

NUVEEN ARIZONA PREMIUM INCOME MUNICIPAL FUND  
Form N-Q  
July 29, 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 811-07278

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: 2/29

Date of reporting period: 5/31/16

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 Arizona Premium Income Municipal Fund (NAZ)  
May 31, 2016 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 144.1% (100.0% of Total Investments)			
	MUNICIPAL BONDS – 144.1% (100.0% of Total Investments)			
	Education and Civic Organizations – 24.7% (17.1% of Total Investments)			
\$ 1,500	Arizona Board of Regents, Arizona State University System Revenue Bonds, Refunding Green Series 2015A, 5.000%, 7/01/41	7/25 at 100.00	AA	\$ 1,793,580
3,480	Arizona Board of Regents, Arizona State University System Revenue Bonds, Refunding Series 2013A, 5.000%, 7/01/43	No Opt. Call	AA	4,075,115
1,500	Arizona Board of Regents, Arizona State University System Revenue Bonds, Series 2015D, 5.000%, 7/01/41	7/25 at 100.00	AA	1,793,580
2,515	Arizona Board of Regents, University of Arizona, SPEED Revenue Bonds, Stimulus Plan for Economic and Educational Development, Series 2014, 5.000%, 8/01/44	8/24 at 100.00	Aa3	2,980,853
2,240	Arizona Board of Regents, University of Arizona, System Revenue Bonds, Tender Option Bond Trust 2015-XF0053, 16.709%, 6/01/20 (IF)	No Opt. Call	Aa2	3,751,866
1,400	Arizona Board of Regents, University of Arizona, SPEED Revenue Bonds, Stimulus Plan for Economic and Educational Development, Series 2013, 5.000%, 8/01/21	No Opt. Call	Aa3	1,650,586
2,000	Glendale Industrial Development Authority, Arizona, Revenue Bonds, Midwestern University, Refunding Series 2007, 5.000%, 5/15/31	5/22 at 100.00	A–	2,297,720
3,775	Glendale Industrial Development Authority, Arizona, Revenue Bonds, Midwestern University, Refunding Series 2010, 5.125%, 5/15/40	5/20 at 100.00	A+	4,258,011
1,875	Northern Arizona University, System Revenue Bonds, Refunding Series 2014, 5.000%, 6/01/40	6/24 at 100.00	A+	2,187,825
910	Northern Arizona University, System Revenue Bonds, Series 2012, 5.000%, 6/01/41	6/21 at 100.00	A+	1,037,737

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70	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Basis Schools, Inc. Projects, Series 2016A, 5.000%, 7/01/46	7/25 at 100.00	BB	73,273
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+	962,649
750	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, fbo Brighter Choice Foundation Charter Middle Schools Project, Albany, New York, Series 2012, 7.500%, 7/01/42	7/22 at 100.00	N/R	307,478
585	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Great Hearts Academies – Veritas Project, Series 2012, 6.300%, 7/01/42	7/21 at 100.00	BB	649,321
500	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Legacy Traditional Schools Project, Series 2014A, 6.750%, 7/01/44	7/24 at 100.00	N/R	598,185
315	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Legacy Traditional Schools Projects, Series 2015: 5.000%, 7/01/35	No Opt. Call	BB	332,460
300	5.000%, 7/01/45	No Opt. Call	BB	312,954
1,045	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Painted Rock Academy Charter School Project, Series 2012A, 7.500%, 7/01/42	7/20 at 100.00	N/R	1,103,405
440	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Villa Montessori, Inc. Projects, Series 2015, 3.250%, 7/01/25	No Opt. Call	N/R	451,246
1,705	Phoenix Industrial Development Authority, Arizona, Lease Revenue Bonds, Eastern Kentucky University Project, Series 2016, 5.000%, 10/01/36	10/26 at 100.00	A2	1,996,078
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	4,125,151
200	Pima County Industrial Development Authority, Arizona, Charter School Revenue Bonds, Desert Heights Charter School, Series 2014, 7.250%, 5/01/44	5/24 at 100.00	N/R	219,468
35	Pima County Industrial Development Authority, Arizona, Education Facility Revenue Bonds, San Tan Montessori School Project, Series 2016, 6.500%, 2/01/48	2/24 at 100.00	N/R	35,157
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	724,326
500	Pima County Industrial Development Authority, Arizona, Education Revenue Bonds, Noah Webster Schools Mesa Project, Series 2015A, 5.000%, 12/15/34	No Opt. Call	BB+	516,885
	Pima County Industrial Development Authority, Arizona, Education Revenue Bonds, Paradise Education Center Project, Series 2010:			

