

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST  
Form N-PX  
August 20, 2013

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM N-PX  
ANNUAL REPORT OF PROXY VOTING RECORD OF REGISTERED  
MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-21409  
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Pioneer Municipal High Income Advantage Trust  
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(Exact name of registrant as specified in charter)

60 State Street Boston, MA 02109  
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(Address of principal executive offices)

Terrence J. Cullen  
60 State Street  
Boston, MA 02109  
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(Name and address of agent for service)

Registrant's telephone number, including area code: (617) 742-7825

Date of fiscal year end: March 31

Date of reporting period: July 1, 2012 to June 30, 2013

SIGNATURES

Pursuant to the requirements of the Investment Company Act of 1940, the  
registrant has duly caused this report to be signed on its behalf by the  
undersigned, thereunto duly authorized.

(Registrant) Pioneer Municipal High Income Advantage Trust

By (Signature and Title) /s/ John F. Cogan, Jr.  
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John F. Cogan, Jr., President

Date August 20, 2013  
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===== Pioneer Municipal High Income Advantage Trust =====

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ILLINOIS FIN AUTH REV

Ticker: Security ID: 45200BZL5  
Meeting Date: OCT 17, 2012 Meeting Type: Written Consent  
Record Date: SEP 06, 2012

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1	To Accept The Plan	None	For	Management

===== END NPX REPORT