

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 27, 2006

PAGE 1
000 B000000 05/31/2006
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 166
019 C000000 NUVEENFUND
020 C000001 0
020 C000002 0
020 C000003 0
020 C000004 0
020 C000005 0
020 C000006 0
020 C000007 0
020 C000008 0
020 C000009 0
020 C000010 0
021 000000 0
022 A000001 GOLDMAN SACHS
022 B000001 13-5108880
022 C000001 829
022 D000001 829
022 A000002 CITIGROUP
022 B000002 13-3214963
022 C000002 363
022 D000002 1031
022 A000003 GEORGE K. BAUM & CO.
022 B000003 44-0522232
022 C000003 1061
022 D000003 0
022 A000004 A.G. EDWARDS INC
022 B000004 43-0895447
022 C000004 530
022 D000004 522
022 A000005 COMMERCE BANK KC
022 B000005 44-0206815
022 C000005 0
022 D000005 699
022 A000006 PIPER JAFFRAY
022 B000006 41-0953246
022 C000006 425
022 D000006 0
022 A000007 SBK BROOKS INVESTMENT
022 B000007 34-1758788
022 C000007 0
022 D000007 419
022 A000008 STERN BROTHERS & CO
022 B000008 43-1357568
PAGE 3
022 C000008 0
022 D000008 314
022 A000009 W.H. MELL
022 B000009 22-3023019
022 C000009 0
022 D000009 218
022 C000010 0
022 D000010 0
023 C000000 3208
023 D000000 4032
024 000000 N
025 D000001 0
025 D000002 0
025 D000003 0
025 D000004 0
025 D000005 0

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| | | |
|-----|---------|------|
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| 025 | D000007 | 0 |
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| 026 | D000000 | Y |
| 026 | E000000 | N |
| 026 | F000000 | N |
| 026 | G010000 | N |
| 026 | G020000 | N |
| 026 | H000000 | N |
| 027 | 000000 | N |
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| 028 | A020000 | 0 |
| 028 | A030000 | 0 |
| 028 | A040000 | 0 |
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| 028 | B030000 | 0 |
| 028 | B040000 | 0 |
| 028 | C010000 | 0 |
| 028 | C020000 | 0 |
| 028 | C030000 | 0 |
| 028 | C040000 | 0 |
| 028 | D010000 | 0 |
| 028 | D020000 | 0 |
| 028 | D030000 | 0 |
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| 028 | E020000 | 0 |
| 028 | E030000 | 0 |
| 028 | E040000 | 0 |
| 028 | F010000 | 0 |
| 028 | F020000 | 0 |
| | PAGE 4 | |
| 028 | F030000 | 0 |
| 028 | F040000 | 0 |
| 028 | G010000 | 0 |
| 028 | G020000 | 0 |
| 028 | G030000 | 0 |
| 028 | G040000 | 0 |
| 028 | H000000 | 0 |
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| 030 | B000000 | 0.00 |
| 030 | C000000 | 0.00 |
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| 042 | B000000 | 0 |
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| 042 | E000000 | 0 |
| 042 | F000000 | 0 |
| 042 | G000000 | 0 |
| 042 | H000000 | 0 |
| 043 | 000000 | 0 |

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044 000000 0
045 000000 Y
046 000000 N
047 000000 N
048 000000 0.000
048 A010000 0
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048 C010000 0
048 C020000 0.000
048 D010000 0
048 D020000 0.000
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048 G020000 0.000
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048 H020000 0.000
048 I010000 0
048 I020000 0.000
048 J010000 0
048 J020000 0.000
PAGE 5
048 K010000 0
048 K020000 0.000
049 000000 N
050 000000 N
051 000000 N
052 000000 Y
053 A000000 N
054 A000000 Y
054 B000000 N
054 C000000 N
054 D000000 N
054 E000000 N
054 F000000 N
054 G000000 N
054 H000000 Y
054 I000000 N
054 J000000 Y
054 K000000 N
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058 A000000 N
059 000000 Y
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060 B000000 Y
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062 A000000 Y
062 B000000 0.0
062 C000000 0.0
062 D000000 0.0
062 E000000 0.0

