

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
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 186
019 C000000 NUVEENFUND
020 C000001 0
020 C000002 0
020 C000003 0
020 C000004 0
020 C000005 0
020 C000006 0
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020 C000008 0
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022 A000001 ROOSEVELT & CROSS
022 B000001 13-2728032
022 C000001 0
022 D000001 1374
022 A000002 PIPER JAFFRAY
022 B000002 41-0953246
022 C000002 484
022 D000002 430
022 A000003 GEORGE K. BAUM & CO
022 B000003 44-0522232
022 C000003 516
022 D000003 304
022 A000004 ZIEGLER SECURITIES
022 B000004 39-0727640
022 C000004 510
022 D000004 0
022 A000005 CITIGROUP
022 B000005 13-3214963
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022 D000005 0
022 A000006 MORGAN STANLEY
022 B000006 13-2655998
022 C000006 0
022 D000006 302
022 A000007 BOSC INC
022 B000007 73-1275307
022 C000007 251
022 D000007 0
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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022 C000010 0
022 D000010 0
023 C000000 2253
023 D000000 3088
024 000000 N
025 D000001 0
025 D000002 0
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025 D000005 0

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| | | |
|-----|---------|------|
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| 028 | B030000 | 0 |
| 028 | B040000 | 0 |
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| | PAGE 4 | |
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| | | |
|-----|---------|-------|
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| 048 | E020000 | 0.000 |
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| 048 | G020000 | 0.000 |
| 048 | H010000 | 0 |
| 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 |
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| 050 | 000000 | N |
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| 054 | C000000 | N |
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| 054 | E000000 | N |
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| 054 | G000000 | N |
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| 054 | J000000 | Y |
| 054 | K000000 | N |
| 054 | L000000 | N |
| 054 | M000000 | Y |
| 054 | N000000 | N |
| 054 | O000000 | Y |
| 055 | A000000 | Y |
| 055 | B000000 | N |
| 056 | 000000 | Y |
| 057 | 000000 | N |
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| 060 | B000000 | Y |
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| | | |
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| 062 | O000000 | 154.5 |
| 062 | P000000 | 0.0 |
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| 062 | R000000 | 0.0 |
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| 063 | B000000 | 9.5 |

PAGE 6

| | | |
|-----|---------|-------|
| 064 | A000000 | Y |
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| 066 | A000000 | N |
| 067 | 000000 | N |
| 068 | A000000 | N |
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| 070 | B010000 | N |
| 070 | B020000 | N |
| 070 | C010000 | Y |
| 070 | C020000 | N |
| 070 | D010000 | N |
| 070 | D020000 | N |
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| 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 |
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| 070 | K010000 | N |
| 070 | K020000 | N |
| 070 | L010000 | N |
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| 070 | R010000 | N |
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| 071 | A000000 | 2253 |
| 071 | B000000 | 3088 |
| 071 | C000000 | 49174 |

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| | | |
|-------|---------|--------|
| 071 | D000000 | 5 |
| 072 | A000000 | 12 |
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| 072 | D000000 | 0 |
| | PAGE | 7 |
| 072 | E000000 | 0 |
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| 072 | W000000 | 57 |
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| 072 | Z000000 | 2052 |
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| 072BB | 000000 | 0 |
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| 072CC | 020000 | 1459 |
| 072DD | 010000 | 1506 |
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| 073 | A010000 | 0.6540 |
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| 074 | L000000 | 777 |
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| 074 | Q000000 | 0 |
| 074 | R010000 | 0 |
| | PAGE | 8 |
| 074 | R020000 | 0 |
| 074 | R030000 | 0 |
| 074 | R040000 | 2357 |
| 074 | S000000 | 16000 |

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| | | |
|-----|---------|-------------------------------------|
| 074 | T000000 | 31170 |
| 074 | U010000 | 2306 |
| 074 | U020000 | 0 |
| 074 | V010000 | 13.52 |
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| 074 | X000000 | 147 |
| 074 | Y000000 | 7072 |
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| 075 | B000000 | 31839 |
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| 077 | B000000 | Y |
| 077 | Q010000 | Y |
| 078 | 000000 | N |
| 080 | A000000 | CHUBB GROUP OF INSURANCE COMPANIES |
| 080 | B000000 | AIG, GREAT AMERICAN, ST. PAUL & CNA |
| 080 | C000000 | 110000 |
| 081 | A000000 | Y |
| 081 | B000000 | 185 |
| 082 | A000000 | N |
| 082 | B000000 | 0 |
| 083 | A000000 | N |
| 083 | B000000 | 0 |
| 084 | A000000 | N |
| 084 | B000000 | 0 |
| 085 | A000000 | Y |
| 085 | B000000 | N |
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| 086 | D010000 | 0 |
| 086 | D020000 | 0 |
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| 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