Ratings (3)	Value
	CORPORATE BONDS – 0.0% (0.0% of Total Investments)			
	Transportation – 0.0% (0.0% of Total Investments)			
\$ 26	Las Vegas Monorail Company, Senior Interest Bonds (8), (15)	5.500% 7/15/19	N/R	\$16,670
7	Las Vegas Monorail Company, Senior Interest Bonds (8), (15)	5.500% 7/15/55	N/R	3,632
\$ 33	Total Corporate Bonds (cost \$1,811)			20,302
	Total Long-Term Investments (cost \$1,202,383,829)			1,231,233,111
	Floating Rate Obligations – (38.3)%			(323,758,000)

Adjustable Rate MuniFund Term Preferred Shares, net of deferred offering costs – (10.3)% (16)	(86,847,297)
Other Assets Less Liabilities – 3.1%	25,668,244
Net Assets Applicable to Common Shares – 100%	\$ 846,296,058

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## 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, prepayment speeds, credit risk, 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	\$ —	\$1,220,316,202	\$1,900,703	\$1,222,216,905
Common Stocks	8,995,904	—	—	8,995,904
Corporate Bonds	—	—	20,302	20,302
Total	\$8,995,904	\$1,220,316,202	\$1,921,005	\$1,231,233,111

## 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 July 31, 2018.

Tax cost of investments	\$873,945,683
Gross unrealized:	
Appreciation	\$ 77,036,914
Depreciation	(43,505,561)
Net unrealized appreciation (depreciation) of investments	\$ 33,531,353

NMZ Nuveen Municipal High Income Opportunity Fund (continued)

Portfolio of Investments July 31, 2018

(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) 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.
- (5) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
- (6) 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.
- (7) On June 1, 2018, 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 6.750% to 2.700%.
- (8) 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.
- (9) 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%.
- (10) 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.
- (11) 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%.
- (12) 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%.
- (13) 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%.
- (14) 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%.
- (15) 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.
- (16) 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.

(16) Adjustable Rate MuniFund Term Preferred Shares, net of deferred offering cost as a percentage of Total Investments is 7.1%.

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: September 28, 2018

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: September 28, 2018

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

Date: September 28, 2018