

NUVEEN INSURED TAX FREE ADVANTAGE MUNICIPAL FUND

Form N-Q

September 29, 2010

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 811-21213

Nuveen Insured Tax-Free Advantage 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: 10/31

Date of reporting period: 7/31/10

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 Insured Tax-Free Advantage Municipal Fund (NEA)
 July 31, 2010

Principal Amount	Description (1)	Optional Call Provisions	(2) Ratings (3)	Value
	Alabama – 7.1% (4.9% of Total Investments)			
\$ 1,000	Alabama Special Care Facilities Financing Authority, Revenue Bonds, Ascension Health, Series 2006C-2, 5.000%, 11/15/36 (UB)	11/16 at 100.00	Aa1	\$ 1,018,830
5,655	Colbert County-Northwest Health Care Authority, Alabama, Revenue Bonds, Helen Keller Hospital, Series 2003, 5.750%, 6/01/27	6/13 at 101.00	Baa3	5,442,202
3,100	Huntsville Healthcare Authority, Alabama, Revenue Bonds, Series 1998A, 5.400%, 6/01/22 (Pre-refunded 5/14/12) – NPFQ Insured	5/12 at 102.00	A (4)	3,420,106
6,280	Jefferson County, Alabama, Sewer Revenue Capital Improvement Warrants, Series 2002D, 5.000%, 2/01/32 (Pre-refunded 8/01/12) – FGIC Insured	8/12 at 100.00	AAA	6,839,925
1,750	Montgomery, Alabama, General Obligation Warrants, Series 2003, 5.000%, 5/01/21 – AMBAC Insured	5/12 at 101.00	AA+	1,871,713
4,500	Sheffield, Alabama, Electric Revenue Bonds, Series 2003, 5.500%, 7/01/29 – AMBAC Insured	7/13 at 100.00	Aa3	4,748,670
22,285	Total Alabama			23,341,446
	Arizona – 4.7% (3.2% of Total Investments)			
10,000	Maricopa County Pollution Control Corporation, Arizona, Revenue Bonds, Arizona Public Service Company – Palo Verde Project, Series 2002A, 5.050%, 5/01/29 – AMBAC Insured	11/12 at 100.00	Baa2	9,521,700
6,545	Phoenix, Arizona, Civic Improvement Revenue Bonds, Civic Plaza, Series 2005B, 0.000%, 7/01/37 – FGIC Insured	No Opt. Call	AA	5,928,592
16,545	Total Arizona			15,450,292
	California – 20.8% (14.4% of Total Investments)			
26,300	California State Public Works Board, Lease Revenue Bonds, Department of General Services, Capital East End Project, Series 2002A, 5.000%, 12/01/27 – AMBAC Insured	12/12 at 100.00	A2	26,117,478
250	California State, General Obligation Bonds, Series 2002, 5.250%, 4/01/30 – SYNCORA GTY Insured	4/12 at 100.00	A1	251,010
5	California, General Obligation Bonds, Series 2004, 5.000%, 4/01/31 – AMBAC Insured	4/14 at 100.00	A1	4,974
7,495	California, General Obligation Bonds, Series 2004, 5.000%, 4/01/31 (Pre-refunded 4/01/14) – AMBAC Insured	4/14 at 100.00	AAA	8,661,972

