

NUVEEN CONNECTICUT PREMIUM INCOME MUNICIPAL FUND

Form N-Q

October 28, 2016

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 811-07606

Nuveen Connecticut Premium Income Municipal 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)

Kevin J. McCarthy
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: 5/31

Date of reporting period: 8/31/16

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 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

Portfolio of Investments

Nuveen Connecticut Premium Income Municipal Fund (NTC)
August 31, 2016 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 151.5% (100.0% of Total Investments)			
	MUNICIPAL BONDS – 151.5% (100.0% of Total Investments)			
	Education and Civic Organizations – 29.8% (19.7% of Total Investments)			
\$ 840	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Chase Collegiate School, Series 2007A, 5.000%, 7/01/27 – RAAI Insured	7/17 at 100.00	AA	\$ 867,124
1,000	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Connecticut College, Series 2007G, 4.500%, 7/01/37 – NPFQ Insured	7/17 at 100.00	AA–	1,017,030
1,150	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Connecticut College, Series 2011H, 5.000%, 7/01/41	7/21 at 100.00	A2	1,324,202
	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Fairfield University, Series 2010-O:			
800	5.000%, 7/01/35	7/20 at 100.00	A–	904,072
4,000	5.000%, 7/01/40	7/20 at 100.00	A–	4,520,360
3,950	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Fairfield University, Series 2016Q-1, 5.000%, 7/01/46	7/26 at 100.00	A–	4,794,510
	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Loomis Chaffee School, Series 2005F:			
440	5.250%, 7/01/18 – AMBAC Insured	No Opt. Call	A2	474,131
1,510	5.250%, 7/01/19 – AMBAC Insured	No Opt. Call	A2	1,687,908
1,125	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Norwich Free Academy, Series 2013B, 4.000%, 7/01/34	7/23 at 100.00	A1	1,238,535
7,030	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Quinnipiac University, Refunding Series 2015L, 5.000%, 7/01/45	7/25 at 100.00	A–	8,311,076

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	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Quinnipiac University, Series 2016M:			
260	5.000%, 7/01/34	7/26 at 100.00	A-	317,616
1,650	5.000%, 7/01/35	7/26 at 100.00	A-	2,005,988
	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Sacred Heart University, Series 2011G:			
250	5.125%, 7/01/26	7/21 at 100.00	BBB+	286,500
3,260	5.625%, 7/01/41	7/21 at 100.00	BBB+	3,744,990
	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Sacred Heart University, Series 2012H:			
1,500	5.000%, 7/01/26 – AGM Insured	7/22 at 100.00	AA	1,760,565
1,000	5.000%, 7/01/28 – AGM Insured	7/22 at 100.00	AA	1,164,680
	Connecticut Health and Educational Facilities Authority, Revenue Bonds, The Loomis Chaffee School Issue, Series 2011-I:			
560	5.000%, 7/01/23 – AGM Insured	7/21 at 100.00	A2	652,473
225	5.000%, 7/01/24 – AGM Insured	7/21 at 100.00	A2	262,897
17,000	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Yale University, Series 2007Z-3, 5.050%, 7/01/42 (UB) (4)	7/17 at 100.00	AAA	17,613,870
5,580	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Connecticut State University System, Series 2013N, 5.000%, 11/01/31	11/23 at 100.00	AA-	6,868,143
2,425	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Connecticut State University System, Series 2016P-1, 5.000%, 11/01/28 (WI/DD, Settling 9/13/16)	11/26 at 100.00	AA-	3,082,442
515	University of Connecticut, Student Fee Revenue Bonds, Refunding Series 2010A, 5.000%, 11/15/27	11/19 at 100.00	Aa2	578,541
1,500	University of Connecticut, Student Fee Revenue Bonds, Refunding Series 2012A, 5.000%, 11/15/29	No Opt. Call	Aa2	1,821,105
57,570	Total Education and Civic Organizations Health Care – 35.7% (23.6% of Total Investments)			65,298,758
5,500	Connecticut Health and Educational Facilities Authority Revenue Bonds, Hartford HealthCare, Series 2015F, 5.000%, 7/01/45	7/25 at 100.00	A	6,447,925
4,540	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Ascension Health Series 2010A, 5.000%, 11/15/40	11/19 at 100.00	AA+	5,065,641

