

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

PIONEER HIGH INCOME TRUST
Form N-CSR
November 28, 2011

OMB APPROVAL
OMB Number: 3235-0570
Expires: August 31, 2013
Estimated average burden
hours per response.....18.9

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

FORM N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED
MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-21043

Pioneer High Income Trust
(Exact name of registrant as specified in charter)

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

Terrence J. Cullen, Pioneer Investment Management, Inc.,
60 State Street, Boston, MA 02109
(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: April 1, 2011 through September 30, 2011

Form N-CSR is to be used by management investment companies to file reports with the Commission not later than 10 days after the transmission to stockholders of any report that is required to be transmitted to stockholders under Rule 30e-1 under the Investment Company Act of 1940 (17 CFR 270.30e-1). The Commission may use the information provided on Form N-CSR in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-CSR, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-CSR unless the Form displays a currently valid Office of Management and Budget ("OMB") control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. ss. 3507.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

ITEM 1. REPORTS TO SHAREOWNERS.

Pioneer High Income Trust

Semiannual Report | September 30, 2011

Ticker Symbol: PHT

[LOGO] PIONEER
Investments (R)

visit us: us.pioneerinvestments.com

Table of Contents

Letter to Shareowners	2
Portfolio Management Discussion	4
Portfolio Summary	9
Prices and Distributions	10
Performance Update	11
Schedule of Investments	12
Financial Statements	38
Notes to Financial Statements	43
Trustees, Officers and Service Providers	54

Pioneer High Income Trust | Semiannual Report | 9/30/11 1

President's Letter

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Dear Shareowner,

During the first three quarters of 2011, the U.S. economy struggled to gain solid footing. The economy went through a soft patch in the first half, and the second half, so far, has been highlighted by the U.S. government's battle over the debt ceiling and Standard & Poor's downgrade of the U.S. Treasury's credit rating from the top rating of "AAA" for the first time in history. After rallying nicely in the first half, U.S. equity markets reacted sharply this summer to the political stalemate and the downgrade. There has been continued pressure on equities due to concerns about the growing European sovereign-debt crisis and its potential impact on the global economy.

Despite legitimate reasons for concern, we believe there are also reasons for optimism that the U.S. economy will continue to exhibit low to flat growth and not head into a severe recession. Corporations continue to post solid earnings and, for the most part, are maintaining their positive earnings outlooks. They also have strong balance sheets with improved net leverage and high cash levels. Auto production has rebounded following the Japanese supply chain interruptions caused by the earthquake and tsunami last spring. Retail sales growth year-over-year has remained strong despite low consumer confidence. And despite high unemployment in the U.S., private sector employment has grown consistently since February 2010. There are certainly risks to our outlook, including possible contagion from the European sovereign-debt and banking crisis, the fiscal drag from federal and state budget cuts in the U.S., as well as potential "negative feedback loops" from capital market volatility. But broadly speaking, we think this subpar economic recovery is consistent with recoveries from other "balance sheet"-caused recessions.

The difficult recovery process has been accompanied by wide market swings. While this is a challenging environment, our investment professionals continue to focus on finding good opportunities to invest in both equity and bond markets using the same disciplined approach Pioneer has used since 1928. Our approach is to identify undervalued individual securities with the greatest potential for success, carefully weighing risk against reward. Our teams of investment professionals continually monitor and analyze the relative valuations of different sectors and securities globally to help build portfolios that we believe can help you achieve your investment goals.

2 Pioneer High Income Trust | Semiannual Report | 9/30/11

At Pioneer, we have long advocated the benefits of staying diversified and investing for the long term. The strategy has generally performed well for many investors. Our advice, as always, is to work closely with a trusted financial advisor to discuss your goals and work together to develop an investment strategy that meets your individual needs. There is no single best strategy that works for every investor.

We invite you to learn more about Pioneer and our time-tested approach to investing by consulting with your financial advisor or visiting us online at us.pioneerinvestments.com. We greatly appreciate your trust in us and we thank you for investing with Pioneer.

Sincerely,

/s/ Daniel K. Kingsbury

Daniel K. Kingsbury
President and CEO
Pioneer Investment Management USA, Inc.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Any information in this shareowner report regarding market or economic trends or the factors influencing the Trust's historical or future performance are statements of opinion as of the date of this report. These statements should not be relied upon for any other purposes. Past performance is no guarantee of future results, and there is no guarantee that market forecasts discussed will be realized.

Pioneer High Income Trust | Semiannual Report | 9/30/11 3

Portfolio Management Discussion | 9/30/11

Mounting investor aversion to risk led to deteriorating performance by corporate high-yield bonds and other perceived risky investments during the six-month period ended September 30, 2011. As the period progressed, investors increasingly sought ways to reduce credit risk amid growing unease about the health of the economy. In the following interview, Andrew Feltus discusses the factors that influenced the performance of Pioneer High Income Trust over the six-month period. Mr. Feltus, senior vice president and portfolio manager at Pioneer, and a member of Pioneer's fixed-income team, is responsible for the daily management of the Trust.

Q How did Pioneer High Income Trust perform during the six months ended September 30, 2011?

A Pioneer High Income Trust produced a total return of -9.92% at net asset value and 3.17% at market price during the six months ended September 30, 2011, with shares of the Trust selling at a 32.2% premium to net asset value at the end of the period. During the same six-month period, the Trust's benchmark, the Bank of America Merrill Lynch High Yield Master II Index (the BofA ML Index), returned -5.39%. Unlike the Trust, the BofA ML Index is not leveraged. Over the same six-month period ended September 30, 2011, the average return (at market price) of the 39 closed end funds in Lipper's High Current Yield Closed End Funds (Leveraged) category was -6.70%. On September 30, 2011, the 30-day SEC yield on the Trust's shares was 11.02%.

Q What factors influenced the performance of the Trust during the six months ended September 30, 2011?

A A general deterioration in investor confidence led to negative performance by high-yield bonds generally, and in the performance of the Trust at net asset value over the six month ended September 30, 2011. The Trust's use of leverage in the falling market was the major factor leading to its underperformance relative to the BofA ML Index. The Trust's emphasis on lower-rated high-yield bonds also had a negative effect against performance, relative to the BofA ML Index, as securities with higher credit ratings generally held up better than lower-rated bonds during the period. The Trust's return at market price was a somewhat different story. Over the six months, the Trust generated a positive total return at market price, helped by consistent dividends and a share price that fluctuated less than the high-yield market.

Q How would you describe the investment environment during the six months ended September 30, 2011, and its effect on the Trust?

A The six-month period was marked by growing concerns that the economy was weakening. As a consequence, investments that carried credit risk fell

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

4 Pioneer High Income Trust | Semiannual Report | 9/30/11

sharply in price, especially in the third quarter (July-September 2011). High-yield bonds, which had performed positively during the first half of 2011, were particularly affected when investors grew more worried about the health of the economy and about the ability of policy makers, both home and abroad, to deal with problems such as the European sovereign-debt crisis and a raising of the U.S. debt ceiling. While these concerns finally gripped the market in the third quarter, hints of economic deterioration actually had begun to be revealed in April 2011, when weakness appeared in the market for mortgage-backed securities. As the spring progressed, sovereign-debt problems in Greece and several other European countries once again began to capture the attention of investors, raising new concerns about the potential contagious effects that European debt problems might have on the global economy. In particular, investors grew more worried that the widening sovereign-debt problems could expose weakness in the financial health of major European banks, many of which appeared to be under-capitalized. As the six-month period ended on September 30, 2011, a resolution to the debt problems in Europe appeared to be far from settled.