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2,910	Cathedral City Public Financing Authority, California, Tax Allocation Bonds, Housing Set-Aside, Series 2002D, 5.000%, 8/01/26 – NPMFG Insured	8/12 at 102.00	A	2,887,855
8,000	Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Revenue Bonds, Series 2005A, 5.000%, 6/01/35 – FGIC Insured	6/15 at 100.00	A2	7,491,920
250	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1, 5.125%, 6/01/47	6/17 at 100.00	BBB	161,415
2,500	Irvine Public Facilities and Infrastructure Authority, California, Assessment Revenue Bonds, Series 2003C, 5.000%, 9/02/23 – AMBAC Insured	9/13 at 100.00	N/R	2,441,250
4,000	Montara Sanitation District, California, General Obligation Bonds, Series 2003, 5.000%, 8/01/28 – FGIC Insured	8/11 at 101.00	AA–	4,106,640
1,130	Plumas County, California, Certificates of Participation, Capital Improvement Program, Series 2003A: 5.250%, 6/01/19 – AMBAC Insured	6/13 at 101.00	A–	1,175,889
1,255	5.250%, 6/01/21 – AMBAC Insured	6/13 at 101.00	A–	1,290,906
1,210	Redding Joint Powers Financing Authority, California, Lease Revenue Bonds, Capital Improvement Projects, Series 2003A, 5.000%, 3/01/23 – AMBAC Insured	3/13 at 100.00	A	1,258,727
3,750	Sacramento Municipal Utility District, California, Electric Revenue Bonds, Series 2003R, 5.000%, 8/15/28 – NPMFG Insured	8/13 at 100.00	A+	3,812,250
1,500	San Diego Community College District, California, General Obligation Bonds, Series 2003A, 5.000%, 5/01/28 – AGM Insured	5/13 at 100.00	AAA	1,569,645
1,055	Turlock Irrigation District, California, Certificates of Participation, Series 2003A, 5.000%, 1/01/28 – NPMFG Insured	1/13 at 100.00	A	1,065,001
6,300	University of California, General Revenue Bonds, Series 2003A, 5.000%, 5/15/33 – AMBAC Insured (UB)	5/13 at 100.00	AA	6,398,721
67,910	Total California			68,695,653
	Colorado – 4.8% (3.4% of Total Investments)			
4,300	Bowles Metropolitan District, Colorado, General Obligation Bonds, Series 2003: 5.500%, 12/01/23 – AGM Insured	12/13 at 100.00	AAA	4,532,587
3,750	5.500%, 12/01/28 – AGM Insured	12/13 at 100.00	AAA	3,884,700
1,450	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Peak-to-Peak Charter School, Series 2004, 5.250%, 8/15/24 – SYNCORA GTY Insured	8/14 at 100.00	A	1,477,942
4,500			AAA	4,728,645

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	Colorado Health Facilities Authority, Colorado, Revenue Bonds, Catholic Health Initiatives, Series 2006C-1, Trust 1090, 14.949%, 10/01/41 – AGM Insured (IF)	4/18 at 100.00		
3,000	E-470 Public Highway Authority, Colorado, Senior Revenue Bonds, Series 2000B, 0.000%, 9/01/30 – NPFPG Insured	No Opt. Call	A	789,180
2,900	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004A, 0.000%, 9/01/34 – NPFPG Insured	No Opt. Call	A	552,566
19,900	Total Colorado			15,965,620
	District of Columbia – 0.6% (0.4% of Total Investments)			
7,000	Metropolitan Washington Airports Authority, Virginia, Dulles Toll Road Revenue Bonds, Capital Appriciation Series 2009B-2, 0.000%, 10/01/36 – AGC Insured	No Opt. Call	AAA	1,449,000
665	Washington Convention Center Authority, District of Columbia, Dedicated Tax Revenue Bonds, Tender Option Bond Trust 1606, 11.356%, 10/01/30 – AMBAC Insured (IF)	10/16 at 100.00	AA+	673,419
7,665	Total District of Columbia			2,122,419
	Florida – 23.2% (16.0% of Total Investments)			
1,000	Bay County, Florida, Water System Revenue Bonds, Series 2005, 5.000%, 9/01/25 – AMBAC Insured	9/15 at 100.00	A1	1,039,280
1,500	Clay County, Florida, Uility System Revenue Bonds, Series 2007: 5.000%, 11/01/27 – SYNCORA GTY Insured (UB)	11/17 at 100.00	AAA	1,592,565
3,000	5.000%, 11/01/32 – SYNCORA GTY Insured (UB)	11/17 at 100.00	AAA	3,110,910
400	Collier County, Florida, Capital Improvement Revenue Bonds, Series 2005, 5.000%, 10/01/23 – NPFPG Insured	10/14 at 100.00	AA–	420,848
1,000	Escambia County, Florida, Sales Tax Revenue Refunding Bonds, Series 2002, 5.250%, 10/01/17 – AMBAC Insured	10/12 at 101.00	A+	1,096,650
1,525	Fernandina Beach, Florida, Utility Acquisition and Improvement Revenue Bonds, Series 2003, 5.000%, 9/01/23 – FGIC Insured	9/13 at 100.00	A	1,572,702
500	Flagler County, Florida, Capital Improvement Revenue Bonds, Series 2005, 5.000%, 10/01/30 – NPFPG Insured	10/15 at 100.00	A	509,075
170	Florida Housing Finance Agency, GNMA Collateralized Home Ownership Revenue Refunding Bonds, Series 1987G-1, 8.595%, 11/01/17	No Opt. Call	AAA	184,940
2,500	Florida State Board of Education, Public Education Capital Outlay Bonds, Series 2008, Trust 2929, 16.810%, 12/01/16 – AGC Insured (IF)	No Opt. Call	AAA	2,983,300
2,240	FSU Financial Assistance Inc., Florida, General Revenue Bonds, Educational and Athletic Facilities Improvements, Series 2004, 5.000%, 10/01/14 – AMBAC Insured	No Opt. Call	Aa3	2,531,648
2,000	Greater Orlando Aviation Authority, Florida, Airport Facilities Revenue Bonds, Series 2002A,	10/12 at 100.00	AAA	2,027,000

