

NUVEEN SELECT MATURITIES MUNICIPAL FUND
Form N-Q
August 29, 2011

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 811-7056

Nuveen Select Maturities 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: 3/31

Date of reporting period: 6/30/11

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.

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Item 1. Schedule of Investments

Portfolio of Investments (Unaudited)
 Nuveen Select Maturities Municipal Fund (NIM)
 June 30, 2011

Principal Amount	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Alabama – 2.7%			
	Alabama 21st Century Authority, Tobacco Settlement Revenue Bonds, Series 2001:			
\$		12/11 at		\$
2,000	5.750%, 12/01/17	101.00	A–	2,038,000
		12/11 at		
200	5.500%, 12/01/21	101.00	A–	201,022
	Birmingham Special Care Facilities Financing Authority, Alabama,	11/15 at		
180	Revenue Bonds, Baptist Health System Inc., Series 2005A, 5.000%, 11/15/30	100.00	Baa2	154,913
	Jefferson County, Alabama, Sewer Revenue Refunding Warrants,	8/11 at		
500	Series 2003B, 5.250%, 2/01/12 – AGM Insured	100.00	AA+	493,905
	Marshall County Healthcare Authority, Alabama, Revenue Bonds,	1/12 at		
500	Series 2002A, 6.250%, 1/01/22	101.00	A–	509,640
3,380	Total Alabama			3,397,480
	Alaska – 0.3%			
	Valdez, Alaska, Marine Terminal Revenue Refunding Bonds, BP	No Opt.		
305	Pipelines Inc. Project, Refunding Series 2003B, 5.000%, 1/01/21	Call	A	334,731
	Arizona – 1.0%			
	Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Citigroup Energy Inc			
	Prepay Contract Obligations, Series 2007:			
		No Opt.		
100	5.000%, 12/01/17	Call	A	102,449
		No Opt.		
85	5.250%, 12/01/19	Call	A	86,981
		No Opt.		
35	5.000%, 12/01/32	Call	A	31,510
		No Opt.		
380	5.000%, 12/01/37	Call	A	336,802
	Surprise Municipal Property Corporation, Arizona, Wastewater	10/11 at		
750	System Revenue Bonds, Series 2007, 4.500%, 4/01/17	100.00	A–	751,958
1,350	Total Arizona			1,309,700
	Arkansas – 3.0%			
	Jefferson County, Arkansas, Pollution Control Revenue Bonds,	12/11 at		
1,500	Entergy Arkansas Inc. Project,	100.00	A–	1,502,100

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	Series 2006, 4.600%, 10/01/17			
	Jonesboro, Arkansas, Industrial Development Revenue Bonds,	No Opt.		
1,000	Anheuser Busch Inc. Project, Series	Call	A-	1,050,910
	2002, 4.600%, 11/15/12			
	North Little Rock, Arkansas, Electric Revenue Refunding Bonds,	No Opt.		
1,140	Series 1992A, 6.500%, 7/01/15 –	Call	Baa1	1,236,467
	NPFG Insured			
3,640	Total Arkansas			3,789,477
	California – 2.6%			
	California Health Facilities Financing Authority, Revenue Bonds,	7/15 at		
355	Catholic Healthcare West,	100.00	A	367,208
	Series 2008H, 5.125%, 7/01/22			
	California State, General Obligation Bonds, Various Purpose Series	3/20 at		
500	2010, 5.500%, 3/01/40	100.00	A1	514,010
	Ceres Unified School District, Stanislaus County, California, General	8/12 at		
1,000	Obligation Bonds, Series	32.87	A+	237,350
	2002B, 0.000%, 8/01/31 – FGIC Insured			
	Golden State Tobacco Securitization Corporation, California,	6/17 at		
260	Tobacco Settlement Asset-Backed	100.00	BBB-	216,593
	Bonds, Series 2007A-1, 4.500%, 6/01/27			
	Moulton Niguel Water District, California, Certificates of			
	Participation, Refunding Series 2003:			
		No Opt.		
250	5.000%, 9/01/21 – AMBAC Insured	Call	AA+	266,873
		No Opt.		
250	5.000%, 9/01/22 – AMBAC Insured	Call	AA+	263,850
		No Opt.		
500	5.000%, 9/01/23 – AMBAC Insured	Call	AA+	524,350
	Palomar Pomerado Health, California, General Obligation Bonds,	No Opt.		
2,000	Series 2009A, 0.000%, 8/01/25 –	Call	AA+	869,480
	AGC Insured			
5,115	Total California			3,259,714
	Colorado – 10.0%			
	Centennial Downs Metropolitan District, Colorado, General	12/14 at		
2,895	Obligation Bonds, Series 1999,	100.00	N/R	2,940,857
	5.000%, 12/01/20 – AMBAC Insured			
	Colorado Educational and Cultural Facilities Authority, Charter	7/12 at		
1,070	School Revenue Bonds, Douglas	100.00	BBB	1,063,152
	County School District RE-1 – DCS Montessori School, Series 2002A,			
	6.000%, 7/15/22			
	Colorado Educational and Cultural Facilities Authority, Revenue	12/13 at		
1,175	Bonds, Classical Academy	100.00	A	1,195,692
	Charter School, Series 2003, 4.500%, 12/01/18 – SYNCORA GTY			
	Insured			
	Colorado Housing Finance Authority, Single Family Program Senior	10/11 at		
160	Bonds, Series 2000D-2,	105.00	AA	170,402
	6.900%, 4/01/29 (Alternative Minimum Tax)			
	Denver Health and Hospitals Authority, Colorado, Healthcare	12/11 at		
1,025	Revenue Bonds, Series 2001A,	100.00	N/R (4)	1,049,446
	6.000%, 12/01/23 (Pre-refunded 12/01/11)			
1,465			N/R	1,444,065

