

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 29, 2007

PAGE 1
000 A000000 11/30/2006
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 171
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 020 C000001 0
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 020 C000004 0
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 022 A000001 A.G. EDWARDS INC
 022 B000001 43-0895447
 022 C000001 1120
 022 D000001 2130
 022 A000002 RBC DOMINION
 022 B000002 13-5033225
 022 C000002 1091
 022 D000002 0
 022 A000003 GEORGE K. BAUM & CO.
 022 B000003 44-0522232
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 022 A000004 STERN BROTHERS & CO
 022 B000004 43-1357568
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 PAGE 3
 023 C000000 2765
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| 028 | D040000 | | 0 |
| 028 | E010000 | | 0 |
| 028 | E020000 | | 0 |
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| 028 | E040000 | | 0 |
| 028 | F010000 | | 0 |
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| 028 | G040000 | | 0 |
| 028 | H000000 | | 0 |
| 030 | A000000 | | 0 |
| | PAGE | 4 | |
| 030 | B000000 | | 0.00 |
| 030 | C000000 | | 0.00 |
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| 031 | B000000 | | 0 |
| 032 | 000000 | | 0 |
| 033 | 000000 | | 0 |
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| 046 | 000000 | N | |
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| 048 | 000000 | | 0.000 |
| 048 | A010000 | | 0 |
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048 B020000 0.000
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 048 D010000 0
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 048 K020000 0.000
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 053 A000000 N
 054 A000000 Y
 PAGE 5
 054 B000000 N
 054 C000000 N
 054 D000000 N
 054 E000000 N
 054 F000000 N
 054 G000000 N
 054 H000000 Y
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 062 H000000 0.0
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 062 L000000 0.0
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| | | |
|-----|---------|-------|
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| 067 | 000000 | N |
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| 068 | B000000 | N |
| 069 | 000000 | N |
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| | PAGE | 6 |
| 070 | A020000 | N |
| 070 | B010000 | N |
| 070 | B020000 | N |
| 070 | C010000 | Y |
| 070 | C020000 | N |
| 070 | D010000 | N |
| 070 | D020000 | N |
| 070 | E010000 | Y |
| 070 | E020000 | N |
| 070 | F010000 | N |
| 070 | F020000 | N |
| 070 | G010000 | Y |
| 070 | G020000 | N |
| 070 | H010000 | N |
| 070 | H020000 | N |
| 070 | I010000 | N |
| 070 | I020000 | N |
| 070 | J010000 | Y |
| 070 | J020000 | N |
| 070 | K010000 | N |
| 070 | K020000 | N |
| 070 | L010000 | N |
| 070 | L020000 | N |
| 070 | M010000 | N |
| 070 | M020000 | N |
| 070 | N010000 | N |
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| 070 | O010000 | Y |
| 070 | O020000 | Y |
| 070 | P010000 | N |
| 070 | P020000 | N |
| 070 | Q010000 | N |
| 070 | Q020000 | N |
| 070 | R010000 | N |
| 070 | R020000 | N |
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| 071 | D000000 | 6 |
| 072 | A000000 | 6 |
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| 072 | C000000 | 0 |
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| 072 | E000000 | 0 |
| 072 | F000000 | 157 |
| 072 | G000000 | 0 |

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072 H000000 0
 072 I000000 7
 072 J000000 7
 072 K000000 2
 072 L000000 4

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072 M000000 1
 072 N000000 0
 072 O000000 0
 072 P000000 0
 072 Q000000 0
 072 R000000 5
 072 S000000 1
 072 T000000 0
 072 U000000 0
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 072 Y000000 0
 072 Z000000 1032
 072AA000000 158
 072BB000000 0
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 074 R030000 0
 074 R040000 110
 074 S000000 16000
 074 T000000 33904
 074 U010000 2296
 074 U020000 0
 074 V010000 14.76

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074 V020000 0.00
 074 W000000 0.0000
 074 X000000 158
 074 Y000000 3134

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| | | |
|-----------|-------------------|--------------|
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| 075 | B000000 | 33232 |
| 076 | 000000 | 16.89 |
| 077 | A000000 | N |
| 078 | 000000 | N |
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| 081 | B000000 | 0 |
| 082 | B000000 | 0 |
| 083 | B000000 | 0 |
| 084 | B000000 | 0 |
| 086 | A010000 | 10 |
| 086 | A020000 | 155 |
| 086 | B010000 | 0 |
| 086 | B020000 | 0 |
| 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 | |