

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 26, 2007

PAGE 1
000 B000000 05/31/2007
000 C000000 0000899782
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 A
001 A000000 NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND
001 B000000 811-07616
001 C000000 3129178200
002 A000000 333 WEST WACKER DRIVE
002 B000000 CHICAGO
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002 D010000 60606
002 D020000 1286
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007 C010600 6
007 C010700 7
007 C010800 8
007 C010900 9
007 C011000 10
008 A000001 NUVEEN ASSET MANAGEMENT
008 B000001 A
008 C000001 801-14147
008 D010001 CHICAGO
008 D020001 IL
008 D030001 60606
008 D040001 1286
012 A000001 EQUISERVE INC.
012 B000001 84-05925
012 C010001 PROVIDENCE
012 C020001 RI
012 C030001 02940
013 A000001 ERNST & YOUNG LLP
013 B010001 CHICAGO
013 B020001 IL
013 B030001 60606
014 A000001 NUVEEN INVESTMENTS, LLC
014 B000001 8-13464
PAGE 2
015 A000001 STATE STREET BANK AND TRUST COMPANY
015 B000001 C
015 C010001 BOSTON
015 C020001 MA
015 C030001 02110
015 E010001 X

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018 000000 Y
 019 A000000 Y
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 022 B000001 13-2655998
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 022 A000002 A.G. EDWARDS INC
 022 B000002 43-0895447
 022 C000002 1120
 022 D000002 2130
 022 A000003 GEORGE K. BAUM & CO.
 022 B000003 44-0522232
 022 C000003 2000
 022 D000003 623
 022 A000004 STIFEL, NICOLAUS & CO
 022 B000004 43-0538770
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 022 D000004 1845
 022 A000005 RBC DOMINION
 022 B000005 13-5033225
 022 C000005 1091
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 022 B000006 43-1326319
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 022 A000007 RYAN, BECK & CO
 022 B000007 22-1773796
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 022 A000008 JANNEY MONTGOMERY
 022 B000008 23-2211143
 PAGE 3
 022 C000008 0
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 022 C000009 728
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 023 D000000 10046
 024 000000 N
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042 H000000 0
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PAGE 5
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068 B000000 N
069 000000 N
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071 B000000 7803
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 072 A000000 12
 072 B000000 2513

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 072CC020000 541
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 072DD020000 0
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 074 P000000 27

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074 Q000000 0
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074	T000000	32826
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078	000000	N
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087	A030000	NOM
088	A000000	N
088	B000000	N
088	C000000	N
	PAGE	9
088	D000000	Y
SIGNATURE	STEPHEN D. FOY	
TITLE	V.P. & CONTROLLER	