

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 28, 2009

PAGE 1
000 A000000 11/30/2008
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
005 000000 N
006 000000 N
007 A000000 N
007 B000000 0
007 C010100 1
007 C010200 2
007 C010300 3
007 C010400 4
007 C010500 5
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 192
019 C000000 NUVEENFUND
020 C000001 0
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022 A000002 STIFEL, NICOLAUS & CO
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023 C000000 403
023 D000000 3090
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PAGE 3
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026 E000000 N
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026 G010000 N
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| 048 | B020000 | 0.000 | |
| 048 | C010000 | | 0 |
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048 D020000 0.000
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 048 F010000 0
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 PAGE 5
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| 067 | 000000 | N |
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| 068 | B000000 | N |
| 069 | 000000 | N |
| 070 | A010000 | Y |
| 070 | A020000 | N |
| 070 | B010000 | N |
| 070 | B020000 | N |
| 070 | C010000 | Y |
| | PAGE | 6 |
| 070 | C020000 | N |
| 070 | D010000 | N |
| 070 | D020000 | N |
| 070 | E010000 | Y |
| 070 | E020000 | N |
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| 070 | K010000 | N |
| 070 | K020000 | N |
| 070 | L010000 | N |
| 070 | L020000 | N |
| 070 | M010000 | N |
| 070 | M020000 | N |
| 070 | N010000 | N |
| 070 | N020000 | N |
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| 070 | P010000 | N |
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| 072 | J000000 | 2 |
| 072 | K000000 | 3 |

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072 L000000 5
 072 M000000 0
 072 N000000 0
 072 O000000 0
 072 P000000 28

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072 Q000000 0
 072 R000000 5
 072 S000000 1
 072 T000000 0
 072 U000000 0
 072 V000000 0
 072 W000000 30
 072 X000000 226
 072 Y000000 0
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 072BB000000 245
 072CC010000 0
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 074 W000000 0.0000
 074 X000000 143
 074 Y000000 7033

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075 A000000 0
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 076 000000 11.00
 077 A000000 N

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| | | | |
|-----------|-------------------|--------------|----|
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| 083 | B000000 | | 0 |
| 084 | B000000 | | 0 |
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| 086 | A020000 | | 0 |
| 086 | B010000 | | 2 |
| 086 | B020000 | | 28 |
| 086 | C010000 | | 0 |
| 086 | C020000 | | 0 |
| 086 | D010000 | | 0 |
| 086 | D020000 | | 0 |
| 086 | E010000 | | 0 |
| 086 | E020000 | | 0 |
| 086 | F010000 | | 0 |
| 086 | F020000 | | 0 |
| 087 | A010000 | COMMON STOCK | |
| 087 | A020000 | 67060Q108 | |
| 087 | A030000 | NOM | |
| 088 | A000000 | N | |
| 088 | B000000 | N | |
| 088 | C000000 | N | |
| 088 | D000000 | Y | |
| SIGNATURE | STEPHEN D. FOY | | |
| TITLE | V.P. & CONTROLLER | | |