NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND Form N-Q April 29, 2013

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

### FORM N-O

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

Investment Company Act file number 811-7616

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: 2/28/13

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) February 28, 2013

Principal		Optional Call		
Amount (000)	Description (1)	Provisions (2)	Ratings (3) Value	<b>&gt;</b>
	Consumer Staples – 3.6% (2.3% of Total		_	
	Investments)			
	Missouri Development Finance Board, Solid			
	Waste Disposal Revenue Bonds, Procter and			
\$ 1,000	Gamble	No Opt. Call	AA- \$	1,241,610
	Inc., Series 1999, 5.200%, 3/15/29 (Alternative			
	Minimum Tax)			
	Education and Civic Organizations – 9.0%			
	(5.8% of Total Investments)			
	Lincoln University, Missouri, Auxiliary			
	System Revenue Bonds, Series 2007, 5.125%,			
250	6/01/37 –	6/17 at 100.00	AA-	265,583
	AGC Insured			
	Missouri Health and Educational Facilities			
	Authority, Revenue Bonds, A.T. Still	10/21 at		
630	University of	100.00	A–	709,040
	Health Sciences, Series 2011, 5.250%,			
	10/01/41			
	Missouri Health and Educational Facilities			
	Authority, Revenue Bonds, Rockhurst	10/18 at		
700	University,	103.00	BBB	802,179
	Series 2011A, 6.500%, 10/01/35			
	Missouri Health and Educational Facilities			
	Authority, Revenue Bonds, Washington	11/21 at		
550	University,	100.00	AAA	647,383
	Series 2011B, 5.000%, 11/15/37			
	Missouri Health and Educational Facilities			
	Authority, Revenue Bonds, Webster			
600	University,	4/21 at 100.00	A2	668,070
2 = 20	Series 2011, 5.000%, 4/01/36			
2,730	Total Education and Civic Organizations			3,092,255
	Health Care – 35.3% (22.9% of Total			
405	Investments)	C/10 + 100 00		547 100
485		6/19 at 100.00	AA–	547,133

	Cape Girardeau County Industrial			
	Development Authority, Missouri, Health Facilities Revenue			
	Bonds, Saint Francis Medical Center, Series			
	2009A, 5.750%, 6/01/39			
	Cape Girardeau County Industrial			
	Development Authority, Missouri, Health			
760	Facilities Revenue	6/17 at 100.00	BBB+	789,290
	Bonds, Southeast Missouri Hospital			,
	Association, Series 2007, 5.000%, 6/01/27			
	Cass County, Missouri, Hospital Revenue	11/16 at		
930	Bonds, Series 2007, 5.625%, 5/01/38	100.00	BBB-	955,184
	Clinton County Industrial Development			
	Authority, Missouri, Revenue Bonds, Cameron	12/17 at		
480	Regional	100.00	N/R	482,688
	Medical Center, Series 2007, 5.000%, 12/01/37			
	Joplin Industrial Development Authority,			
750	Missouri, Health Facilities Revenue Bonds,	2/15 -+ 102 00	DDD.	700.025
750	Freeman Health System, Series 2004, 5.500%, 2/15/29	2/15 at 102.00	BBB+	788,925
	Joplin Industrial Development Authority,			
	Missouri, Health Facilities Revenue Bonds,			
200	Freeman	2/21 at 100.00	BBB+	223,536
200	Health System, Series 2011, 5.500%, 2/15/31	2/21 at 100.00	BBB.	223,330
	Missouri Health and Educational Facilities			
	Authority, Health Facilities Revenue Bonds,	11/20 at		
540	Capital	100.00	A3	600,032
	Region Medical Center, Series 2011, 5.000%,			
	11/01/27			
	Missouri Health and Educational Facilities			
335	Authority, Health Facilities Revenue Bonds,	2/22 at 100.00	A1	369,170
	Heartland Regional Medical Center, Series			
	2012, 5.000%, 2/15/37			
	Missouri Health and Educational Facilities			
750	Authority, Health Facilities Revenue Bonds, Mercy	No Opt. Call	AA-	761,753
730	Health, Series 2012, 4.000%, 11/15/42	No Opt. Can	AA-	701,733
	Missouri Health and Educational Facilities			
	Authority, Health Facilities Revenue Bonds,	12/21 at		
500	St.	100.00	A+	573,470
	Luke's Episcopal and Presbyterian Hospitals,			
	Series 2011, 5.000%, 12/01/25			
	Missouri Health and Educational Facilities	11/20 at		
2,000	Authority, Health Facility Revenue Bonds, St.	100.00	A+	2,237,740
	Lukes's Health System, Series 2010A, 5.000%,			
	11/15/30			
	Missouri Health and Educational Facilities			
	Authority, Revenue Bonds, BJC Health			
	System, Series 2003:			
1,500	5.125%, 5/15/25	5/13 at 100.00	AA	1,513,935
1,500	3.123 /0, 3/13/23	3/13 at 100.00	$\Lambda\Lambda$	1,515,755