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	Denver West Metropolitan District, Colorado, General Obligation Refunding and Improvement Bonds, Series 2003, 4.500%, 12/01/18 – RAAI Insured	12/13 at 100.00		
1,500	E-470 Public Highway Authority, Colorado, Senior Revenue Bonds, Series 2007C-2, 5.000%, 9/01/39 (Mandatory put 9/01/13) – NPMFG Insured	No Opt. Call	Baa1	1,587,585
1,000	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004B, 0.000%, 3/01/36 – NPMFG Insured	No Opt. Call	Baa1	152,980
200	Regional Transportation District, Colorado, Denver Transit Partners Eagle P3 Project Private Activity Bonds, Series 2010, 6.000%, 1/15/41	7/20 at 100.00	Baa3	201,102
2,845	University of Colorado Hospital Authority, Revenue Bonds, Series 2001A, 5.600%, 11/15/21 (Pre-refunded 11/15/11)	11/11 at 100.00	A3 (4)	2,902,327
13,335	Total Colorado			12,707,608
	Connecticut – 1.5%			
	Eastern Connecticut Resource Recovery Authority, Solid Waste Revenue Bonds, Wheelabrator Lisbon Project, Series 1993A:			
265	5.500%, 1/01/14 (Alternative Minimum Tax)	1/12 at 100.00	BBB	265,734
1,570	5.500%, 1/01/15 (Alternative Minimum Tax)	7/11 at 100.00	BBB	1,572,371
1,835	Total Connecticut			1,838,105
	Florida – 6.5%			
160	Citizens Property Insurance Corporation, Florida, High-Risk Account Revenue Bonds, Coastal Account Senior Secured Series 2011A-1, 5.000%, 6/01/18 (WI/DD, Settling 7/14/11)	No Opt. Call	A+	167,568
2,400	Deltona, Florida, Utility Systems Water and Sewer Revenue Bonds, Series 2003, 5.250%, 10/01/17 – NPMFG Insured	10/13 at 100.00	A1	2,507,064
	Florida Citizens Property Insurance Corporation, High Risk Account Revenue Bonds, Series 2007A:			
1,000	5.000%, 3/01/15 – NPMFG Insured	No Opt. Call	A+	1,069,650
125	5.000%, 3/01/16 – NPMFG Insured	No Opt. Call	A+	134,133
600	Florida Department of Environmental Protection, Florida Forever Revenue Bonds, Series 2007B, 5.000%, 7/01/19 – NPMFG Insured	7/17 at 101.00	AA–	659,034
15	JEA, Florida, Electric Revenue Certificates, Series 1973-2, 6.800%, 7/01/12 (ETM)	No Opt. Call	AAA	15,451
	Miami-Dade County, Florida, Public Facilities Revenue Bonds, Jackson Health System, Series 2009:			
10	5.500%, 6/01/29 – AGM Insured	6/19 at 100.00	AA+	10,228
10	5.625%, 6/01/34 – AGC Insured	6/19 at 100.00	AA+	10,114
750			BBB	766,673

