

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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007 C010600 6
007 C010700 7
007 C010800 8
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007 C011000 10
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008 C000001 801-14147
008 D010001 CHICAGO
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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 A000002 A.G. EDWARDS INC
022 B000002 43-0895447
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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
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022 B000005 13-5033225
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022 B000006 43-1326319
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022 A000007 RYAN, BECK & CO
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022 A000008 JANNEY MONTGOMERY
022 B000008 23-2211143
PAGE 3
022 C000008 0
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022 B000010 41-0953246
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067 000000 N
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068 B000000 N
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070 P020000 N
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071 B000000 7803
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 072 A000000 12
 072 B000000 2513

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074 Q000000 0
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074	R040000	2155
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077	A000000	Y
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078	000000	N
080	A000000	CHUBB GROUP OF INSURANCE COMPANIES
080	B000000	AIG, GREAT AMERICAN, CNA & ST. PAUL
080	C000000	100000
081	A000000	Y
081	B000000	175
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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	