

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 28, 2008

PAGE 1
000 A000000 09/30/2008
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000 H000000 N
000 I000000 6.1
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
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PAGE 2
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011 C010002 STAMFORD

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011 C020002 CT
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
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011 A000006 WACHOVIA CAPITAL MARKETS, LLC
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011 C020006 VA
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012 A000001 PIONEER INVEST. MGMT. SHAREHOLDER SERVICES
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO.
012 B000002 85-00000
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
012 B000003 85-00000
012 C010003 NEW YORK CITY
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013 A000001 ERNST & YOUNG, LLP
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PAGE 3
015 A000001 BROWN BROTHERS HARRIMAN & CO.
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 022 A000004 B.C. ZIEGLER AND CO.
 022 B000004 39-0727640
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 022 A000005 PIPER JAFFRAY & CO.
 022 B000005 41-0953246
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 022 A000006 CITIGROUP GLOBAL MARKETS, INC.
 022 B000006 11-2418191
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 022 A000007 BB&T INVESTMENTS SERVICES, INC.
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 022 A000009 RBC CAPITAL MARKETS CORP.
 022 B000009 13-5033225
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SIGNATURE	MARY KELLERMANN		
TITLE	ACCOUNTING MANAGER		