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	North Sumter County Utility Dependent District, Florida, Utility Revenue Bonds, Series 2010, 5.000%, 10/01/20	No Opt. Call		
2,000	Orange County, Florida, Tourist Development Tax Revenue Bonds, Series 2005, 5.000%, 10/01/22 – AMBAC Insured	10/15 at 100.00	A+	2,055,720
235	Port Everglades Authority, Florida, Port Facilities Revenue Bonds, Series 1986, 7.125%, 11/01/16 (ETM)	No Opt. Call	AAA	271,984
500	South Miami Health Facilities Authority, Florida, Hospital Revenue, Baptist Health System Obligation Group, Series 2007, 5.000%, 8/15/27	8/17 at 100.00	AA	509,740
7,805	Total Florida Georgia – 0.3%			8,177,359
380	Cherokee County Water and Sewerage Authority, Georgia, Revenue Bonds, Series 1995, 5.200%, 8/01/25 (Pre-refunded 8/01/22) – NPMFG Insured Idaho – 0.1%	8/22 at 100.00	AAA	435,199
100	Madison County, Idaho, Hospital Revenue Certificates of Participation, Madison Memorial Hospital, Series 2006, 5.250%, 9/01/37 Illinois – 14.8%	9/16 at 100.00	BB+	77,498
440	Chicago, Illinois, Tax Increment Allocation Bonds, Irving/Cicero Redevelopment Project, Series 1998, 7.000%, 1/01/14	1/12 at 100.00	N/R	440,660
1,500	Cook County Township High School District 208, Illinois, General Obligation Bonds, Series 2006, 5.000%, 12/01/21 – NPMFG Insured	12/15 at 100.00	Aa3	1,579,035
2,000	Huntley, Illinois, Special Service Area 9, Special Tax Bonds, Series 2007, 5.100%, 3/01/28 – AGC Insured	3/17 at 100.00	AA+	2,054,800
4,740	Illinois Development Finance Authority, GNMA Collateralized Mortgage Revenue Bonds, Greek American Nursing Home Committee, Series 2000A, 7.600%, 4/20/40	10/11 at 105.00	Aaa	5,056,201
2,000	Illinois Educational Facilities Authority, Revenue Bonds, Art Institute of Chicago, Series 2000, 4.450%, 3/01/34 (Mandatory put 3/01/15)	3/14 at 102.00	A+	2,134,780
1,000	Illinois Educational Facilities Authority, Student Housing Revenue Bonds, Educational Advancement Foundation Fund, University Center Project, Series 2002, 6.625%, 5/01/17 (Pre-refunded 5/01/12)	5/12 at 101.00	Aaa	1,063,090
80	Illinois Finance Authority, Revenue Bonds, OSF Healthcare System, Series 2007A, 5.750%, 11/15/37	11/17 at 100.00	A	78,609
250	Illinois Finance Authority, Revenue Bonds, Roosevelt University, Series 2007, 5.250%, 4/01/22	4/17 at 100.00	Baa2	243,373
20	Illinois Health Facilities Authority, Revenue Bonds, Condell Medical Center, Series 2002, 5.250%, 5/15/12 (ETM)	No Opt. Call	Aaa	20,852
25	Illinois Health Facilities Authority, Revenue Bonds, Lutheran General Health System, Series	No Opt. Call	AA+ (4)	25,899

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1993A, 6.125%, 4/01/12 – AGM Insured (ETM)
 Illinois Health Facilities Authority, Revenue Bonds, Sherman Health
 Systems, Series 1997:

		2/12 at		
135	5.250%, 8/01/17 – AMBAC Insured	100.00	BBB	135,096
		8/11 at		
85	5.250%, 8/01/22 – AMBAC Insured	100.00	BBB	84,890
	Illinois Health Facilities Authority, Revenue Bonds, Silver Cross	8/11 at		
700	Hospital and Medical	100.00	BBB	700,714
	Centers, Series 1999, 5.500%, 8/15/19			
	Illinois State, General Obligation Bonds, Refunding Series 2006,	No Opt.		
75	5.000%, 1/01/15	Call	A+	81,751
	Illinois State, General Obligation Bonds, Refunding Series 2007B,	No Opt.		
235	5.000%, 1/01/16	Call	A+	256,209
	Illinois State, General Obligation Bonds, Refunding Series 2008,	No Opt.		
315	4.250%, 4/01/16	Call	A+	334,001
	Illinois State, General Obligation Bonds, Refunding Series 2010,	No Opt.		
1,165	5.000%, 1/01/19	Call	A+	1,242,205
	Illinois State, General Obligation Bonds, Series 2006, 5.000%,	1/16 at		
230	1/01/17	100.00	A+	247,232
	Illinois State, General Obligation Bonds, Series 2007A, 5.500%,	No Opt.		
25	6/01/15	Call	A+	27,868
	Illinois, General Obligation Bonds, Illinois FIRST Program, Series	12/12 at		
275	2002, 5.250%, 12/01/19 –	100.00	AA+	285,269
	AGM Insured			
	Kane & DeKalb Counties, Illinois, Community United School	No Opt.		
1,355	District 301, General Obligation	Call	A1	987,212
	Bonds, Series 2006, 0.000%, 12/01/18 – NPMFG Insured			
	Metropolitan Pier and Exposition Authority, Illinois, Dedicated State	6/13 at		
55	Tax Revenue Bonds,	100.00	AAA	58,298
	Series 2002, 5.375%, 6/01/15 – FGIC Insured			
	Regional Transportation Authority, Cook, DuPage, Kane, Lake,	No Opt.		
700	McHenry and Will Counties,	Call	AA	865,543
	Illinois, General Obligation Bonds, Series 1994D, 7.750%, 6/01/19 –			
	FGIC Insured			
	Williamson & Johnson Counties Community Unit School District 2,	10/19 at		
750	Marion, Illinois, Limited Tax	103.00	BBB+	765,315
	General Obligation Lease Certificates, Series 2011, 7.000%, 10/15/22			
18,155	Total Illinois			18,768,902
	Indiana – 0.4%			
	Indiana Finance Authority, Educational Facilities Revenue Bonds,	10/19 at		
250	Drexel Foundation For	100.00	BBB–	247,713
	Educational Excellence, Inc., Series 2009A, 6.000%, 10/01/21			
	Jasper County, Indiana, Pollution Control Revenue Refunding Bonds,	No Opt.		
250	Northern Indiana Public	Call	Baa1	279,385
	Service Company Project, Series 1994A Remarketed, 5.850%,			
	4/01/19 – NPMFG Insured			
500	Total Indiana			527,098
	Kansas – 3.1%			
	Wichita, Kansas, Hospital Facilities Revenue Refunding and	11/11 at		
3,500	Improvement Bonds, Via Christi	101.00	A+	3,556,173