1,155	5.250%, 5/15/32	5/13 at 100.00	AA	1,165,176
720	Saline County Industrial Development Authority, Missouri, Health Facilities Revenue	12/20 at 100.00	BBB–	787,097
720	Bonds, John Fitzgibbon Memorial Hospital Inc., Series 2010, 5.600%, 12/01/28 St. Louis County Industrial Development		DDD-	787,097
	Authority, Missouri, Healthcare Facilities	11/16 at		
350	Revenue Bonds, Ranken-Jordan Project, Refunding Series 2007, 5.000%, 11/15/27	100.00	N/R	354,946
11,455	Total Health Care Housing/Multifamily – 1.3% (0.8% of Total Investments) Missouri Housing Development Commission, Multifamily Housing Revenue Bonds, Series			12,150,075
105	2001II, 5.250%, 12/01/16 Northwest Missouri State University, Housing	6/13 at 100.00	AA	105,344
350	System Revenue Bonds, Refunding Series 2012, 3.125%, 6/01/29	No Opt. Call	A3	332,773
455	Total Housing/Multifamily Housing/Single Family – 1.9% (1.3% of Total Investments) Missouri Housing Development Commission,			438,117
255	Single Family Mortgage Revenue Bonds, Homeownership Loan Program, Series 2007A-1, 4.700%, 9/01/27 (Alternative Minimum Tax) Missouri Housing Development Commission,	9/16 at 100.00	AA+	265,970
380	Single Family Mortgage Revenue Bonds, Homeownership Loan Program, Series 2007C-1, 4.800%,	3/17 at 100.00	AA+	398,004
635	9/01/38 (Alternative Minimum Tax) Total Housing/Single Family Long-Term Care – 12.0% (7.8% of Total Investments) Cole County Industrial Development			663,974
1,750	Authority, Missouri, Revenue Bonds, Lutheran Senior Services – Heisinger Project, Series 2004, 5.500%, 2/01/35 Joplin Industrial Development Authority,	2/14 at 100.00	BBB+	1,772,505
500	Missouri, Revenue Bonds, Christian Homes Inc., Series 2007F, 5.750%, 5/15/31 Lees Summit Industrial Development Authority, Missouri, Revenue Bonds, John	5/17 at 100.00	BBB-	530,305
475	Knox Village	8/17 at 100.00	BBB-	483,037