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	5.125%, 10/01/32 – AGM Insured			
105	Greater Orlando Aviation Authority, Florida, Airport Facilities Revenue Refunding Bonds, Series 2003A, 5.000%, 10/01/17 – AGM Insured	10/13 at 100.00	AAA	112,599
350	Halifax Hospital Medical Center, Florida, Revenue Bonds, Series 2006, 5.500%, 6/01/38 – AGM Insured	6/18 at 100.00	AAA	356,885
1,300	Highlands County Health Facilities Authority, Florida, Hospital Revenue Bonds, Adventist Health System, Series 2005D, 5.000%, 11/15/35 – NPFG Insured	11/15 at 100.00	Aa3	1,299,909
180	Highlands County Health Facilities Authority, Florida, Hospital Revenue Bonds, Adventist Health System, Series 2005D, 5.000%, 11/15/35 (Pre-refunded 11/15/15) – NPFG Insured	11/15 at 100.00	Aa3 (4)	212,614
3,500	Highlands County Health Facilities Authority, Florida, Hospital Revenue Bonds, Adventist Health System/Sunbelt Obligated Group, Series 2003D, 5.875%, 11/15/29 (Pre-refunded 11/15/13)	11/13 at 100.00	N/R (4)	4,019,120
1,500	Hillsborough County School Board, Florida, Certificates of Participation, Series 2003, 5.000%, 7/01/29 – NPFG Insured	7/13 at 100.00	Aa2	1,521,885
2,270	Jacksonville, Florida, Local Government Sales Tax Revenue Refunding and Improvement Bonds, Series 2002, 5.375%, 10/01/18 – FGIC Insured	10/12 at 100.00	AA+	2,442,338
2,265	Lakeland, Florida, Utility Tax Revenue Bonds, Series 2003B, 5.000%, 10/01/20 – AMBAC Insured	10/12 at 100.00	N/R	2,300,900
1,730	Lee County, Florida, Transportation Facilities Revenue Bonds, Series 2004B, 5.000%, 10/01/22 – AMBAC Insured	10/14 at 100.00	A–	1,804,044
500	Lee Memorial Health System, Florida, Hospital Revenue Bonds, Series 2007A, 5.000%, 4/01/32 – NPFG Insured	4/17 at 100.00	A	489,600
3,000	Marco Island, Florida, Water Utility System Revenue Bonds, Series 2003, 5.000%, 10/01/27 – NPFG Insured	10/13 at 100.00	Aa3	3,057,870
500	Miami-Dade County, Florida, Water and Sewer System Revenue Bonds, Refunding Series 2008B, 5.250%, 10/01/22 – AGM Insured	No Opt. Call	AAA	575,625
2,000	Miami-Dade County, Florida, Water and Sewer System Revenue Bonds, Series 1999A, 5.000%, 10/01/29 – FGIC Insured	10/10 at 100.50	Aa2	2,012,500
500	North Port, Florida, Utility System Revenue Bonds, Series 2000, 5.000%, 10/01/25 (Pre-refunded 10/01/10) – AGM Insured	10/10 at 101.00	Aa3 (4)	509,015
2,000	Orange County, Florida, Sales Tax Revenue Bonds, Series 2002A, 5.125%, 1/01/17 – FGIC Insured	1/13 at 100.00	AA	2,155,240
1,500	Orange County, Florida, Sales Tax Revenue Bonds, Series 2002B, 5.125%, 1/01/32 – FGIC Insured	1/13 at 100.00	AA	1,520,865
3,370	Osceola County School Board, Florida, Certificates of Participation, Series 2002A, 5.125%, 6/01/20 (Pre-refunded 6/01/12) – AMBAC Insured	6/12 at 101.00	Aa3 (4)	3,688,667