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	Health System Inc., Series 2001-III, 5.500%, 11/15/21			
	Wyandotte County-Kansas City Unified Government, Kansas, Sales	12/15 at		
205	Tax Special Obligation Bonds,	100.00	N/R	210,133
	Redevelopment Project Area B, Series 2005, 5.000%, 12/01/20			
	Wyandotte County-Kansas City Unified Government, Kansas, Sales	No Opt.		
370	Tax Special Obligation Capital	Call	BBB	208,010
	Appreciation Revenue Bonds Redevelopment Project Area B – Major			
	Multi-Sport Athletic Complex			
	Project, Subordinate Lien Series 2010B, 0.000%, 6/01/21			
4,075	Total Kansas			3,974,316
	Kentucky – 0.8%			
	Kentucky Economic Development Finance Authority, Louisville	6/18 at		
325	Arena Project Revenue Bonds,	100.00	AA+	340,740
	Louisville Arena Authority, Inc., Series 2008-A1, 5.750%, 12/01/28 –			
	AGC Insured			
	Kentucky Housing Corporation, Housing Revenue Bonds, Series	1/15 at		
670	2005G, 5.000%, 7/01/30	100.60	AAA	676,774
	(Alternative Minimum Tax)			
995	Total Kentucky			1,017,514
	Louisiana – 1.3%			
	Louisiana Public Facilities Authority, Revenue Bonds, Baton Rouge	7/14 at		
1,010	General Hospital, Series	100.00	Baa1	1,045,239
	2004, 5.250%, 7/01/24 – NPFQ Insured			
	Tobacco Settlement Financing Corporation, Louisiana, Tobacco			
	Settlement Asset-Backed Bonds,			
	Series 2001B:			
		11/11 at		
420	5.500%, 5/15/30	101.00	A	421,130
		11/11 at		
245	5.875%, 5/15/39	101.00	A–	237,317
1,675	Total Louisiana			1,703,686
	Maryland – 0.9%			
	Maryland Energy Financing Administration, Revenue Bonds, AES	9/11 at		
1,100	Warrior Run Project, Series 1995,	100.00	N/R	1,100,055
	7.400%, 9/01/19 (Alternative Minimum Tax)			
	Massachusetts – 0.7%			
	Massachusetts Development Finance Agency, Revenue Bonds,	10/17 at		
500	Orchard Cove, Series 2007,	100.00	N/R	443,815
	5.000%, 10/01/19			
	Massachusetts Port Authority, Special Facilities Revenue Bonds,			
	Delta Air Lines Inc., Series 2001A:			
		1/12 at		
100	5.200%, 1/01/20 – AMBAC Insured (Alternative Minimum Tax)	100.00	N/R	88,570
		1/12 at		
470	5.000%, 1/01/27 – AMBAC Insured (Alternative Minimum Tax)	100.00	N/R	344,515
1,070	Total Massachusetts			876,900
	Michigan – 1.3%			
	Cornell Township Economic Development Corporation, Michigan,	5/12 at		
1,000	Environmental Improvement Revenue	100.00	AAA	1,046,850
	Refunding Bonds, MeadWestvaco Corporation-Escanaba Project,			
	Series 2002, 5.875%, 5/01/18			

