

BLACKROCK MUNIYIELD CALIFORNIA INSURED FUND, INC  
Form N-Q  
June 28, 2010  
UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

**FORM N-Q**

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMPANY**

Investment Company Act file number 811-06692

Name of Fund: BlackRock MuniYield California Insured Fund, Inc. (MCA)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: Anne F. Ackerley, Chief Executive Officer, BlackRock MuniYield California Insured Fund, Inc., 55 East 52<sup>nd</sup> Street, New York, NY 10055.

Registrant's telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 07/31/2010

Date of reporting period: 04/30/2010

Item 1 – Schedule of Investments

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Schedule of Investments April 30, 2010 (Unaudited)

**BlackRock MuniYield California Insured Fund, Inc. (MCA)**  
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
<b>California 109.3%</b>		
<b>Corporate 0.5%</b>		
City of Chula Vista California, Refunding RB, San Diego Gas & Electric, Series A, 5.88%, 2/15/34	\$ 2,435	\$ 2,684,247
<b>County/City/Special District/School District 61.4%</b>		
Arcadia Unified School District California, GO, Election of 2006, Series A (AGM), 5.00%, 8/01/37	9,000	9,159,210
Banning Unified School District California, GO, Election of 2006, Series B (AGC), 5.25%, 8/01/33	4,300	4,427,280
Bay Area Governments Association, Refunding RB, California Redevelopment Agency Pool, Series A (AGM), 6.00%, 12/15/24	255	256,448
Brentwood Infrastructure Financing Authority California, Special Assessment Bonds, Refunding, Series A (AGM), 5.20%, 9/02/29	3,980	4,027,720
Central Unified School District, GO, Election of 2008, Series A (AGC), 5.50%, 8/01/29	2,000	2,168,760
Chabot-Las Positas Community College District California, GO, CAB, Election of 2004, Series 4-B (AMBAC), 5.17%, 8/01/26 (a)	6,705	2,598,590
Chino Basin Desalter Authority, Refunding RB, Series A (AGC), 5.00%, 6/01/35	1,195	1,201,262
Chino Valley Unified School District, GO, Election of 2002, Series C (NPFGC), 5.25%, 8/01/30	3,000	3,050,640
Chula Vista Elementary School District California, COP (NPFGC), 5.00%, 9/01/29	3,060	2,942,404
City of Riverside California, COP (AMBAC), 5.00%, 9/01/28	3,000	3,016,260
City of San Jose California, GO, Libraries, Parks, and Public Safety Project (NPFGC), 5.00%, 9/01/27	7,910	8,221,970
County of Kern California, COP, Capital Improvements Projects, Series A (AGC), 6.00%, 8/01/35	2,000	2,217,960
Desert Community College District California, GO, Series C (AGM), 5.00%, 8/01/37	12,150	12,326,175

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Municipal Bonds	Par (000)	Value
<b>California (continued)</b>		
<b>County/City/Special District/School District (continued)</b>		
Fairfield-Suisun Unified School District California, GO, Election of 2002 (NPFGC), 5.50%, 8/01/28	\$ 2,500	\$ 2,635,975
Fontana Unified School District California, GO, Series A (AGM), 5.25%, 8/01/31	3,000	3,125,310
Fremont Unified School District Alameda County California, GO, Series A (NPFGC), 5.50%, 8/01/26	10,755	11,354,376
Fresno Joint Powers Financing Authority California, RB, Series A (AGM), 5.75%, 6/01/26	3,295	3,393,158
Glendora Unified School District California, GO, Election of 2005, Series A (NPFGC): 5.00%, 8/01/27	1,350	1,422,428
5.25%, 8/01/30	2,730	2,878,348
Hemet Unified School District California, GO, Election of 2006, Series B (AGC), 5.13%, 8/01/37	4,500	4,586,085
Imperial Community College District California, GO, Election of 2004 (NPFGC), 5.00%, 8/01/29	3,090	3,115,307
Lodi Unified School District California, GO, Election of 2002 (AGM), 5.00%, 8/01/29	10,260	10,397,381
Los Angeles Community Redevelopment Agency California, RB, Bunker Hill Project, Series A (AGM), 5.00%, 12/01/27	10,000	10,113,800
Los Angeles County Metropolitan Transportation Authority, Refunding RB, Proposition A, First Tier, Senior Series A (AMBAC): 5.00%, 7/01/27	5,240	5,519,764
5.00%, 7/01/35	6,825	7,059,916
Los Angeles County Public Works Financing Authority, Refunding RB, Series A (NPFGC), 5.00%, 12/01/28	4,115	3,988,916
Los Angeles Unified School District California, GO: Election of 2002, Series C (AGM), 5.00%, 7/01/32	10,000	10,198,500
Election of 2004, Series F (FGIC), 5.00%, 7/01/30	5,000	5,116,850