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	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Bristol Hospital, Series 2002B:			
560	5.500%, 7/01/21 – RAAI Insured	11/16 at 100.00	AA	561,865
3,000	5.500%, 7/01/32 – RAAI Insured	11/16 at 100.00	AA	3,007,110
1,010	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Catholic Health East Series 2010, 4.750%, 11/15/29	11/20 at 100.00	AA	1,124,332
200	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Danbury Hospital, Series 2006H, 4.500%, 7/01/33 – AMBAC Insured	11/16 at 100.00	A	200,308
20	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Eastern Connecticut Health Network, Series 2000A, 6.125%, 7/01/20 – RAAI Insured	10/16 at 100.00	AA	20,085
840	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Eastern Connecticut Health Network, Series 2005, 5.000%, 7/01/25 – RAAI Insured	10/16 at 100.00	AA	841,982
	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Griffin Hospital, Series 2005B:			
1,970	5.000%, 7/01/20 – RAAI Insured	11/16 at 100.00	A3	1,975,733
1,050	5.000%, 7/01/23 – RAAI Insured	11/16 at 100.00	A3	1,052,636
7,025	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Hartford HealthCare, Series 2011A, 5.000%, 7/01/41	7/21 at 100.00	A	7,862,098
500	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Hartford HealthCare, Series 2014E, 5.000%, 7/01/42	No Opt. Call	A	586,275
	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Hospital For Special Care, Series 2007C:			
1,065	5.250%, 7/01/32 – RAAI Insured	7/17 at 100.00	AA	1,100,816
300	5.250%, 7/01/37 – RAAI Insured	7/17 at 100.00	AA	309,708
2,000	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Lawrence and Memorial Hospitals, Series 2011F, 5.000%, 7/01/36	7/21 at 100.00	A–	2,241,240
	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Middlesex Hospital, Series 2011N:			
1,105	5.000%, 7/01/25	7/21 at 100.00	A3	1,262,186
400	5.000%, 7/01/26	7/21 at 100.00	A3	456,104
500	5.000%, 7/01/27	7/21 at 100.00	A3	568,525

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1,915	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Middlesex Hospital, Series 2015O, 5.000%, 7/01/36	7/25 at 100.00	A3	2,269,773
1,275	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Stamford Hospital, Series 2010-I, 5.000%, 7/01/30	7/20 at 100.00	A	1,438,825
7,000	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Stamford Hospital, Series 2012J, 5.000%, 7/01/42	7/22 at 100.00	A	7,869,329
3,235	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Stamford Hospital, Series 2016K, 4.000%, 7/01/46	7/26 at 100.00	A	3,490,015
2,600	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Trinity Health Credit Group, Series 2016 CT, 5.000%, 12/01/45	6/26 at 100.00	AA	3,174,340
3,905	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Western Connecticut Health, Series 2011M, 5.375%, 7/01/41	7/21 at 100.00	A	4,461,736
4,000	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Western Connecticut Health, Series 2011N, 5.000%, 7/01/29	7/21 at 100.00	A	4,538,320
	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Yale-New Haven Health Issue, Series 2014E:			
2,610	5.000%, 7/01/32	7/24 at 100.00	Aa3	3,200,486
2,740	5.000%, 7/01/33	7/24 at 100.00	Aa3	3,348,746
900	5.000%, 7/01/34	7/24 at 100.00	Aa3	1,096,299
7,475	Monroe County Industrial Development Corporation, New York, FHA Insured Mortgage Revenue Bonds, Unity Hospital of Rochester Project, Series 2010, 5.500%, 8/15/40	2/21 at 100.00	AA	8,785,439
69,240	Total Health Care Long-Term Care – 2.0% (1.3% of Total Investments)			78,357,877
1,100	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Duncaster, Inc., Series 2014A, 5.000%, 8/01/44	8/24 at 100.00	BBB–	1,184,414
100	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Healthcare Facility Expansion Church Home of Hartford Inc. Project, Series 2016A, 5.000%, 9/01/46	9/26 at 100.00	BB	111,315
1,500	Connecticut Housing Finance Authority, Special Needs Housing Mortgage Finance Program Special Obligation Bonds, Series 2002SNH-1, 5.000%, 6/15/32 – AMBAC Insured	11/16 at 100.00	N/R	1,502,685
1,285	Connecticut Housing Finance Authority, State Supported Special Obligation Bonds, Refunding Series 2010-16, 5.000%, 6/15/30	6/20 at 100.00	AA–	1,456,586
3,985	Total Long-Term Care			4,255,000

