

NUVEEN ARIZONA PREMIUM INCOME MUNICIPAL FUND
Form N-Q
July 30, 2013

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 811-7278

Nuveen Arizona 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: 2/28

Date of reporting period: 5/31/13

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 Arizona Premium Income
Municipal Fund (NAZ)
May 31, 2013

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
\$ 1,045	Consumer Staples – 0.6% (0.4% of Total Investments) Puerto Rico, The Children’s Trust Fund, Tobacco Settlement Asset-Backed Refunding Bonds, Series 2002, 5.375%, 5/15/33	11/13 at 100.00	BBB+	\$ 1,056,746
1,000	Education and Civic Organizations – 20.9% (14.3% of Total Investments) Arizona Board of Regents, Arizona State University System Revenue Bonds, Refunding Bonds, Series 2013A, 5.000%, 7/01/37	No Opt. Call	AA	1,121,200
1,400	Arizona Board of Regents, University of Arizona, Stimulus Plan for Economic and Educational Development Revenue Bonds, Series 2013, 5.000%, 8/01/21	No Opt. Call	AA–	1,681,484
2,240	Arizona Board of Regents, University of Arizona, System Revenue Bonds, Tender Option Bond Trust 4310, 18.041%, 6/01/20 (IF) (4)	No Opt. Call	AA	3,214,646
4,600	Arizona Higher Education Loan Authority, Student Loan Revenue Bonds, Series 2007B, Auction Rate Securities, 0.460%, 11/01/41 (Alternative Minimum Tax) (5)	8/13 at 100.00	A	3,901,283
2,705	Arizona State University, System Revenue Bonds, Series 2005: 5.000%, 7/01/20 – AMBAC Insured	7/15 at 100.00	Aa3	2,953,130
750	5.000%, 7/01/21 – AMBAC Insured	7/15 at 100.00	Aa3	818,633
2,000	Glendale Industrial Development Authority, Arizona, Revenue Bonds, Midwestern University,	5/22 at 100.00	A–	2,165,700

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3,775	Refunding Series 2007, 5.000%, 5/15/31 Glendale Industrial Development Authority, Arizona, Revenue Bonds, Midwestern University,	5/20 at 100.00	A+	3,959,296
790	Refunding Series 2010, 5.125%, 5/15/40 Northern Arizona University, System Revenue Bonds, Series 2012, 5.000%, 6/01/41	6/21 at 100.00	A+	851,762
900	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Choice Academies Charter Schools Project, Series 2012, 5.625%, 9/01/42	9/22 at 100.00	BB+	913,851
755	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Brighter Choice Foundation Charter Middle Schools Project, Albany, New York, Series 2012, 7.500%, 7/01/42	7/22 at 100.00	BB-	793,966
585	Phoenix Industrial Development Authority, Arizona, Education Revenue Bonds, Great Hearts Academies – Veritas Project, Series 2012, 6.300%, 7/01/42	7/21 at 100.00	BB	620,896
745	Phoenix Industrial Development Authority, Arizona, Education Revenue Bonds, Painted Rock Academy Charter School Project, Series 2012A, 7.500%, 7/01/42	7/20 at 100.00	N/R	784,537
3,675	Phoenix Industrial Development Authority, Arizona, Lease Revenue Bonds, Rowan University Project, Series 2012, 5.000%, 6/01/42 – AGM Insured (UB) (4)	6/22 at 100.00	A+	3,875,141
1,045	Pima County Industrial Development Authority, Arizona, Charter School Revenue Bonds, Noah Webster Basic Schools Inc., Series 2004, 6.000%, 12/15/24	12/14 at 100.00	BBB-	1,062,274
745	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	782,377
745	Pima County Industrial Development Authority, Arizona, Education Revenue Bonds, Paradise Education Center Project, Series 2010: 6.000%, 6/01/40	6/19 at 100.00	BBB-	771,895
200	6.100%, 6/01/45	6/19 at 100.00	BBB-	207,508
655	Pima County Industrial Development Authority, Arizona, Educational Revenue	6/16 at 100.00	BBB-	667,019