-	Obligated Group, Series 2007A, 5.125%, 8/15/32			
	Missouri Health and Educational Facilities Authority, Revenue Bonds, Lutheran Senior			
250	Services	2/21 at 100.00	BBB+	281,585
	Projects, Series 2011, 6.000%, 2/01/41			
	St. Louis County Industrial Development Authority, Missouri, Revenue Bonds,			
100	Friendship Village	No Opt. Call	BBB-	98,557
	of Chesterfield, Series 2012, 5.000%, 9/01/42			
	St. Louis County Industrial Development Authority, Missouri, Revenue Bonds,			
425	Friendship Village	9/22 at 100.00	A	448,868
	of Sunset Hills, Series 2012, 5.000%, 9/01/42			,
	St. Louis County Industrial Development			
500	Authority, Missouri, Revenue Bonds, Friendship Village	9/17 at 100.00	BBB-	521,750
300	of West County, Series 2007A, 5.500%,	9/17 at 100.00	DDD-	321,730
	9/01/28			
4,000	Total Long-Term Care			4,136,607
	Tax Obligation/General – 17.2% (11.2% of Total Investments)			
	Branson Reorganized School District R-4,			
	Taney County, Missouri, General Obligation			
600	Bonds,	3/22 at 100.00	A+	655,044
	School Building Series 2012, 4.375%, 3/01/32 Camdenton Reorganized School District R3,			
	Camden County, Missouri, General Obligation			
1,500	Bonds,	3/15 at 100.00	AA-	1,636,155
	Series 2005, 5.250%, 3/01/24 – AGM Insured			
	Independence School District, Jackson County, Missouri, General Obligation Bonds, Series			
1,685	2010,	3/20 at 100.00	AA+	1,971,147
,	5.000%, 3/01/27			, ,
<b>5</b> 00	Missouri School Boards Association, Lease	2/15 . 100.00		5.55.220
500	Participation Certificates, Clay County School District 53 Liberty, Series 2007, 5.250%,	3/17 at 100.00	AA–	567,330
	3/01/27 – AGM Insured			
	Puerto Rico, General Obligation and Public			
	Improvement Bonds, Series 2002A, 5.500%,			
1,000	7/01/20 – NPFG Insured	No Opt. Call	BBB+	1,094,890
5,285	Total Tax Obligation/General			5,924,566
-,	Tax Obligation/Limited – 25.4% (16.5% of			- ,- ,
	Total Investments)	10115		
600	Chesterfield, Missouri, Certificates of Participation, Series 2005, 5.000%, 12/01/24 –	12/15 at 100.00	Aa1	666,570
000	FGIC Insured	100.00	Aai	000,370
	Fenton, Missouri, Tax Increment Revenue			
1.50	Bonds, Gravois Bluffs Redevelopment Project,	4/1.4 . 100.00	DDD	150.015
150	Series	4/14 at 100.00	BBB+	153,017

	2006, 4.500%, 4/01/21 Fulton, Missouri, Tax Increment Revenue Bonds, Fulton Commons Redevelopment			
315	Project, Series 2006, 5.000%, 6/01/28	6/16 at 100.00	N/R	271,587
455	Government of Guam, Business Privilege Tax Bonds, Series 2012B-1, 5.000%, 1/01/42 Howard Bend Levee District, St. Louis County, Missouri, Levee District Improvement Bonds,	1/22 at 100.00	A	502,306
100	Series 2013B:	2/22 / 100 00	DDD.	100 501
180	4.875%, 3/01/33 (WI/DD, Settling 3/12/13)	3/23 at 100.00	BBB+	192,501
115	5.000%, 3/01/38 (WI/DD, Settling 3/12/13)	3/23 at 100.00	BBB+	122,406
485	Jackson County, Missouri, Special Obligation Bonds, Truman Medical Center Project, Series 2011B, 4.350%, 12/01/23	12/21 at 100.00	Aa3	545,659
300	Kansas City Industrial Development Authority, Missouri, Downtown Redevelopment District	9/21 at 100.00	AA-	329,967
	Revenue Bonds, Series 2011A, 5.000%, 9/01/32 Kansas City Tax Increment Financing Commission, Missouri, Tax Increment			,
475	Revenue Bonds, Briarcliff West Project, Series 2006A, 5.400%, 6/01/24 Kansas City Tax Increment Financing	6/14 at 102.00	N/R	470,226
100	Commission, Missouri, Tax Increment Revenue Bonds, Shoal Creek Parkway Project, Series 2011, 5.000%, 6/01/21	6/16 at 100.00	N/R	104,450
360	Missouri Development Finance Board, Infrastructure Facilities Revenue Bonds, Branson Landing Project, Series 2005A, 5.000%, 6/01/35 Missouri Development Finance Board,	6/15 at 100.00	A	369,990
415	Infrastructure Facilities Revenue Bonds, City of Independence, Crackerneck Creek Project,	3/16 at 100.00	A-	425,529
245	Series 2006C, 5.000%, 3/01/28 Monarch-Chesterfield Levee District, St. Louis County, Missouri, Levee District Improvement Bonds, Series 1999, 5.750%, 3/01/19 – NPFG Insured	9/13 at 100.00	A	246,036
500	Osage Beach, Missouri, Tax Increment Revenue Bonds, Prewitts Point Transportation Development District, Series 2006, 5.000%, 5/01/23 Puerto Rico Sales Tax Financing Corporation,	5/13 at 101.00	N/R	478,800
1,750	Sales Tax Revenue Bonds, First Subordinate Series 2009A, 6.000%, 8/01/42	8/19 at 100.00	A+	1,933,488

