

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 28, 2004

PAGE 1
000 B000000 05/31/2004
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 811-7616
001 C000000 3129178200
002 A000000 333 WEST WACKER DRIVE
002 B000000 CHICAGO
002 C000000 IL
002 D010000 60606
002 D020000 1286
003 000000 N
004 000000 N
005 000000 N
006 000000 N
007 A000000 N
007 B000000 0
007 C010100 1
007 C010200 2
007 C010300 3
007 C010400 4
007 C010500 5
007 C010600 6
007 C010700 7
007 C010800 8
007 C010900 9
007 C011000 10
008 A000001 NUVEEN ADVISORY CORP
008 B000001 A
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008 D040001 1286
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012 A000001 EQUISERVE INC.
012 B000001 84-05925
PAGE 2
012 C010001 BOSTON
012 C020001 MA
012 C030001 02940
013 A000001 ERNST & YOUNG
013 B010001 CHICAGO
013 B020001 IL

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013 B030001 60611
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
015 C030001 02206
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020 C000009 0
020 C000010 0
021 000000 0
022 A000001 BANK OF AMERICA
022 B000001 56-2058405
022 C000001 2669
022 D000001 1156
022 A000002 FAHNESTOCK & CO.
022 B000002 13-5657518
022 C000002 3410
022 D000002 0
022 A000003 A.G. EDWARDS
022 B000003 43-0895447
022 C000003 1507
022 D000003 766
022 A000004 GRIFFIN KUBIK STEPHENS & THOMPSON
022 B000004 36-3083013
022 C000004 0
PAGE 3
022 D000004 1479
022 A000005 W.H. MELL
022 B000005 22-3023019
022 C000005 53
022 D000005 1339
022 A000006 KIRKPATRICK
022 B000006 47-0301070
022 C000006 1182
022 D000006 0
022 A000007 US BANCORP PIPER JAFFRAY, INC.
022 B000007 41-0953246
022 C000007 0
022 D000007 1105
022 A000008 CITIGROUP
022 B000008 13-3214963
022 C000008 509

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022	D000008	524
022	A000009	BB&T CAPITAL MARKETS
022	B000009	54-0294670
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022	D000009	980
022	A000010	WACHOVIA SECURITIES
022	B000010	56-0927594
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022	D000010	967
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053	A000000	N
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054	B000000	N
054	C000000	N
054	D000000	N
054	E000000	N
054	F000000	N
054	G000000	N
054	H000000	Y
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
056 000000 N
057 000000 N
058 A000000 N
059 000000 Y
060 A000000 Y
060 B000000 Y
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062 A000000 Y
062 B000000 0.0
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PAGE 6
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062 N000000 0.0
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062 P000000 0.0
062 Q000000 0.0
062 R000000 0.0
063 A000000 0
063 B000000 8.7
064 A000000 Y
064 B000000 N
066 A000000 N
067 000000 N
068 A000000 N
068 B000000 N
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070 A010000 Y
070 A020000 N
070 B010000 N
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070 C010000 Y
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070 F020000 N
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070 G020000 N
070 H010000 N
070 H020000 N
070 I010000 N
070 I020000 N
070 J010000 Y
070 J020000 N
070 K010000 N
070 K020000 N

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070	L010000	N	
070	L020000	N	
070	M010000	N	
070	M020000	N	
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070	N020000	N	
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074	C000000		0
074	D000000		46903
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074	F000000	0
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077	Q020000	Y
078	000000	N
080	A000000	CHUBB GROUP OF INSURANCE COMPANIES
080	B000000	QUANTA INDEMNITY, AIG, GREAT AMERICAN, CNA
080	C000000	90000
081	A000000	Y
081	B000000	143
082	A000000	N
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083	B000000	0
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085	A000000	Y
085	B000000	N
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086	E020000	0
086	F010000	0
086	F020000	0
087	A010000	COMMON STOCK
087	A020000	67060Q108
087	A030000	NOM

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088 A000000 N

088 B000000 N

088 C000000 N

088 D000000 Y

SIGNATURE STEPHEN D. FOY

TITLE V.P. & CONTROLLER