

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND  
Form N-Q  
October 30, 2014

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 811-07616

Nuveen Missouri 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: 8/31/14

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 (Unaudited)  
 Nuveen Missouri Premium Income Municipal  
 Fund (NOM)  
 August 31, 2014

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 156.0% (100.0% of Total Investments)			
	MUNICIPAL BONDS – 156.0% (100.0% of Total Investments)			
	Consumer Staples – 3.8% (2.5% of Total Investments)			
\$ 1,055	Missouri Development Finance Board, Solid Waste Disposal Revenue Bonds, Procter and Gamble Inc., Series 1999, 5.200%, 3/15/29 (Alternative Minimum Tax)	No Opt. Call	AA–	\$ 1,270,790
	Education and Civic Organizations – 20.8% (13.3% of Total Investments)			
300	Curators of the University of Missouri, System Facilities Revenue Bonds, Refunding Series 2012A, 4.000%, 11/01/33	11/24 at 100.00	AA+	324,618
250	Lincoln University, Missouri, Auxiliary System Revenue Bonds, Series 2007, 5.125%, 6/01/37 – AGC Insured	6/17 at 100.00	AA	262,013
410	Missouri Health and Educational Facilities Authority, Educational Facilities Revenue Bonds, Kansas	6/23 at 100.00	A1	449,048
750	City University of Medicine and Biosciences, Series 2013A, 5.000%, 6/01/33 Missouri Health and Educational Facilities Authority, Educational Facilities Revenue Bonds, Saint Louis College of Pharmacy, Series 2013, 5.500%, 5/01/43	5/23 at 100.00	BBB+	822,780
600	Missouri Health and Educational Facilities Authority, Educational Facilities Revenue Bonds, Southwest Baptist University Project, Series 2012, 5.000%, 10/01/33	10/22 at 100.00	BBB–	630,720
725			A	808,716

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	Missouri Health and Educational Facilities Authority, Educational Facilities Revenue Bonds, University of Central Missouri, Series 2013C2, 5.000%, 10/01/34	10/23 at 100.00		
630	Missouri Health and Educational Facilities Authority, Revenue Bonds, A.T. Still University of Health Sciences, Series 2011, 5.250%, 10/01/41	10/21 at 100.00	A-	694,298
510	Missouri Health and Educational Facilities Authority, Revenue Bonds, A.T. Still University of Health Sciences, Series 2014, 5.000%, 10/01/39	10/23 at 100.00	A-	558,904
700	Missouri Health and Educational Facilities Authority, Revenue Bonds, Rockhurst University, Series 2011A, 6.500%, 10/01/35	10/18 at 103.00	BBB-	788,641
550	Missouri Health and Educational Facilities Authority, Revenue Bonds, Washington University, Series 2011B, 5.000%, 11/15/37	11/21 at 100.00	AAA	625,224
600	Missouri Health and Educational Facilities Authority, Revenue Bonds, Webster University, Series 2011, 5.000%, 4/01/36	4/21 at 100.00	A2	654,930
250	Northwest Missouri State University, Housing System Revenue Bonds, Refunding Series 2012, 3.125%, 6/01/29	No Opt. Call	A3	236,903
6,275	Total Education and Civic Organizations Health Care – 36.1% (23.1% of Total Investments)			6,856,795
525	Cape Girardeau County Industrial Development Authority, Missouri, Health Facilities Revenue Bonds, Saint Francis Medical Center, Series 2009A, 5.750%, 6/01/39	6/19 at 100.00	AA-	572,460
760	Cape Girardeau County Industrial Development Authority, Missouri, Health Facilities Revenue Bonds, Southeast Missouri Hospital Association, Series 2007: 5.000%, 6/01/27	6/17 at 100.00	BBB+	776,408
560	5.000%, 6/01/36	6/17 at 100.00	BBB+	568,882
930	Cass County, Missouri, Hospital Revenue Bonds, Series 2007, 5.625%, 5/01/38	11/16 at 100.00	BBB-	946,349
480	Clinton County Industrial Development Authority, Missouri, Revenue Bonds, Cameron Regional Medical Center, Series 2007, 5.000%, 12/01/37	12/17 at 100.00	N/R	482,899