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062 F000000 0.0
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 062 N000000 0.0
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 062 P000000 0.0
 062 Q000000 0.0
 062 R000000 0.0
 063 A000000 0
 063 B000000 6.8

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064 A000000 Y
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 066 A000000 N
 067 000000 N
 068 A000000 N
 068 B000000 N
 069 000000 N
 070 A010000 Y
 070 A020000 N
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 070 B020000 N
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 070 C020000 N
 070 D010000 N
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 070 M010000 N
 070 M020000 N
 070 N010000 N
 070 N020000 N
 070 O010000 Y
 070 O020000 Y
 070 P010000 N
 070 P020000 N
 070 Q010000 N
 070 Q020000 N
 070 R010000 N
 070 R020000 N
 071 A000000 4621
 071 B000000 4707
 071 C000000 48763

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| | |
|-------------|--------|
| 071 D000000 | 9 |
| 072 A000000 | 12 |
| 072 B000000 | 2511 |
| 072 C000000 | 0 |
| 072 D000000 | 0 |
| PAGE 7 | |
| 072 E000000 | 0 |
| 072 F000000 | 317 |
| 072 G000000 | 0 |
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| 072 J000000 | 11 |
| 072 K000000 | 4 |
| 072 L000000 | 7 |
| 072 M000000 | 1 |
| 072 N000000 | 0 |
| 072 O000000 | 0 |
| 072 P000000 | 0 |
| 072 Q000000 | 0 |
| 072 R000000 | 10 |
| 072 S000000 | 1 |
| 072 T000000 | 0 |
| 072 U000000 | 0 |
| 072 V000000 | 0 |
| 072 W000000 | 60 |
| 072 X000000 | 426 |
| 072 Y000000 | 0 |
| 072 Z000000 | 2085 |
| 072AA000000 | 66 |
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| 072CC020000 | 1268 |
| 072DD010000 | 1919 |
| 072DD020000 | 0 |
| 072EE000000 | 221 |
| 073 A010000 | 0.8433 |
| 073 A020000 | 0.0000 |
| 073 B000000 | 0.0969 |
| 073 C000000 | 0.0000 |
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| 074 D000000 | 48234 |
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| 074 P000000 | 27 |
| 074 Q000000 | 0 |
| 074 R010000 | 0 |
| PAGE 8 | |
| 074 R020000 | 0 |
| 074 R030000 | 0 |
| 074 R040000 | 76 |
| 074 S000000 | 16000 |

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| | | |
|-----|---------|---|
| 074 | T000000 | 32934 |
| 074 | U010000 | 2286 |
| 074 | U020000 | 0 |
| 074 | V010000 | 14.40 |
| 074 | V020000 | 0.00 |
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| 074 | X000000 | 165 |
| 074 | Y000000 | 3160 |
| 075 | A000000 | 0 |
| 075 | B000000 | 33532 |
| 076 | 000000 | 16.35 |
| 077 | A000000 | Y |
| 077 | B000000 | Y |
| 078 | 000000 | N |
| 080 | A000000 | CHUBB GROUP OF INSURANCE COMPANIES |
| 080 | B000000 | AIG, QUANTA INDEMNITY, GREAT AMERICAN & CNA |
| 080 | C000000 | 100000 |
| 081 | A000000 | Y |
| 081 | B000000 | 165 |
| 082 | A000000 | N |
| 082 | B000000 | 0 |
| 083 | A000000 | N |
| 083 | B000000 | 0 |
| 084 | A000000 | N |
| 084 | B000000 | 0 |
| 085 | A000000 | Y |
| 085 | B000000 | N |
| 086 | A010000 | 22 |
| 086 | A020000 | 387 |
| 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 |

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