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(Pre-refunded 5/01/12)				
500	Wayne County Airport Authority, Michigan, Revenue Bonds, Detroit Metropolitan Airport, Refunding Series 2010C, 5.000%, 12/01/16	No Opt. Call	A	544,625
1,500	Total Michigan			1,591,475
Minnesota – 1.4%				
1,100	Becker, Minnesota, Pollution Control Revenue Bonds, Northern States Power Company, Series 1993A, 8.500%, 9/01/19	8/12 at 101.00	A1	1,199,110
250	Northern Municipal Power Agency, Minnesota, Electric System Revenue Bonds, Refunding Series 2009A, 5.000%, 1/01/15 – AGC Insured	No Opt. Call	AA+	279,523
230	White Earth Band of Chippewa Indians, Minnesota, Revenue Bonds, Series 2000A, 7.000%, 12/01/11 – ACA Insured	No Opt. Call	N/R	232,852
1,580	Total Minnesota			1,711,485
Mississippi – 0.6%				
Mississippi Hospital Equipment and Facilities Authority, Revenue Bonds, Baptist Memorial Healthcare, Series 2004B-1:				
200	5.000%, 9/01/16	No Opt. Call	AA	217,496
300	5.000%, 9/01/24	9/14 at 100.00	AA	307,752
250	Warren County, Mississippi, Gulf Opportunity Zone Revenue Bonds, International Paper Company, Series 2006A, 4.800%, 8/01/30	8/11 at 100.00	BBB	232,398
750	Total Mississippi			757,646
Missouri – 0.3%				
320	St. Louis County, Missouri, GNMA Collateralized Mortgage Revenue Bonds, Series 1989A, 8.125%, 8/01/20 (Pre-refunded 7/01/20) (Alternative Minimum Tax)	7/20 at 100.00	AAA	392,278
Montana – 0.1%				
90	University of Montana, Revenue Bonds, Series 1996D, 5.375%, 5/15/19 – NPMF Insured (ETM)	11/11 at 100.00	BBB (4)	105,503
Nebraska – 0.9%				
1,000	Dodge County School District 1, Nebraska, Fremont Public Schools, General Obligation Bonds, Series 2004, 5.000%, 12/15/19 – AGM Insured	12/14 at 100.00	Aa3	1,107,850
Nevada – 1.2%				
1,000	Clark County, Nevada, Airport Revenue Bonds, Subordinte Lien Series 2010B, 5.750%, 7/01/42	1/20 at 100.00	Aa3	1,031,860
Director of Nevada State Department of Business and Industry, Revenue Bonds, Las Vegas Monorail Project, First Tier, Series 2000:				
800	0.000%, 1/01/15 – AMBAC Insured	No Opt. Call	D	173,272
35	0.000%, 1/01/16 – AMBAC Insured	No Opt. Call	D	7,017
120	0.000%, 1/01/18 – AMBAC Insured	No Opt. Call	D	20,944

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		No Opt.		
50	0.000%, 1/01/20 – AMBAC Insured Las Vegas Redevelopment Agency, Nevada, Tax Increment Revenue	Call	D	7,656
250	Bonds, Series 2009A, 8.000%, 6/15/30	6/19 at 100.00	A	282,783
2,255	Total Nevada			1,523,532
	New Jersey – 2.3%			
	Bayonne Redevelopment Agency, New Jersey, Revenue Bonds,	No Opt.		
360	Royal Caribbean Cruises Project, Series 2006A, 4.750%, 11/01/16 (Alternative Minimum Tax) New Jersey Economic Development Authority, Cigarette Tax Revenue Bonds, Series 2004:	Call	BB	341,035
		No Opt.		
150	5.375%, 6/15/14	Call	BBB	158,442
		No Opt.		
15	5.375%, 6/15/15 – RAAI Insured	Call	Baa3	15,900
		No Opt.		
25	5.500%, 6/15/16 – RAAI Insured New Jersey Transportation Trust Fund Authority, Transportation	Call	Baa3	26,636
1,730	System Bonds, Capital Appreciation Series 2010A, 0.000%, 12/15/33 New Jersey Transportation Trust Fund Authority, Transportation	No Opt. Call	A+	424,006
1,500	System Bonds, Series 2010D, 5.000%, 12/15/23 Tobacco Settlement Financing Corporation, New Jersey, Tobacco	No Opt. Call	A+	1,567,845
415	Settlement Asset-Backed Bonds, Series 2007-1A, 4.500%, 6/01/23	6/17 at 100.00	BBB	373,658
4,195	Total New Jersey			2,907,522
	New York – 7.1%			
	Brooklyn Areba Local Development Corporation, New York,	1/20 at		
220	Payment in Lieu of Taxes Revenue Bonds, Barclays Center Project, Series 2009, 6.000%, 7/15/30 Dormitory Authority of the State of New York, Revenue Bonds,	100.00	BBB–	225,454
1,000	Brooklyn Law School, Series 2003A, 5.500%, 7/01/15 – RAAI Insured New York City Industrial Development Agency, New York, Civic	7/13 at 100.00	BBB+	1,075,030
105	Facility Revenue Bonds, Special Needs Facilities Pooled Program, Series 2008A-1, 5.700%, 7/01/13 New York State Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed and State Contingency Contract-Backed Bonds, Series 2003A-1:	No Opt. Call	N/R	103,437
		12/11 at		
10	5.500%, 6/01/14	100.00	AA–	10,037
250	5.250%, 6/01/20 – AMBAC Insured	6/13 at 100.00	AA–	264,153
200	5.250%, 6/01/21 – AMBAC Insured	6/13 at 100.00	AA–	210,356
615	5.250%, 6/01/22 – AMBAC Insured New York State Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed and	6/13 at 100.00	AA–	644,483

