

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 25, 2005

PAGE 1  
000 B000000 05/31/2005  
000 C000000 0000899782  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
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001 B000000 811-07616  
001 C000000 3129178200  
002 A000000 333 WEST WACKER DRIVE  
002 B000000 CHICAGO  
002 C000000 IL  
002 D010000 60606  
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007 C010500 5  
007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
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008 A000001 NUVEEN ASSET MANAGEMENT  
008 B000001 A  
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012 A000001 EQUISERVE INC.  
012 B000001 84-05925  
PAGE 2  
012 C010001 PROVIDENCE  
012 C020001 RI  
012 C030001 02940  
013 A000001 ERNST & YOUNG LLP  
013 B010001 CHICAGO  
013 B020001 IL

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013 B030001 60606  
014 A000001 NUVEEN INVESTMENTS, LLC  
014 B000001 8-13464  
015 A000001 STATE STREET BANK AND TRUST COMPANY  
015 B000001 C  
015 C010001 BOSTON  
015 C020001 MA  
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021 000000 0  
022 A000001 GEORGE K. BAUM  
022 B000001 44-0522232  
022 C000001 317  
022 D000001 1710  
022 A000002 BANK OF AMERICA  
022 B000002 56-2058405  
022 C000002 1444  
022 D000002 528  
022 A000003 ZIEGLER SECURITIES  
022 B000003 39-0727640  
022 C000003 1725  
022 D000003 0  
022 A000004 UBS FINANCIAL SERVICES  
022 B000004 13-2638166  
022 C000004 546  
PAGE 3  
022 D000004 555  
022 A000005 STIFEL, NICOLAUS & CO.  
022 B000005 43-0538770  
022 C000005 0  
022 D000005 1056  
022 A000006 CREWS & ASSOC.  
022 B000006 71-0522369  
022 C000006 0  
022 D000006 1053  
022 A000007 US BANK  
022 B000007 91-1157893  
022 C000007 1028  
022 D000007 0  
022 A000008 FIRST ALBANY CORP.  
022 B000008 14-1391446  
022 C000008 0

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054	I000000	N
054	J000000	Y
054	K000000	N
054	L000000	N

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054 M000000 Y  
054 N000000 N  
054 O000000 Y  
055 A000000 Y  
055 B000000 N  
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PAGE 6  
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070 H010000 N  
070 H020000 N  
070 I010000 N  
070 I020000 N  
070 J010000 Y  
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070 K010000 N  
070 K020000 N

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070	L010000	N	
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074	F000000	0
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086	F020000	0
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087	A020000	67060Q108
087	A030000	NOM
088	A000000	N
088	B000000	N

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088 C000000 N

088 D000000 Y

SIGNATURE   STEPHEN D. FOY

TITLE         V.P. & CONTROLLER