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Tax Obligation/General – 26.5% (17.5% of Total Investments)
 Bridgeport, Connecticut, General Obligation Bonds, Series
 2014A:

2,345	5.000%, 7/01/32 – AGM Insured	7/24 at 100.00	AA	2,790,855
1,600	5.000%, 7/01/34 – AGM Insured	7/24 at 100.00	AA	1,894,160
5,100	Connecticut State, General Obligation Bonds, Green Series 2014G, 5.000%, 11/15/31	11/24 at 100.00	AA–	6,187,881
2,100	Connecticut State, General Obligation Bonds, Refunding Series 2006E, 5.000%, 12/15/20	12/16 at 100.00	AA–	2,127,363
2,290	Connecticut State, General Obligation Bonds, Refunding Series 2012E, 5.000%, 9/15/32	9/22 at 100.00	AA–	2,704,650
2,740	Connecticut State, General Obligation Bonds, Refunding Series 2016B, 5.000%, 5/15/27	5/26 at 100.00	AA–	3,462,949
1,000	Connecticut State, General Obligation Bonds, Series 2011D, 5.000%, 11/01/31	11/21 at 100.00	AA–	1,169,380
2,600	Connecticut State, General Obligation Bonds, Series 2014A, 5.000%, 3/01/31	3/24 at 100.00	AA–	3,110,744
3,500	Connecticut State, General Obligation Bonds, Series 2014F, 5.000%, 11/15/34	11/24 at 100.00	AA–	4,199,965
2,630	Connecticut State, General Obligation Bonds, Series 2015F, 5.000%, 11/15/34	11/25 at 100.00	AA–	3,206,259
100	Greenwich, Connecticut, General Obligation Bonds, Refunding Series 2016, 4.000%, 7/15/33	7/24 at 100.00	Aaa	114,734
	Hamden, Connecticut, General Obligation Bonds, Series 2016:			
1,000	5.000%, 8/15/32 – BAM Insured	8/24 at 100.00	AA	1,191,260
250	4.000%, 8/15/34 – BAM Insured	8/24 at 100.00	AA	271,075
1,000	Hartford, Connecticut, General Obligation Bonds, Refunding Series 2013A, 5.000%, 4/01/31	4/23 at 100.00	A+	1,132,690
870	Hartford, Connecticut, General Obligation Bonds, Series 2009A, 5.000%, 8/15/28	8/19 at 100.00	AA	959,801
2,000	Hartford, Connecticut, General Obligation Bonds, Series 2013B, 5.000%, 4/01/33	4/23 at 100.00	A+	2,252,560
1,000	New Haven, Connecticut, General Obligation Bonds, Refunding Series 2016A, 5.000%, 8/15/36 – AGM Insured	8/26 at 100.00	AA	1,203,470
985	New Haven, Connecticut, General Obligation Bonds, Series 2014A, 5.000%, 8/01/33 – AGM Insured	8/24 at 100.00	AA	1,174,110
	New Haven, Connecticut, General Obligation Bonds, Series 2015:			
790	5.000%, 9/01/32 – AGM Insured	9/25 at 100.00	AA	960,364
1,620	5.000%, 9/01/33 – AGM Insured	9/25 at 100.00	AA	1,964,963
500	5.000%, 9/01/35 – AGM Insured	9/25 at 100.00	AA	601,525
900	North Haven, Connecticut, General Obligation Bonds, Series 2006, 5.000%, 7/15/24	No Opt. Call	Aa1	1,135,233

