

NUVEEN INSURED CALIFORNIA TAX FREE ADVANTAGE MUNICIPAL FUND
Form N-Q
July 28, 2006

**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 811-21212

Nuveen Insured California Tax-Free Advantage Municipal Fund

(Exact name of registrant as specified in charter)

333 West Wacker Drive, Chicago, Illinois 60606

(Address of principal executive offices) (Zip code)

Jessica R. Droeger 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: 8/31

Date of reporting period: 5/31/06

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (§§ 239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after the close of the first and third fiscal quarters, pursuant to rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270.30b1-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget (OMB) control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to the Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.

Item 1. Schedule of Investments

Portfolio of Investments (Unaudited)

Nuveen Insured California Tax-Free Advantage Municipal Fund (NKX)

May 31, 2006

**Principal
Amount (000) Description (1)**

**Options
Ca
Provisions (2)**

Consumer Staples □ 2.2% (1.5% of Total Investments)

\$	1,625	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Revenue Bonds, Series 2003A-2, 7.900%, 6/01/42	6/13 at 100.0
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Health Care □ 13.0% (8.6% of Total Investments)

1,500	California Health Facilities Financing Authority, Revenue Bonds, UCSF □ Stanford Healthcare, Series 1998A, 5.000%, 11/15/31 □ FSA Insured	11/08 at 101.0
1,800	California Infrastructure Economic Development Bank, Revenue Bonds, Kaiser Hospital Assistance LLC, Series 2001A, 5.550%, 8/01/31	8/11 at 102.0
2,000	California Statewide Community Development Authority, Hospital Revenue Bonds, Monterey Peninsula Hospital, Series 2003B, 5.250%, 6/01/23 □ FSA Insured	6/13 at 100.0
4,060	California Statewide Community Development Authority, Revenue Bonds, Sherman Oaks Health System, Series 1998A, 5.000%, 8/01/22 □ AMBAC Insured	No Opt. Ca
1,260	Rancho Mirage Joint Powers Financing Authority, California, Revenue Bonds, Eisenhower Medical Center, Series 2004, 5.875%, 7/01/26	7/14 at 100.0

10,620 Total Health Care

Housing/Multifamily □ 1.3% (1.0% of Total Investments)

1,165	Poway, California, Housing Revenue Bonds, Revenue Bonds, Poinsettia Mobile Home Park, Series 2003, 5.000%, 5/01/23	5/13 at 102.0
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Long-Term Care □ 5.8% (3.8% of Total Investments)

1,000	ABAG Finance Authority for Non-Profit Corporations, California, Insured Senior Living Revenue Bonds, Odd Fellows Home of California, Series 2003A, 5.200%, 11/15/22	11/12 at 100.0
2,000	California Health Facilities Financing Authority, Cal-Mortgage Insured Revenue Bonds, Northern California Retired Officers Community Corporation □ Paradise Valley Estates, Series 2002, 5.250%, 1/01/26	1/13 at 100.0
1,815	California Statewide Community Development Authority, Revenue Bonds, Jewish Home for the Aging, Series 2003, 5.000%, 11/15/18	11/13 at 100.0

4,815 Total Long-Term Care

Tax Obligation/General □ 48.0% (31.9% of Total Investments)

2,000	Butte-Glenn Community College District, Butte and Glenn Counties, California, General Obligation Bonds, Series 2002A, 5.000%, 8/01/26 □ MBIA Insured	8/12 at 101.0
1,000	5.125%, 2/01/27	2/14 at 100.0
500	5.250%, 4/01/34	4/14 at 100.0
	California, General Obligation Refunding Bonds, Series 2002:	
1,500	5.000%, 2/01/12	No Opt. Ca
3,750	5.000%, 4/01/27 □ AMBAC Insured	4/12 at 100.0
3,000	5.250%, 4/01/30 □ XLCA Insured	4/12 at 100.0
450	Fremont Unified School District, Alameda County, California, General Obligation Bonds, Series 2002A, 5.000%, 8/01/25 □ FGIC Insured	8/12 at 101.0
	Hacienda La Puente Unified School District, Los Angeles County, California, General Obligation Bonds, Series 2003B:	

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4,500	5.000%, 8/01/26 ☐ FSA Insured	8/13 at 100.0
2,030	5.000%, 8/01/27 ☐ FSA Insured	8/13 at 100.0
10,500	Los Angeles Unified School District, California, General Obligation Bonds, Series 2003A, 5.000%, 7/01/22 ☐ FSA Insured	7/13 at 100.0
2,000	Los Angeles, California, General Obligation Bonds, Series 2002A, 5.000%, 9/01/22 ☐ MBIA Insured	9/12 at 100.0
1,000	Murrieta Valley Unified School District, Riverside County, California, General Obligation Bonds, Series 2003A, 5.000%, 9/01/26 ☐ FGIC Insured	9/13 at 100.0
	Oakland Unified School District, Alameda County, California, General Obligation Bonds, Series 2005:	
190	5.000%, 8/01/25 ☐ MBIA Insured	8/15 at 100.0
200	5.000%, 8/01/26 ☐ MBIA Insured	8/15 at 100.0
3,000	San Diego Unified School District, California, General Obligation Bonds, Election of 1998, Series 2000B, 5.125%, 7/01/22 ☐ MBIA Insured	7/10 at 100.0
	San Jose-Evergreen Community College District, Santa Clara County, California, General Obligation Bonds, Series 2005A:	
145	5.000%, 9/01/25 ☐ MBIA Insured	9/15 at 100.0
215	5.000%, 9/01/27 ☐ MBIA Insured	9/15 at 100.0
3,855	San Rafael City High School District, Marin County, California, General Obligation Bonds, Series 2003A, 5.000%, 8/01/28 ☐ FSA Insured	8/12 at 100.0