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3,335	Palm Bay, Florida, Local Optional Gas Tax Revenue Bonds, Series 2004, 5.250%, 10/01/20 – NPFPG Insured	10/14 at 100.00	AA–	3,702,150
1,095	Palm Bay, Florida, Utility System Revenue Bonds, Series 2004, 5.250%, 10/01/20 – NPFPG Insured	10/14 at 100.00	Aa3	1,215,549
2,670	Palm Beach County School Board, Florida, Certificates of Participation, Series 2002D, 5.000%, 8/01/28 – AGM Insured	8/12 at 100.00	AAA	2,701,399
1,950	Palm Beach County School Board, Florida, Certificates of Participation, Series 2002D, 5.250%, 8/01/20 (Pre-refunded 8/01/12) – AGM Insured	8/12 at 100.00	AAA	2,135,621
2,800	Pinellas County Health Facilities Authority, Florida, Revenue Bonds, Baycare Health System, Series 2003: 5.750%, 11/15/27 (Pre-refunded 5/15/13)	5/13 at 100.00	Aa3 (4)	3,198,160
3,000	5.500%, 11/15/27 (Pre-refunded 5/15/13)	5/13 at 100.00	Aa3 (4)	3,405,870
1,000	Port Saint Lucie, Florida, Special Assessment Revenue Bonds, Southwest Annexation District 1B, Series 2007, 5.000%, 7/01/33 – NPFPG Insured	7/17 at 100.00	A	926,670
2,115	Port St. Lucie, Florida, Sales Tax Revenue Bonds, Series 2003, 5.000%, 9/01/23 – NPFPG Insured	9/13 at 100.00	A+	2,216,266
1,500	Port St. Lucie, Florida, Stormwater Utility System Revenue Refunding Bonds, Series 2002, 5.000%, 5/01/23 – NPFPG Insured	5/12 at 100.00	Aa3	1,561,020
225	Port St. Lucie, Florida, Utility System Revenue Bonds, Refunding Series 2009, 5.250%, 9/01/35 – AGC Insured	9/18 at 100.00	AAA	235,856
1,500	South Miami Health Facilities Authority, Florida, Hospital Revenue Bonds, Baptist Health Systems of South Florida, Series 2003, 5.200%, 11/15/28 (Pre-refunded 2/01/13)	2/13 at 100.00	Aaa	1,673,460
1,730	St. John’s County, Florida, Sales Tax Revenue Bonds, Series 2004A, 5.000%, 10/01/24 – AMBAC Insured	10/14 at 100.00	A+	1,800,117
4,000	St. Lucie County School Board, Florida, Certificates of Participation, Master Lease Program, Series 2004A, 5.000%, 7/01/24 – AGM Insured	7/14 at 100.00	AAA	4,120,960
1,200	Tamarac, Florida, Utility System Revenue Bonds, Series 2009, 5.000%, 10/01/39 – AGC Insured	10/19 at 100.00	AAA	1,221,120
1,250	Volusia County Educational Facilities Authority, Florida, Revenue Refunding Bonds, Embry-Riddle Aeronautical University, Series 2003, 5.200%, 10/15/33 – RAAI Insured	10/13 at 100.00	Baa3	1,202,650
71,775	Total Florida			76,465,462
	Georgia – 2.0% (1.4% of Total Investments)			
3,000	Atlanta, Georgia, Water and Wastewater Revenue Bonds, Series 2009B, 5.375%, 11/01/39 – AGM Insured	11/19 at 100.00	AAA	3,146,850
1,410			AAA	1,482,798