**Portfolio Abbreviations**

To simplify the listings of portfolio holdings in the Schedule of Investments, the names and descriptions of many of the securities have been abbreviated according to the following list:

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AGC	Assured Guaranty Corp.
AGM	Assured Guaranty Municipal Corp.
AMBAC	American Municipal Bond Assurance Corp.
AMT	Alternative Minimum Tax (subject to)
BHAC	Berkshire Hathaway Assurance Corp.
CAB	Capital Appreciation Bonds
COP	Certificates of Participation
FGIC	Financial Guaranty Insurance Co.
GNMA	Government National Mortgage Association
GO	General Obligation Bonds
NPFGC	National Public Finance Guarantee Corp.
RB	Revenue Bonds

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BLACKROCK MUNIYIELD CALIFORNIA INSURED FUND, INC.

APRIL 30, 2010

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## Schedule of Investments (continued)

BlackRock MuniYield California Insured Fund, Inc. (MCA)  
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
<b>California (continued)</b>		
<b>County/City/Special District/School District (continued)</b>		
Merced Community College District California, GO, School Facilities Improvement District No. 1 (NPFGC), 5.00%, 8/01/31	\$ 6,850	\$ 6,871,372
Murrieta Valley Unified School District Public Financing Authority, Special Tax Bonds, Refunding, Series A (AGC), 5.13%, 9/01/26	8,000	8,416,560
Orange County Water District, COP, Refunding, 5.25%, 8/15/34	9,045	9,605,971
Orchard School District California, GO, Election of 2001, Series A (AGC), 5.00%, 8/01/34	7,490	7,656,503
Oxnard Union High School District California, GO, Refunding, Series A (NPFGC), 6.20%, 8/01/30	9,645	10,357,862
Peralta Community College District California, GO, Peralta Community College (AGM), 5.00%, 8/01/37	6,195	6,311,466
Pittsburg Unified School District, GO, Election of 2006, Series B (AGM): 5.50%, 8/01/34	2,000	2,116,660
5.63%, 8/01/39	4,500	4,810,230
Port of Oakland, Refunding RB, Series M, AMT (NPFGC), 5.38%, 11/01/27	16,930	16,582,427
Redlands Unified School District California, GO, Election of 2008 (AGM), 5.25%, 7/01/33	5,000	5,146,850
Riverside Unified School District California, GO, Series C (AGC), 5.00%, 8/01/32	5,010	5,090,911
Saddleback Valley Unified School District California, GO (AGM), 5.00%, 8/01/29	2,565	2,623,918
San Bernardino City Unified School District California, GO, Series A (AGM), 5.00%, 8/01/28	5,000	5,116,800
San Bernardino Community College District California, GO, Election of 2002, Series C (AGM), 5.00%, 8/01/31	7,500	7,677,225
San Diego County Water Authority, COP, Refunding, Series 2008-A (AGM), 5.00%, 5/01/38	1,090	1,121,120

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San Francisco Bay Area Transit Financing Authority, Refunding RB, Series A (NPFGC), 5.00%, 7/01/34	10,500	10,685,745
San Jose Financing Authority, Refunding RB, Civic Center Project, Series B (AMBAC), 5.00%, 6/01/32	11,400	11,439,786

Municipal Bonds	Par (000)	Value
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**California (continued)**

**County/City/Special District/School District (concluded)**

San Jose Redevelopment Agency California, Tax Allocation Bonds, Housing Set Aside Merged Area, Series E, AMT (NPFGC), 5.85%, 8/01/27	\$ 7,300	\$ 7,310,074
San Juan Unified School District California, GO, Election of 2002 (NPFGC), 5.00%, 8/01/28	4,250	4,324,928
San Mateo County Transportation District California, Refunding RB, Series A (NPFGC), 5.00%, 6/01/29	4,350	4,534,005
Santa Rosa High School District California, GO, Election of 2002 (NPFGC), 5.00%, 8/01/28	2,500	2,518,450
Snowline Joint Unified School District, COP, Refunding, Refining Project (AGC), 5.75%, 9/01/38	5,600	6,191,416
South Tahoe Joint Powers Financing Authority, RB, South Tahoe Redevelopment Project Area No. 1, Series A (AGM), 5.00%, 10/01/29	1,645	1,654,640
Ventura County Community College District, GO, Refunding, Series A (NPFGC), 5.00%, 8/01/27	3,395	3,530,562
Vista Unified School District California, GO, Series B (NPFGC), 5.00%, 8/01/28	2,550	2,594,957
West Contra Costa Unified School District California, GO, Election of 2002, Series B (AGM), 5.00%, 8/01/32	6,690	6,704,986
Westminster Redevelopment Agency California, Tax Allocation Bonds, Subordinate, Commercial Redevelopment Project No. 1 (AGC), 6.25%, 11/01/39	4,300	4,900,581
		306,416,798