Investor confidence was shaken further during the summer months by a series of developments in the United States, where new reports indicated a deceleration of economic growth trends. While retail sales seemed to hold up, industrial production appeared to slow, at least partly due to the effects of the March 2011 earthquake and tsunami in Japan. Unemployment remained high, and the growth of the economy, as measured by gross national product, slowed to a 1.3% annual pace for the second quarter of 2011 (April-June). At the same time, political stalemate in Washington, D.C., highlighted by the debate over the national debt ceiling, further undermined investor confidence that U.S. policy makers could reach consensus. In August, almost immediately after the debt ceiling debate was concluded, the Standard & Poor's (S&P) credit rating agency downgraded its rating for U.S. Treasury securities from the top level of AAA for the first time since the rating was first awarded to the U.S. by one of S&P's predecessor firms in 1917. In response to all the negative news, the demand for high-yield bonds and for other credit-sensitive securities weakened as anxious investors sought out higher-rated debt. As corporate bond prices fell, the yield spreads between high-yield bonds and Treasuries widened substantially, reflecting the market's demand for higher yields in exchange for taking on credit risk.

Q How was the Trust's portfolio of investments positioned during the six months ended September 30, 2011, and how did the positioning affect the Trust's performance?

A We maintained a consistent investment strategy for the Trust throughout the six months, emphasizing high-yield corporate securities. At September 30, 2011, for example, 69.1% of the Trust's total investment portfolio was

Pioneer High Income Trust | Semiannual Report | 9/30/11 5

invested in U.S. high-yield corporate debt. We believed that the price declines in high-yield bonds were inconsistent with the underlying fundamentals of the companies and securities in which we invested the Trust, and that the fears of a double-dip recession were overstated. For example, the yield spreads of high-yield bonds compared with Treasury securities widened over the six months, to levels consistent with a nearly 10% annual default rate for the debt. (Spreads in this case are defined as the differences in yield between Treasuries and higher-yielding

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

securities.) However, the trailing 12-month default rate for high-yield bonds was just 2%. Even factoring in future increases in the default rate, we thought that the high-yield bond prices represented good values, especially as corporate earnings growth continued to be solid. The emphasis on lower-quality holdings tended to hold back the Trust's results when high-yield bonds declined in price, especially over the final three months of the period as lower-quality securities underperformed the BofA ML Index, despite their higher yields.

A number of investments contributed positively to the Trust's results over the six-month period, despite the overall market trend. One of the highlights came from our decision early in 2011 to take advantage of good investment opportunities in municipal bonds. We found that municipal bonds, in general, were trading at better prices than comparable maturity and quality taxable bonds, and so we established positions in that market for the Trust, maintaining an average weighting of 4.3% of the Trust's total investment portfolio at the end of the period. The decision supported the Trust's performance as municipals recovered over the six-month period. The Trust's investments in bank loans, which also are not part of the BofA ML benchmark index, also held up relatively well. Bank loans accounted for 5.2% of the Trust's total investment portfolio as of September 30, 2011.

Among individual investments, the Trust's performance was helped by the bonds of three companies whose debts were expected to be refinanced when they were acquired. They included bonds of: PAETEC, a broadband services provider; Aker Drilling, an offshore oil drilling firm; and Vangent, which provides information technology services to government agencies. In addition, Vanguard Health Systems, which operates several hospitals, had a successful initial public stock offering and retired its existing subordinated debt.

While those corporate events helped the Trust's performance, the takeover of Graham Packaging by Reynolds Group proved a negative for the Trust over the period. We had invested the Trust in the debt of both companies, but Graham's debt was not retired at the time of the acquisition and Reynolds increased its indebtedness during the deal, resulting in declines in the prices for the securities of both companies. Another of the Trust's investments that did not help performance was the debt of Sevan Marine,

6 Pioneer High Income Trust | Semiannual Report | 9/30/11

which manufactures offshore drilling platforms for the energy industry. The company restructured its debt when it ran into cash-flow problems.

Q Could you describe how leverage is used in managing the Trust?

A The Trust employs leverage provided by auction market-preferred shares to invest the Trust in additional higher-yielding securities that typically pay higher dividends than the dividend rates payable on the preferred shares, thereby increasing the Trust's yield. The use of leverage can increase the Trust's potential to pay higher yields to its shareowners than would generally be paid by an unleveraged portfolio. During periods of low market interest rates and modest borrowing costs, the use of leverage can have a significant positive effect on the Trust's yield. However, just as the use of leverage provides the potential to enhance yield, it also can increase investment risk. During periods when high-yield bond prices tend to change, the use of leverage can magnify the effect of changing prices on the Trust's total return, which is the combination of yield and price change. When bond prices rise, the use of leverage can further enhance the Trust's total return; when bond prices decline, the use of leverage can

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

magnify the price loss to the Trust.

Q Did the level of leverage in the Trust change over the six months?

A At the end of the six-month period (September 30, 2011), 30.3% of the Trust's total managed assets were financed by leverage. While the figure was higher than the 27.3% of the Trust's managed assets leveraged at the beginning of the six-month period on April 1, 2011, the increase was due to declines in the values of the bonds held by the Trust. The absolute amount of leverage used by the Trust was unchanged over the six months ended September 30, 2011.

Q What is your investment outlook?

A We expect the economy to maintain its growth trajectory, at a slow-but-steady pace. The risks of a "double-dip" recession are, in our opinion, overblown. Corporate profits should continue to be healthy, especially in the industrials sector, which we tend to emphasize in managing the Trust. While we think it is possible that the default rate for high-yield bonds may rise, we don't expect that the rate will approach the levels consistent with the price of high-yield bonds in the current market. As a result, we believe those securities are undervalued and represent good opportunities. We think the main threats to the market stem from a lack of confidence in the ability of governments to deal with their financial problems, rather than any renewed fundamental weakness in the private sector.

Please refer to the Schedule of Investments on pages 12-37 for a full listing of Trust securities.

Pioneer High Income Trust | Semiannual Report | 9/30/11 7

Investments in high-yield or lower-rated securities are subject to greater-than-average risk. The Trust may invest in securities of issuers that are in default or that are in bankruptcy.

Investing in foreign and/or emerging markets securities involves risks relating to interest rates, currency exchange rates, economic, and political conditions.

When interest rates rise, the prices of fixed-income securities in the Trust will generally fall. Conversely, when interest rates fall the prices of fixed-income securities in the Trust will generally rise. Investments in the Trust are subject to possible loss due to the financial failure of the issuers of the underlying securities and their inability to meet their debt obligations.

The Trust may invest up to 50% of its total assets in illiquid securities. Illiquid securities may be difficult to dispose of at a fair price at the times when the Trust believes it is desirable to do so, and their market price is generally more volatile than that of more liquid securities. Illiquid securities are also more difficult to value and investment of the Trust's assets in illiquid securities may restrict the Trust's ability to take advantage of market opportunities.

The Trust currently uses leverage through the issuance of preferred shares. Leverage creates significant risks, including the risk that the Trust's income or capital appreciation will not be sufficient to cover the cost of leverage, which may adversely affect the return for the holders of common shares. Since February of 2008, regularly scheduled auctions for the Trust's preferred shares have failed and preferred shareowners have not been able to sell their shares

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

at auction. The Board of Trustees of the Trust has considered, and continues to consider, this issue.

The Trust is required to maintain certain regulatory and rating agency asset coverage requirements in connection with its outstanding preferred shares. In order to maintain required asset coverage levels, the Trust may be required to alter the composition of its investment portfolio or take other actions, such as redeeming preferred shares with the proceeds from portfolio transactions, at what might be inopportune times in the market. Such actions could reduce the net earnings or returns to holders of the Trust's common shares over time.

Risks of investing in the Trust are discussed in greater detail in the Trust's original offering documents relating to its common shares and shareowner reports issued from time to time.

These risks may increase share price volatility.

Past performance is no guarantee of future results, and there is no guarantee that market forecasts discussed will be realized.

Any information in this shareowner report regarding market or economic trends or the factors influencing the Trust's historical or future performance are statements of opinion as of the date of this report. These statements should not be relied upon for any other purposes.