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	DeKalb County, Georgia, Water and Sewer Revenue Bonds, Series 2006A, 5.000%, 10/01/35 – AGM Insured	10/16 at 100.00		
1,825	Metropolitan Atlanta Rapid Transit Authority, Georgia, Sales Tax Revenue Bonds, Second Indenture Series 2002, 5.000%, 7/01/32 (Pre-refunded 1/01/13) – NPFG Insured	1/13 at 100.00	AA+ (4)	2,022,009
6,235	Total Georgia			6,651,657
	Illinois – 4.4% (3.0% of Total Investments)			
5,000	Chicago, Illinois, General Airport Revenue Bonds, O’Hare International Airport, Third Lien Refunding Series 2010C, 5.250%, 1/01/35 – AGC Insured	No Opt. Call	AAA	5,197,500
1,635	Cook County School District 145, Arbor Park, Illinois, General Obligation Bonds, Series 2004: 5.125%, 12/01/20 – AGM Insured	12/14 at 100.00	Aa3	1,759,015
1,465	Cook County School District 145, Arbor Park, Illinois, General Obligation Bonds, Series 2004: 5.125%, 12/01/23 – AGM Insured	12/14 at 100.00	Aa3	1,553,999
1,650	Illinois Health Facilities Authority, Revenue Bonds, Lake Forest Hospital, Series 2003, 5.250%, 7/01/23	12/14 at 100.00	Aa3 (4)	1,802,312
1,475	Illinois Health Facilities Authority, Revenue Bonds, Lake Forest Hospital, Series 2003, 5.250%, 7/01/23	12/14 at 100.00	Aa3 (4)	1,588,236
2,500	Indiana – 7.2% (5.0% of Total Investments)	7/13 at 100.00	AA+	2,557,525
13,725	Total Illinois			14,458,587
2,500	Evansville, Indiana, Sewerage Works Revenue Refunding Bonds, Series 2003A, 5.000%, 7/01/23 – AMBAC Insured	7/13 at 100.00	A1	2,581,325
2,190	Indiana Bond Bank, Advance Purchase Funding Bonds, Common School Fund, Series 2003B, 5.000%, 8/01/19 – NPFG Insured	8/13 at 100.00	A	2,251,013
1,860	Indiana Municipal Power Agency, Power Supply Revenue Bonds, Series 2007A, 5.000%, 1/01/42 – NPFPG Insured	1/17 at 100.00	A+	1,883,864
1,000	Indiana University, Student Fee Revenue Bonds, Series 2003O, 5.000%, 8/01/22 – FGIC Insured	8/13 at 100.00	Aaa	1,084,880
11,020	IPS Multi-School Building Corporation, Indiana, First Mortgage Revenue Bonds, Series 2003: 5.000%, 7/15/19 (Pre-refunded 7/15/13) – NPFPG Insured	7/13 at 100.00	AA (4)	12,430,670
3,000	IPS Multi-School Building Corporation, Indiana, First Mortgage Revenue Bonds, Series 2003: 5.000%, 7/15/20 (Pre-refunded 7/15/13) – NPFPG Insured	7/13 at 100.00	AA (4)	3,384,030
21,570	Total Indiana			23,615,782
	Kansas – 1.6% (1.1% of Total Investments)			
5,000	Kansas Development Finance Authority, Board of Regents, Revenue Bonds, Scientific Research and	4/13 at 102.00	AA	5,327,750

