

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 28, 2010

PAGE 1  
000 B000000 05/31/2010  
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  
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007 C010500 5  
007 C010600 6  
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007 C010900 9  
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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 43-0538770  
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022 A000002 MORGAN STANLEY  
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022 A000003 GEORGE K. BAUM & CO.  
022 B000003 44-0522232  
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022 A000004 MERRILL LYNCH  
022 B000004 13-5674085  
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071	D000000	7
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072	B000000	2341
072	C000000	0
072	D000000	0
072	E000000	0
072	F000000	296
072	G000000	0

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072 H000000 0  
 072 I000000 13  
 072 J000000 14  
 072 K000000 7  
 072 L000000 14

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 072 O000000 0  
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 072 T000000 0  
 072 U000000 0  
 072 V000000 0  
 072 W000000 48  
 072 X000000 415  
 072 Y000000 0  
 072 Z000000 1926  
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PAGE 8

074 V020000 0.00  
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 074 Y000000 4212

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075	A000000	0
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076	000000	16.50
077	A000000	Y
077	B000000	Y
077	C000000	Y
078	000000	N
080	A000000	CHUBB GROUP INSURANCE COMPANIES
080	B000000	BERKLEY, GREAT AMERICAN, ST. PAUL & CNA
080	C000000	110000
081	A000000	Y
081	B000000	199
082	A000000	N
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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
SIGNATURE	STEPHEN D. FOY	
TITLE	V.P. & CONTROLLER	