8 Pioneer High Income Trust | Semiannual Report | 9/30/11

Portfolio Summary | 9/30/11

Portfolio Diversification

(As a percentage of total investment portfolio)

[THE FOLLOWING DATA WAS REPRESENTED AS A PIE CHART IN THE PRINTED MATERIAL]

Corporate Bonds & Notes	79.7%
Floating Rate Loan Interests	5.2%
Convertible Bonds & Notes	5.0%
Municipal Bonds	4.3%
Asset Backed Securities	2.1%
Common Stock	1.5%
Sovereign Debt Obligations	0.7%
Preferred Stock	0.5%
Municipal Collateralized Debt Obligations	0.4%
Convertible Preferred Stock	0.3%
Collateralized Mortgage Obligations	0.3%
Rights/Warrants*	0.0%

*Less than 0.01%

Portfolio Maturity

(As a percentage of long-term holdings)

[THE FOLLOWING DATA WAS REPRESENTED AS A PIE CHART IN THE PRINTED MATERIAL]

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

0-1 year	19.5%
1-3 years	21.6%
3-4 years	7.2%
4-6 years	13.5%
6-8 years	14.0%
8 + years	24.2%

10 Largest Holdings

(As a percentage of long-term holdings) *

1.	NCO Group, Inc., 11.875%, 11/15/14	1.32%
2.	Cia Brasileira de Bebida, 10.5%, 12/15/11	1.22
3.	Allmerica Financial Corp., 7.625%, 10/15/25	1.21
4.	Southern States Cooperative, Inc., 11.25%, 5/15/15 (144A)	1.18
5.	Charlotte Special Facilities Refunding Revenue, 5.6%, 7/1/27	1.13
6.	HUB International Holdings, Inc., 10.25%, 6/15/15 (144A)	1.03
7.	Forest City Enterprises, Inc., 7.625%, 6/1/15	0.98
8.	Teck Resources, Ltd., 10.25%, 5/15/16	0.97
9.	Sally Holdings LLC, 10.5%, 11/15/16	0.97
10.	Chrysler Group LLC/CG Co-Issuer, Inc., 8.0%, 6/15/19 (144A)	0.95

* This list excludes temporary cash investments and derivative instruments. The portfolio is actively managed, and current holdings may be different. The holdings listed should not be considered recommendations to buy or sell any security listed.

Pioneer High Income Trust | Semiannual Report | 9/30/11 9

Prices and Distributions | 9/30/11

Market Value per Common Share

	9/30/11	3/31/11
	\$16.35	\$16.55
Premium	32.2%	15.5%

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Net Asset Value per Common Share

	9/30/11	3/31/11
	\$12.37	\$14.33

Distributions per Common Share

	Net Investment Income	Short-Term Capital Gains	Long-Term Capital Gains
4/1/11 - 9/30/11	\$0.8250	\$ --	\$ --

10 Pioneer High Income Trust | Semiannual Report | 9/30/11

Performance Update | 9/30/11

Investment Returns

The mountain chart on the right shows the change in market value, plus reinvested dividends and distributions, of a \$10,000 investment made in common shares of Pioneer High Income Trust, compared to that of the Bank of America Merrill Lynch High Yield Master II Index.

Cumulative Total Returns
(As of September 30, 2011)

Period	Net Asset Value (NAV)	Market Price
Life-of-Trust (4/26/02)	169.47%	240.53%
5 Years	46.69	76.13
1 Year	0.84	11.79

[THE FOLLOWING DATA WAS REPRESENTED AS A MOUNTAIN CHART IN THE PRINTED MATERIAL]

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

VALUE OF \$10,000 INVESTMENT

	Pioneer High Income Trust	Bank of America Merrill Lynch High Yield Master II Index
4/02	10000 8877	10000 8879
9/03	12377 14580	11481 12899
9/05	15473 18371	13763 14855
9/07	19897 17574	16004 14141
9/09	20827 26722	17302 20506
9/11	34053	20777

Call 1-800-225-6292 or visit us.pioneerinvestments.com for the most recent month-end performance results. Current performance may be lower or higher than the performance data quoted.

Performance data shown represents past performance. Past performance is no guarantee of future results. Investment return and market price will fluctuate, and your shares may trade below NAV, due to such factors as interest rate changes and the perceived credit quality of borrowers.

Total investment return does not reflect broker sales charges or commissions. All performance is for common shares of the Trust.

Closed-end funds, unlike open-end funds, are not continuously offered. There is a one-time public offering and, once issued, shares of closed-end funds are sold in the open market through a stock exchange and frequently trade at prices lower than their NAV. NAV per common share is total assets less total liabilities, which includes preferred shares, divided by the number of common shares outstanding.

When NAV is lower than market price, dividends are assumed to be reinvested at the greater of NAV or 95% of the market price. When NAV is higher, dividends are assumed to be reinvested at prices obtained under the Trust's dividend reinvestment plan.

The performance table and graph do not reflect the deduction of fees and taxes that a shareowner would pay on Trust distributions or the sale of Trust shares.

Index comparison begins April 30, 2002. The Bank of America Merrill Lynch High Yield Master II Index is a commonly accepted measure of the performance of high yield securities. Index returns are calculated monthly, assume reinvestment of dividends and, unlike Trust returns, do not reflect any fees, expenses or sales charges. The Index is not leveraged. It is not possible to invest directly in the Index.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
ASSET BACKED SECURITIES -- 2.9% of Net Assets			
TRANSPORTATION -- 0.8%			
Airlines -- 0.8%			
901,814 (a)	B-/Caa2	Aviation Capital Group Trust, 0.687%, 11/15/25 (144A)	\$ 5
2,000,000 (a)	CCC+/Caa2	Lease Investment Flight Trust, 0.619%, 7/15/31	1,3
2,336,051 (a)	CCC/Ca	Long Beach Mortgage Loan Trust, 0.425%, 3/25/46	7
Total Transportation			\$ 2,6
BANKS -- 0.8%			
Thriffs & Mortgage Finance -- 0.8%			
531,442 (a)	AA+/Baa2	ACE Securities Corp., 1.135%, 12/25/34	\$ 3
1,690,795 (a)	B-/Caa1	Aircraft Finance Trust, 0.709%, 5/15/24 (144A)	8
30,936 (a)	B-/Ba3	Aircraft Finance Trust, 0.729%, 5/15/24 (144A)	
234,572 (a)	CCC/Caa3	Amortizing Residential Collateral Trust, 1.51%, 1/25/32	
280,000 (a)	CCC/B2	Bear Stearns Asset Backed Securities Trust, 0.685%, 1/25/47	1
511,400 (a)	CCC/Caa1	Citigroup Mortgage Loan Trust, Inc., 0.295%, 7/25/45	3
166,635 (a)	AAA/Caa2	FBR Securitization Trust, 0.935%, 10/25/35	
965,000 (a)	CCC/B2	Home Equity Asset Trust, 0.345%, 3/25/37	7
250,000 (a)	CCC/B3	Security National Mortgage Loan Trust, 6.55%, 4/25/37 (144A)	1
Total Banks			\$ 2,8
DIVERSIFIED FINANCIALS -- 0.4%			
Investment Banking & Brokerage -- 0.1%			
500,000	BBB-/NR	Bear Stearns Commercial Mortgage Securities, 6.94%, 2/15/35 (144A)	\$ 4
Specialized Finance -- 0.3%			
850,000	BBB-/Baa3	Dominos Pizza Master Issuer LLC, 5.261%, 4/25/37 (144A)	\$ 8
Total Diversified Financials			\$ 1,3
UTILITIES -- 0.9%			
Multi-Utilities -- 0.9%			
3,457,388	NR/NR	Ormat Funding Corp., 8.25%, 12/30/20	\$ 3,2
Total Utilities			\$ 3,2
TOTAL ASSET-BACKED SECURITIES (Cost \$9,980,862)			\$ 10,0

