

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 |
| 022 | D000007 | | 0 |
| 022 | C000008 | | 0 |
| 022 | D000008 | | 0 |
| 022 | C000009 | | 0 |
| 022 | D000009 | | 0 |
| | PAGE | 3 | |
| 022 | C000010 | | 0 |
| 022 | D000010 | | 0 |
| 023 | C000000 | | 1761 |
| 023 | D000000 | | 1279 |
| 024 | 000000 | N | |
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| 025 | D000003 | | 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 | |
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| 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 | |
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| 048 | B020000 | 0.000 | |
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| 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 | |
| 048 | H010000 | | 0 |
| 048 | H020000 | 0.000 | |
| 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 | |
| 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 | |
| 058 | A000000 | N | |
| 059 | 000000 | Y | |
| 060 | A000000 | Y | |
| 060 | B000000 | Y | |
| 061 | 000000 | | 0 |
| 062 | A000000 | Y | |
| 062 | B000000 | 0.0 | |
| 062 | C000000 | 0.0 | |
| 062 | D000000 | 0.0 | |
| 062 | E000000 | 0.0 | |
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| 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 |
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| 070 | J020000 | N |
| 070 | K010000 | N |
| 070 | K020000 | 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 |
| 072 T000000 | 0 |
| 072 U000000 | 0 |
| 072 V000000 | 0 |
| 072 W000000 | 28 |
| 072 X000000 | 244 |
| 072 Y000000 | 0 |
| 072 Z000000 | 1024 |
| 072AA000000 | 44 |
| 072BB000000 | 0 |
| 072CC010000 | 0 |
| 072CC020000 | 530 |
| 072DD010000 | 753 |
| 072DD020000 | 0 |
| 072EE000000 | 0 |
| 073 A010000 | 0.3270 |
| 073 A020000 | 0.0000 |
| 073 B000000 | 0.0000 |
| 073 C000000 | 0.0000 |
| 074 A000000 | 0 |
| 074 B000000 | 0 |
| 074 C000000 | 0 |
| 074 D000000 | 50232 |
| 074 E000000 | 0 |
| 074 F000000 | 0 |
| 074 G000000 | 0 |
| 074 H000000 | 0 |
| 074 I000000 | 0 |
| 074 J000000 | 0 |
| 074 K000000 | 0 |
| 074 L000000 | 776 |
| 074 M000000 | 7 |
| 074 N000000 | 51015 |
| 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 |

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| | |
|-------------|--------|
| 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 | |