

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  
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003 000000 N  
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007 C010100 1  
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007 C010500 5  
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  
 019 A000000 Y  
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 022 A000001 ROOSEVELT & CROSS  
 022 B000001 13-2728032  
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 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  
 022 B000004 39-0727640  
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 022 B000006 13-2655998  
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 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  
 022 D000008 242  
 022 A000009 STIFEL, NICOLAUS & CO  
 022 B000009 43-0538770  
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 023 D000000 3088  
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062	R000000	0.0
063	A000000	0
063	B000000	9.5

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066	A000000	N
067	000000	N
068	A000000	N
068	B000000	N
069	000000	N
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070	O020000	N
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070	Q010000	N
070	Q020000	N
070	R010000	N
070	R020000	N
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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072 H000000	0
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072 R000000	1
072 S000000	1
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072DD010000	1506
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074 P000000	25
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PAGE 8	
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074 R040000	2357
074 S000000	16000

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074	T000000	31170
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074	U020000	0
074	V010000	13.52
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077	B000000	Y
077	Q010000	Y
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
082	A000000	N
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086	E020000	0
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086	F020000	0
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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