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745	6.000%, 6/01/40	6/19 at 100.00	BB+	778,160
550	6.100%, 6/01/45	6/19 at 100.00	BB+	575,069
655	Pima County Industrial Development Authority, Arizona, Educational Revenue Bonds, Paradise Education Center Charter School, Series 2006, 6.000%, 6/01/36	6/16 at 100.00	BB+	655,793
1,000	Pima County Industrial Development Authority, Arizona, Educational Revenue Bonds, Valley Academy Charter School Project, Series 2008, 6.500%, 7/01/38	7/18 at 100.00	Baa3	1,054,370
780	Student and Academic Services LLC, Arizona, Lease Revenue Bonds, Northern Arizona University Project, Series 2014, 5.000%, 6/01/39 – BAM Insured	6/24 at 100.00	AA	910,744
250	Sun Devil Energy LLC, Arizona, Revenue Refunding Bonds, Arizona State University Project, Series 2008, 5.000%, 7/01/22	No Opt. Call	AA–	296,618
825	Yavapai County Industrial Development Authority, Arizona, Education Revenue Bonds, Arizona Agribusiness and Equine Center, Inc. Project, Series 2011, 7.875%, 3/01/42	3/21 at 100.00	BB+	968,311
37,765	Total Education and Civic Organizations Health Care – 19.8% (13.8% of Total Investments)			43,473,974
7,730	Arizona Health Facilities Authority, Hospital Revenue Bonds, Banner Health Systems, Series 2008D, 5.500%, 1/01/38	1/18 at 100.00	AA–	8,253,472
1,200	Arizona Health Facilities Authority, Hospital Revenue Bonds, Banner Health Systems, Series 2014A, 5.000%, 1/01/44	1/24 at 100.00	AA–	1,383,648
5,100	Arizona Health Facilities Authority, Hospital System Revenue Bonds, Phoenix Children’s Hospital, Refunding Series 2012A, 5.000%, 2/01/42 Arizona Health Facilities Authority, Revenue Bonds, Scottsdale Lincoln Hospitals Project, Series 2014A:	2/22 at 100.00	BBB+	5,623,515
3,000	5.000%, 12/01/39	12/24 at 100.00	A2	3,487,530
2,860	5.000%, 12/01/42	12/24 at 100.00	A2	3,322,462
7,560	Maricopa County Industrial Development Authority, Arizona, Health Facility Revenue Bonds, Catholic Healthcare West, Series 2007A, 5.250%, 7/01/32	7/17 at 100.00	A	7,830,194
1,120	Scottsdale Industrial Development Authority, Arizona, Hospital Revenue Bonds, Scottsdale Healthcare, Series 2006C. Re-offering, 5.000%, 9/01/35 – AGC Insured Yavapai County Industrial Development Authority, Arizona, Hospital Revenue Bonds, Yavapai Regional Medical Center, Series 2013A:	9/20 at 100.00	AA	1,251,846
210	5.000%, 8/01/19	No Opt. Call	Baa1	227,338
1,000	5.250%, 8/01/33	8/23 at 100.00	Baa1	1,141,660