**Education 6.2%**

California Educational Facilities Authority, RB, Student Loan, CalEdge Loan Program, AMT (AMBAC), 5.55%, 4/01/28	5,830	5,649,678
County of San Diego California, COP (NPFGC), 5.75%, 7/01/31	5,200	5,244,824

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Riverside Community College District, GO, Election of 2004, Series C (AGM), 5.00%, 8/01/32	8,750	8,957,725
University of California, RB, Limited Project, Series D (AGM): 5.00%, 5/15/37	2,775	2,824,367
5.00%, 5/15/41	8,000	8,104,000
		<hr/>
		30,780,594

## Schedule of Investments (continued)

BlackRock MuniYield California Insured Fund, Inc. (MCA)  
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
<b>California (continued)</b>		
<b>Health 2.6%</b>		
California Health Facilities Financing Authority, Refunding RB, Catholic Healthcare West, Series A:		
6.00%, 7/01/34	\$ 2,130	\$ 2,291,454
6.00%, 7/01/39	5,500	5,895,945
California Statewide Communities Development Authority, RB, Health Facility, Memorial Health Services, Series A, 6.00%, 10/01/23	3,685	3,844,745
California Statewide Communities Development Authority, Refunding RB, Catholic Healthcare West, Series D (BHAC), 5.50%, 7/01/31	1,000	1,050,010
		<u>13,082,154</u>
<b>Housing 0.1%</b>		
California Rural Home Mortgage Finance Authority, RB, AMT, Mortgage-Backed Securities Program (GNMA):		
Series A, 6.35%, 12/01/29	155	165,630
Series B, 6.25%, 12/01/31	85	85,921
County of San Bernardino California, Refunding RB, Home Mortgage-Backed Securities, Series A-1, AMT (GNMA), 6.25%, 12/01/31	140	143,682
		<u>395,233</u>
<b>State 4.1%</b>		
California State Public Works Board, RB, Department of Education, Riverside Campus Project, Series B, 6.50%, 4/01/34	3,500	3,769,500
State of California, GO, Various Purpose:		
6.00%, 3/01/33	5,000	5,503,550
6.50%, 4/01/33	9,875	11,195,979
		<u>20,469,029</u>
<b>Transportation 11.5%</b>		
City of San Jose California, RB, Series D (NPFGC), 5.00%, 3/01/28	4,575	4,576,281



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County of Orange California, RB, Series B, 5.75%, 7/01/34	5,000	5,431,650
County of Sacramento California, RB, Subordinated and PFC/Grant, Series C (AGC), 5.75%, 7/01/39	4,880	5,234,190
Los Angeles Department of Airports, Refunding RB, Senior, Los Angeles International Airport, Series A, 5.00%, 5/15/40	8,770	8,936,279
Port of Oakland, RB, Series K, AMT (NPFGC): 5.88%, 5/01/10 (b)	20	20,003
5.75%, 11/01/29	11,405	11,404,316

Municipal Bonds	Par (000)	Value
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**California (continued)**

**Transportation (concluded)**

San Francisco City & County Airports Commission, RB: Series E, 6.00%, 5/01/39	\$ 9,650	\$ 10,584,506
Special Facility Lease, SFO Fuel, Series A, AMT (AGM), 6.10%, 1/01/20	1,000	1,001,360
Special Facility Lease, SFO Fuel, Series A, AMT (AGM), 6.13%, 1/01/27	985	985,837
San Francisco City & County Airports Commission, Refunding RB, Second Series 34E, AMT (AGM): 5.75%, 5/01/24	5,000	5,316,000
5.75%, 5/01/25	3,500	3,702,125
		57,192,547