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	Bonds, Paradise Education Center Charter School, Series 2006, 6.000%, 6/01/36			
1,000	Pima County Industrial Development Authority, Arizona, Educational Revenue Bonds, Valley	7/18 at 100.00	Baa3	1,062,400
	Academy Charter School Project, Series 2008, 6.500%, 7/01/38			
250	Sun Devil Energy LLC, Arizona, Revenue Refunding Bonds, Arizona State University Project, Series 2008, 5.000%, 7/01/22	No Opt. Call	AA-	297,708
1,500	Tempe Industrial Development Authority, Arizona, Lease Revenue Bonds, Arizona State University	7/13 at 100.00	N/R	1,500,690
	Foundation Project, Series 2003, 5.000%, 7/01/34 – AMBAC Insured			
1,350	Tucson Industrial Development Authority, Arizona, Charter School Revenue Bonds, Arizona	9/14 at 100.00	BB+	1,363,649
	Agribusiness and Equine Center Charter School, Series 2004A, 6.125%, 9/01/34			
825	Yavapai County Industrial Development Authority, Arizona, Charter School Revenue Bonds,	3/21 at 100.00	BB+	962,627
	Arizona Agribusiness and Equine Center Charter School, Series 2011, 7.875%, 3/01/42			
34,235	Total Education and Civic Organizations Health Care – 27.5% (18.9% of Total Investments)			36,333,672
	Arizona Health Facilities Authority, Hospital Revenue Bonds, Banner Health Systems, Series	1/17 at 100.00	AA-	4,270,569
3,855	2007A, 5.000%, 1/01/25			
	Arizona Health Facilities Authority, Hospital Revenue Bonds, Banner Health Systems, Series	1/18 at 100.00	AA-	8,473,471
7,730	2008D, 5.500%, 1/01/38			
5,100	Arizona Health Facilities Authority, Hospital System Revenue Bonds, Phoenix Children's Hospital, Refunding Series 2012A, 5.000%, 2/01/42	2/22 at 100.00	BBB+	5,391,669
	Arizona Health Facilities Authority, Revenue Bonds, Blood Systems Inc., Series 2004, 5.000%, 4/01/20	4/14 at 100.00	A	1,271,011
1,225	Glendale Industrial Development Authority, Arizona, Revenue Bonds, John C. Lincoln Health	12/15 at 100.00	BBB+	1,837,044
1,800	Network, Series 2005B, 5.000%, 12/01/37			
2,965	Glendale Industrial Development Authority, Arizona, Revenue Bonds, John C. Lincoln	12/17 at 100.00	BBB+	3,049,710