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	Yuma Industrial Development Authority, Arizona, Hospital Revenue Bonds, Yuma Regional Medical Center, Series 2014A:			
1,000	5.000%, 8/01/22	No Opt. Call	A-	1,179,460
1,000	5.250%, 8/01/32	8/24 at 100.00	A-	1,182,110
31,780	Total Health Care Long-Term Care – 0.8% (0.5% of Total Investments)			34,883,235
495	Arizona Health Facilities Authority, Health Care Facilities Revenue Bonds, The Beatitudes Campus Project, Series 2006, 5.100%, 10/01/22	10/16 at 100.00	N/R	496,723
780	Tempe Industrial Development Authority, Arizona, Revenue Bonds, Friendship Village of Tempe Project, Refunding Series 2012A, 6.000%, 12/01/32	12/21 at 100.00	N/R	853,523
1,275	Total Long-Term Care Tax Obligation/General – 14.6% (10.2% of Total Investments)			1,350,246
2,500	Chandler, Arizona, General Obligation Bonds, Refunding Series 2014, 5.000%, 7/01/24	No Opt. Call	AAA	3,171,375
	Dysart Unified School District Number 89, Maricopa County, Arizona, General Obligation Bonds, Refunding Series 2014:			
1,000	5.000%, 7/01/26	7/24 at 100.00	AA-	1,220,810
525	5.000%, 7/01/27	7/24 at 100.00	AA-	637,644
2,140	El Mirage, Arizona, General Obligation Bonds Series 2012, 5.000%, 7/01/42 – AGM Insured	7/22 at 100.00	AA	2,405,424
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	1,170,790
1,020	Maricopa County School District 6, Arizona, General Obligation Bonds, Washington Elementary School, Refunding Series 2002A, 5.375%, 7/01/16 – AGM Insured	No Opt. Call	AA	1,024,049
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	916,228
300	Maricopa County Unified School District 60 Higley, Arizona, General Obligation Bonds, School Improvement Project of 2013, Series 2016C, 4.000%, 7/01/33 (WI/DD, Settling 6/01/16) – AGM Insured	7/26 at 100.00	AA	333,381
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	1,646,096
2,895	Pima County Unified School District 12 Sunnyside, Arizona, General Obligation Bonds, School Improvement Project 2011, Series 2014D, 5.000%, 7/01/34 – AGM Insured	7/24 at 100.00	AA	3,424,003
1,750			A+	2,016,700

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	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		
1,000	Pima County Unified School District 8 Flowing Wells, Arizona, General Obligation Bonds, School Improvement Project 2008 Series 2011B, 5.375%, 7/01/29 Scottsdale, Arizona, General Obligation Bonds, Preserve Acquisition Series 1999:	7/21 at 100.00	A+	1,146,500
1,310	5.000%, 7/01/32	7/21 at 100.00	AAA	1,522,443
1,360	5.000%, 7/01/33	7/21 at 100.00	AAA	1,576,947
1,705	5.000%, 7/01/34	7/21 at 100.00	AAA	1,972,480
	Western Maricopa Education Center District 402, Maricopa County, Arizona, General Obligation Bonds, School Improvement Project 2012, Series2014B:			
715	4.500%, 7/01/33	7/24 at 100.00	AA-	826,418
665	4.500%, 7/01/34	7/24 at 100.00	AA-	765,987
22,030	Total Tax Obligation/General Tax Obligation/Limited – 34.5% (23.9% of Total Investments)			25,777,275
2,310	Arizona Sports and Tourism Authority, Tax Revenue Bonds, Multipurpose Stadium Facility Project, Refunding Senior Series 2012A, 5.000%, 7/01/36	7/22 at 100.00	A1	2,578,699
1,025	Arizona State Transportation Board, Highway Revenue Bonds, Refunding Subordinate Series 2011A, 5.000%, 7/01/36	7/21 at 100.00	AA+	1,185,802
1,000	Buckeye, Arizona, Excise Tax Revenue Obligations, Series 2015, 5.000%, 7/01/37	7/25 at 100.00	AA-	1,176,220
275	Buckeye, Arizona, Excise Tax Revenue Obligations, Series 2016, 4.000%, 7/01/36	7/26 at 100.00	AA-	300,020
	Buckeye, Arizona, Festival Ranch Community Facilities District General Obligation Bonds, Series 2012:			
345	5.000%, 7/15/27 – BAM Insured	7/22 at 100.00	AA	383,792
1,085	5.000%, 7/15/31 – BAM Insured	7/22 at 100.00	AA	1,190,234
586	Centerra Community Facilities District, Goodyear, Arizona, General Obligation Bonds, Series 2005, 5.500%, 7/15/29	8/16 at 100.00	N/R	586,545
1,210	Eastmark Community Facilities District 1, Mesa, Arizona, General Obligation Bonds, Series 2015, 5.000%, 7/15/39	7/25 at 100.00	N/R	1,251,370
494	Eastmark Community Facilities District 1, Mesa, Arizona, Special Assessment Revenue Bonds, Assessment District 1, Series 2013, 5.250%, 7/01/38 Estrella Mountain Ranch Community Facilities District, Arizona, Special Assessment Bonds,	7/23 at 100.00	N/R	527,819