225	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, Senior Series 2011C,	No Opt. Call	AA-	47,664
1,500	0.000%, 8/01/41 Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, Series 2007A, 0.000%, 8/01/41 – NPFG Insured	No Opt. Call	AA-	314,430
600	Riverside, Missouri, L-385 Levee Redevelopment Plan Tax Increment Revenue Bonds, Series 2004, 5.250%, 5/01/20 St. Joseph Industrial Development Authority,	5/15 at 100.00	A	634,566
	Missouri, Tax Increment Bonds, Shoppes at North Village Project, Series 2005A:			
		11/14 at		
340	5.375%, 11/01/24	100.00	N/R	341,890
400	5.500%, 11/01/27 St. Joseph Industrial Development Authority,	11/14 at 100.00	N/R	401,740
	Missouri, Tax Increment Bonds, Shoppes at	11/14 at		
200	North Village Project, Series 2005B, 5.500%, 11/01/27	100.00	N/R	200,870
9,710	Total Tax Obligation/Limited Transportation – 13.0% (8.4% of Total Investments)			8,753,692
	Kansas City, Missouri, Passenger Facility			
500	Charge Revenue Bonds, Kansas City International Airport, Series 2001, 5.000%, 4/01/23 –	4/13 at 100.00	A	502,015
1.000	AMBAC Insured (Alternative Minimum Tax) St. Louis, Missouri, Airport Revenue Bonds,	No Oat Call	٨	1 170 100
1,000	Lambert-St. Louis International Airport, Series 2005, 5.500%, 7/01/18 – NPFG Insured St. Louis, Missouri, Airport Revenue Bonds,	No Opt. Call	A–	1,170,100
2,500	Lambert-St. Louis International Airport, Series 2007A, 5.000%, 7/01/21 – AGM Insured	7/17 at 100.00	AA-	2,801,047
4,000	Total Transportation U.S. Guaranteed – 10.9% (7.1% of Total			4,473,162
	Investments) (4) Cottleville, Missouri, Certificates of			
80	Participation, Series 2006, 5.250%, 8/01/31 (Pre-refunded 8/01/14)	8/14 at 100.00	N/R (4)	85,684
	Missouri Health and Educational Facilities			
500	Authority, Revenue Bonds, Lake Regional Health System, Series 2003, 5.700%, 2/15/34	2/14 at 100.00	BBB+ (4)	525,815
	(Pre-refunded 2/15/14)			
1,395		6/13 at 100.00	N/R (4)	1,395,000

3	3			
	Springfield Public Building Corporation,			
	Missouri, Lease Revenue Bonds, Jordan Valley	,		
	Park			
	Projects, Series 2000A, 6.125%, 6/01/21 –			
	AMBAC Insured (ETM)			
	St. Louis County Pattonville School District			
	R3, Missouri, General Obligation Bonds,			
	Series 2004:			
	5.250%, 3/01/20 (Pre-refunded 3/01/14) – AGN	Л		
80	Insured	3/14 at 100.00	AA (4)	84,041
00	5.250%, 3/01/20 (Pre-refunded 3/01/14) – AGN		7171 ( <del>1</del> )	04,041
250	Insured	3/14 at 100.00	AA- (4)	262,628
230	5.250%, 3/01/20 (Pre-refunded 3/01/14) – AGN		<i>III</i> (+)	202,020
20	Insured	3/14 at 100.00	AA (4)	21,016
20	St. Louis County, Missouri, GNMA	3/14 at 100.00	AA (4)	21,010
	Collateralized Mortgage Revenue Bonds,			
500	Series 1993D, 5.650%,	No Opt. Call	AA+ (4)	628,685
300	7/01/20 (Alternative Minimum Tax) (ETM)	No Opt. Can	AA+ ( <del>1</del> )	020,003
	Sugar Creek, Missouri, Industrial Development			
750	Revenue Bonds, Lafarge North America Inc.,	6/13 at 101.00	A (4)	767,213
730	Series 2003A, 5.650%, 6/01/37 (Pre-refunded	0/13 at 101.00	A (4)	707,213
	6/01/13) (Alternative Minimum Tax)			
3,575	Total U.S. Guaranteed			3,770,082
3,373	Utilities – 6.1% (3.9% of Total Investments)			3,770,002
	Missouri Joint Municipal Electric Utility			
	Commission, Iatan 2 Power Project Revenue			
110	Bonds,	1/16 at 100.00	A2	118,433
110	Series 2006A, 4.125%, 1/01/21 – AMBAC	1/10 at 100.00	AZ	110,433
	Insured			
	Missouri Joint Municipal Electric Utility			
	Commission, Plum Point Project, Revenue			
500	Bonds,	1/16 at 100.00	A-	520,305
300	Series 2006, 5.000%, 1/01/34 – NPFG Insured	1/10 at 100.00	Α-	320,303
	Missouri Joint Municipal Electric Utility			
	Commission, Power Supply System Revenue			
	Bonds, MoPEP			
	Facilities, Series 2012:			
400	5.000%, 1/01/32	1/21 at 100.00	A2	443,568
425	5.000%, 1/01/37	1/21 at 100.00	A2	464,559
423	Puerto Rico Electric Power Authority, Power	1/21 at 100.00	AZ	404,333
	Revenue Bonds, Series 2010XX, 5.250%,			
530	7/01/40	7/20 at 100.00	BBB+	536,238
1,965	Total Utilities	7720 at 100.00	БББ⊤	2,083,103
1,703	Water and Sewer – 18.4% (12.0% of Total			2,003,103
	Investments)			
	Carroll County Public Water Supply District 1,			
	Missouri, Water System Revenue Bonds,			
600	Refunding	3/18 at 100.00	A	675,252
000	Series 2009, 6.000%, 3/01/39	2,10 41 100.00	11	0.15,252
	Kansas City, Missouri, Water Revenue Bonds,	12/21 at		
1,150	Series 2012A, 4.500%, 12/01/36	100.00	AA+	1,294,682
1,150	001100 201211, 11000 /0, 12101100	100.00	7 37 3 1	1,271,002