39,835 Total Tax Obligation/General

Tax Obligation/Limited ☐ 43.2% (28.7% of Total Investments)

550	Baldwin Park Public Financing Authority, California, Sales Tax and Tax Allocation Bonds, Puente Merced Redevelopment Project, Series 2003, 5.250%, 8/01/21	8/13 at 102.0
2,025	Burbank Public Financing Authority, California, Revenue Refunding Bonds, Golden State Redevelopment Project, Series 2003A, 5.250%, 12/01/22 ☐ AMBAC Insured	12/13 at 100.0
2,000	California State Public Works Board, Lease Revenue Bonds, Department of Corrections, Series 2003C, 5.500%, 6/01/16	12/13 at 100.0
4,000	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 100.0
1,610	Folsom Public Financing Authority, California, Special Tax Revenue Bonds, Series 2004A, 5.000%, 9/01/21 ☐ AMBAC Insured	9/12 at 102.0
130	Hesperia Community Redevelopment Agency, California, Tax Allocation Bonds, Series 2005A, 5.000%, 9/01/20 ☐ XLCA Insured	9/15 at 100.0
5,540	Irvine Public Facilities and Infrastructure Authority, California, Assessment Revenue Bonds, Series 2003C, 5.000%, 9/02/21 ☐ AMBAC Insured	9/06 at 103.0
1,770	Los Angeles Unified School District, California, Certificates of Participation, Administration Building Project II, Series 2002C, 5.000%, 10/01/27 ☐ AMBAC Insured	10/12 at 100.0
2,000	Los Angeles, California, Certificates of Participation, Municipal Improvement Corporation, Series 2003AW, 5.000%, 6/01/33 ☐ AMBAC Insured	6/13 at 100.0
1,500	Los Osos, California, Improvement Bonds, Community Services Wastewater Assessment District 1, Series 2002, 5.000%, 9/02/33 ☐ MBIA Insured	9/10 at 103.0
500	Paramount Redevelopment Agency, California, Tax Allocation Bonds, Redevelopment Project Area 1, Series 2003, 5.000%, 8/01/19 ☐ MBIA Insured	8/13 at 100.0
150	Rialto Redevelopment Agency, California, Tax Allocation Bonds, Merged Project Area, Series 2005A, 5.000%, 9/01/35 ☐ XLCA Insured	9/15 at 100.0
315	Riverside County Public Financing Authority, California, Tax Allocation Bonds, Multiple	10/15 at 100.0

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Projects, Series 2005A, 5.000%, 10/01/35 ☐ XLCA Insured

San Buenaventura, California, Certificates of Participation, Golf Course Financing Project,

Series 2002D:

3,000	5.000%, 2/01/27 ☐ AMBAC Insured	2/12 at 100.0
3,300	5.000%, 2/01/32 ☐ AMBAC Insured	2/12 at 100.0
1,200	San Diego Redevelopment Agency, California, Subordinate Lien Tax Increment and Parking Revenue Bonds, Centre City Project, Series 2003B, 5.250%, 9/01/26	9/09 at 101.0
2,770	San Jose Financing Authority, California, Lease Revenue Refunding Bonds, Civic Center Project, Series 2002B, 5.000%, 6/01/32 ☐ AMBAC Insured	6/12 at 100.0
1,220	San Jose Redevelopment Agency, California, Tax Allocation Bonds, Merged Area Redevelopment Project, Series 2002, 5.000%, 8/01/32 ☐ MBIA Insured	8/10 at 101.0
2,390	Solano County, California, Certificates of Participation, Series 2002, 5.250%, 11/01/24 ☐ MBIA Insured	11/12 at 100.0

35,970 Total Tax Obligation/Limited

Transportation ☐ 14.1% (9.4% of Total Investments)

5,480	Bay Area Governments Association, California, BART SFO Extension, Airport Premium Fare Revenue Bonds, Series 2002A, 5.000%, 8/01/26 ☐ AMBAC Insured	8/12 at 100.0
2,000	Foothill/Eastern Transportation Corridor Agency, California, Toll Road Revenue Bonds, Series 1995A, 5.000%, 1/01/35	1/10 at 100.0
1,300	San Francisco Airports Commission, California, Revenue Bonds, San Francisco International Airport, Second Series 2000, Issue 26B, 5.000%, 5/01/25 ☐ FGIC Insured	5/10 at 101.0
3,135	San Francisco Airports Commission, California, Revenue Bonds, San Francisco International Airport, Second Series Issue 16B, 5.000%, 5/01/24 ☐ FSA Insured	5/08 at 101.0