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	Health			
	Network, Series 2007, 5.000%, 12/01/42			
	Maricopa County Industrial Development Authority, Arizona, Health Facility Revenue Bonds,	7/14 at 100.00	A	6,398,046
6,100	Catholic Healthcare West, Series 2004A, 5.375%, 7/01/23			
	Maricopa County Industrial Development Authority, Arizona, Health Facility Revenue Bonds,	7/17 at 100.00	A	8,174,174
7,560	Catholic Healthcare West, Series 2007A, 5.250%, 7/01/32			
	Puerto Rico Industrial, Tourist, Educational, Medical and Environmental Control Facilities Financing	11/13 at 100.00	AA+	331,617
330	Authority, Hospital Revenue Bonds, Hospital de la Concepcion, Series 2000A, 6.375%, 11/15/15			
	Scottsdale Industrial Development Authority, Arizona, Hospital Revenue Bonds, Scottsdale Healthcare, Series 2006C. Re-offering, 5.000%, 9/01/35 – AGC Insured	9/20 at 100.00	AA–	1,209,197
1,120	Show Low Industrial Development Authority, Arizona, Hospital Revenue Bonds, Navapache Regional Medical Center, Series 2005:			
		12/15 at 100.00	BBB+	1,455,016
1,415	5.000%, 12/01/25 – RAAI Insured			
		12/15 at 100.00	BBB+	1,185,532
1,160	5.000%, 12/01/30 – RAAI Insured			
	University Medical Center Corporation, Tucson, Arizona, Hospital Revenue Bonds, Series 2011,	7/21 at 100.00	BBB+	2,839,575
2,500	6.000%, 7/01/39			
	Yavapai County Industrial Development Authority, Arizona, Hospital Revenue Bonds, Yavapai	8/13 at 100.00	BBB+	2,016,000
2,000	Regional Medical Center, Series 2003A, 6.000%, 8/01/33			
44,860	Total Health Care Long-Term Care – 0.5% (0.3% of Total Investments)			47,902,631
	Tempe Industrial Development Authority, Arizona, Revenue Bonds, Friendship Village of Tempe	12/21 at 100.00	N/R	841,316
780	Project, Refunding Series 2012A, 6.000%, 12/01/32			
	Tax Obligation/General – 15.7% (10.8% of Total Investments)			
	El Mirage, Arizona, General Obligation Bonds Series 2012, 5.000%, 7/01/42 – AGM Insured	7/22 at 100.00	AA–	2,333,071
2,140				

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1,265	Gila County Unified School District 10 Payson, Arizona, School Improvement Bonds, Project 2006, Series 2008B, 5.750%, 7/01/28	7/18 at 100.00	Aa3	1,473,219
1,000	Maricopa County Elementary School District 83 Cartwright, Arizona, General Obligation Bonds, School Improvement, Project 2010, Series 2011A, 5.375%, 7/01/30 – AGM Insured	7/21 at 100.00	AA–	1,122,380
1,000	Maricopa County School District 6, Arizona, General Obligation Refunding Bonds, Washington Elementary School, Series 2002A, 5.375%, 7/01/16 – AGM Insured	No Opt. Call	Aa2	1,141,520
775	Maricopa County School District 79 Litchfield Elementary, Arizona, General Obligation Bonds, Series 2011, 5.000%, 7/01/23	7/21 at 100.00	Aa2	915,694
1,165	Maricopa County Unified School District 69, Paradise Valley, Arizona, General Obligation Refunding Bonds, Series 2002A, 5.250%, 7/01/14 – FGIC Insured	No Opt. Call	Aa2	1,226,337
1,200	Maricopa County Unified School District 95 Queen Creek, Arizona, General Obligation Bonds, Series 2008, 5.000%, 7/01/27 – AGM Insured	7/18 at 100.00	A1	1,335,192
1,405	Mesa, Arizona, General Obligation Bonds, Series 2002, 5.375%, 7/01/15 – FGIC Insured	No Opt. Call	AA	1,542,606
1,370	Pima County Continental Elementary School District 39, Arizona, General Obligation Bonds, Series 2011A, 6.000%, 7/01/30 – AGM Insured	7/21 at 100.00	AA–	1,645,055
1,000	Pima County Unified School District 08 Flowing Wells, Arizona, General Obligation Bonds, Series 2011B, 5.375%, 7/01/29	7/21 at 100.00	A+	1,116,370
1,750	Pima County Unified School District 6, Marana, Arizona, General Obligation Bonds, School Improvement Project 2010 Series 2011A, 5.000%, 7/01/25	7/21 at 100.00	A+	1,957,568
4,530	Pinal County Unified School District 1, Florence, Arizona, General Obligation Bonds, Series 2008C, 5.250%, 7/01/28	7/18 at 100.00	A	5,111,879
1,310	Scottsdale, Arizona, General Obligation Bonds, Preserve Acquisition Series 1999: 5.000%, 7/01/32	7/21 at 100.00	AAA	1,506,421
1,360	5.000%, 7/01/33	7/21 at 100.00	AAA	1,558,655
1,705	5.000%, 7/01/34	7/21 at 100.00	AAA	1,947,451