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Montecito Assessment District, Series 2007:

423	5.700%, 7/01/27	1/17 at 100.00	N/R	430,512
454	5.800%, 7/01/32	1/17 at 100.00	N/R	460,924
580	Estrella Mountain Ranch Community Facilities District, Goodyear, Arizona, Special Assessment Lien Bonds, Series 2001A, 7.875%, 7/01/25	8/16 at 100.00	N/R	582,076
1,500	Goodyear Community Facilities General District 1, Arizona, General Obligation Refunding Bonds, Series 2013, 5.000%, 7/15/23	No Opt. Call	A-	1,744,410
600	Goodyear Community Facilities Utilities District 1, Arizona, General Obligation Bonds, Refunding Series 2016, 4.000%, 7/15/32	7/26 at 100.00	A1	661,398
510	Government of Guam, Business Privilege Tax Bonds, Series 2011A: 5.000%, 1/01/31	1/22 at 100.00	A	574,066
200	5.125%, 1/01/42	1/22 at 100.00	A	223,164
1,500	Government of Guam, Business Privilege Tax Bonds, Series 2012B-1, 5.000%, 1/01/37	1/22 at 100.00	A	1,668,615
1,550	Greater Arizona Development Authority, Infrastructure Revenue Bonds, Series 2006A, 5.000%, 8/01/23 – NPFG Insured	8/16 at 100.00	AA-	1,561,873
250	La Paz County, Arizona, Excise Tax Revenue Bonds, Judgement Series 2011A, 4.750%, 7/01/36	7/17 at 100.00	AA	259,798
1,425	Marana, Arizona, Pledged Excise Tax Revenue Bonds, Refunding Series 2013, 5.000%, 7/01/33	7/23 at 100.00	AA	1,660,952
2,637	Marana, Arizona, Tangerine Farms Road Improvement District Revenue Bonds, Series 2006, 4.600%, 1/01/26	7/16 at 100.00	A2	2,645,465
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	692,920
1,125	Merrill Ranch Community Facilities District 1, Florence, Arizona, General Obligation Bonds, Series 2008A, 7.400%, 7/15/33	7/18 at 100.00	BBB-	1,205,460
300	Page, Arizona, Pledged Revenue Bonds, Refunding Series 2011, 5.000%, 7/01/26	7/21 at 100.00	AA-	345,882
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	1,502,055
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	1,015,750
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	396,616
1,010		No Opt. Call	AA	1,165,106



