

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 29, 2010

PAGE 1  
000 A000000 11/30/2009  
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  
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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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| 028 | A030000 |            | 0 |
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| 028 | B010000 |            | 0 |

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|     |         |       |
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| 048 | F010000 | 0     |
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067 000000 N  
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 070 E020000 N  
 070 F010000 N

PAGE 6

070 F020000 N  
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|               |        |
|---------------|--------|
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| 072 S000000   | 0      |
| 072 T000000   | 0      |
| 072 U000000   | 0      |
| 072 V000000   | 0      |
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| 072 X000000   | 204    |
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| 074 N000000   | 48850  |
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| 074 R030000   | 0      |
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| 074 Y000000   | 2225   |
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| 075 B000000   | 29655  |
| 076 000000    | 13.90  |
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| 078 000000 N  |        |
| 080 C000000   | 0      |
| PAGE 8        |        |
| 081 B000000   | 0      |
| 082 B000000   | 0      |
| 083 B000000   | 0      |
| 084 B000000   | 0      |

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|             |                   |
|-------------|-------------------|
| 086 A010000 | 2                 |
| 086 A020000 | 29                |
| 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 |