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1,340	Yuma & La Paz Counties Community College District, Arizona, General Obligation Bonds, Series	7/16 at 100.00	Aa3	1,478,677
	2006, 5.000%, 7/01/21 – NPMG Insured			
24,315	Total Tax Obligation/General Tax Obligation/Limited – 37.9% (26.0% of Total Investments)			27,412,095
2,310	Arizona Sports and Tourism Authority, Senior Revenue Refunding Bonds, Multipurpose Stadium Facility Project, Series 2012A, 5.000%, 7/01/36	7/22 at 100.00	A1	2,503,624
1,000	Arizona State Transportation Board, Highway Revenue Bonds, Subordinate Refunding Series 2011A, 5.000%, 7/01/36	7/21 at 100.00	AA+	1,122,370
345	Buckeye, Arizona, Festival Ranch Community Facilities District General Obligation Bonds, Series 2012: 5.000%, 7/15/27	7/22 at 100.00	BBB	360,532
1,085	5.000%, 7/15/31	7/22 at 100.00	BBB	1,118,201
664	Centerra Community Facilities District, Goodyear, Arizona, General Obligation Bonds, Series 2005, 5.500%, 7/15/29	7/15 at 100.00	N/R	630,607
500	Eastmark Community Facilities District 1, Mesa, Arizona, Special Assessment Revenue Bonds, Assessment District 1, Series 2013, 5.250%, 7/01/38 (WI/DD, Settling 6/11/13)	7/23 at 100.00	N/R	479,470
446	Estrella Mountain Ranch Community Facilities District, Arizona, Special Assessment Bonds, Montecito Assessment District, Series 2007: 5.700%, 7/01/27	1/17 at 100.00	N/R	442,147
482	5.800%, 7/01/32	1/17 at 100.00	N/R	468,972
807	Estrella Mountain Ranch Community Facilities District, Goodyear, Arizona, Special Assessment Lien Bonds, Series 2001A, 7.875%, 7/01/25	7/13 at 100.00	N/R	808,582
1,500	Goodyear, Arizona, Community Facilities General District 1, Arizona, General Obligation Refunding Bonds, Series 2013, 5.000%, 7/15/23 (WI/DD, Settling 6/12/13)	No Opt. Call	A-	1,713,165
510	Government of Guam, Business Privilege Tax Bonds, Series 2011A, 5.000%, 1/01/31	1/22 at 100.00	A	559,735
2,280	Greater Arizona Development Authority, Infrastructure Revenue Bonds, Series 2006-1, 5.000%, 8/01/22 – NPMG Insured	8/16 at 100.00	AA-	2,559,095