**Utilities 22.9%**

City of Glendale California, RB (NPFGC), 5.00%, 2/01/32	4,390	4,425,559
City of Napa California, RB (AMBAC), 5.00%, 5/01/35	9,070	9,279,608
City of Oakland California, RB, Series A (AGM), 5.00%, 6/15/29	4,270	4,349,337
City of Santa Clara California, RB, Sub-Series A (NPFGC), 5.00%, 7/01/28	5,500	5,541,250
Contra Costa Water District, Refunding RB: Series L, (AGM), 5.00%, 10/01/32	4,135	4,230,436
Series O, (AMBAC), 5.00%, 10/01/24	1,735	1,848,243
East Bay Municipal Utility District, RB (NPFGC): Series A, 5.00%, 6/01/37	6,500	6,783,205
Sub-Series A, 5.00%, 6/01/35	15,000	15,516,150
East Bay Municipal Utility District, Refunding RB, Sub-Series A (AMBAC): 5.00%, 6/01/33	4,100	4,306,763

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5.00%, 6/01/37	7,985	8,332,906
El Centro Financing Authority California, RB, Series A (AGM), 5.25%, 10/01/35	1,100	1,101,727
Los Angeles Department of Water & Power, RB:		
Power System, Sub-Series A-1, (AMBAC), 5.00%, 7/01/37	5,025	5,161,680
System, Sub-Series A-2 (AGM), 5.00%, 7/01/35	7,500	7,695,525
Metropolitan Water District of Southern California, RB, Series B-1 (NPFGC), 5.00%, 10/01/33	7,175	7,323,738
Oxnard Financing Authority, RB, Redwood Trunk Sewer & Headworks, Series A (NPFGC), 5.25%, 6/01/34	13,000	13,094,250

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BLACKROCK MUNIYIELD CALIFORNIA INSURED FUND, INC.

APRIL 30, 2010

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## Schedule of Investments (continued)

BlackRock MuniYield California Insured Fund, Inc. (MCA)  
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
<b>California (concluded)</b>		
<b>Utilities (concluded)</b>		
Sacramento Regional County Sanitation District, RB, Sacramento Regional County Sanitation (NPFGC), 5.00%, 12/01/27	\$ 7,070	\$ 7,366,869
San Diego County Water Authority, COP, Series A (AGM), 5.00%, 5/01/31	3,000	3,067,860
Turlock Public Financing Authority California, RB, Series A (NPFGC), 5.00%, 9/15/33	3,000	3,038,820
Vallecitos Water District California, COP, Refunding, Series A (AGM), 5.00%, 7/01/27	2,000	2,068,000
		<u>114,531,926</u>
<b>Total Municipal Bonds 109.3%</b>		<b>545,552,528</b>

**Municipal Bonds Transferred to Tender  
Option Bond Trusts (c)****California 42.1%****Corporate 5.6%**

San Francisco Bay Area Rapid Transit District, Refunding RB, Series A (NPFGC), 5.00%, 7/01/30	19,630	20,177,285
University of California, RB, Series L, 5.00%, 5/15/40	7,398	7,587,638
		<u>27,764,923</u>

**County/City/Special District/School District 17.6%**

City of Long Beach California, RB, Series A, AMT, 5.38%, 5/15/24	15,150	15,308,015
Fremont Unified School District Alameda County California, GO, Election of 2002, Series B (AGM), 5.00%, 8/01/30	5,997	6,144,000
Los Angeles Community College District California, GO, Series A:		

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Election of 2001, (AGM), 5.00%, 8/01/32	12,000	12,284,880
Election of 2001, Series A (NPFGC), 5.00%, 8/01/32	20,000	20,450,000
Election of 2008, 6.00%, 8/01/33 Los Angeles Unified School District California, GO, Series I, 5.00%, 1/01/34	9,596	10,759,838
Poway Unified School District, GO, Election of 2002, Improvement District 02, Series 1-B (AGM), 5.00%, 8/01/30	5,000	5,088,000
	10,000	10,247,300

**Municipal Bonds Transferred to Tender  
Option Bond Trusts (c)**

**Par  
(000)**

**Value**

**California (concluded)**

**County/City/Special District/School District (concluded)**

San Diego County Water Authority, COP, Series A (AGM), 5.00%, 5/01/30	\$ 7,350	\$ 7,539,483
		<u>87,821,516</u>

**Education 5.0%**

California State University, RB, Systemwide, Series A (AGM), 5.00%, 11/01/39	4,860	4,914,286
Los Angeles Community College District California, GO, Election of 2003, Series E (AGM), 5.00%, 8/01/31	7,497	7,674,613
University of California, RB, Series O, 5.75%, 5/15/34	11,190	12,564,020
		<u>25,152,919</u>

