

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 29, 2008

PAGE 1
000 B000000 05/31/2008
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
002 C000000 IL
002 D010000 60606
002 D020000 1286
003 000000 N
004 000000 N
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007 C010300 3
007 C010400 4
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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
 019 B000000 186
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 022 B000001 13-2728032
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 022 B000002 41-0953246
 022 C000002 484
 022 D000002 430
 022 A000003 GEORGE K. BAUM & CO
 022 B000003 44-0522232
 022 C000003 516
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 022 A000004 ZIEGLER SECURITIES
 022 B000004 39-0727640
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 022 B000005 13-3214963
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 022 A000007 BOSC INC
 022 B000007 73-1275307
 022 C000007 251
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 022 A000008 A.G. EDWARDS INC
 022 B000008 43-0895447
 PAGE 3
 022 C000008 0
 022 D000008 242
 022 A000009 STIFEL, NICOLAUS & CO
 022 B000009 43-0538770
 022 C000009 178
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 023 C000000 2253
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 025 D000001 0
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044 000000 0
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048 J020000 0.000
PAGE 5
048 K010000 0
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053 A000000 N
054 A000000 Y
054 B000000 N
054 C000000 N
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063	B000000	9.5

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070	Q020000	N
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070	R020000	N
071	A000000	2253
071	B000000	3088
071	C000000	49174

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071 D000000	5
072 A000000	12
072 B000000	2533
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072 S000000	1
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074 S000000	16000

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074	T000000	31170
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080	A000000	CHUBB GROUP OF INSURANCE COMPANIES
080	B000000	AIG, GREAT AMERICAN, ST. PAUL & CNA
080	C000000	110000
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081	B000000	185
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087	A020000	67060Q108
087	A030000	NOM
088	A000000	N
088	B000000	N
088	C000000	N
088	D000000	Y

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SIGNATURE STEPHEN D. FOY
TITLE V.P. & CONTROLLER