

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 29, 2008

PAGE 1  
000 B000000 05/31/2008  
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 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  
008 D040001 1286  
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 13-2728032  
022 C000001 0  
022 D000001 1374  
022 A000002 PIPER JAFFRAY  
022 B000002 41-0953246  
022 C000002 484  
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022 A000003 GEORGE K. BAUM & CO  
022 B000003 44-0522232  
022 C000003 516  
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022 A000004 ZIEGLER SECURITIES  
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022 A000007 BOSC INC  
022 B000007 73-1275307  
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022 A000008 A.G. EDWARDS INC  
022 B000008 43-0895447  
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022 C000008 0  
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022 A000009 STIFEL, NICOLAUS & CO  
022 B000009 43-0538770  
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023 C000000 2253  
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062 F000000 0.0  
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 063 B000000 9.5

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 069 000000 N  
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 070 Q020000 N  
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 071 A000000 2253  
 071 B000000 3088  
 071 C000000 49174

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071 D000000	5
072 A000000	12
072 B000000	2533
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PAGE 8	
074 R020000	0
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074 S000000	16000

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074	T000000	31170
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077	B000000	Y
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078	000000	N
080	A000000	CHUBB GROUP OF INSURANCE COMPANIES
080	B000000	AIG, GREAT AMERICAN, ST. PAUL & CNA
080	C000000	110000
081	A000000	Y
081	B000000	185
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087	A020000	67060Q108
087	A030000	NOM
088	A000000	N
088	B000000	N
088	C000000	N
088	D000000	Y

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SIGNATURE STEPHEN D. FOY  
TITLE V.P. & CONTROLLER