The accompanying notes are an integral part of these financial statements.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
		COLLATERALIZED MORTGAGE OBLIGATIONS -- 0.5% of Net Assets	
		BANKS -- 0.5%	
		Thriffs & Mortgage Finance -- 0.5%	
1,504,000 (a)	BBB+/Caa2	Carrington Mortgage Loan Trust, 0.435%, 2/25/37	\$
216,770 (a)	AA+/Ba3	Carrington Mortgage Loan Trust, 0.355%, 2/25/37	
353,022 (a)	CCC/Caa3	Countrywide Alternative Loan Trust, 0.565%, 10/25/35	
177,534 (a)	CCC/B1	JPMorgan Mortgage Trust, 2.843%, 11/25/35	
136,614 (a)	D/C	Luminent Mortgage Trust, 0.495%, 7/25/36	
462,654 (a)	CCC/NR	WaMu Mortgage Pass-Through Certificates, 5.398%, 12/25/36	
		Total Banks	\$ 1,
		TOTAL COLLATERALIZED MORTGAGE OBLIGATIONS (Cost \$2,352,141)	\$ 1,
		CORPORATE BONDS & NOTES -- 112.8% of Net Assets	
		ENERGY -- 14.2%	
		Coal & Consumable Fuels -- 3.5%	
1,350,000	BB/Ba3	Bumi Capital Pte, Ltd., 12.0%, 11/10/16 (144A)	\$ 1,
2,329,000	BB-/B1	Drummond Co., Inc., 9.0%, 10/15/14 (144A)	2,
3,890,000	B/Caa1	Foresight Energy LLC, 9.625%, 8/15/17 (144A)	3,
2,125,000	B+/B2	James River Escrow, Inc., 7.875%, 4/1/19 (144A)	1,
1,166,000	B/B3	Murray Energy Corp., 10.25%, 10/15/15 (144A)	1,
1,900,000 (b)	B-/Caa1	Xinergy Corp., 9.25%, 5/15/19 (144A)	1,
			\$ 12,
		Integrated Oil & Gas -- 0.8%	
2,740,000	BB-/B1	Northern Tier Energy LLC, 10.5%, 12/1/17 (144A)	\$ 2,
		Oil & Gas Drilling -- 2.5%	
NOK 2,000,000 (a)	NR/NR	Aker Drilling ASA, 10.05%, 2/24/16	\$
NOK 3,500,000	NR/NR	Aker Drilling ASA, 11.0%, 2/24/16	
2,462,564	NR/NR	DDI Holding AS, 9.3%, 1/19/12 (144A)	2,
500,000	B-/Caa1	Hercules Offshore, Inc., 10.5%, 10/15/17 (144A)	
1,700,000	NR/NR	Ocean Rig UDW, Inc., 9.5%, 4/27/16	1,
1,085,000	B-/B3	Offshore Group Investments, Ltd., 11.5%, 8/1/15	1,
1,900,000	B/NR	Pioneer Drilling Co., 9.875%, 3/15/18	1,
			\$ 8,
		Oil & Gas Equipment & Services -- 2.8%	
4,073,000	B+/B1	American Petroleum Tankers LLC, 10.25%, 5/1/15	\$ 4,
600,000 (c)	NR/NR	DP Producer AS, 0.0%, 12/5/11 (144A)	
3,015,000	B-/B2	Expro Finance Luxembourg SCA, 8.5%, 12/15/16 (144A)	2,
1,260,000	NR/Caa1	Forbes Energy Services, Ltd., 9.0%, 6/15/19 (144A)	1,

The accompanying notes are an integral part of these financial statements.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Principal Amount USD (\$)	S&P/Moody's Ratings		Value

		Oil & Gas Equipment & Services -- (continued)	
238,581 (c)	NR/NR	Nexus 1 Pte., Ltd., 10.5%, 3/7/12 (144A)	\$
385,386 (c)	NR/NR	PetroProd, Ltd., 0.0%, 1/12/12 (144A)	
NOK 4,500,000	NR/NR	Sevan Marine ASA, 13.25%, 8/10/15	
NOK 6,000,000	NR/NR	Sevan Marine ASA, 14.0%, 12/22/14	
200,000	NR/NR	Sevan Marine ASA, 15.0%, 7/22/12	
820,000 (a)	NR/NR	Sevan Marine ASA, 3.417%, 5/14/13 (144A)	
800,000	NR/NR	Sevan Marine ASA, 12.0%, 8/10/15 (144A)	

			\$ 9,

		Oil & Gas Exploration & Production -- 3.1%	
775,000	BB-/B2	Berry Petroleum Co., 10.25%, 6/1/14	\$
390,000	BB-/B1	Denbury Resources, Inc., 9.75%, 3/1/16	
678,000	B/B2	Linn Energy LLC, 11.75%, 5/15/17	
2,400,000	B+/NR	MIE Holdings Corp., 9.75%, 5/12/16 (144A)	1,
2,125,000 (d)	NR/NR	Norse Energy Corp., ASA, 13.5%, 7/14/13 (144A)	1,
NOK 2,000,000	NR/NR	Norwegian Energy Co., AS, 10.25%, 4/16/16	
NOK 5,000,000	NR/NR	Norwegian Energy Co., AS, 12.9%, 11/20/14	
3,660,000 (b)	B-/B3	Quicksilver Resources, Inc., 7.125%, 4/1/16	3,
1,497,000	B+/Caal	Rosetta Resources, Inc., 9.5%, 4/15/18	1,

			\$ 10,

		Oil & Gas Refining & Marketing -- 1.0%	
1,000,000	BB-/B3	Coffeyville Resources LLC, 10.875%, 4/1/17 (144A)	\$ 1,
2,215,000	BB+/Ba1	Tesoro Corp., 9.75%, 6/1/19	2,

			\$ 3,

		Oil & Gas Storage & Transportation -- 0.5%	
350,000 (a)	BB/Ba1	Enterprise Products Operating LLC, 8.375%, 8/1/66	\$
1,524,000 (a)	BB/Ba1	Southern Union Co., 7.2%, 11/1/66	1,

			\$ 1,

		Total Energy	\$ 49,

		MATERIALS -- 18.6%	
		Aluminum -- 0.3%	
1,031,694 (a) (e)	B/B2	Noranda Aluminum Acquisition Corp., 4.417%, 5/15/15	\$

		Commodity Chemicals -- 2.9%	
3,250,000	NR/WR	Basell Finance Co., 8.1%, 3/15/27 (144A)	\$ 3,
2,600,000	CCC+/NR	Hexion US Finance Corp., 9.0%, 11/15/20	1,
4,500,000	BBB-/Ba1	Methanex Corp., 8.75%, 8/15/12	4,

			\$ 10,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

The accompanying notes are an integral part of these financial statements.