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1,550	Greater Arizona Development Authority, Infrastructure Revenue Bonds, Series 2006A, 5.000%, 8/01/23 – NPMG Insured	8/16 at 100.00	A1	1,719,245
250	La Paz County, Arizona, Excise Tax Revenue Bonds, Judgment Series 2011A, 4.750%, 7/01/36	7/17 at 100.00	AA–	260,483
2,040	Marana Municipal Property Corporation, Arizona, Municipal Facilities Revenue Bonds, Series 2008B, 5.125%, 7/01/28	7/13 at 100.00	AA	2,046,467
1,180	Marana Municipal Property Corporation, Arizona, Revenue Bonds, Series 2003: 5.000%, 7/01/23 – AMBAC Insured	7/13 at 100.00	AA	1,184,472
575	5.000%, 7/01/28 – AMBAC Insured	7/13 at 100.00	AA	576,702
3,282	Marana, Arizona, Tangerine Farms Road Improvement District Revenue Bonds, Series 2006, 4.600%, 1/01/26	7/16 at 100.00	A2	3,363,295
680	Marley Park Community Facilities District, City of Surprise, Arizona, Limited Tax General Obligation Bonds, Series 2008 (Bank Qualified), 6.100%, 7/15/32	7/17 at 100.00	N/R	681,414
1,160	Merrill Ranch Community Facilities District 1, Florence, Arizona, General Obligation Bonds, Series 2008A, 7.400%, 7/15/33	7/18 at 100.00	N/R	1,256,906
2,175	Mohave County, Arizona, Certificates of Participation, Series 2004, 5.250%, 7/01/19 – AMBAC Insured	7/14 at 100.00	N/R	2,228,612
300	Page, Arizona, Pledged Revenue Bonds, Refunding Series 2011, 5.000%, 7/01/26	7/21 at 100.00	AA–	340,128
1,500	Palm Valley Community Facility District 3, Goodyear, Arizona, General Obligation Bonds, Series 2006, 5.300%, 7/15/31	7/16 at 100.00	N/R	1,416,465
1,000	Palm Valley Community Facility District 3, Goodyear, Arizona, Limited Tax General Obligation Bonds, Series 2007, 5.800%, 7/15/32	7/17 at 100.00	N/R	972,920
400	Parkway Community Facilities District 1, Prescott Valley, Arizona, General Obligation Bonds, Series 2006, 5.350%, 7/15/31	7/16 at 100.00	N/R	371,480
2,500	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, JMF-Higley 2012 LLC Project, Series 2012, 5.000%, 12/01/36	No Opt. Call	A+	2,694,950
580	Phoenix Mesa Gateway Airport Authority, Arizona, Special Facility Revenue Bonds,	7/22 at 100.00	AA+	602,063

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3,000	Mesa Project, Series 2012, 5.000%, 7/01/38 (Alternative Minimum Tax) Pinal County Industrial Development Authority, Arizona, Correctional Facilities Contract	10/13 at 100.00	BBB-	3,004,260
1,140	Revenue Bonds, Florence West Prison LLC, Series 2002A, 5.000%, 10/01/18 – ACA Insured Pinetop Fire District of Navajo County, Arizona, Certificates of Participation, Series 2008, 7.750%, 6/15/29	6/16 at 102.00	A3	1,208,537
300	Pronghorn Ranch Community Facilities District, Prescott Valley, Arizona, General Obligation Bonds, Series 2004, 6.400%, 7/15/29	7/14 at 100.00	N/R	303,234
275	Puerto Rico Public Buildings Authority, Guaranteed Government Facilities Revenue Refunding Bonds, Series 2002D, 5.125%, 7/01/24	7/13 at 100.00	BBB-	274,874
2,000	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, First Subordinate Series 2009A, 0.000%, 8/01/32	8/26 at 100.00	A+	2,048,920
500	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, First Subordinate Series 2010A, 5.375%, 8/01/39	2/20 at 100.00	A+	525,365
3,350	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, First Subordinate Series 2010C, 0.000%, 8/01/38	No Opt. Call	A+	774,453
4,300	San Luis Civic Improvement Corporation, Arizona, Municipal Facilities Excise Tax Revenue Bonds, Series 2005, 5.000%, 7/01/25 – SYNCORA GTY Insured	7/15 at 100.00	A+	4,473,677
3,000	Scottsdale Municipal Property Corporation, Arizona, Excise Tax Revenue Bonds, Refunding Series 2006, 5.000%, 7/01/24	No Opt. Call	AAA	3,765,060
5,000	Scottsdale Municipal Property Corporation, Arizona, Excise Tax Revenue Bonds, Water & Sewer Improvements Project, Series 2010, 5.000%, 7/01/36	7/20 at 100.00	AAA	5,697,050
1,570	Tartesso West Community Facility District, Buckeye, Arizona, Limited Tax General Obligation Bonds, Series 2007, 5.900%, 7/15/32	7/17 at 100.00	N/R	1,527,814

