

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 30, 2012

PAGE 1
000 B000000 05/31/2012
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 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 222
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022 A000001 STIFEL, NICOLAUS & CO
022 B000001 43-0538770
022 C000001 906
022 D000001 709
022 A000002 JEFFERIES & CO
022 B000002 95-2622900
022 C000002 1245
022 D000002 0
022 A000003 BMO CAPITAL MARKETS
022 B000003 13-3459853
022 C000003 760
022 D000003 0
022 A000004 STERN BROTHERS & CO
022 B000004 43-1357568
022 C000004 640
022 D000004 0
022 A000005 GEORGE K. BAUM & CO.
022 B000005 44-0522232
022 C000005 628
022 D000005 0
022 A000006 WILLIAM BLAIR
022 B000006 36-2214610
022 C000006 224
PAGE 3
022 D000006 367
022 A000007 JP MORGAN CHASE
022 B000007 13-3224016
022 C000007 580
022 D000007 0
022 A000008 PIPER JAFFRAY
022 B000008 41-0953246
022 C000008 550
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022 A000009 MERRILL LYNCH
022 B000009 13-5674085
022 C000009 524
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022 A000010 BARCLAYS BANK PLC
022 B000010 13-4942190
022 C000010 484

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055 A000000 Y
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059 000000 Y
060 A000000 Y
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PAGE 6

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| 074 | M000000 | | 9 |

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| 080 | A000000 | CHUBB GROUP OF INSURANCE COMPANIES |
| 080 | B000000 | BERKLEY, GRAET AMERICAN, ST. PAUL, CNA & ZURICH |
| 080 | C000000 | 114000 |
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| 081 | B000000 | 221 |
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| 086 | D020000 | 0 |
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| 086 | E020000 | 0 |
| 086 | F010000 | 0 |
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| 087 | A010000 | COMMON STOCK |
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| 088 | A000000 | N |
| 088 | B000000 | N |
| 088 | C000000 | N |
| 088 | D000000 | Y |
| SIGNATURE | STEPHEN D. FOY | |
| TITLE | V.P. & CONTROLLER | |