

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 29, 2016

PAGE 1
000 A000000 11/30/2015
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
008 A000001 NUVEEN FUND ADVISORS, LLC
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 COMPUTERSHARE INC.
012 B000001 84-05925
012 C010001 PROVIDENCE
012 C020001 RI
012 C030001 02940
013 A000001 KPMG LLP
013 B010001 CHICAGO
013 B020001 IL
013 B030001 60601
014 A000001 NUVEEN INVESTMENTS, LLC
014 B000001 8-13464
015 A000001 STATE STREET BANK AND TRUST COMPANY
015 B000001 C
PAGE 2
015 C010001 BOSTON
015 C020001 MA
015 C030001 02110
015 E010001 X
018 000000 Y
019 A000000 Y

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| | | |
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| 019 | B000000 | 197 |
| 019 | C000000 | NUVEENFUND |
| 021 | 000000 | 0 |
| 022 | A000001 | STIFEL, NICOLAUS & CO |
| 022 | B000001 | 43-0538770 |
| 022 | C000001 | 1004 |
| 022 | D000001 | 290 |
| 022 | A000002 | BARCLAYS BANK PLC |
| 022 | B000002 | 13-4942190 |
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| 022 | B000004 | 41-0953246 |
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| 022 | A000005 | JP MORGAN CHASE |
| 022 | B000005 | 13-3224016 |
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| 022 | A000006 | RBC CAPITAL MARKETS |
| 022 | B000006 | 41-0212020 |
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| | | | |
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| 028 | E040000 | | 0 |
| 028 | F010000 | | 0 |
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| 030 | C000000 | 0.00 | |
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| 033 | 000000 | | 0 |
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| 042 | F000000 | 0 | |
| 042 | G000000 | 0 | |
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| 045 | 000000 | Y | |
| 046 | 000000 | N | |
| 047 | 000000 | N | |
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| 048 | K010000 | | 0 |
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| 049 | 000000 | N | |
| 050 | 000000 | N | |
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052 000000 Y
053 A000000 N
054 A000000 Y
054 B000000 N
054 C000000 N
054 D000000 N
054 E000000 N
054 F000000 N
054 G000000 N
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054 I000000 N
054 J000000 Y
054 K000000 N
054 L000000 N
054 M000000 Y
054 N000000 N
054 O000000 Y
055 A000000 N
055 B000000 N
056 000000 Y
057 000000 N
058 A000000 N
059 000000 Y
060 A000000 Y
060 B000000 Y
PAGE 5
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062 F000000 0.0
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066 A000000 N
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069 000000 N
070 A010000 Y
070 A020000 N
070 B010000 N
070 B020000 N
070 C010000 Y
070 C020000 N
070 D010000 N
070 D020000 N

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| | | | |
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| 070 | F020000 | N | |
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| 070 | J010000 | Y | |
| 070 | J020000 | N | |
| 070 | K010000 | N | |
| 070 | K020000 | N | |
| 070 | L010000 | N | |
| | PAGE | 6 | |
| 070 | L020000 | N | |
| 070 | M010000 | N | |
| 070 | M020000 | N | |
| 070 | N010000 | N | |
| 070 | N020000 | N | |
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| 070 | O020000 | N | |
| 070 | P010000 | N | |
| 070 | P020000 | N | |
| 070 | Q010000 | N | |
| 070 | Q020000 | N | |
| 070 | R010000 | N | |
| 070 | R020000 | N | |
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| 072 | Z000000 | | 843 |
| 072AA | 000000 | | 2 |
| 072BB | 000000 | | 0 |
| 072CC | 010000 | | 285 |

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| | |
|-------------|--------|
| 072CC020000 | 0 |
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| 073 A010000 | 0.3660 |
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| 074 D000000 | 53418 |
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| 074 R030000 | 0 |
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| 086 B020000 | 0 |
| 086 C010000 | 0 |
| 086 C020000 | 0 |
| 086 D010000 | 0 |
| 086 D020000 | 0 |
| PAGE 8 | |
| 086 E010000 | 0 |
| 086 E020000 | 0 |
| 086 F010000 | 0 |
| 086 F020000 | 0 |

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087 A010000 COMMON STOCK
087 A020000 67060Q108
087 A030000 NOM
088 A000000 N
088 B000000 N
088 C000000 N
088 D000000 N
SIGNATURE STEPHEN D. FOY
TITLE V.P. & CONTROLLER