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	Development Facilities Projects, Series 2003C, 5.000%, 10/01/22 – AMBAC Insured Kentucky – 0.3% (0.2% of Total Investments)			
985	Kentucky State Property and Buildings Commission, Revenue Refunding Bonds, Project 77, Series 2003, 5.000%, 8/01/23 (Pre-refunded 8/01/13) – NPFQ Insured Louisiana – 1.8% (1.2% of Total Investments)	8/13 at 100.00	Aa3 (4)	1,113,818
5,785	New Orleans, Louisiana, General Obligation Refunding Bonds, Series 2002, 5.300%, 12/01/27 – FGIC Insured Massachusetts – 0.3% (0.3% of Total Investments)	12/12 at 100.00	A3	5,846,552
1,125	Massachusetts Development Finance Authority, Revenue Bonds, Middlesex School, Series 2003, 5.125%, 9/01/23 Michigan – 9.6% (6.6% of Total Investments)	9/13 at 100.00	A1	1,172,745
6,130	Detroit, Michigan, Senior Lien Water Supply System Revenue Bonds, Series 2003A, 5.000%, 7/01/23 (Pre-refunded 7/01/13) – NPFQ Insured	7/13 at 100.00	A+ (4)	6,885,645
4,465	Detroit, Michigan, Senior Lien Water Supply System Revenue Refunding Bonds, Series 2003C, 5.000%, 7/01/22 – NPFQ Insured	7/13 at 100.00	Aa3	4,547,290
1,000	Michigan State Hospital Finance Authority, Revenue Bonds, Trinity Health Care Group, Series 2006A, 5.000%, 12/01/31 (UB)	12/16 at 100.00	AA	1,000,470
10,800	Michigan Strategic Fund, Limited Obligation Resource Recovery Revenue Refunding Bonds, Detroit Edison Company, Series 2002D, 5.250%, 12/15/32 – SYNCORA GTY Insured	12/12 at 100.00	Baa1	10,835,100
2,250	Romulus Community Schools, Wayne County, Michigan, General Obligation Refunding Bonds, Series 2001, 5.250%, 5/01/25	5/11 at 100.00	Aa2	2,293,380
6,500	Wayne County, Michigan, Limited Tax General Obligation Airport Hotel Revenue Bonds, Detroit Metropolitan Wayne County Airport, Series 2001A, 5.000%, 12/01/30 – NPFQ Insured	12/11 at 101.00	A	6,089,525
31,145	Total Michigan Missouri – 1.0% (0.7% of Total Investments)			31,651,410
240	Clay County Public School District 53, Liberty, Missouri, General Obligation Bonds, Series 2004, 5.250%, 3/01/24 – AGM Insured	3/14 at 100.00	AAA	263,450
215	Clay County Public School District 53, Liberty, Missouri, General Obligation Bonds, Series 2004, 5.250%, 3/01/23 – AGM Insured	3/14 at 100.00	AAA	236,008
1,110	Clay County Public School District 53, Liberty, Missouri, General Obligation Bonds, Series 2004: 5.250%, 3/01/23 (Pre-refunded 3/01/14) – AGM Insured	3/14 at 100.00	AAA	1,283,504
1,260	5.250%, 3/01/24 (Pre-refunded 3/01/14) – AGM Insured	3/14 at 100.00	AAA	1,456,951
2,825	Total Missouri			3,239,913

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Nebraska – 1.6% (1.1% of Total Investments)				
5,000	Lincoln, Nebraska, Sanitary Sewerage System Revenue Refunding Bonds, Series 2003, 5.000%, 6/15/28 – NPFPG Insured	6/13 at 100.00	AA+	5,277,299
New Mexico – 0.7% (0.5% of Total Investments)				
1,975	New Mexico State University, Revenue Bonds, Series 2004, 5.000%, 4/01/19 – AMBAC Insured	4/14 at 100.00	AA	2,184,902
New York – 10.0% (6.9% of Total Investments)				
2,020	Hudson Yards Infrastructure Corporation, New York, Revenue Bonds, Series 2006A, 4.500%, 2/15/47 – NPFPG Insured	2/17 at 100.00	A	1,862,925
25,000	Metropolitan Transportation Authority, New York, Transportation Revenue Refunding Bonds, Series 2002F, 5.000%, 11/15/31 – NPFPG Insured	11/12 at 100.00	A	25,284,000
1,850	New York State Urban Development Corporation, Service Contract Revenue Bonds, Series 2005B, 5.000%, 3/15/25 – AGM Insured (UB)	3/15 at 100.00	AAA	2,012,948
3,335	New York State Urban Development Corporation, State Personal Income Tax Revenue Bonds, Tender Option Bond Trust 09-6W, 12.839%, 3/15/37 (IF)	3/17 at 100.00	AAA	3,799,132
32,205	Total New York			32,959,005
North Carolina – 2.2% (1.5% of Total Investments)				
8,700	North Carolina Medical Care Commission, Revenue Bonds, Maria Parham Medical Center, Series 2003, 5.375%, 10/01/33 – RAAI Insured	10/13 at 100.00	BB	7,149,660
Ohio – 0.7% (0.5% of Total Investments)				
65	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	BBB	54,506
710	5.875%, 6/01/30	6/17 at 100.00	BBB	560,517
685	5.750%, 6/01/34	6/17 at 100.00	BBB	512,668
1,570	5.875%, 6/01/47	6/17 at 100.00	BBB	1,112,738
3,030	Total Ohio			2,240,429
Oklahoma – 0.3% (0.2% of Total Investments)				
1,000	Oklahoma Capitol Improvement Authority, State Facilities Revenue Bonds, Series 2005F, 5.000%, 7/01/24 – AMBAC Insured	7/15 at 100.00	AA	1,048,319
Oregon – 2.5% (1.7% of Total Investments)				
8,350	Oregon Health Sciences University, Revenue Bonds, Series 2002A, 5.000%, 7/01/32 – NPFPG Insured	1/13 at 100.00	A1	8,261,907
Pennsylvania – 7.2% (5.0% of Total Investments)				
3,000	Lehigh County General Purpose Authority, Pennsylvania, Hospital Revenue Bonds, St. Luke's Hospital of Bethlehem, Series 2003, 5.375%, 8/15/33 (Pre-refunded 8/15/13)	8/13 at 100.00	AAA	3,431,610
3,500			AAA	2,724,085

