

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 26, 2007

PAGE 1  
000 B000000 05/31/2007  
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  
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002 D010000 60606  
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007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
008 A000001 NUVEEN ASSET MANAGEMENT  
008 B000001 A  
008 C000001 801-14147  
008 D010001 CHICAGO  
008 D020001 IL  
008 D030001 60606  
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012 A000001 EQUISERVE INC.  
012 B000001 84-05925  
012 C010001 PROVIDENCE  
012 C020001 RI  
012 C030001 02940  
013 A000001 ERNST & YOUNG LLP  
013 B010001 CHICAGO  
013 B020001 IL  
013 B030001 60606  
014 A000001 NUVEEN INVESTMENTS, LLC  
014 B000001 8-13464  
PAGE 2  
015 A000001 STATE STREET BANK AND TRUST COMPANY  
015 B000001 C  
015 C010001 BOSTON  
015 C020001 MA  
015 C030001 02110  
015 E010001 X

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018 000000 Y  
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 022 B000001 13-2655998  
 022 C000001 3968  
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 022 A000002 A.G. EDWARDS INC  
 022 B000002 43-0895447  
 022 C000002 1120  
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 022 A000003 GEORGE K. BAUM & CO.  
 022 B000003 44-0522232  
 022 C000003 2000  
 022 D000003 623  
 022 A000004 STIFEL, NICOLAUS & CO  
 022 B000004 43-0538770  
 022 C000004 207  
 022 D000004 1845  
 022 A000005 RBC DOMINION  
 022 B000005 13-5033225  
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 022 B000006 43-1326319  
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 022 A000007 RYAN, BECK & CO  
 022 B000007 22-1773796  
 022 C000007 0  
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 022 A000008 JANNEY MONTGOMERY  
 022 B000008 23-2211143  
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 022 C000008 0  
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 022 B000009 13-2638166  
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087	A020000	67060Q108
087	A030000	NOM
088	A000000	N
088	B000000	N
088	C000000	N
	PAGE	9
088	D000000	Y
SIGNATURE	STEPHEN D. FOY	
TITLE	V.P. & CONTROLLER	