

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
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 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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021 000000 0
022 A000001 STIFEL, NICOLAUS & CO
022 B000001 43-0538770
022 C000001 906
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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
022 C000005 550
022 D000005 0
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
022 C000007 474
022 D000007 0
022 A000008 BOSC INC
022 B000008 73-1275307
022 C000008 0
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022 A000009 ZIEGLER SECURITIES
022 B000009 39-0727640
022 C000009 249
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022 A000010 RBC DOMINION
022 B000010 13-5033225
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042 A000000 0
042 B000000 0
042 C000000 0
042 D000000 0
042 E000000 0
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PAGE 5
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054 K000000 N
054 L000000 N
054 M000000 Y
054 N000000 N
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055 A000000 Y
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056 000000 Y
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058 A000000 N

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059 000000 Y
060 A000000 Y
060 B000000 Y
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PAGE 6

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| 087 | A030000 | NOM |
| 088 | A000000 | N |
| 088 | B000000 | N |
| 088 | C000000 | N |
| 088 | D000000 | Y |

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