11,915 Total Transportation

U.S. Guaranteed ☐ 4.9% (3.2% of Total Investments) (4)

1,000	Berryessa Union School District, Santa Clara County, California, General Obligation Bonds, Series 2003C, 5.000%, 8/01/21 (Pre-refunded 8/01/12) ☐ FSA Insured	8/12 at 100.0
1,000	California Health Facilities Financing Authority, Revenue Bonds, Cedars-Sinai Medical Center, Series 1999A, 6.250%, 12/01/34 (Pre-refunded 12/01/09)	12/09 at 101.0
1,940	California Statewide Community Development Authority, Revenue Bonds, Sherman Oaks Health System, Series 1998A, 5.000%, 8/01/22 (Pre-refunded 8/01/08) ☐ AMBAC Insured	8/08 at 102.0

3,940 Total U.S. Guaranteed

Utilities ☐ 5.7% (3.8% of Total Investments)

1,000	Anaheim Public Finance Authority, California, Second Lien Electric Distribution Revenue Bonds, Series 2004, 5.250%, 10/01/21 ☐ MBIA Insured	10/14 at 100.0
3,055	Los Angeles Department of Water and Power, California, Power System Revenue Bonds, Series 2001A-1, 5.250%, 7/01/22 ☐ FSA Insured	7/11 at 100.0
275	Los Angeles Department of Water and Power, California, Power System Revenue Bonds, Series 2003A-2, 5.000%, 7/01/21 ☐ MBIA Insured	7/13 at 100.0
310	Merced Irrigation District, California, Electric System Revenue Bonds, Series 2005, 5.125%, 9/01/31 ☐ XLCA Insured	9/15 at 100.0

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4,640 Total Utilities

Water and Sewer □ 12.1% (8.1% of Total Investments)

215	Healdsburg Public Financing Authority, California, Wastewater Revenue Bonds, Series 2006, 5.000%, 4/01/36 (WI/DD, Settling 6/06/06) □ MBIA Insured	4/16 at 100.0
490	Los Angeles Department of Water and Power, California, Waterworks Revenue Bonds, Series 2006A-2, 5.000%, 7/01/27 □ AMBAC Insured	7/16 at 100.0
1,125	Manteca Financing Authority, California, Sewerage Revenue Bonds, Series 2003B, 5.000%, 12/01/33 □ MBIA Insured	12/13 at 100.0
	San Diego Public Facilities Financing Authority, California, Subordinate Lien Water Revenue Bonds, Series 2002:	
3,000	5.000%, 8/01/22 □ MBIA Insured	8/12 at 100.0
2,500	5.000%, 8/01/23 □ MBIA Insured	8/12 at 100.0
1,180	South Feather Water and Power Agency, California, Water Revenue Certificates of Participation, Solar Photovoltaic Project, Series 2003, 5.375%, 4/01/24	4/13 at 100.0
1,600	Sunnyvale Financing Authority, California, Water and Wastewater Revenue Bonds, Series 2001, 5.000%, 10/01/26 □ AMBAC Insured	10/11 at 100.0

10,110 Total Water and Sewer

\$ 124,635 Total Investments (cost \$125,369,246) □ 150.3%

Other Assets Less Liabilities □ 1.9%

Preferred Shares, at Liquidation Value □ (52.2)%

Net Assets Applicable to Common Shares □ 100%

At least 80% of the Fund's net assets (including net assets attributable to Preferred shares) are invested in municipal securities that are either covered by Original Issue Insurance, Secondary Market Insurance or Portfolio Insurance which ensures the timely payment of principal and interest. Up to 20% of the Fund's net assets (including net assets attributable to Preferred shares) may be invested in municipal securities that are (i) either backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities (also ensuring the timely payment of principal and interest), or (ii) rated, at the time of investment, within the four highest grades (Baa or BBB or better by Moody's, S&P or Fitch) or unrated but judged to be of comparable quality by the Adviser.

- (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 higher of Standard & Poor's or Moody's rating. Ratings below BBB by Standard & Poor's Group or Baa by Moody's Investor Service, Inc. 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.

W/DD Purchased on a when-issued or delayed delivery basis.

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 the treatment of paydown gains and losses, timing differences in recognizing taxable market discount and timing differences in recognizing certain gains and losses on investment transactions.

At May 31, 2006, the cost of investments was \$126,332,412.

Gross unrealized appreciation and gross unrealized depreciation of investments at May 31, 2006, were as follows:

Gross unrealized:	
Appreciation	\$4,130,520
Depreciation	(1,019,225)
<hr/>	
Net unrealized appreciation (depreciation) of investments	\$3,111,295

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: 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 California Tax-Free Advantage Municipal Fund

By (Signature and Title)* /s/ Jessica R. Droeger
 Jessica R. Droeger
 Vice President and Secretary

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Date July 28, 2006

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 28, 2006

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

Date July 28, 2006

* Print the name and title of each signing officer under his or her signature.