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750	Joplin Industrial Development Authority, Missouri, Health Facilities Revenue Bonds, Freeman Health System, Series 2004, 5.500%, 2/15/29	2/15 at 102.00	BBB+	770,003
200	Joplin Industrial Development Authority, Missouri, Health Facilities Revenue Bonds, Freeman Health System, Series 2011, 5.500%, 2/15/31	2/21 at 100.00	BBB+	217,284
500	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, SSM Health Care, Series 2014A, 5.000%, 6/01/31	6/24 at 100.00	AA-	572,175
540	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, Capital Region Medical Center, Series 2011, 5.000%, 11/01/27	11/20 at 100.00	A3	587,088
1,730	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, CoxHealth, Series 2013A, 5.000%, 11/15/44	11/23 at 100.00	A2	1,880,164
335	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, Heartland Regional Medical Center, Series 2012, 5.000%, 2/15/37	2/22 at 100.00	A1	362,028
250	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, Mercy Health, Series 2012, 4.000%, 11/15/42	No Opt. Call	AA-	250,423
500	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, Saint Luke's Episcopal and Presbyterian Hospitals, Series 2011, 5.000%, 12/01/25	12/21 at 100.00	A+	561,795
40	Missouri Health and Educational Facilities Authority, Health Facility Revenue Bonds, St. Luke's Health System, Series 2010A: 5.250%, 11/15/25	11/20 at 100.00	A+	45,130
2,000	Saline County Industrial Development Authority, Missouri, Health Facilities Revenue Bonds, John Fitzgibbon Memorial Hospital Inc., Series 2010, 5.600%, 12/01/28	11/20 at 100.00	A+	2,191,780
720	St. Louis County Industrial Development Authority, Missouri, Healthcare Facilities Revenue Bonds, 11/16 at 100.00	12/20 at 100.00	BBB-	798,516
350			N/R	350,592

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	Ranken-Jordan Project, Refunding Series 2007, 5.000%, 11/15/27			
11,170	Total Health Care			11,933,976
	Housing/Single Family – 0.8% (0.5% of Total Investments)			
165	Missouri Housing Development Commission, Single Family Mortgage Revenue Bonds, Homeownership Loan Program, Series 2007A-1, 4.700%, 9/01/27 (Alternative Minimum Tax)	9/16 at 100.00	AA+	168,930
100	Missouri Housing Development Commission, Single Family Mortgage Revenue Bonds, Homeownership Loan Program, Series 2007C-1, 4.800%, 9/01/38 (Alternative Minimum Tax)	3/17 at 100.00	AA+	100,056
265	Total Housing/Single Family Long-Term Care – 12.6% (8.1% of Total Investments)			268,986
250	Bridgeton Industrial Development Authority, Missouri, Senior Housing Revenue Bonds, The Sarah Community Project, Series 2013, 4.500%, 5/01/28	5/18 at 100.00	N/R	244,245
500	Joplin Industrial Development Authority, Missouri, Revenue Bonds, Christian Homes Inc., Series 2007F, 5.750%, 5/15/31	5/17 at 100.00	BBB–	515,875
475	Lees Summit Industrial Development Authority, Missouri, Revenue Bonds, John Knox Village Obligated Group, Series 2007A, 5.125%, 8/15/32	8/17 at 100.00	BBB–	484,386
250	Lees Summit Industrial Development Authority, Missouri, Revenue Bonds, John Knox Village Obligated Group, Series 2014A, 5.250%, 8/15/39	No Opt. Call	BBB–	251,923
250	Missouri Health and Educational Facilities Authority, Revenue Bonds, Lutheran Senior Services Projects, Series 2011, 6.000%, 2/01/41	2/21 at 100.00	BBB+	276,573
500				