14 Pioneer High Income Trust | Semiannual Report | 9/30/11

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
		Construction Materials -- 1.9%	
5,690,000	CCC+/B3	AGY Holding Corp., 11.0%, 11/15/14	\$ 4,
3,000,000	B-/Caa2	Texas Industries, Inc., 9.25%, 8/15/20	2,
			----- \$ 6,
		Diversified Chemicals -- 1.4%	
EURO 350,000	CCC/Caa1	Ineos Group Holdings Plc, 7.875%, 2/15/16 (144A)	\$
2,625,000 (b)	CCC/Caa1	Ineos Group Holdings Plc, 8.5%, 2/15/16 (144A)	1,
1,775,000	NR/NR	Kinove German Bondco GmbH, 9.625%, 6/15/18 (144A)	1,
EURO 950,000	NR/Caa1	Momentive Performance Materials, Inc., 9.5%, 1/15/21	1,
			----- \$ 4,
		Diversified Metals & Mining -- 1.8%	
2,180,000	NR/WR	Aleris International, Inc., 10.0%, 12/15/16	\$
1,725,000	B-/NR	Mirabela Nickel, Ltd., 8.75%, 4/15/18 (144A)	1,
4,070,000	BBB/Baa2	Teck Resources, Ltd., 10.25%, 5/15/16	4,
			----- \$ 6,
		Metal & Glass Containers -- 2.2%	
EURO 2,250,000	B-/B3	Ardagh Glass Finance Plc, 8.75%, 2/1/20 (144A)	\$ 2,
1,500,000 (e)	B-/Caa1	Ardagh Group SA, 11.125%, 6/1/18 (144A)	1,
1,450,000	CCC+/B3	BWAY Holdings Co., 10.0%, 6/15/18	1,
2,534,124 (e)	CCC+/Caa1	BWAY Holdings Co., 10.125%, 11/1/15	2,
			----- \$ 7,
		Paper Packaging -- 4.0%	
2,000,000	CCC/Caa1	Berry Plastics Corp., 9.5%, 5/15/18	\$ 1,
2,657,034 (d) (e)	NR/NR	Corp Durango SAB de CV, 7.0%, 8/27/16	2,
2,220,000	CCC+/Caa1	Exopack Holdings Corp., 10.0%, 6/1/18 (144A)	2,
2,795,000	CCC+/Caa1	Graham Packaging Co., 9.875%, 10/15/14	2,
2,500,000	B/B3	Pretium Packaging LLC, 11.5%, 4/1/16 (144A)	2,
500,000	BB/B1	Sealed Air Corp., 8.125%, 9/15/19 (144A)	2,
2,250,000	B/B3	U.S. Corrugated, Inc., 10.0%, 6/1/13	2,
			----- \$ 13,
		Paper Products -- 1.6%	
1,685,000	B+/B1	ABI Escrow Corp., 10.25%, 10/15/18 (144A)	\$ 1,
600,000	CCC+/B3	Appleton Papers, Inc., 11.25%, 12/15/15	2,
2,000,000	B+/B1	Appleton Papers, Inc., 10.5%, 6/15/15 (144A)	1,
405,000	BB/Ba3	Clearwater Paper Corp., 10.625%, 6/15/16	2,
776,000	B+/B3	Mercer International, Inc., 9.5%, 12/1/17	2,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

\$ 5,

575,000 (b)	B/B1	Specialty Chemicals -- 0.1% Vertellus Specialties, Inc., 9.375%, 10/1/15 (144A)	\$
-------------	------	--	----

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 15

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
		Steel -- 2.4%	
4,660,000 (b)	CCC+/Caa2	Algoma Acquisition Corp., 9.875%, 6/15/15 (144A)	\$ 3,
1,100,000	B+/B3	Atkore International, Inc., 9.875%, 1/1/18 (144A)	2,
2,400,000	BBB-/Ba1	CSN Islands VIII Corp., 9.75%, 12/16/13 (144A)	1,
1,250,000	B/B3	Severstal Columbus LLC, 10.25%, 2/15/18	
		Total Materials	\$ 64,
		CAPITAL GOODS -- 9.0%	
		Aerospace & Defense -- 2.7%	
3,300,000 (b)	B/B3	ADS Tactical, Inc., 11.0%, 4/1/18 (144A)	\$ 3,
1,465,000	BB/Ba3	BE Aerospace, Inc., 8.5%, 7/1/18	1,
570,000	BBB-/Ba3	Digitalglobe, Inc., 10.5%, 5/1/14	3,
4,139,000	B-/B2	DynCorp International, Inc., 10.375%, 7/1/17 (144A)	
295,000	BB-/Ba3	GeoEye, Inc., 9.625%, 10/1/15	
			\$ 9,
		Building Products -- 1.0%	
1,935,000 (c)	NR/WR	Industrias Unidas SA de CV, 11.5%, 11/15/16 (144A)	\$ 1,
2,375,000	B-/Caa2	New Enterprise Stone & Lime Co., 11.0%, 9/1/18 (144A)	1,
			\$ 3,
		Construction & Engineering -- 0.4%	
1,500,000	B+/Ba3	Abengoa Finance SAU, 8.875%, 11/1/17 (144A)	\$ 1,
		Construction & Farm Machinery & Heavy Trucks -- 0.4%	
570,000	B+/Caa1	American Railcar Industries, Inc., 7.5%, 3/1/14	\$
774,000 (b)	B+/B3	Manitowoc Co., Inc., 9.5%, 2/15/18	
			\$ 1,
		Electrical Components & Equipment -- 0.6%	
2,000,000	B/B2	WireCo WorldGroup, 9.75%, 5/15/17 (144A)	\$ 2,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

1,475,000	B-/NR	Industrial Conglomerates -- 0.3% Little Traverse Bay Bands of Odawa Indians, 9.0%, 8/31/20 (144A)	\$ 1,

3,180,000 (c)	NR/WR	Industrial Machinery -- 2.1% Indalex Holding Corp., 11.5%, 2/1/14	\$ 1,
1,080,000	B/B3	Liberty Tire Recycling, 11.0%, 10/1/16 (144A)	1,
5,170,000 (b)	CCC+/B3	Mueller Water Products, Inc., 7.375%, 6/1/17	4,
2,440,000	B+/NR	WPE International Cooperatief UA, 10.375%, 9/30/20 (144A)	2,

			\$ 7,

The accompanying notes are an integral part of these financial statements.

16 Pioneer High Income Trust | Semiannual Report | 9/30/11

Principal Amount USD (\$)	S&P/Moody's Ratings		Value

1,790,000	B-/B3	Trading Companies & Distributors -- 1.5% Intcomex, Inc., 13.25%, 12/15/14	\$ 1,
3,370,000	B/B1	Wesco Distribution, Inc., 7.5%, 10/15/17	3,

			\$ 5,

			\$ 31,

4,450 (f)	NR/Caa1	COMMERCIAL & PROFESSIONAL SERVICES -- 2.3% Diversified Support Services -- 1.0% MSX International UK, 12.5%, 4/1/12 (144A)	\$ 3,

892,000	CCC+/B3	Environmental & Facilities Services -- 0.4% Brickman Group Holdings, Inc., 9.125%, 11/1/18 (144A)	\$
315,000	BB/B2	Casella Waste Systems, Inc., 11.0%, 7/15/14	
1,275,000 (a) (c) (g)	NR/NR	Ohio Air Quality Development Authority Revenue, 7.29%, 6/8/22 (144A)	-----
			\$ 1,

3,175,000	CCC+/Caa1	Security & Alarm Services -- 0.9% WP Rocket Merger Sub, Inc., 10.125%, 7/15/19 (144A)	\$ 3,

			\$ 7,

500,000	B/B2	TRANSPORTATION -- 2.6% Air Freight & Logistics -- 1.3% AMGH Merger Sub, Inc., 9.25%, 11/1/18 (144A)	\$
720,000	CCC+/Caa1	CEVA Group Plc, 11.625%, 10/1/16 (144A)	
EURO 272,000	CCC/Caa3	CEVA Group Plc, 10.0%, 12/1/16 (144A)	
3,351,000	CCC+/Caa1	CEVA Group Plc, 11.5%, 4/1/18 (144A)	3,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Principal Amount USD (\$)	S&P/Moody's Ratings	Description	Value
		Airlines -- 0.3%	
881,000	BB-/Ba2	Delta Air Lines, Inc., 9.5%, 9/15/14 (144A)	\$ 4,
		Railroads -- 0.3%	
947,812 (e)	CCC/Caa3	Florida East Coast Holdings Corp., 10.5%, 8/1/17 (144A)	\$
		Trucking -- 0.7%	
1,375,000 (b)	B-/Caa1	Swift Services Holdings, Inc., 10.0%, 11/15/18	\$ 1,
1,430,000	B/B3	Syncreon Global Ireland, Ltd., 9.5%, 5/1/18 (144A)	1,
		Total Transportation	\$ 8,
		AUTOMOBILES & COMPONENTS -- 5.7%	
		Auto Parts & Equipment -- 4.0%	
1,250,000	CCC+/Caa1	Allison Transmission, Inc., 11.0%, 11/1/15 (144A)	\$ 1,
2,761,300 (e)	NR/Caa1	Allison Transmission, Inc., 11.25%, 11/1/15 (144A)	2,