1,000	Kansas City, Missouri, Water Revenue Bonds, Series 2013A, 4.000%, 12/01/37 (WI/DD, Settling 3/14/13)	12/21 at 100.00	AA+	1,058,030
	Metropolitan St. Louis Sewerage District, Missouri, Wastewater System Revenue Bonds,			
200	Series	5/17 at 100.00	AAA	225,960
	2006C, 5.000%, 5/01/36 - NPFG Insured			,
	Missouri Environmental Improvement and			
	Energy Resources Authority, Water Facility	12/16 at		
2,965	Revenue	100.00	AA+	3,090,775
	Bonds, Missouri-American Water Company,			
	Series 2006, 4.600%, 12/01/36 – AMBAC			
	Insured			
	(Alternative Minimum Tax) (UB) (5)			
5,915	Total Water and Sewer			6,344,699
\$ 50,725	Total Investments (cost \$49,788,827) – 154.1%			53,071,942
	Floating Rate Obligations $-(6.5)\%$			(2,225,000)
	MuniFund Term Preferred Shares, at			
	Liquidation Value – (51.9)% (6)			(17,880,000)
	Other Assets Less Liabilities - 4.3%			1,464,299
	Net Assets Applicable to Common Shares -			
	100%			\$ 34,431,241

#### Fair Value Measurements

Fair value is defined as the price that the Funds would receive 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	\$ —	\$53,071,942	\$ —	\$53,071,942

#### **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 February 28, 2013, the cost of investments was \$47,516,106.

Gross unrealized appreciation and gross unrealized depreciation of investments as of February 28, 2013, were as follows:

Gross unrealized:

Appreciation \$3,416,463

Depreciation (85,883)
Net unrealized appreciation (depreciation) of investments \$3,330,580

- (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) Ratings: Using the highest 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) 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 regarded as having an implied rating equal to the rating of such securities.
- (5) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
- (6) MuniFund Term Preferred Shares, at Liquidation Value as a percentage of Total Investments is 33.7%
- N/R Not rated.
- WI/DD Investment, or portion of investment, purchased on a when-issued or delayed delivery basis.
- (ETM) Escrowed to maturity.
  - (IF) Inverse floating rate investment.
  - (UB) Underlying bond of an inverse floating rate trust reflected as a financing transaction.

#### 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 Missouri Premium Income Municipal Fund

By (Signature and Title) /s/ Kevin J. McCarthy

Kevin J. McCarthy

Vice President and Secretary

Date: April 29, 2013

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/ Gifford R. Zimmerman

Gifford R. Zimmerman

Chief Administrative Officer (principal executive officer)

Date: April 29, 2013

By (Signature and Title) /s/ Stephen D. Foy

Stephen D. Foy

Vice President and Controller (principal financial officer)

Date: April 29, 2013