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	Phoenix Civic Improvement Corporation, Arizona, Transit Excise Tax Revenue Refunding Bonds, Light Rail Project, Series 2013, 5.000%, 7/01/20			
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	2,790,150
580	Phoenix Mesa Gateway Airport Authority, Arizona, Special Facility Revenue Bonds, Mesa Project, Series 2012, 5.000%, 7/01/38 (Alternative Minimum Tax)	7/22 at 100.00	AA+	644,392
1,610	Pinal County Industrial Development Authority, Arizona, Correctional Facilities Contract Revenue Bonds, Florence West Prison LLC, Series 2002A, 5.000%, 10/01/18 – ACA Insured	8/16 at 100.00	BBB–	1,612,657
1,000	Pinal County, Arizona, Pledged Revenue Obligations, Series 2014, 5.000%, 8/01/33	8/24 at 100.00	AA–	1,189,300
1,000	Regional Public Transportation Authority, Arizona, Transportation Excise Tax Revenue Bonds, Maricopa County Public Transportation Fund Series 2014, 5.250%, 7/01/22	No Opt. Call	AA+	1,226,390
	San Luis, Arizona, Pledged Excise Tax Revenue Bonds, Refunding Series 2014A:			
1,400	5.000%, 7/01/34 – BAM Insured	7/24 at 100.00	AA	1,655,822
2,100	5.000%, 7/01/38 – BAM Insured	7/24 at 100.00	AA	2,458,575
3,000	Scottsdale Municipal Property Corporation, Arizona, Excise Tax Revenue Bonds, Refunding Series 2006, 5.000%, 7/01/24	No Opt. Call	AAA	3,782,190
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	5,688,500
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	1,596,627
	Tempe, Arizona, Excise Tax Revenue Bonds, Refunding Series 2016:			
310	5.000%, 7/01/28 (WI/DD, Settling 6/22/16)	7/26 at 100.00	AAA	391,849
600	5.000%, 7/01/31 (WI/DD, Settling 6/22/16)	7/26 at 100.00	Aa2	750,396
4,000	Tempe, Arizona, Transit Excise Tax Revenue Obligation Bonds, Refunding Series 2012, 5.000%, 7/01/37	7/22 at 100.00	AAA	4,704,120
1,750	Virgin Islands Public Finance Authority, Gross Receipts Taxes Loan Note, Refunding Series 2012A, 4.000%, 10/01/22 – AGM Insured	No Opt. Call	AA	1,866,848
1,442	Watson Road Community Facilities District, Arizona, Special Assessment Revenue Bonds, Series 2005, 6.000%, 7/01/30	7/16 at 100.00	N/R	1,443,889
1,000	Westpark Community Facilities District, Buckeye, Arizona, General Obligation Tax Increment	7/16 at 100.00	N/R	1,001,430

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54,836	Bonds Series 2006, 5.250%, 7/15/31 Total Tax Obligation/Limited Transportation – 5.1% (3.5% of Total Investments)			60,780,678
180	Phoenix Civic Improvement Corporation, Arizona, Airport Revenue Bonds, Junior Lien Series 2010A, 5.000%, 7/01/40	7/20 at 100.00	A+	202,729
910	Phoenix Civic Improvement Corporation, Arizona, Airport Revenue Bonds, Junior Lien Series 2015A: 5.000%, 7/01/40	7/25 at 100.00	A+	1,070,360
2,185	5.000%, 7/01/45	7/25 at 100.00	A+	2,554,768
1,785	Phoenix Civic Improvement Corporation, Arizona, Airport Revenue Bonds, Refunding Senior Lien Series 2013: 5.000%, 7/01/30 (Alternative Minimum Tax)	7/23 at 100.00	AA–	2,088,789
2,215	5.000%, 7/01/32 (Alternative Minimum Tax)	7/23 at 100.00	AA–	2,573,941
395	Virgin Islands Port Authority, Marine Revenue Bonds, Refunding Series 2014B, 5.000%, 9/01/44	9/24 at 100.00	BBB+	442,831
7,670	Total Transportation U.S. Guaranteed – 13.1% (9.1% of Total Investments) (5)			8,933,418
3,500	Arizona Health Facilities Authority, Hospital Revenue Bonds, Banner Health Systems, Series 2007A, 5.000%, 1/01/25 (Pre-refunded 1/01/17)	1/17 at 100.00	AA– (5)	3,590,265
1,265	Gila County Unified School District 10 Payson, Arizona, School Improvement Bonds, Project 2006, Series 2008B, 5.750%, 7/01/28 (Pre-refunded 7/01/18)	7/18 at 100.00	Aa3 (5)	1,393,688
2,965	Glendale Industrial Development Authority, Arizona, Revenue Bonds, John C. Lincoln Health Network, Series 2007, 5.000%, 12/01/42 (Pre-refunded 12/01/17)	12/17 at 100.00	N/R (5)	3,151,617
2,280	Greater Arizona Development Authority, Infrastructure Revenue Bonds, Series 2006-1, 5.000%, 8/01/22 (Pre-refunded 8/01/16) – NPPFG Insured	8/16 at 100.00	AA– (5)	2,296,804
175	Maricopa County Industrial Development Authority, Arizona, Hospital Revenue Refunding Bonds, Samaritan Health Services, Series 1990A, 7.000%, 12/01/16 – NPPFG Insured (ETM)	No Opt. Call	N/R (5)	180,570
1,200	Maricopa County Unified School District 95 Queen Creek, Arizona, General Obligation Bonds, Series 2008, 5.000%, 7/01/27 (Pre-refunded 7/01/18) – AGM Insured	7/18 at 100.00	Aa3 (5)	1,303,524
630	Mesa, Arizona, Utility System Revenue Refunding Bonds, Series 2002, 5.250%, 7/01/17 – FGIC Insured (ETM)	No Opt. Call	Aa2 (5)	661,198
4,530	Pinal County Unified School District 1, Florence, Arizona, General Obligation Bonds, Series 2008C, 5.250%, 7/01/28 (Pre-refunded 7/01/18)	7/18 at 100.00	A (5)	4,944,133

