

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 28, 2010

PAGE 1
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000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
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008 D040001 1286
012 A000001 EQUISERVE INC.
012 B000001 84-05925
012 C010001 PROVIDENCE
012 C020001 RI
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013 A000001 ERNST & YOUNG LLP
013 B010001 CHICAGO
013 B020001 IL
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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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072 H000000 0
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075 A000000 0
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080 B000000 BERKLEY, GREAT AMERICAN, ST. PAUL & CNA
080 C000000 110000
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088 A000000 N
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SIGNATURE STEPHEN D. FOY
TITLE V.P. & CONTROLLER