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	Pennsylvania Turnpike Commission, Turnpike Subordinate Revenue Bonds, Series 2009C, 0.000%, 6/01/33 – AGM Insured	6/26 at 100.00		
2,000	Philadelphia Gas Works, Pennsylvania, Revenue Bonds, General Ordinance, Fourth Series 1998, 5.000%, 8/01/32 – AGM Insured	8/13 at 100.00	AAA	2,004,420
925	Philadelphia, Pennsylvania, Water and Wastewater Revenue Bonds, Series 1997A, 5.125%, 8/01/27 – AMBAC Insured (ETM)	10/10 at 100.00	A1 (4)	952,056
13,000	State Public School Building Authority, Pennsylvania, Lease Revenue Bonds, Philadelphia School District, Series 2003, 5.000%, 6/01/33 (Pre-refunded 6/01/13) – AGM Insured	6/13 at 100.00	AAA	14,610,310
22,425	Total Pennsylvania			23,722,481
	Puerto Rico – 0.7% (0.5% of Total Investments)			
1,000	Puerto Rico Electric Power Authority, Power Revenue Bonds, Series 2002II, 5.125%, 7/01/26 (Pre-refunded 7/01/12) – AGM Insured	7/12 at 101.00	AAA	1,101,910
10,350	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, Series 2007A, 0.000%, 8/01/43 – NPPFG Insured	No Opt. Call	Aa2	1,350,882
11,350	Total Puerto Rico			2,452,792
	South Carolina – 5.6% (3.9% of Total Investments)			
5,000	Florence County, South Carolina, Hospital Revenue Bonds, McLeod Regional Medical Center, Series 2004A, 5.250%, 11/01/23 – AGM Insured	11/14 at 100.00	AAA	5,254,250
	Greenville County School District, South Carolina, Installment Purchase Revenue Bonds, Series 2003:			
3,000	5.000%, 12/01/22 (UB)	12/13 at 100.00	AA	3,137,790
1,785	5.000%, 12/01/23 (UB)	12/13 at 100.00	AA	1,859,506
8,000	South Carolina Transportation Infrastructure Bank, Revenue Bonds, Series 2002A, 5.000%, 10/01/33 – AMBAC Insured	10/12 at 100.00	Aa3	8,101,120
17,785	Total South Carolina			18,352,666
	Texas – 7.4% (5.1% of Total Investments)			
	Grand Prairie Independent School District, Dallas County, Texas, General Obligation Bonds, Series 2003:			
1,660	5.375%, 2/15/26 (Pre-refunded 2/15/13) – AGM Insured	2/13 at 100.00	AAA	1,860,312
12,500	5.125%, 2/15/31 (Pre-refunded 2/15/13) – AGM Insured	2/13 at 100.00	AAA	13,929,625
2,000	Houston, Texas, First Lien Combined Utility System Revenue Bonds, Series 2004A, 5.250%, 5/15/25 – NPPFG Insured	5/14 at 100.00	AA	2,162,820
1,160	Houston, Texas, General Obligation Refunding Bonds, Series 2002, 5.250%, 3/01/20 – NPPFG Insured	3/12 at 100.00	AA	1,229,832
4,355			AA (4)	4,687,025

