

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
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001 C000000 3129178200
002 A000000 333 WEST WACKER DRIVE
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007 C010600 6
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007 C010800 8
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008 C000001 801-14147
008 D010001 CHICAGO
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012 A000001 EQUISERVE INC.
012 B000001 84-05925
012 C010001 PROVIDENCE
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013 A000001 ERNST & YOUNG LLP
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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
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015 C010001 BOSTON
015 C020001 MA
015 C030001 02110
015 E010001 X

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018 000000 Y
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072 H000000 0
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074 V020000 0.00
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075	A000000	0
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077	A000000	Y
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080	A000000	CHUBB GROUP INSURANCE COMPANIES
080	B000000	BERKLEY, GREAT AMERICAN, ST. PAUL & CNA
080	C000000	110000
081	A000000	Y
081	B000000	199
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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	