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State Contingency Contract-Backed Bonds, Series 2003B-1C:

500	5.500%, 6/01/21	6/13 at 100.00	AA-	529,185
300	5.500%, 6/01/22	6/13 at 100.00	AA-	316,353
4,300	Port Authority of New York and New Jersey, Special Project Bonds, JFK International Air Terminal LLC, Sixth Series 1997, 7.000%, 12/01/12 – NPMG Insured (Alternative Minimum Tax) Tobacco Settlement Financing Corporation Asset-Backed Revenue Bonds, State Contingency Contract Secured, Series 2011B:	No Opt. Call	Baa1	4,494,272
360	5.000%, 6/01/17 (WI/DD, Settling 7/07/11)	No Opt. Call		411,764
565	5.000%, 6/01/18 (WI/DD, Settling 7/07/11)	No Opt. Call		646,083
8,425	Total New York North Carolina – 1.6%			8,930,607
1,880	Union County, North Carolina, Certificates of Participation, Series 2003, 5.000%, 6/01/18 – AMBAC Insured	6/13 at 101.00	Aa2	2,013,330
770	Ohio – 1.3% Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-2, 5.125%, 6/01/24	6/17 at 100.00	Baa3	633,633
1,000	Toledo-Lucas County Port Authority, Ohio, Port Revenue Bonds, Cargill Inc., Series 2004B, 4.500%, 12/01/15	No Opt. Call	A	1,074,930
1,770	Total Ohio Pennsylvania – 7.4%			1,708,563
200	Luzerne County Industrial Development Authority, Pennsylvania, Guaranteed Lease Revenue Bonds, Series 2009, 7.750%, 12/15/27	12/19 at 100.00	N/R	195,244
640	Pennsylvania Higher Educational Facilities Authority, College Revenue Bonds, Ninth Series 1976, 7.625%, 7/01/15 (ETM)	No Opt. Call	Aaa	718,291
225	Pennsylvania Higher Educational Facilities Authority, Revenue Bonds, University of the Arts, Series 1999, 5.150%, 3/15/20 – RAAI Insured (ETM)	9/11 at 100.00	A+ (4)	254,216
580	Pennsylvania Turnpike Commission, Motor License Fund-Enhanced Subordinate Special Revenue Bonds, Series 2010A, 0.000%, 12/01/34	No Opt. Call	Aa3	440,493
4,120	Philadelphia Gas Works, Pennsylvania, Revenue Bonds, Eighteenth Series 2004, 5.000%, 8/01/15 – AMBAC Insured	8/14 at 100.00	BBB+	4,386,603
1,330	Philadelphia Gas Works, Pennsylvania, Revenue Bonds, Twelfth Series 1990B, 7.000%, 5/15/20 – NPMG Insured (ETM)	No Opt. Call	BBB	1,656,302
250	Philadelphia Hospitals and Higher Education Facilities Authority, Pennsylvania, Hospital	11/11 at 100.00	BBB	249,663