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	Houston, Texas, General Obligation Refunding Bonds, Series 2002, 5.250%, 3/01/20 (Pre-refunded 3/01/12) – NPMFG Insured	3/12 at 100.00		
465	Katy Independent School District, Harris, Fort Bend and Waller Counties, Texas, General Obligation Bonds, Series 2002A, 5.125%, 2/15/18	2/12 at 100.00	AAA	499,257
22,140	Total Texas			24,368,871
	Virginia – 0.5% (0.3% of Total Investments)			
1,500	Hampton, Virginia, Revenue Bonds, Convention Center Project, Series 2002, 5.125%, 1/15/28 – AMBAC Insured	1/13 at 100.00	Aa3	1,529,955
	Washington – 9.4% (6.5% of Total Investments)			
4,945	Broadway Office Properties, King County, Washington, Lease Revenue Bonds, Washington Project, Series 2002, 5.000%, 12/01/31 – NPMFG Insured	12/12 at 100.00	AAA	5,030,796
5,250	Chelan County Public Utility District 1, Washington, Hydro Consolidated System Revenue Bonds, Series 2002C, 5.125%, 7/01/33 – AMBAC Insured	7/12 at 100.00	AA	5,327,805
5,000	King County, Washington, Sewer Revenue Bonds, Series 2006-2, 13.163%, 1/01/26 – AGM Insured (IF)	1/17 at 100.00	AAA	5,819,600
2,135	Kitsap County Consolidated Housing Authority, Washington, Revenue Bonds, Bremerton Government Center, Series 2003, 5.000%, 7/01/23 – NPMFG Insured	7/13 at 100.00	Aa3	2,198,559
1,935	Pierce County School District 343, Dieringer, Washington, General Obligation Refunding Bonds, Series 2003, 5.250%, 12/01/17 – FGIC Insured	6/13 at 100.00	Aa1	2,154,100
9,670	Washington State, General Obligation Bonds, Series 2003D, 5.000%, 12/01/21 – NPMFG Insured	6/13 at 100.00	AA+	10,616,886
28,935	Total Washington			31,147,746
	West Virginia – 1.0% (0.7% of Total Investments)			
3,000	West Virginia State Building Commission, Lease Revenue Refunding Bonds, Regional Jail and Corrections Facility, Series 1998A, 5.375%, 7/01/21 – AMBAC Insured	No Opt. Call	N/R	3,354,900
	Wisconsin – 5.5% (3.8% of Total Investments)			
1,190	Sun Prairie Area School District, Dane County, Wisconsin, General Obligation Bonds, Series 2004C, 5.250%, 3/01/24 – AGM Insured	3/14 at 100.00	Aa2	1,325,529
4,605	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Franciscan Sisters of Christian Charity Healthcare Ministry, Series 2003A, 5.875%, 9/01/33 (Pre-refunded 9/01/13)	9/13 at 100.00	BBB+ (4)	5,314,124
3,000	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Meriter Hospital Inc., Series 1992A, 6.000%, 12/01/22 – FGIC Insured	No Opt. Call	A1	3,368,340
3,600	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Wheaton Franciscan Services Inc., Series 2003A, 5.125%, 8/15/33	8/13 at 100.00	BBB+	3,246,660
4,750	Wisconsin Health and Educational Facilities Authority, Revenue Refunding Bonds, Wausau	8/10 at 100.00	A	4,753,468

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	Hospital Inc., Series 1998A, 5.125%, 8/15/20 – AMBAC Insured	
17,145	Total Wisconsin	18,008,121
	\$	
479,015	Total Investments (cost \$457,038,444) – 144.7%	477,178,159
	Floating Rate Obligations – (4.0)%	(13,040,000)
	MuniFund Term Preferred Shares, at Liquidation Value – (25.2)% (5)	(83,000,000)
	Other Assets Less Liabilities – 4.9%	16,078,329
	Auction Rate Preferred Shares, at Liquidation Value – (20.4)% (5)	(67,375,000)
		\$
	Net Assets Applicable to Common Shares – 100%	329,841,488

Fair Value Measurements

In determining the value of the Fund's investments, various inputs are used. These inputs are 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 July 31, 2010:

	Level 1	Level 2	Level 3	Total
Investments:				
Municipal Bonds	\$ —	\$477,178,159	\$ -477,178,159	

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.

At July 31, 2010, the cost of investments was \$446,206,202.

Gross unrealized appreciation and gross unrealized depreciation of investments at July 31, 2010, were as follows:

Gross unrealized:	
Appreciation	\$25,771,110
Depreciation	(7,836,684)
Net unrealized appreciation (depreciation) of investments	\$17,934,426

The Fund intends to invest at least 80% of its net assets in municipal securities that are covered by insurance guaranteeing the timely payment of principal and interest.

- (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 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.
 - (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.
 - (5) MuniFund Term Preferred Shares and Auction Rate Preferred Shares, at Liquidation Value as a percentage of Total Investments are 17.4% and 14.2%, respectively.
- N/R Not rated.
- (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 Insured Tax-Free Advantage Municipal Fund

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

Date September 29, 2010

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 September 29, 2010

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

Date September 29, 2010