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3,890	Oregon State, General Obligation Bonds, Oregon University System Projects, Series 2011G, 5.000%, 8/01/36	8/21 at 100.00	AA+	4,558,458
2,500	Stamford, Connecticut, General Obligation Bonds, Refunding Series 2014, 3.000%, 8/15/22	8/21 at 100.00	AAA	2,738,525
600	Stratford, Connecticut, General Obligation Bonds, Series 2014, 5.000%, 12/15/32	12/22 at 100.00	AA	729,180
	Suffield, Connecticut, General Obligation Bonds, Refunding Series 2005:			
800	5.000%, 6/15/17	No Opt. Call	AA+	827,936
820	5.000%, 6/15/19	No Opt. Call	AA+	917,047
1,400	5.000%, 6/15/21	No Opt. Call	AA+	1,668,086
	Waterbury, Connecticut, General Obligation Bonds, Lot A Series 2015:			
445	5.000%, 8/01/30 – BAM Insured	8/25 at 100.00	AA	544,569
390	5.000%, 8/01/31 – BAM Insured	8/25 at 100.00	AA	475,500
610	5.000%, 8/01/32 – BAM Insured	8/25 at 100.00	AA	740,985
445	5.000%, 8/01/33 – BAM Insured	8/25 at 100.00	AA	539,358
445	5.000%, 8/01/34 – BAM Insured	8/25 at 100.00	AA	537,369
49,265	Total Tax Obligation/General Tax Obligation/Limited – 19.1% (12.6% of Total Investments)			58,093,004
2,500	Connecticut State, Special Tax Obligation Bonds, Transportation Infrastructure Purposes Series 2012A, 5.000%, 1/01/33	No Opt. Call	AA	3,016,650
3,855	Connecticut State, Special Tax Obligation Bonds, Transportation Infrastructure Purposes Series 2013A, 5.000%, 10/01/33	10/23 at 100.00	AA	4,740,995
1,380	Connecticut State, Special Tax Obligation Bonds, Transportation Infrastructure Purposes Series 2015A, 5.000%, 8/01/33	8/25 at 100.00	AA	1,695,040
	Connecticut State, Special Tax Obligation Bonds, Transportation Infrastructure Purposes, Series 2014A:			
3,835	5.000%, 9/01/33	9/24 at 100.00	AA	4,691,164
1,000	5.000%, 9/01/34	9/24 at 100.00	AA	1,219,120
	Government of Guam, Business Privilege Tax Bonds, Series 2011A:			
840	5.250%, 1/01/36	1/22 at 100.00	A	936,860
3,200	5.125%, 1/01/42	1/22 at 100.00	A	3,528,576
3,000	Harbor Point Infrastructure Improvement District, Connecticut, Special Obligation Revenue Bonds, Harbor Point Project, Series 2010A, 7.875%, 4/01/39	4/20 at 100.00	N/R	3,539,430

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1,500	Puerto Rico Municipal Finance Agency, Series 2002A, 5.250%, 8/01/21 – AGM Insured	11/16 at 100.00	AA	1,522,515
2,600	University of Connecticut, General Obligation Bonds, Series 2010A, 5.000%, 2/15/28	2/20 at 100.00	AA–	2,932,514
2,290	University of Connecticut, General Obligation Bonds, Series 2013A: 5.000%, 8/15/20	No Opt. Call 8/23 at 100.00	AA–	2,637,897
2,500	5.000%, 8/15/32	100.00	AA–	3,053,700
760	University of Connecticut, General Obligation Bonds, Series 2014A, 5.000%, 2/15/31	2/24 at 100.00	AA–	915,435
1,415	University of Connecticut, General Obligation Bonds, Series 2015A, 5.000%, 2/15/34	No Opt. Call	AA–	1,708,245
1,355	University of Connecticut, General Obligation Bonds, Series 2016A, 5.000%, 3/15/32	3/26 at 100.00	AA–	1,681,149
1,790	Virgin Islands Public Finance Authority, Gross Receipts Taxes Loan Note, Refunding Series 2012A, 5.000%, 10/01/32 – AGM Insured	No Opt. Call	AA	1,957,455
2,150	Virgin Islands Public Finance Authority, Matching Fund Loan Notes Revenue Bonds, Senior Lien Series 2010A, 5.000%, 10/01/29	10/20 at 100.00	BBB	2,153,139
35,970	Total Tax Obligation/Limited Transportation – 0.2% (0.1% of Total Investments)			41,929,884
450	Virgin Islands Port Authority, Marine Revenue Bonds, Refunding Series 2014B, 5.000%, 9/01/44	9/24 at 100.00	BBB+	516,002
4,405	U.S. Guaranteed – 13.4% (8.8% of Total Investments) (5) Connecticut Health and Educational Facilities Authority, Revenue Bonds, Quinnipiac University, Series 2007-I, 5.000%, 7/01/25 (Pre-refunded 7/01/17) – NPFG Insured Connecticut Health and Educational Facilities Authority, Revenue Bonds, Renbrook School, Series 2007A:	7/17 at 100.00	AA– (5)	4,569,791
465	5.000%, 7/01/30 (Pre-refunded 7/01/17) – AMBAC Insured	7/17 at 100.00	N/R (5)	482,396
735	5.000%, 7/01/37 (Pre-refunded 7/01/17) – AMBAC Insured	7/17 at 100.00	N/R (5)	762,496
4,140	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Wesleyan University, Series 2010G, 5.000%, 7/01/35 (Pre-refunded 7/01/20)	7/20 at 100.00	AA (5)	4,801,034
775	Connecticut Health and Educational Facilities Authority, Revenue Bonds, William W. Backus Hospital, Series 2005F, 5.125%, 7/01/35 (Pre-refunded 7/01/18) – AGM Insured	7/18 at 100.00	AA (5)	838,767
1,240	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Yale-New Haven Hospital, Series 2010M, 5.500%, 7/01/40 (Pre-refunded 7/01/20)	7/20 at 100.00	Aa3 (5)	1,459,306
1,125	Connecticut State Development Authority, Health Facilities Revenue Bonds, Alzheimer’s Resource	8/17 at 100.00	N/R (5)	1,176,919