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2,000	Tempe, Arizona, Transit Excise Tax Revenue Obligation Bonds, Refunding Series 2012, 5.000%, 7/01/37	7/22 at 100.00	AAA	2,230,820
1,750	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+	1,910,720
3,145	Vistancia Community Facilities District, Peoria, Arizona, General Obligation Bonds, Series 2005, 5.750%, 7/15/24	7/15 at 100.00	A1	3,284,072
1,597	Watson Road Community Facilities District, Arizona, Special Assessment Revenue Bonds, Series 2005, 6.000%, 7/01/30	7/16 at 100.00	N/R	1,631,064
1,000	Westpark Community Facilities District, Buckeye, Arizona, General Obligation Tax Increment Bonds Series 2006, 5.250%, 7/15/31	7/16 at 100.00	N/R	944,100
65,028	Total Tax Obligation/Limited Transportation – 2.6% (1.8% of Total Investments)			66,086,122
110	Phoenix Civic Improvement Corporation, Arizona, Junior Lien Airport Revenue Bonds, Series 2010A, 5.000%, 7/01/40	7/20 at 100.00	A+	117,950
1,785	Phoenix Civic Improvement Corporation, Arizona, Senior Lien Airport Revenue Bonds, Refunding Series 2013: 5.000%, 7/01/30 (Alternative Minimum Tax)	7/23 at 100.00	AA–	1,993,899
2,215	5.000%, 7/01/32 (Alternative Minimum Tax)	7/23 at 100.00	AA–	2,440,731
4,110	Total Transportation U.S. Guaranteed – 9.2% (6.3% of Total Investments) (6)			4,552,580
2,000	DC Ranch Community Facilities District, Scottsdale, Arizona, General Obligation Bonds, Series 2002, 5.000%, 7/15/27 (Pre-refunded 7/15/13) – AMBAC Insured	7/13 at 100.00	A1 (6)	2,011,560
3,000	Glendale Western Loop 101 Public Facilities Corporation, Arizona, Third Lien Excise Tax Revenue Bonds, Series 2008B, 6.250%, 7/01/38 (Pre-refunded 1/01/14)	1/14 at 100.00	AA (6)	3,105,660
1,250	Maricopa County Industrial Development Authority, Arizona, Hospital Revenue Refunding Bonds, Samaritan Health Services, Series 1990A, 7.000%, 12/01/16 – NPFQ Insured (ETM)	No Opt. Call	N/R (6)	1,415,488
1,000	Maricopa County Unified School District 11, Peoria, Arizona, General Obligation Bonds,	7/15 at 100.00	Aa2 (6)	1,095,450

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	Second Series 2005, 5.000%, 7/01/20 (Pre-refunded 7/01/15) – FGIC Insured Maricopa County Unified School District 89, Dysart, Arizona, General Obligation Bonds, Series	7/14 at 100.00	AA– (6)	105,355
100	2004B, 5.250%, 7/01/20 (Pre-refunded 7/01/14) – AGM Insured Maricopa County Union High School District 210 Phoenix, Arizona, General Obligation Bonds,	7/16 at 100.00	AA (6)	697,847
615	Series 2006C, 5.000%, 7/01/24 (Pre-refunded 7/01/16) – NPDFG Insured Maricopa County Union High School District 210, Phoenix, Arizona, General Obligation Bonds,	7/14 at 100.00	AA (6)	1,655,624
1,575	Series 2004A, 5.000%, 7/01/20 (Pre-refunded 7/01/14) – AGM Insured Maricopa County, Arizona, Hospital Revenue Bonds, Sun Health Corporation, Series 2005, 5.000%,	4/15 at 100.00	N/R (6)	709,666
655	4/01/16 (Pre-refunded 4/01/15) Mesa, Arizona, Street and Highway User Tax Revenue Bonds, Series 2005, 5.000%, 7/01/24	7/15 at 100.00	AA (6)	3,718,543
3,400	(Pre-refunded 7/01/15) – AGM Insured Mesa, Arizona, Utility System Revenue Refunding Bonds, Series 2002, 5.250%, 7/01/17 –	No Opt. Call	Aa2 (6)	743,526
630	FGIC Insured (ETM) Oro Valley Municipal Property Corporation, Arizona, Senior Lien Water Revenue Bonds, Series	7/13 at 100.00	AA (6)	707,799
705	2003, 5.000%, 7/01/23 (Pre-refunded 7/01/13) – NPDFG Insured			
14,930	Total U.S. Guaranteed Utilities – 20.3% (13.9% of Total Investments) Apache County Industrial Development Authority, Arizona, Pollution Control Revenue Bonds,			15,966,518
1,495	Tucson Electric Power Company, Series 20102A, 4.500%, 3/01/30 Arizona Power Authority, Special Obligation Power Resource Revenue Refunding Crossover Bonds, Hoover Project, Series 2001:	3/22 at 100.00	BBB	1,537,951
1,000	5.250%, 10/01/15	No Opt. Call	AA	1,109,050
1,500	5.250%, 10/01/17	No Opt. Call	AA	1,772,295
175	Guam Power Authority, Revenue Bonds, Series 2012A, 5.000%, 10/01/30 – AGM Insured	10/22 at 100.00	AA–	196,704