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2,585	University Medical Center Corporation, Tucson, Arizona, Hospital Revenue Bonds, Series 2011, 6.000%, 7/01/39 (Pre-refunded 7/01/21)	7/21 at 100.00	N/R (5)	3,185,754
200	University Medical Center Corporation, Tucson, Arizona, Hospital Revenue Bonds, Series 2013: 5.000%, 7/01/19 (ETM)	No Opt. Call	N/R (5)	224,456
800	5.000%, 7/01/20 (ETM)	No Opt. Call	N/R (5)	924,064
1,340	Yuma & La Paz Counties Community College District, Arizona, General Obligation Bonds, Series 2006, 5.000%, 7/01/21 (Pre-refunded 7/01/16) – NPMFG Insured	7/16 at 100.00	AA– (5)	1,345,012
21,470	Total U.S. Guaranteed Utilities – 18.0% (12.5% of Total Investments)			23,201,085
1,495	Apache County Industrial Development Authority, Arizona, Pollution Control Revenue Bonds, Tucson Electric Power Company, Series 20102A, 4.500%, 3/01/30	3/22 at 100.00	A3	1,664,757
1,500	Arizona Power Authority, Special Obligation Power Resource Revenue Refunding Crossover Bonds, Hoover Project, Series 2001, 5.250%, 10/01/17	No Opt. Call	AA	1,589,880
1,000	Guam Power Authority, Revenue Bonds, Series 2014A, 5.000%, 10/01/39	10/24 at 100.00	AA	1,175,470
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	Aa3	4,863,404
370	Mesa, Arizona, Utility System Revenue Refunding Bonds, Series 2002, 5.250%, 7/01/17 – FGIC Insured	No Opt. Call	Aa2	388,382
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	2,086,128
1,500	Salt River Project Agricultural Improvement and Power District, Arizona, Electric System Revenue Bonds, Refunding Series 2015A, 5.000%, 12/01/36	6/25 at 100.00	Aa1	1,827,555
2,500	Salt River Project Agricultural Improvement and Power District, Arizona, Electric System Revenue Bonds, Tender Option Bond Trust 09-9W, 16.500%, 1/01/38 (IF) (4)	1/18 at 100.00	Aa1	3,120,200
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	BBB+	5,678,325
5,665	5.000%, 12/01/37	No Opt. Call	BBB+	7,089,294
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	2,309,210
27,010	Total Utilities Water and Sewer – 13.5% (9.4% of Total Investments) Central Arizona Water Conservation District, Arizona, Water Delivery O&M Revenue Bonds,			31,792,605