**Utilities 13.9%**

Anaheim Public Financing Authority California, RB, Electric System Distribution Facilities, Series A (AGM), 5.00%, 10/01/31	3,568	3,588,165
Los Angeles Department of Water & Power, RB, Power System, Sub-Series A-1 (AGM), 5.00%, 7/01/31	5,007	5,170,570
Los Angeles Department of Water & Power, Refunding RB, Power System, Sub-Series A-2 (NPFGC), 5.00%, 7/01/27	16,000	16,541,120
Metropolitan Water District of Southern California, RB, Series A, 5.00%, 7/01/37	15,000	15,669,300
Rancho Water District Financing Authority, Refunding RB, Series A (AGM), 5.00%, 8/01/34	9,277	9,490,192
San Diego County Water Authority, COP, Refunding, Series 2008-A (AGM), 5.00%, 5/01/33	8,510	8,776,023
	10,000	10,226,200

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San Diego County Water Authority, COP,  
Series A (AGM), 5.00%, 5/01/31

69,461,570

**Total Municipal Bonds Transferred to  
Tender Option Bond Trusts 42.1%**

210,200,928

**Total Long-Term Investments  
(Cost \$743,169,191) 151.4%**

755,753,456

**Short-Term Securities**

**Shares**

CMA California Municipal Money Fund,  
0.04% (d)(e)

9,441,523

9,441,523

**Total Short-Term Securities  
(Cost \$9,441,523) 1.9%**

9,441,523

Schedule of Investments (concluded)

**BlackRock MuniYield California Insured Fund, Inc. (MCA)**  
(Percentages shown are based on Net Assets)

	Value
<b>Total Investments</b>	
(Cost \$752,610,714*) 153.3%	\$ 765,194,979
<b>Other Assets Less Liabilities</b> 1.8%	8,854,414
<b>Liability for Trust Certificates, Including Interest Expense and Fees Payable</b> (21.7)%	(108,372,767)
<b>Preferred Shares, at Redemption Value</b> (33.4)%	(166,550,073)
<b>Net Assets Applicable to Common Shares</b> 100.0%	<u>\$ 499,126,553</u>

\* The cost and unrealized appreciation (depreciation) of investments as of April 30, 2010, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 648,514,018
Gross unrealized appreciation	\$ 16,413,772
Gross unrealized depreciation	(8,008,280)
Net unrealized appreciation	<u>\$ 8,405,492</u>

- (a) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (b) US government securities, held in escrow, are used to pay interest on this security as well as to retire the bond in full at the date indicated, typically at a premium to par.
- (c) Securities represent bonds transferred to a tender option bond trust in exchange for which the Fund acquired residual interest certificates. These securities serve as collateral in a financing transaction.
- (d) Investments in companies considered to be an affiliate of the Fund during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, were as follows:

Affiliate	Shares Held at July 31, 2009	Net Activity	Shares Held at April 30, 2010	Income
CMA California Municipal Money Fund	21,941,944	(12,500,421)	9,441,523	\$ 3,545

(e) Represents the current yield as of report date.

Fair Value Measurements - Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 price quotations in active markets/exchanges for identical assets and liabilities

Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Fund's own assumptions used in determining the fair value of investments)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with investing in those securities. For information about the Fund's policy regarding valuation of investments and other significant accounting policies, please refer to the Fund's most recent financial statements as contained in its semi-annual report.

The following table summarizes the inputs used as of April 30, 2010 in determining the fair valuation of the Fund's investments:

Investments in Securities				
Valuation Inputs	Level 1	Level 2	Level 3	Total
<b>Assets:</b>				
Long-Term Investments <sup>1</sup>		\$ 755,753,456		\$ 755,753,456
Short-Term Securities	\$ 9,441,523			9,441,523
<b>Total</b>	<b>\$ 9,441,523</b>	<b>\$ 755,753,456</b>		<b>\$ 765,194,979</b>

<sup>1</sup> See above Schedule of Investments for value in each sector.

Item 2 – Controls and Procedures

2(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")) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13(a)-15(b) under the Securities Exchange Act of 1934, as amended.

2(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) 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

Certifications – Attached hereto

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.

BlackRock MuniYield California Insured Fund, Inc.

By: /s/ Anne F. Ackerley  
Anne F. Ackerley  
Chief Executive Officer of  
BlackRock MuniYield California Insured Fund, Inc.

Date: June 28, 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: /s/ Anne F. Ackerley  
Anne F. Ackerley  
Chief Executive Officer (principal executive officer) of  
BlackRock MuniYield California Insured Fund, Inc.

Date: June 28, 2010

By: /s/ Neal J. Andrews  
Neal J. Andrews  
Chief Financial Officer (principal financial officer) of  
BlackRock MuniYield California Insured Fund, Inc.

Date: June 28, 2010