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4,310	Maricopa County Pollution Control Corporation, Arizona, Pollution Control Revenue Refunding Bonds, Southern California Edison Company, Series 2000A, 5.000%, 6/01/35	6/20 at 100.00	A1	4,681,821
370	Mesa, Arizona, Utility System Revenue Refunding Bonds, Series 2002, 5.250%, 7/01/17 – FGIC Insured	No Opt. Call	Aa2	431,875
3,335	Pima County Industrial Development Authority, Arizona, Revenue Bonds, Tucson Electric Power Company, Refunding Series 2008, 5.750%, 9/01/29	1/15 at 100.00	BBB–	3,498,782
1,800	Pinal County Electrical District 3, Arizona, Electric System Revenue Bonds, Refunding Series 2011, 5.250%, 7/01/36	7/21 at 100.00	A	1,982,106
2,660	Puerto Rico Electric Power Authority, Power Revenue Bonds, Series 2005RR: 5.000%, 7/01/26 – SYNCORA GTY Insured	7/15 at 100.00	BBB+	2,674,258
2,170	5.000%, 7/01/27 – SYNCORA GTY Insured	7/15 at 100.00	BBB+	2,177,356
2,500	Salt River Project Agricultural Improvement and Power District, Arizona, Electric System Revenue Bonds, Tender Option Bond Trust 09-9W, 18.090%, 1/01/38 (IF) (4)	1/18 at 100.00	Aa1	3,702,600
4,500	Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Citigroup Energy Inc Prepay Contract Obligations, Series 2007: 5.500%, 12/01/29	No Opt. Call	A–	5,334,480
5,665	5.000%, 12/01/37	No Opt. Call	A–	6,270,532
31,480	Total Utilities Water and Sewer – 10.6% (7.3% of Total Investments)			35,369,810
500	City of Goodyear, Arizona Subordinate Lien Water and Sewer Revenue Obligations, Series 2011, 5.500%, 7/01/41	7/21 at 100.00	AA–	559,590
1,005	Cottonwood, Arizona, Senior Lien Water System Revenue Bonds, Municipal Property Corporation, Series 2004, 5.000%, 7/01/24 – SYNCORA GTY Insured	7/14 at 100.00	A	1,021,402
500	Glendale, Arizona, Water and Sewer Revenue Bonds, Refunding Series 2012, 5.000%, 7/01/28	7/22 at 100.00	AA	574,480
2,855	Goodyear, Arizona, Water and Sewer Revenue Obligations, Series 2010, 5.625%, 7/01/39	7/20 at 100.00	A+	3,146,952
455			N/R	455,701