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 17

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Principal Amount USD (\$)	S&P/Moody's Ratings	Description	Value
		Auto Parts & Equipment -- (continued)	
1,140,000	B/B3	International Automotive Components Group S.L., 9.125%, 6/1/18 (144A)	\$ 1,
855,000 (b)	B+/B1	Pinafore LLC, 9.0%, 10/1/18 (144A)	
4,760,000	CCC/Caa1	Stanadyne Corp., 10.0%, 8/15/14	4,
1,500,000	CCC-/Caa3	Stanadyne Corp., 12.0%, 2/15/15	1,
1,779,000	B+/B1	Tower Automotive Holdings USA LLC, 10.625%, 9/1/17 (144A)	1,
		Total Automobiles & Components	\$ 13,
		Automobile Manufacturers -- 1.5%	
6,000,000 (b) (h)	B/B2	Chrysler Group LLC/CG Co-Issuer, Inc., 8.0%, 6/15/19 (144A)	\$ 4,
500,000 (h)	B/B2	Chrysler Group LLC/CG Co-Issuer, Inc., 8.25%, 6/15/21 (144A)	
		Tires & Rubber -- 0.2%	
756,000	B+/B1	Goodyear Tire & Rubber Co., 10.5%, 5/15/16	\$
		Total Automobiles & Components	\$ 19,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		CONSUMER DURABLES & APPAREL -- 6.3%	
		Homebuilding -- 1.5%	
3,115,000	CCC/Caa2	Beazer Homes USA, Inc., 9.125%, 6/15/18	\$ 1,
750,000	CCC/Caa2	Beazer Homes USA, Inc., 9.125%, 5/15/19 (144A)	
3,060,000	B+/B1	Meritage Homes Corp., 6.25%, 3/15/15	2,

			\$ 5,

		Housewares & Specialties -- 3.2%	
1,435,000	B/B2	Jarden Corp., 7.5%, 5/1/17	\$ 1,
3,000,000	B-/Caa1	Reynolds Group Holdings, 9.0%, 4/15/19 (144A)	2,
3,690,000 (b)	B/B2	Yankee Acquisition Corp., 8.5%, 2/15/15	3,
2,500,000	CCC+/B3	Yankee Acquisition Corp., 9.75%, 2/15/17	2,
1,425,000 (e)	CCC+/Caa1	YCC Holdings LLC, 10.25%, 2/15/16	1,

			\$ 11,

		Leisure Products -- 1.6%	
EURO 2,100,000	CCC+/Caa1	Heckler & Koch GmbH, 9.5%, 5/15/18 (144A)	\$ 1,
4,000,000	B/B2	Icon Health & Fitness, Inc., 11.875%, 10/15/16 (144A)	3,

			\$ 5,

		Total Consumer Durables & Apparel	\$ 21,

		CONSUMER SERVICES -- 3.8%	
		Business Services -- 0.6%	
2,600,000	B-/Caa2	Sitel LLC/Sitel Finance Corp., 11.5%, 4/1/18	\$ 2,

The accompanying notes are an integral part of these financial statements.

18 Pioneer High Income Trust | Semiannual Report | 9/30/11

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
		Casinos & Gaming -- 0.6%	
1,650,000 (c)	NR/NR	Buffalo Thunder Development Authority, 9.375%, 12/15/14 (144A)	\$
975,000	B+/B2	FireKeepers Development Authority, 13.875%, 5/1/15 (144A)	1,
1,375,000 (c)	NR/NR	Mashantucket Western Pequot Tribe, 8.50%, 11/15/15 (144A)	
740,000	CCC/Caa2	Shingle Springs Tribal Gaming Authority, 9.375%, 6/15/15 (144A)	-----
			\$ 2,

		Education Services -- 0.1%	
555,000	B/B2	Cambium Learning Group, Inc., 9.75%, 2/15/17 (144A)	\$

		Hotels, Resorts & Cruise Lines -- 0.4%	

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

1,500,000	B-/B3	Seven Seas Cruises S de RL LLC, 9.125%, 5/15/19 (144A)	\$ 1,

4,055,000 (b) (d)	CCC+/Caa1	Restaurants -- 1.1% Burger King Capital Holdings LLC, 0.0%, 4/15/19 (144A)	\$ 2,
1,400,000 (b)	B-/B3	Burger King Corp., 9.875%, 10/15/18	1,

			\$ 3,

500,000	BB/Ba3	Specialized Consumer Services -- 1.0% Avis Budget Car Rental LLC/Avis Budget Finance, Inc., 9.625%, 3/15/18	\$
3,000,000	B-/B3	Stonemor Operating LLC, 10.25%, 12/1/17	2,

			\$ 3,

		Total Consumer Services	\$ 13,

		MEDIA -- 5.9%	
		Advertising -- 1.6%	
2,900,000	NR/B3	Good Sam Enterprises LLC, 11.5%, 12/1/16	\$ 2,
2,690,000	B+/B2	MDC Partners, Inc., 11.0%, 11/1/16	2,

			\$ 5,

		Broadcasting -- 1.7%	
3,638,075 (e)	CCC+/Caa3	Intelsat Bermuda, Ltd., 11.5%, 2/4/17	\$ 3,
EURO 1,200,000	B/B1	Nara Cable Funding, Ltd., 8.875%, 12/1/18 (144A)	1,
535,000	B-/Caa1	Telesat Canada, 11.0%, 11/1/15	
800,000	B-/Caa1	Telesat Canada, 12.5%, 11/1/17	

			\$ 5,

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 19

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
		Cable -- 0.7%	
1,096,054	B/B2	CCH II LLC/CCH II Capital Corp., 13.5%, 11/30/16	\$ 1,
1,500,000 (b)	CCC+/Caa1	Ono Finance II Plc, 10.875%, 7/15/19 (144A)	1,
EURO 350,000	CCC+/Caa1	Ono Finance II Plc, 11.125%, 7/15/19 (144A)	

			\$ 2,

		Movies & Entertainment -- 0.9%	
2,765,000	CCC+/Caa1	AMC Entertainment, Inc., 9.75%, 12/1/20	\$ 2,
600,000	B-/B3	Production Resource Group, Inc., 8.875%, 5/1/19 (144A)	

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

				\$ 3,
			Publishing -- 1.0%	
400,000	B-/Caa1		Interactive Data Corp., 10.25%, 8/1/18 (144A)	\$
2,200,000	B/B3		MPL 2 Acquisition Canco, Inc., 9.875%, 8/15/18 (144A)	2,
1,400,000	CCC+/Caa2		TL Acquisitions, Inc., 10.5%, 1/15/15 (144A)	
				\$ 3,
			Total Media	\$ 20,
			RETAILING -- 3.3%	
			Distributors -- 0.6%	
2,862,000 (b)	B/B3		Minerva Overseas II, Ltd., 10.875%, 11/15/19 (144A)	\$ 2,
			Internet Retail -- 1.3%	
4,340,000	B/B3		Ticketmaster Entertainment, Inc., 10.75%, 8/1/16	\$ 4,
			Specialty Stores -- 1.4%	
4,615,000 (b)	B+/B3		Sally Holdings LLC, 10.5%, 11/15/16	\$ 4,
			Total Retailing	\$ 11,
			FOOD, BEVERAGE & TOBACCO -- 5.8%	
			Agricultural Products -- 1.7%	
5,622,000	B+/B3		Southern States Cooperative, Inc., 11.25%, 5/15/15 (144A)	\$ 5,
			Brewers -- 1.7%	
5,885,000	A-/A3		Cia Brasileira de Bebida, 10.5%, 12/15/11	\$ 5,
			Packaged Foods & Meats -- 1.6%	
775,000	NR/B1		Bertin, Ltd., 10.25%, 10/5/16 (144A)	\$
1,500,000	B-/B3		FAGE Dairy Industry SA/FAGE USA Dairy Industry, Inc., 9.875%, 2/1/20 (144A)	1,
500,000	B+/B1		Marfrig Overseas, Ltd., 9.625%, 11/16/16 (144A)	
4,000,000 (b)	B-/Caa1		Pilgrim's Pride Corp., 7.875%, 12/15/18 (144A)	3,
				\$ 5,

The accompanying notes are an integral part of these financial statements.

