

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 29, 2008

PAGE 1
000 A000000 11/30/2007
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 | | 184 |
| 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 | PIPER JAFFRAY | |
| 022 | B000001 | 41-0953246 | |
| 022 | C000001 | | 484 |
| 022 | D000001 | | 430 |
| 022 | A000002 | GEORGE K. BAUM & CO. | |
| 022 | B000002 | 44-0522232 | |
| 022 | C000002 | | 516 |
| 022 | D000002 | | 304 |
| 022 | A000003 | ZIEGLER SECURITIES | |
| 022 | B000003 | 39-0727640 | |
| 022 | C000003 | | 510 |
| 022 | D000003 | | 0 |
| 022 | A000004 | MORGAN STANLEY | |
| 022 | B000004 | 13-2655998 | |
| 022 | C000004 | | 0 |
| 022 | D000004 | | 302 |
| 022 | A000005 | BOSC INC | |
| 022 | B000005 | 73-1275307 | |
| 022 | C000005 | | 251 |
| 022 | D000005 | | 0 |
| 022 | A000006 | A.G. EDWARDS INC | |
| 022 | B000006 | 43-0895447 | |
| 022 | C000006 | | 0 |
| 022 | D000006 | | 242 |
| 022 | C000007 | | 0 |
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| 022 | C000008 | | 0 |
| 022 | D000008 | | 0 |
| 022 | C000009 | | 0 |
| 022 | D000009 | | 0 |
| | PAGE | 3 | |
| 022 | C000010 | | 0 |
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| 023 | C000000 | | 1761 |
| 023 | D000000 | | 1279 |
| 024 | 000000 | N | |
| 025 | D000001 | | 0 |
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| 025 | D000005 | | 0 |
| 025 | D000006 | | 0 |
| 025 | D000007 | | 0 |
| 025 | D000008 | | 0 |
| 026 | A000000 | N | |
| 026 | B000000 | N | |
| 026 | C000000 | N | |

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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 | |
| 028 | A010000 | | 0 |
| 028 | A020000 | | 0 |
| 028 | A030000 | | 0 |
| 028 | A040000 | | 0 |
| 028 | B010000 | | 0 |
| 028 | B020000 | | 0 |
| 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 |
| 028 | D040000 | | 0 |
| 028 | E010000 | | 0 |
| 028 | E020000 | | 0 |
| 028 | E030000 | | 0 |
| 028 | E040000 | | 0 |
| 028 | F010000 | | 0 |
| 028 | F020000 | | 0 |
| 028 | F030000 | | 0 |
| 028 | F040000 | | 0 |
| 028 | G010000 | | 0 |
| 028 | G020000 | | 0 |
| 028 | G030000 | | 0 |
| 028 | G040000 | | 0 |
| | PAGE | 4 | |
| 028 | H000000 | | 0 |
| 030 | A000000 | | 0 |
| 030 | B000000 | 0.00 | |
| 030 | C000000 | 0.00 | |
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| 031 | B000000 | | 0 |
| 032 | 000000 | | 0 |
| 033 | 000000 | | 0 |
| 035 | 000000 | | 0 |
| 036 | B000000 | | 0 |
| 038 | 000000 | | 0 |
| 042 | A000000 | 0 | |
| 042 | B000000 | 0 | |
| 042 | C000000 | 0 | |
| 042 | D000000 | 0 | |
| 042 | E000000 | 0 | |
| 042 | F000000 | 0 | |
| 042 | G000000 | 0 | |
| 042 | H000000 | 0 | |
| 043 | 000000 | | 0 |
| 044 | 000000 | | 0 |
| 045 | 000000 | Y | |
| 046 | 000000 | N | |
| 047 | 000000 | N | |
| 048 | 000000 | 0.000 | |
| 048 | A010000 | | 0 |

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048 A020000 0.000
048 B010000 0
048 B020000 0.000
048 C010000 0
048 C020000 0.000
048 D010000 0
048 D020000 0.000
048 E010000 0
048 E020000 0.000
048 F010000 0
048 F020000 0.000
048 G010000 0
048 G020000 0.000
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048 I010000 0
048 I020000 0.000
048 J010000 0
048 J020000 0.000
048 K010000 0
048 K020000 0.000
049 000000 N
050 000000 N
051 000000 N
052 000000 Y
PAGE 5
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
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060 B000000 Y
061 000000 0
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062 B000000 0.0
062 C000000 0.0
062 D000000 0.0
062 E000000 0.0
062 F000000 0.0
062 G000000 0.0
062 H000000 0.0
062 I000000 0.0
062 J000000 0.0
062 K000000 0.0

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| | | |
|-----|---------|-------|
| 062 | L000000 | 0.0 |
| 062 | M000000 | 0.0 |
| 062 | N000000 | 0.0 |
| 062 | O000000 | 155.0 |
| 062 | P000000 | 0.0 |
| 062 | Q000000 | 0.0 |
| 062 | R000000 | 0.0 |
| 063 | A000000 | 0 |
| 063 | B000000 | 9.0 |
| 064 | A000000 | Y |
| 064 | B000000 | N |
| 066 | A000000 | N |
| 067 | 000000 | N |
| 068 | A000000 | N |
| 068 | B000000 | N |
| | PAGE | 6 |
| 069 | 000000 | N |
| 070 | A010000 | Y |
| 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 |
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| 070 | M020000 | 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 |
| 071 | A000000 | 2008 |
| 071 | B000000 | 1504 |
| 071 | C000000 | 49842 |
| 071 | D000000 | 3 |
| 072 | A000000 | 6 |
| 072 | B000000 | 1268 |
| 072 | C000000 | 0 |
| 072 | D000000 | 0 |
| 072 | E000000 | 0 |

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072 F000000 153
 072 G000000 0
 072 H000000 0
 072 I000000 7
 072 J000000 6

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072 K000000 2
 072 L000000 5
 072 M000000 1
 072 N000000 0
 072 O000000 0
 072 P000000 38
 072 Q000000 0
 072 R000000 3
 072 S000000 1
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 072 W000000 28
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 072CC010000 0
 072CC020000 530
 072DD010000 753
 072DD020000 0
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 073 A020000 0.0000
 073 B000000 0.0000
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 074 B000000 0
 074 C000000 0
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 074 M000000 7
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 074 O000000 0
 074 P000000 25
 074 Q000000 0
 074 R010000 0
 074 R020000 0
 074 R030000 0
 074 R040000 2593
 074 S000000 16000
 074 T000000 32397
 074 U010000 2303

PAGE 8

074 U020000 0
 074 V010000 14.07
 074 V020000 0.00
 074 W000000 0.0000

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| | | |
|-----------|-------------------|--------------|
| 074 | X000000 | 147 |
| 074 | Y000000 | 7083 |
| 075 | A000000 | 0 |
| 075 | B000000 | 32213 |
| 076 | 000000 | 14.20 |
| 077 | A000000 | Y |
| 077 | C000000 | Y |
| 077 | Q010000 | Y |
| 078 | 000000 | N |
| 080 | C000000 | 0 |
| 081 | B000000 | 0 |
| 082 | B000000 | 0 |
| 083 | B000000 | 0 |
| 084 | B000000 | 0 |
| 086 | A010000 | 0 |
| 086 | A020000 | 0 |
| 086 | B010000 | 2 |
| 086 | B020000 | 36 |
| 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 | |