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	Center of Connecticut, Inc., Series 2007, 5.500%, 8/15/27 (Pre-refunded 8/15/17)			
3,500	Connecticut State, General Obligation Bonds, Series 2006A, 4.750%, 12/15/24 (Pre-refunded 12/15/16)	12/16 at 100.00	AA- (5)	3,543,155
5,000	Connecticut State, Special Tax Obligation Bonds, Transportation Infrastructure Series 2007A, 5.000%, 8/01/27 (Pre-refunded 8/01/17) – AMBAC Insured	8/17 at 100.00	AA (5)	5,205,650
870	Hartford, Connecticut, General Obligation Bonds, Series 2009A, 5.000%, 8/15/28 (Pre-refunded 8/15/19)	8/19 at 100.00	AA (5)	979,316
2,150	New Haven, Connecticut, General Obligation Bonds, Refunding Series 2006, 5.000%, 11/01/17 (Pre-refunded 11/01/16) – AMBAC Insured	11/16 at 100.00	A- (5)	2,166,469
40	New Haven, Connecticut, General Obligation Bonds, Series 2002A, 5.250%, 11/01/17 – AMBAC Insured (ETM)	11/16 at 100.00	A- (5)	41,505
1,010	Puerto Rico Public Finance Corporation, Commonwealth Appropriation Bonds, Series 1998A, 5.125%, 6/01/24 – AMBAC Insured (ETM)	No Opt. Call	Aaa	1,202,839
1,725	Stamford, Connecticut, Special Obligation Revenue Bonds, Mill River Corridor Project, Series 2011aA, 7.000%, 4/01/41 (Pre-refunded 4/01/21)	4/21 at 100.00	N/R (5)	2,178,675
27,180	Total U.S. Guaranteed Utilities – 6.3% (4.2% of Total Investments)			29,408,318
4,375	Connecticut Development Authority, Water Facility Revenue Bonds, Aquarion Water Company Project, Series 2007, 5.100%, 9/01/37 – SYNCORA GTY Insured (Alternative Minimum Tax)	9/17 at 100.00	N/R	4,477,988
1,295	Connecticut Municipal Electric Energy Cooperative, Power Supply System Revenue Bonds, Tender Option Bond Trust 2016-XG0059: 15.286%, 1/01/32 (IF) (4)	1/23 at 100.00	Aa3	2,219,008
410	15.151%, 1/01/38 (IF) (4)	1/23 at 100.00	Aa3	683,970
655	Connecticut Transmission Municipal Electric Energy Cooperative, Transmission System Revenue Bonds, Series 2012A: 5.000%, 1/01/31	1/22 at 100.00	Aa3	772,808
500	5.000%, 1/01/32	1/22 at 100.00	Aa3	589,085
2,830	5.000%, 1/01/42	1/22 at 100.00	Aa3	3,308,893
1,765	Eastern Connecticut Resource Recovery Authority, Solid Waste Revenue Bonds, Wheelabrator Lisbon Project, Series 1993A, 5.500%, 1/01/20 (Alternative Minimum Tax)	1/17 at 100.00	A-	1,776,614
11,830	Total Utilities Water and Sewer – 18.5% (12.2% of Total Investments)			13,828,366

