

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 26, 2007

PAGE 1  
000 B000000 05/31/2007  
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  
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 020 C000002 0  
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 020 C000009 0  
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 022 A000001 MORGAN STANLEY  
 022 B000001 13-2655998  
 022 C000001 3968  
 022 D000001 2989  
 022 A000002 A.G. EDWARDS INC  
 022 B000002 43-0895447  
 022 C000002 1120  
 022 D000002 2130  
 022 A000003 GEORGE K. BAUM & CO.  
 022 B000003 44-0522232  
 022 C000003 2000  
 022 D000003 623  
 022 A000004 STIFEL, NICOLAUS & CO  
 022 B000004 43-0538770  
 022 C000004 207  
 022 D000004 1845  
 022 A000005 RBC DOMINION  
 022 B000005 13-5033225  
 022 C000005 1091  
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 022 A000006 FIRST BANKERS' BANC SECURITIES  
 022 B000006 43-1326319  
 022 C000006 0  
 022 D000006 851  
 022 A000007 RYAN, BECK & CO  
 022 B000007 22-1773796  
 022 C000007 0  
 022 D000007 806  
 022 A000008 JANNEY MONTGOMERY  
 022 B000008 23-2211143  
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 022 C000008 0  
 022 D000008 802  
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 022 B000009 13-2638166  
 022 C000009 728  
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 022 A000010 PIPER JAFFRAY  
 022 B000010 41-0953246  
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 022 D000010 0  
 023 C000000 11132  
 023 D000000 10046  
 024 000000 N  
 025 D000001 0  
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| 025 | D000007 | 0    |
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| 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    |
| 028 | B010000 | 0    |
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| 028 | B040000 | 0    |
| 028 | C010000 | 0    |
| 028 | C020000 | 0    |
| 028 | C030000 | 0    |
| 028 | C040000 | 0    |
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| 028 | D040000 | 0    |
| 028 | E010000 | 0    |
| 028 | E020000 | 0    |
| 028 | E030000 | 0    |
| 028 | E040000 | 0    |
|     | PAGE    | 4    |
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| 028 | F020000 | 0    |
| 028 | F030000 | 0    |
| 028 | F040000 | 0    |
| 028 | G010000 | 0    |
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| 030 | C000000 | 0.00 |
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042 H000000 0  
043 000000 0  
044 000000 0  
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046 000000 N  
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058 A000000 N  
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062 C000000 0.0

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062 D000000 0.0  
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062 R000000 0.0

PAGE 6

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066 A000000 N  
067 000000 N  
068 A000000 N  
068 B000000 N  
069 000000 N  
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070 Q020000 N  
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070 R020000 N  
071 A000000 10152

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071 B000000 7803  
 071 C000000 58646  
 071 D000000 13  
 072 A000000 12  
 072 B000000 2513

PAGE 7

072 C000000 0  
 072 D000000 0  
 072 E000000 0  
 072 F000000 313  
 072 G000000 0  
 072 H000000 0  
 072 I000000 14  
 072 J000000 12  
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 072 M000000 1  
 072 N000000 0  
 072 O000000 0  
 072 P000000 32  
 072 Q000000 0  
 072 R000000 11  
 072 S000000 0  
 072 T000000 0  
 072 U000000 0  
 072 V000000 0  
 072 W000000 62  
 072 X000000 456  
 072 Y000000 0  
 072 Z000000 2057  
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 074 N000000 51008  
 074 O000000 0  
 074 P000000 27

PAGE 8

074 Q000000 0  
 074 R010000 0  
 074 R020000 0  
 074 R030000 0

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|           |                   |                                     |
|-----------|-------------------|-------------------------------------|
| 074       | R040000           | 2155                                |
| 074       | S000000           | 16000                               |
| 074       | T000000           | 32826                               |
| 074       | U010000           | 2300                                |
| 074       | U020000           | 0                                   |
| 074       | V010000           | 14.26                               |
| 074       | V020000           | 0.00                                |
| 074       | W000000           | 0.0000                              |
| 074       | X000000           | 152                                 |
| 074       | Y000000           | 3000                                |
| 075       | A000000           | 0                                   |
| 075       | B000000           | 33316                               |
| 076       | 000000            | 16.56                               |
| 077       | A000000           | Y                                   |
| 077       | B000000           | Y                                   |
| 078       | 000000            | N                                   |
| 080       | A000000           | CHUBB GROUP OF INSURANCE COMPANIES  |
| 080       | B000000           | AIG, GREAT AMERICAN, CNA & ST. PAUL |
| 080       | C000000           | 100000                              |
| 081       | A000000           | Y                                   |
| 081       | B000000           | 175                                 |
| 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           | 0                                   |
| 086       | A020000           | 0                                   |
| 086       | B010000           | 14                                  |
| 086       | B020000           | 217                                 |
| 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                                   |
|           | PAGE              | 9                                   |
| 088       | D000000           | Y                                   |
| SIGNATURE | STEPHEN D. FOY    |                                     |
| TITLE     | V.P. & CONTROLLER |                                     |