20 Pioneer High Income Trust | Semiannual Report | 9/30/11

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
		Tobacco -- 0.8%	
3,450,000	B/B2	Alliance One International, Inc., 10.0%, 7/15/16	\$ 2,
		Total Food, Beverage & Tobacco	\$ 20,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		HOUSEHOLD & PERSONAL PRODUCTS -- 0.3%	
		Personal Products -- 0.3%	
1,050,000	B/B2	Revlon Consumer Products Corp., 9.75%, 11/15/15	\$ 1,
		Total Household & Personal Products	\$ 1,
		HEALTH CARE EQUIPMENT & SERVICES -- 6.2%	
		Health Care Equipment & Services -- 1.6%	
3,000,000 (b)	CCC+/Caa2	Accellent, Inc., 10.0%, 11/1/17	\$ 2,
3,000,000 (h)	B-/Caa1	IVD Acquisition Corp., 11.125%, 8/15/19 (144A)	2,
			\$ 5,
		Health Care Facilities -- 0.9%	
535,000	B-/B3	HCA, Inc., 6.25%, 2/15/13	\$
84,000	BB-/B2	HCA, Inc., 9.875%, 2/15/17	
3,475,000	B-/B3	Kindred Healthcare, Inc., 8.25%, 6/1/19 (144A)	2,
62,000	CCC+/Caa1	Vanguard Health Systems, Inc., 0.0%, 2/1/16	
			\$ 3,
		Health Care Services -- 2.2%	
1,987,000	B-/Caa1	Bioscrip, Inc., 10.25%, 10/1/15	\$ 1,
2,527,000	CCC+/B2	Gentiva Health Services, Inc., 11.5%, 9/1/18	2,
3,725,000	CCC+/Caa1	Surgical Care Affiliates, Inc., 10.0%, 7/15/17 (144A)	3,
			\$ 7,
		Health Care Supplies -- 1.5%	
1,000,000	B/Caa1	Bausch & Lomb, Inc., 9.875%, 11/1/15	\$ 1,
4,085,000 (e)	B-/B3	Biomet, Inc., 10.375%, 10/15/17	4,
			\$ 5,
		Total Health Care Equipment & Services	\$ 21,
		PHARMACEUTICALS, BIOTECHNOLOGY & LIFE SCIENCES -- 2.7%	
		Biotechnology -- 1.4%	
1,400,000	B/Caa1	ConvaTec Healthcare E SA, 10.5%, 12/15/18 (144A)	\$ 1,
4,104,000	B+/B3	Lantheus Medical Imaging, Inc., 9.75%, 5/15/17	3,
			\$ 4,
		Life Sciences Tools & Services -- 0.9%	
3,461,893 (e)	B/Caa1	Catalent Pharma Solutions, Inc., 9.5%, 4/15/15	\$ 3,

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 21

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Principal

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Amount USD (\$)	S&P/Moody's Ratings		Value
2,020,000	NR/NR	Pharmaceuticals -- 0.4% KV Pharmaceutical Co., 12.0%, 3/15/15 (144A)	\$ 1,
		Total Pharmaceuticals, Biotechnology & Life Sciences	\$ 9,
1,265,000 (a) (b) (i)	BB+/Ba3	BANKS -- 1.4% Diversified Banks -- 0.3% ABN Amro North American Holding Preferred Capital Repackage Trust I, 6.523% (144A)	\$
400,000 (a)	NR/Ba2	Banco Macro SA, 10.75%, 6/7/12	\$ 1,
1,225,000 (a) (i)	BBB/Baa3	Regional Banks -- 1.1% PNC Financial Services Group, Inc., 8.25%	\$ 1,
1,790,000 (a) (i)	BBB+/Baa1	State Street Capital Trust III, 5.337%	1,
750,000 (a) (i)	A-/Baa3	Wells Fargo Capital XV, 9.75%	\$ 3,
		Total Banks	\$ 5,
975,000 (d)	BBB-/Baa3	DIVERSIFIED FINANCIALS -- 3.5% Asset Management & Custody Banks -- 0.3% Janus Capital Group, Inc., 6.70%, 6/15/17	\$ 1,
2,325,000 (a) (i)	BBB-/Baa2	Investment Banking & Brokerage -- 0.4% Goldman Sachs Capital II, 5.793%	\$ 1,
2,200,000	B/B2	Multi-Sector Holdings -- 0.6% Constellation Enterprises LLC, 10.625%, 2/1/16 (144A)	\$ 2,
500,000	BB/Baa3	Specialized Finance -- 2.2% Capital One Capital V, 10.25%, 8/15/39	\$
695,000	B+/B2	National Money Mart Co., 10.375%, 12/15/16	6,
7,140,000 (b)	CCC-/Caa3	NCO Group, Inc., 11.875%, 11/15/14	\$ 7,
		Total Diversified Financials	\$ 12,
3,305,000	CCC/Caa1	INSURANCE -- 8.4% Insurance Brokers -- 4.0% Alliant Holdings I, Inc., 11.0%, 5/1/15 (144A)	\$ 3,
100,000	CCC+/B3	HUB International Holdings, Inc., 9.0%, 12/15/14 (144A)	5,
5,455,000	CCC+/Caa1	HUB International Holdings, Inc., 10.25%, 6/15/15 (144A)	2,
GBP 1,625,000	B-/B3	Towergate Finance Plc, 10.5%, 2/15/19 (144A)	1,
2,286,000 (a)	CCC/B3	U.S.I. Holdings Corp., 4.161%, 11/15/14 (144A)	1,
1,610,000	CCC/Caa1	U.S.I. Holdings Corp., 9.75%, 5/15/15 (144A)	\$ 13,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

The accompanying notes are an integral part of these financial statements.

22 Pioneer High Income Trust | Semiannual Report | 9/30/11

Principal Amount USD (\$)	S&P/Moody's Ratings		Value

		Multi-line Insurance -- 1.5%	
3,075,000 (a)	BB/Baa3	Liberty Mutual Group, Inc., 10.75%, 6/15/88 (144A)	\$ 3,
1,100,000	BBB/Baa2	MetLife, Inc., 10.75%, 8/1/69	1,

			\$ 5,

		Property & Casualty Insurance -- 1.7%	
5,300,000	BBB-/Baa3	Allmerica Financial Corp., 7.625%, 10/15/25	\$ 5,
120,000 (a) (i)	BB/Ba2	White Mountains Insurance Group, Ltd., 7.506% (144A)	-----
			\$ 6,