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Greater New Haven Water Pollution Control Authority, Connecticut, Regional Wastewater System Revenue Bonds, Refunding Series 2014B:				
500	5.000%, 8/15/30	8/24 at 100.00	AA	614,770
1,000	5.000%, 8/15/31	8/24 at 100.00	AA	1,226,220
500	5.000%, 8/15/32	8/24 at 100.00	AA	608,990
55	Greater New Haven Water Pollution Control Authority, Connecticut, Regional Wastewater System Revenue Bonds, Series 2005A, 5.000%, 8/15/35 – NPMFG Insured	11/16 at 100.00	AA	55,199
2,050	Guam Government Waterworks Authority, Water and Wastewater System Revenue Bonds, Series 2010, 5.625%, 7/01/40	7/20 at 100.00	A-	2,265,312
1,125	Guam Government Waterworks Authority, Water and Wastewater System Revenue Bonds, Series 2016, 5.000%, 1/01/46	7/26 at 100.00	A-	1,319,513
6,815	Hartford County Metropolitan District, Connecticut, Clean Water Project Revenue Bonds, Refunding Green Bond Series 2014A, 5.000%, 11/01/42 Hartford County Metropolitan District, Connecticut, Clean Water Project Revenue Bonds, Series 2013A:	11/24 at 100.00	AA	8,245,399
4,100	5.000%, 4/01/36	4/22 at 100.00	AA	4,870,595
2,500	5.000%, 4/01/39	4/22 at 100.00	AA	2,964,000
795	South Central Connecticut Regional Water Authority Water System Revenue Bonds, Thirtieth Series 2014A, 5.000%, 8/01/44 South Central Connecticut Regional Water Authority, Water System Revenue Bonds, Refunding Thirty-Second Series 2016B:	8/24 at 100.00	AA-	946,996
1,625	4.000%, 8/01/35	8/26 at 100.00	AA-	1,845,529
1,470	4.000%, 8/01/36	8/26 at 100.00	AA-	1,662,585
1,110	5.000%, 8/01/37	8/26 at 100.00	AA-	1,375,479
930	5.000%, 8/01/38	8/26 at 100.00	AA-	1,151,498
270	5.000%, 8/01/39	8/26 at 100.00	AA-	332,691
4,870	South Central Connecticut Regional Water Authority, Water System Revenue Bonds, Twentieth-Sixth Series, 2011, 5.000%, 8/01/41	8/21 at 100.00	AA-	5,681,634
4,000	South Central Connecticut Regional Water Authority, Water System Revenue Bonds, Twenty-Seventh Series 2012, 5.000%, 8/01/33	No Opt. Call	AA-	4,804,640
500			AA+	613,765

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	Stamford, Connecticut, Water Pollution Control System and Facility Revenue Bonds, Series 2013A, 5.250%, 8/15/43	8/23 at 100.00	
34,215	Total Water and Sewer		40,584,815
\$ 289,705	Total Long-Term Investments (cost \$306,824,427)		332,272,024
	Floating Rate Obligations – (5.8)%		(12,750,000)
	Variable Rate MuniFund Term Preferred Shares, at Liquidation Preference – (48.3)% (6)		(106,000,000)
	Other Assets Less Liabilities – 2.6%		5,742,870
	Net Assets Applicable to Common Shares – 100%		\$ 219,264,894

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 adjusted 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 risk 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	\$ —	\$332,272,024	\$ —	\$332,272,024

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.

As of August 31, 2016, the cost of investments was \$293,976,842.

Gross unrealized appreciation and gross unrealized depreciation of investments as of August 31, 2016, were as follows:

Gross unrealized:	
Appreciation	\$25,545,182
Depreciation	—
Net unrealized appreciation (depreciation) of investments	\$25,545,182

- (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) For financial reporting purposes, the ratings disclosed are the highest of Standard & Poor's Group ("Standard & Poor's"), Moody's Investors Service, Inc. ("Moody's") or Fitch, Inc. ("Fitch") rating. This treatment of split-rated securities may differ from that used for other purposes, such as for Fund investment policies. Ratings below BBB by Standard & Poor's, Baa by Moody's or BBB by Fitch are considered to be below investment grade. Holdings designated N/R are not rated by any of these national rating agencies.

- (4) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
 - (5) Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities, which ensure the timely payment of principal and interest. Certain bonds backed by U.S. Government or agency securities are recognized as having an implied rating equal to the rating of such securities.
 - (6) Variable Rate MuniFund Term Preferred Shares, at Liquidation Preference as a percentage of Total Investments is 31.9%.
 - (ETM) Escrowed to maturity.
 - (IF) Inverse floating rate investment.
 - (UB) Underlying bond of an inverse floating rate trust reflected as a financing transaction.
 - (WI/DD) Investment, or portion of investment, purchased on a when-issued or delayed delivery basis.
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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 Connecticut Premium Income Municipal Fund

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

Date: October 28, 2016

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: October 28, 2016

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

Date: October 28, 2016