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Series 2016:				
1,285	5.000%, 1/01/35	1/26 at 100.00	AA+	1,578,134
345	5.000%, 1/01/36	1/26 at 100.00	AA+	422,042
500	Glendale, Arizona, Water and Sewer Revenue Bonds, Refunding Series 2012, 5.000%, 7/01/28	7/22 at 100.00	AA	601,375
450	Goodyear, Arizona, Water and Sewer Revenue Obligations, Refunding Subordinate Lien Series 2016, 5.000%, 7/01/45 (WI/DD, Settling 6/07/16) – AGM Insured	7/26 at 100.00	AA	535,878
2,855	Goodyear, Arizona, Water and Sewer Revenue Obligations, Series 2010, 5.625%, 7/01/39	7/20 at 100.00	A+	3,338,294
500	Goodyear, Arizona, Water and Sewer Revenue Obligations, Subordinate Lien Series 2011, 5.500%, 7/01/41	7/21 at 100.00	AA	587,090
500	Guam Government Waterworks Authority, Water and Wastewater System Revenue Bonds, Series 2013, 5.250%, 7/01/33	7/23 at 100.00	A-	583,090
1,460	Guam Government Waterworks Authority, Water and Wastewater System Revenue Bonds, Series 2016, 5.000%, 1/01/46	7/26 at 100.00	A-	1,691,746
1,125	Lake Havasu City, Arizona, Wastewater System Revenue Bonds, Refunding Senior Lien Series 2015A, 5.000%, 7/01/36 – AGM Insured	7/25 at 100.00	AA	1,341,169
1,135	Phoenix Civic Improvement Corporation, Arizona, Wastewater System Revenue Bonds, Refunding Junior Lien Series 2014, 5.000%, 7/01/29	7/24 at 100.00	AA+	1,386,073
2,000	Phoenix Civic Improvement Corporation, Arizona, Water System Revenue Bonds, Junior Lien Series 2014A, 5.000%, 7/01/39	7/24 at 100.00	AAA	2,384,840
	Phoenix Civic Improvement Corporation, Arizona, Water System Revenue Bonds, Refunding Junior Lien Series 2001:			
1,250	5.500%, 7/01/21 – FGIC Insured	No Opt. Call	AAA	1,514,275
1,040	5.500%, 7/01/22 – FGIC Insured	No Opt. Call	AAA	1,292,626
1,500	Pima County, Arizona, Sewer System Revenue Obligations, Series 2012A, 5.000%, 7/01/26	No Opt. Call	AA	1,803,660
1,000	Pima County, Arizona, Sewer System Revenue Obligations, Series 2014, 5.000%, 7/01/22	No Opt. Call	AA	1,202,770
	Surprise Municipal Property Corporation, Arizona, Wastewater System Revenue Bonds, Series 2007:			
870	4.700%, 4/01/22	10/16 at 100.00	A	881,997
1,970	4.900%, 4/01/32	4/17 at 100.00	A	2,000,831
500	Tucson, Arizona, Water System Revenue Bonds, Refunding Series 2013A, 5.000%, 7/01/23	No Opt. Call	AA	616,055
20,285	Total Water and Sewer			23,761,945
\$ 224,121	Total Long-Term Investments (cost \$230,202,983)			253,954,461
	Floating Rate Obligations – (1.6)%			(2,755,000)
				(79,000,000)

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Variable Rate MuniFund Term Preferred Shares, at Liquidation	
Preference – (44.8)% (6)	
Other Assets Less Liabilities – 2.3%	4,034,754
Net Assets Applicable to Common Shares – 100%	\$
	176,234,215

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### Fair Value Measurements

Fair value is defined as the price that would be received upon selling an investment or transferring a liability in an orderly transaction to an independent buyer in the principal or most advantageous market for the investment. A three-tier hierarchy is used to maximize the use of observable market data and minimize the use of unobservable inputs and to establish classification of fair value measurements for disclosure purposes. Observable inputs reflect the assumptions the 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	\$ —	\$253,954,461	\$ —	\$253,954,461

### 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 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, 2016, the cost of investments was \$228,953,123.

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

Gross unrealized:	
Appreciation	\$24,824,290
Depreciation	(2,577,956)
Net unrealized appreciation (depreciation) of investments	\$22,246,334

- (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.

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- (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 regarded 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 31.1%.
  - (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.

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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 29, 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/ Gifford R. Zimmerman  
Gifford R. Zimmerman  
Chief Administrative Officer (principal executive officer)

Date: July 29, 2016

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

Date: July 29, 2016