

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 30, 2012

PAGE 1  
000 A000000 11/30/2011  
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  
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007 C010400 4  
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007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
008 A000001 NUVEEN FUND ADVISORS, INC.  
008 B000001 A  
008 C000001 801-14147  
008 D010001 CHICAGO  
008 D020001 IL  
008 D030001 60606  
008 D040001 1286  
008 A000002 NUVEEN ASSET MANAGEMENT, LLC  
008 B000002 S  
008 C000002 801-71957  
008 D010002 CHICAGO  
008 D020002 IL  
008 D030002 60606  
008 D040002 1286  
012 A000001 EQUISERVE INC.  
012 B000001 84-05925  
012 C010001 PROVIDENCE  
012 C020001 RI  
PAGE 2  
012 C030001 02940  
013 A000001 ERNST & YOUNG LLP  
013 B010001 CHICAGO  
013 B020001 IL  
013 B030001 60606  
014 A000001 NUVEEN INVESTMENTS, LLC

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014 B000001 8-13464  
015 A000001 STATE STREET BANK AND TRUST COMPANY  
015 B000001 C  
015 C010001 BOSTON  
015 C020001 MA  
015 C030001 02110  
015 E010001 X  
018 000000 Y  
019 A000000 Y  
019 B000000 239  
019 C000000 NUVEENFUND  
020 C000001 0  
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022 A000001 STIFEL, NICOLAUS & CO  
022 B000001 43-0538770  
022 C000001 906  
022 D000001 709  
022 A000002 STERN BROTHERS & CO  
022 B000002 43-1357568  
022 C000002 640  
022 D000002 0  
022 A000003 WILLIAM BLAIR  
022 B000003 36-2214610  
022 C000003 224  
022 D000003 367  
022 A000004 JP MORGAN CHASE  
022 B000004 13-3224016  
022 C000004 580  
022 D000004 0  
022 A000005 PIPER JAFFRAY  
022 B000005 41-0953246  
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022 A000006 MERRILL LYNCH  
022 B000006 13-5674085  
022 C000006 524  
PAGE 3  
022 D000006 0  
022 A000007 D.A. DAVIDSON  
022 B000007 81-0139474  
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022 A000008 BOSC INC  
022 B000008 73-1275307  
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022 A000009 ZIEGLER SECURITIES  
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022 A000010 RBC DOMINION  
022 B000010 13-5033225  
022 C000010 240

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042 C000000 0  
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PAGE 6

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| 088 | B000000 | N            |
| 088 | C000000 | N            |
| 088 | D000000 | Y            |

PAGE 9

SIGNATURE STEPHEN D. FOY  
TITLE V.P. & CONTROLLER