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	Revenue Bonds, Temple University Hospital, Series 1993A, 6.625%, 11/15/23			
1,085	Pittsburgh School District, Allegheny County, Pennsylvania, General Obligation Bonds, Series 2006B, 5.000%, 9/01/12 – AMBAC Insured	No Opt. Call	Aa3	1,139,120
330	Union County Hospital Authority, Pennsylvania, Hospital Revenue Bonds, Evangelical Community Hospital Project, Refunding and Improvement Series 2011, 5.750%, 8/01/21	No Opt. Call	BBB+	348,520
8,760	Total Pennsylvania Puerto Rico – 0.6%			9,388,452
1,000	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, First Subordinate Series 2009A, 0.000%, 8/01/32 Rhode Island – 0.7%	8/26 at 100.00	A+	814,870
255	Rhode Island Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed Bonds, Series 2002A: 6.125%, 6/01/32	6/12 at 100.00	BBB	255,342
725	6.250%, 6/01/42	6/12 at 100.00	BBB	659,910
980	Total Rhode Island South Carolina – 5.0%			915,252
750	Berkeley County School District, South Carolina, Installment Purchase Revenue Bonds, Securing Assets for Education, Series 2003, 5.250%, 12/01/19	12/13 at 100.00	A1	803,910
1,540	Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 1991, 6.750%, 1/01/19 – FGIC Insured (ETM)	No Opt. Call	Baa1 (4)	1,990,712
2,835	Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 1991, 6.750%, 1/01/19 – FGIC Insured	No Opt. Call	AAA	3,492,009
5	South Carolina JOBS Economic Development Authority, Economic Development Revenue Bonds, Bon	11/12 at 100.00	A3 (4)	5,364
20	Secours Health System Inc., Series 2002A, 5.625%, 11/15/30 (Pre-refunded 11/15/12)			
20	South Carolina JOBS Economic Development Authority, Economic Development Revenue Bonds, Bon	11/12 at 100.00	A–	19,987
5,150	Secours Health System Inc., Series 2002B, 5.625%, 11/15/30 Total South Carolina South Dakota – 0.8%			6,311,982
1,000	South Dakota Health and Educational Facilities Authority, Revenue Bonds, Sanford Health, Series 2007, 5.000%, 11/01/27 Tennessee – 2.0%	5/17 at 100.00	AA–	1,015,090
750	Shelby County Health, Educational and Housing Facilities Board, Tennessee, Hospital Revenue Bonds, Methodist Healthcare, Series 2002: 6.000%, 9/01/17 (Pre-refunded 9/01/12)	9/12 at 100.00	AAA	796,883

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1,250	6.000%, 9/01/17 (Pre-refunded 9/01/12)	9/12 at 100.00	AAA	1,328,138
400	The Tennessee Energy Acquisition Corporation, Gas Revenue Bonds, Series 2006A, 5.000%, 9/01/13	No Opt. Call	Ba3	422,420
2,400	Total Tennessee Texas – 7.4%			2,547,441
1,055	Austin, Texas, General Obligation Bonds, Series 2004, 5.000%, 9/01/20 – NPMG Insured	9/14 at 100.00	AAA	1,165,258
565	Bexar County Housing Finance Corporation, Texas, FNMA Guaranteed Multifamily Housing Revenue Bonds, Villas Sonterra Apartments Project, Series 2007A, 4.700%, 10/01/15 (Alternative Minimum Tax)	No Opt. Call	N/R	596,555
25	Brazos River Authority, Texas, Collateralized Pollution Control Revenue Bonds, Texas Utilities Electric Company, Series 2003D, 5.400%, 10/01/29 (Mandatory put 10/01/14)	No Opt. Call	CC	19,407
2,000	Brazos River Authority, Texas, Collateralized Revenue Refunding Bonds, CenterPoint Energy Inc., Series 2004B, 4.250%, 12/01/17 – FGIC Insured	6/14 at 100.00	A3	2,057,480
500	Brazos River Authority, Texas, Pollution Control Revenue Refunding Bonds, TXU Electric Company, Series 2001C, 5.750%, 5/01/36 (Mandatory put 11/01/11) (Alternative Minimum Tax)	No Opt. Call	CC	491,395
15	Brazos River Authority, Texas, Pollution Control Revenue Refunding Bonds, TXU Energy Company LLC, Series 2003A, 6.750%, 4/01/38 (Mandatory put 4/01/13) (Alternative Minimum Tax)	No Opt. Call	CC	13,259
500	Central Texas Regional Mobility Authority, Senior Lien Revenue Bonds, Series 2011, 6.250%, 1/01/46	1/21 at 100.00	BBB–	498,315
1,875	Denton Independent School District, Denton County, Texas, General Obligation Bonds, Series 2006, 5.000%, 8/15/20	8/16 at 100.00	AAA	2,087,756
300	Kerrville Health Facilities Development Corporation, Texas, Revenue Bonds, Sid Peterson Memorial Hospital Project, Series 2005, 5.125%, 8/15/26	No Opt. Call	BBB–	285,276
200	Love Field Airport Modernization Corporation, Texas, Special Facilities Revenue Bonds, Southwest Airlines Company, Series 2010, 5.250%, 11/01/40	11/20 at 100.00	BBB–	182,598
325	North Texas Tollway Authority, Second Tier System Revenue Refunding Bonds, Series 2008F, 5.750%, 1/01/38	1/18 at 100.00	A3	325,523
100	North Texas Tollway Authority, Special Projects System Revenue Bonds, Series 2011A:	9/31 at 100.00	AA	51,124
490	0.000%, 9/01/43	9/31 at 100.00	AA	277,820
25	Sabine River Authority, Texas, Pollution Control Revenue Bonds, TXU Energy Company LLC	No Opt. Call	CC	24,570