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	Maricopa County Industrial Development Authority, Arizona, Water System Improvement Revenue	12/13 at 100.00		
1,000	Bonds, Chaparral City Water Company, Series 1997A, 5.400%, 12/01/22 – AMBAC Insured (Alternative Minimum Tax) Phoenix Civic Improvement Corporation, Arizona, Junior Lien Wastewater System Revenue Bonds, Series 2004, 5.000%, 7/01/24 – NPIFG Insured Phoenix Civic Improvement Corporation, Arizona, Junior Lien Water System Revenue Refunding	7/14 at 100.00	AA+	1,049,790
1,250	Bonds, Series 2001: 5.500%, 7/01/21 – FGIC Insured	No Opt. Call	AAA	1,567,113
1,040	5.500%, 7/01/22 – FGIC Insured	No Opt. Call	AAA	1,312,875
1,500	Pima County, Arizona, Sewer System Revenue Obligations, Series 2012A, 5.000%, 7/01/26	No Opt. Call	AA–	1,737,600
750	Puerto Rico Aqueduct and Sewerage Authority, Revenue Bonds, Senior Lien Series 2008A, 6.000%, 7/01/38	7/18 at 100.00	BBB–	770,235
1,600	Surprise Municipal Property Corporation, Arizona, Wastewater System Revenue Bonds, Series 2007: 4.700%, 4/01/22	4/14 at 100.00	A–	1,613,504
1,970	4.900%, 4/01/32	4/17 at 100.00	A–	2,001,853
500	Tucson, Arizona, Water System Revenue Bonds, Refunding Series 2013A, 5.000%, 7/01/23 (WI/DD, Settling 6/05/13)	No Opt. Call	AA	610,055
2,370	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)	12/17 at 100.00	N/R	2,031,303
17,295	Total Water and Sewer			18,452,453
\$ 238,078	Total Investments (cost \$236,263,800) – 145.8%			253,973,943
	Floating Rate Obligations – (1.6)%			(2,755,000)
	MuniFund Term Preferred Shares, at Liquidation Value – (29.1)% (7)			(50,671,000)
	Variable Rate MuniFund Term Preferred Shares, at Liquidation Value – (16.1)% (7)			(28,000,000)
	Other Assets Less Liabilities – 1.0%			1,610,831
	Net Assets Applicable to Common Shares – 100%			\$ 174,158,774

Fair Value Measurements

Fair value is defined as the price that the Fund 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	\$ —	\$250,072,660	\$3,901,283	\$253,973,943

The following is a reconciliation of the Fund's Level 3 investments held at the beginning and end of the measurement period:

	Level 3 Municipal Bonds
Balance at the beginning of period	\$2,066,898
Gains (losses):	
Net realized gains (losses)	—
Change in net unrealized appreciation (depreciation)	(265,195)
Purchases at cost	2,099,580
Sales at proceeds	—
Net discounts (premiums)	—
Transfers in to	—
Transfers out of	—
Balance at the end of period	\$3,901,283

The valuation techniques and significant unobservable inputs used in recurring Level 3 fair value measurements of assets as of May 31, 2013, were as follows:

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	Market Value	Techniques	Unobservable Inputs	Range
Municipal Bonds	\$3,901,283	Discounted	MMD Spread AAA - Rated	0-6%
		Cash Flow	MMD Liquidity Discount	0-10%

MMD - Municipal Market Data

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 May 31, 2013, the cost of investments was \$235,390,835.

Gross unrealized appreciation and gross unrealized depreciation of investments as of May 31, 2013, were as follows:

Gross unrealized:	
Appreciation	\$20,236,441
Depreciation	(4,408,337)
Net unrealized appreciation (depreciation) of investments	\$15,828,104

- (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) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
- (5) Investment valued at fair value using methods determined in good faith by, or at the discretion of, the Board of Trustees. For fair value measurement disclosure purposes, investment classified as Level 3.
- (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. Certain bonds backed by U.S. Government or agency securities are regarded as having an implied rating equal to the rating of such securities. MuniFund Term Preferred Shares and Variable Rate MuniFund Term Preferred Shares, at Liquidation
- (7) Value as a percentage of Total Investments are 20.0% and 11.0%, respectively.

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 Arizona Premium Income Municipal Fund

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

Date: July 30, 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: July 30, 2013

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

Date: July 30, 2013