

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 28, 2010

PAGE 1
000 B000000 05/31/2010
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 200
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 STIFEL, NICOLAUS & CO
022 B000001 43-0538770
022 C000001 2650
022 D000001 0
022 A000002 MORGAN STANLEY
022 B000002 13-2655998
022 C000002 1987
022 D000002 0
022 A000003 GEORGE K. BAUM & CO.
022 B000003 44-0522232
022 C000003 1838
022 D000003 0
022 A000004 MERRILL LYNCH
022 B000004 13-5674085
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022 A000005 JP MORGAN CHASE
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026 A000000 N
026 B000000 N
026 C000000 N
026 D000000 Y
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| | | | |
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| 026 | H000000 | N | |
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| 028 | C040000 | | 0 |
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| 028 | D020000 | | 0 |
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| 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 |
| 028 | H000000 | | 0 |
| 030 | A000000 | | 0 |
| | PAGE | 4 | |
| 030 | B000000 | | 0.00 |
| 030 | C000000 | | 0.00 |
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| 032 | 000000 | | 0 |
| 033 | 000000 | | 0 |
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| 036 | B000000 | | 0 |
| 038 | 000000 | | 0 |
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| 042 | B000000 | | 0 |
| 042 | C000000 | | 0 |
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| 042 | F000000 | | 0 |
| 042 | G000000 | | 0 |
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| 045 | 000000 | Y | |
| 046 | 000000 | N | |
| 047 | 000000 | N | |
| 048 | 000000 | | 0.000 |
| 048 | A010000 | | 0 |
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048 B020000 0.000
 048 C010000 0
 048 C020000 0.000
 048 D010000 0
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 048 G010000 0
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 052 000000 Y
 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
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 057 000000 N
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 059 000000 Y
 060 A000000 Y
 060 B000000 Y
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 062 H000000 0.0
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 062 K000000 0.0
 062 L000000 0.0
 062 M000000 0.0

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|-----|---------|-------|
| 062 | N000000 | 0.0 |
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| 063 | B000000 | 9.0 |
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| 064 | B000000 | N |
| 066 | A000000 | N |
| 067 | 000000 | N |
| 068 | A000000 | N |
| 068 | B000000 | N |
| 069 | 000000 | N |
| 070 | A010000 | Y |
| | 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 |
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| 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 |
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| 070 | O010000 | Y |
| 070 | O020000 | N |
| 070 | P010000 | N |
| 070 | P020000 | N |
| 070 | Q010000 | N |
| 070 | Q020000 | N |
| 070 | R010000 | N |
| 070 | R020000 | N |
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| 071 | B000000 | 2920 |
| 071 | C000000 | 44043 |
| 071 | D000000 | 7 |
| 072 | A000000 | 12 |
| 072 | B000000 | 2341 |
| 072 | C000000 | 0 |
| 072 | D000000 | 0 |
| 072 | E000000 | 0 |
| 072 | F000000 | 296 |
| 072 | G000000 | 0 |

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072 H000000 0
 072 I000000 13
 072 J000000 14
 072 K000000 7
 072 L000000 14

PAGE 7

072 M000000 1
 072 N000000 0
 072 O000000 0
 072 P000000 10
 072 Q000000 0
 072 R000000 10
 072 S000000 2
 072 T000000 0
 072 U000000 0
 072 V000000 0
 072 W000000 48
 072 X000000 415
 072 Y000000 0
 072 Z000000 1926
 072AA000000 12
 072BB000000 0
 072CC010000 2255
 072CC020000 0
 072DD010000 1571
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 074 N000000 51738
 074 O000000 1987
 074 P000000 25
 074 Q000000 0
 074 R010000 0
 074 R020000 0
 074 R030000 0
 074 R040000 2378
 074 S000000 16000
 074 T000000 31348
 074 U010000 2314
 074 U020000 0
 074 V010000 13.55

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074 V020000 0.00
 074 W000000 0.0000
 074 X000000 124
 074 Y000000 4212

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| | | |
|-----------|-------------------|---|
| 075 | A000000 | 0 |
| 075 | B000000 | 30238 |
| 076 | 000000 | 16.50 |
| 077 | A000000 | Y |
| 077 | B000000 | Y |
| 077 | C000000 | Y |
| 078 | 000000 | N |
| 080 | A000000 | CHUBB GROUP INSURANCE COMPANIES |
| 080 | B000000 | BERKLEY, GREAT AMERICAN, ST. PAUL & CNA |
| 080 | C000000 | 110000 |
| 081 | A000000 | Y |
| 081 | B000000 | 199 |
| 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 | 4 |
| 086 | A020000 | 59 |
| 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 | |