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Project, Series 2001B, 5.750%, 5/01/30 (Mandatory put 11/01/11) (Alternative Minimum Tax)			
1,350	Texas Municipal Gas Acquisition and Supply Corporation I, Gas Supply Revenue Bonds, Series 2006B, 0.715%, 12/15/17	7/11 at 100.00	A 1,221,710
125	Weslaco Health Facilities Development Corporation, Texas, Hospital Revenue Bonds, Knapp Medical Center, Series 2002, 6.000%, 6/01/17 (Pre-refunded 6/01/12)	6/12 at 100.00	N/R (4) 129,848
9,450	Total Texas		9,427,894
Virgin Islands – 0.4%			
525	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 497,270
Virginia – 0.2%			
250	Virginia College Building Authority, Educational Facilities Revenue Refunding Bonds, Marymount University, Series 1998, 5.100%, 7/01/18 – RAAI Insured	1/12 at 100.00	N/R 250,200
Washington – 1.5%			
295	Washington Public Power Supply System, Revenue Refunding Bonds, Nuclear Project 3, Series 1989B, 7.125%, 7/01/16 – NPPFG Insured	No Opt. Call	Aaa 373,143
1,000	Washington State Health Care Facilities Authority, Revenue Bonds, Fred Hutchinson Cancer Research Center, Series 2011A, 5.375%, 1/01/31	1/21 at 100.00	A 988,690
515	Washington State Tobacco Settlement Authority, Tobacco Settlement Asset-Backed Revenue Bonds, Series 2002, 6.500%, 6/01/26	6/13 at 100.00	BBB 522,612
1,810	Total Washington		1,884,445
Wisconsin – 3.1%			
Badger Tobacco Asset Securitization Corporation, Wisconsin, Tobacco Settlement Asset-Backed Bonds, Series 2002:			
340	6.125%, 6/01/27 (Pre-refunded 6/01/12)	6/12 at 100.00	AAA 354,691
1,480	6.375%, 6/01/32 (Pre-refunded 6/01/12)	6/12 at 100.00	AAA 1,562,791
1,105	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Aurora Health Care Inc., Series 1999A, 5.500%, 2/15/20 – ACA Insured	8/11 at 100.00	A3 1,105,718
200	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Aurora Health Care, Inc., Series 2010B, 5.000%, 7/15/20	No Opt. Call	A3 211,514
Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Wheaton Franciscan Healthcare System, Series 2006:			
500	5.250%, 8/15/18	8/16 at 100.00	BBB+ 525,630
180	5.250%, 8/15/34	8/16 at 100.00	BBB+ 160,542
3,805	Total Wisconsin		3,920,886
Total Investments (cost \$120,144,869) – 97.2%			123,018,915

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\$		
123,710		
Other Assets Less Liabilities – 2.8%		3,539,121
		\$
Net Assets – 100%		126,558,036

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 three-tier hierarchy of inputs is summarized in the three broad levels listed below:

Level 1 – Quoted prices in active markets for identical securities.

Level 2 – Other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3 – 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 June 30, 2011:

	Level 1	Level 2	Level 3	Total
Investments:				
Municipal Bonds	\$—	\$123,018,915	\$—	\$123,018,915

During the period ended June 30, 2011, the Fund recognized no significant transfers to or from Level 1, Level 2 or Level 3.

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 and timing differences in recognizing certain gains and losses on investment transactions. 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.

At June 30, 2011, the cost of investments was \$120,025,174.

Gross unrealized appreciation and gross unrealized depreciation of investments at June 30, 2011, were as follows:

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Gross unrealized:	
Appreciation	\$4,406,809
Depreciation	(1,413,068)
Net unrealized appreciation (depreciation) of investments	\$2,993,741

- (1) All percentages shown in the Portfolio of Investments are based on net assets.
 - (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 Investor 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. Such investments are normally considered to be equivalent to AAA rated securities.
- N/R Not rated.
WI/DD Purchased on a when-issued or delayed delivery basis.
(ETM) Escrowed to maturity.
-

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 Select Maturities Municipal Fund

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

Date August 29, 2011

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 August 29, 2011

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

Date August 29, 2011