

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  
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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                   |
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| 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 | A000003 | UBS                   |
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| 022 | A000004 | PIPER JAFFRAY         |
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| 022 | A000005 | JP MORGAN CHASE       |
| 022 | B000005 | 13-3224016            |
| 022 | C000005 | 507                   |
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| 022 | A000006 | RBC CAPITAL MARKETS   |
| 022 | B000006 | 41-0212020            |
| 022 | C000006 | 264                   |
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| 022 | A000007 | CAIN BROTHERS         |
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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  
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054 I000000 N  
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054 K000000 N  
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054 M000000 Y  
054 N000000 N  
054 O000000 Y  
055 A000000 N  
055 B000000 N  
056 000000 Y  
057 000000 N  
058 A000000 N  
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060 A000000 Y  
060 B000000 Y

PAGE 5

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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   | G010000 | Y |       |
| 070   | G020000 | N |       |
| 070   | H010000 | N |       |
| 070   | H020000 | N |       |
| 070   | I010000 | N |       |
| 070   | I020000 | N |       |
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| 070   | J020000 | N |       |
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| 070   | K020000 | N |       |
| 070   | L010000 | N |       |
|       | PAGE    | 6 |       |
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| 070   | M020000 | N |       |
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| 072BB | 000000  |   | 0     |
| 072CC | 010000  |   | 285   |

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| 072DD010000 | 855    |
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| 086 C020000 | 0      |
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| PAGE 8      |        |
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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