		Reinsurance -- 1.2%	
375,000 (a)	BB+/NR	Blue Fin, Ltd., 4.646%, 4/10/12 (144A)	\$
350,000 (a)	BB+/NR	Foundation Re III, Ltd., 5.02%, 2/25/15 (144A)	
250,000 (a)	BB/NR	Ibis Re, Ltd., 10.597%, 5/10/12 (144A)	
800,000 (a)	BB/NR	Lodestone Re, Ltd., 7.27%, 1/8/14 (144A)	
700,000 (a)	BB-/NR	LOMA Reinsurance, Ltd., 9.826%, 12/21/12 (144A)	
300,000 (a)	CCC+/NR	Montana Re, Ltd., 13.583%, 12/7/12 (144A)	
500,000 (a)	BB-/NR	Queen Street II Capital, Ltd., 7.52%, 4/9/14 (144A)	
450,000 (a)	B-/NR	Residential Reinsurance 2010, Ltd., 12.02%, 6/6/15 (144A)	
500,000 (a)	NR/NR	Successor X, Ltd., 13.0%, 2/25/14 (144A)	-----
			\$ 4,
		Total Insurance	-----
			\$ 29,

		REAL ESTATE -- 1.8%	
		Real Estate Operating Companies -- 1.4%	
98,266 (a)	B/NR	Alto Palermo SA, 11.0%, 6/11/12 (144A)	\$
5,000,000	B-/B3	Forest City Enterprises, Inc., 7.625%, 6/1/15	4,

			\$ 4,

		Specialized Real Estate Investment Trusts -- 0.4%	
1,500,000	BB-/Ba3	CNL Lifestyle Properties, Inc., 7.25%, 4/15/19	\$ 1,

		Total Real Estate	\$ 6,

		SOFTWARE & SERVICES -- 3.3%	
		Application Software -- 1.3%	
2,960,000	B/B3	Allen Systems Group, Inc., 10.5%, 11/15/16 (144A)	\$ 2,
1,870,000	B-/Caa1	Vangent, Inc., 9.625%, 2/15/15	1,

			\$ 4,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		Data Processing & Outsourced Services -- 0.9%	
1,783,000	B-/Caa1	First Data Corp., 8.25%, 1/15/21 (144A)	\$ 1,
399,000 (b)	B-/Caa1	First Data Corp., 9.875%, 9/24/15	
1,783,000	B-/Caa1	First Data Corp., 12.625%, 1/15/21 (144A)	1,

			\$ 3,

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 23

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
4,021,206 (e)	NR/NR	Systems Software -- 1.1% Pegasus Solutions, Inc., 13.00%, 4/15/14 (144A)	\$ 3,
		Total Software & Services	----- \$ 11,
580,000	BBB/Baa3	TECHNOLOGY HARDWARE & EQUIPMENT -- 0.2% Computer Storage & Peripherals -- 0.2% Seagate Technology International, Inc., 10.0%, 5/1/14 (144A)	\$
		Total Technology Hardware & Equipment	----- \$
CNY 1,000,000	NR/NR	SEMICONDUCTORS & SEMICONDUCTOR EQUIPMENT -- 0.0% Semiconductors -- 0.0% LDK Solar Co., Ltd., 10.0%, 2/28/14	\$
		Total Semiconductors & Semiconductor Equipment	----- \$
2,210,000	B/B2	TELECOMMUNICATION SERVICES -- 5.4% Alternative Carriers -- 2.4% Global Crossing, Ltd., 12.00%, 9/15/15	\$ 2,
3,865,000 (b)	CCC+/Caa1	PAETEC Holding Corp., 9.50%, 7/15/15	4,
1,000,000	B/Ba3	PAETEC Holding Corp., 8.875%, 6/30/17	1,
600,000	B+/Caa1	PAETEC Holding Corp., 9.875%, 12/1/18 (144A)	-----
			\$ 8,
1,100,000	B/NR	Integrated Telecommunication Services -- 2.1% Bakrie Telecom PTE, Ltd., 11.5%, 5/7/15 (144A)	\$
4,295,000 (b)	B-/Caa1	Broadview Networks Holdings, Inc., 11.375%, 9/1/12	3,
3,539,000 (b)	CCC+/B3	Cincinnati Bell, Inc., 8.75%, 3/15/18	3,

			\$ 7,
3,020,000	B-/B2	Wireless Telecommunication Services -- 0.9% True Move Co., Ltd., 10.75%, 12/16/13 (144A)	\$ 3,
		Total Telecommunication Services	----- \$ 18,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Principal Amount USD (\$)	S&P/Moody's Ratings	Description	Value
		UTILITIES -- 2.1%	
		Electric Utilities -- 1.1%	
310,000	B-/B2	Empresa Distribuidora y Comercializadora Note SA, 9.75%, 10/25/22 (144A)	\$
885,000	B-/Caa3	Energy Future Holdings Corp., 10.0%, 1/15/20	1,
1,000,000	BB-/Ba2	PNM Resources, Inc., 9.25%, 5/15/15	1,
350,000 (b)	CCC/B2	Texas Competitive Electric Holdings LLC, 11.5%, 10/1/20 (144A)	1,
2,105,000	CC/Caa3	Texas Competitive Electric Holdings LLC, 15.0%, 4/1/21 (144A)	1,
			\$ 3,

The accompanying notes are an integral part of these financial statements.

24 Pioneer High Income Trust | Semiannual Report | 9/30/11

Principal Amount USD (\$)	S&P/Moody's Ratings	Description	Value
		Independent Power Producers & Energy Traders -- 1.0%	
1,800,000	BB-/Ba3	Intergen NV, 9.00%, 6/30/17 (144A)	\$ 1,
1,500,000	NR/B2	Star Energy Geothermal (Wayang Windu), Ltd., 11.50%, 2/12/15 (144A)	1,
			\$ 3,
		Total Utilities	\$ 7,
		TOTAL CORPORATE BONDS & NOTES (Cost \$413,162,841)	\$392,
		CONVERTIBLE BONDS & NOTES -- 7.0% of Net Assets	
		ENERGY -- 1.9%	
		Coal & Consumable Fuels -- 0.5%	
1,905,000	BB-/NR	Massey Energy Co., 3.25%, 8/1/15	\$ 1,
		Oil & Gas Drilling -- 1.0%	
2,265,000 (b) (d)	NR/NR	Hercules Offshore, Inc., 3.375%, 6/1/38	\$ 2,
1,600,000 (b)	BBB/Baa3	Transocean, Ltd., 1.5%, 12/15/37	1,
			\$ 3,
		Oil & Gas Exploration & Production -- 0.4%	
1,340,000	BB+/Ba3	Chesapeake Energy Corp., 2.5%, 5/15/37	\$ 1,
		Total Energy	\$ 6,
		MATERIALS -- 0.9%	
		Diversified Chemicals -- 0.9%	
4,000 (f)	B+/NR	Hercules, Inc., 6.5%, 6/30/29	\$ 3,
		Total Materials	\$ 3,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

3,511,000 (c)	D/Ca	TRANSPORTATION -- 0.7% Marine -- 0.7% Horizon Lines, Inc., 4.25%, 8/15/12	\$ 2,
		Total Transportation	\$ 2,
1,832,000	B-/NR	MEDIA -- 0.5% Movies & Entertainment -- 0.5% Live Nation, Inc., 2.875%, 7/15/27	\$ 1,
		Total Media	\$ 1,
2,837,000 (b) (d)	BB+/NR	HEALTH CARE EQUIPMENT & SERVICES -- 1.7% Health Care Equipment & Services -- 0.8% Hologic, Inc., 2.0%, 12/15/37	\$ 2,
780,000	B/NR	Health Care Facilities -- 0.8% LifePoint Hospitals, Inc., 3.5%, 5/15/14	\$
1,985,000 (b)	B/B2	LifePoint Hospitals, Inc., 3.25%, 8/15/25	2,
			\$ 2,

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 25

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
361,000	B+/B2	Health Care Services -- 0.1% Omnicare, Inc., 3.25%, 12/15/35	\$
		Total Health Care Equipment & Services	\$ 6,
500,000 (b)	NR/NR	SEMICONDUCTORS & SEMICONDUCTOR EQUIPMENT -- 0.4% Semiconductors -- 0.4% JA Solar Holdings Co., Ltd., 4.5%, 5/15/13	\$
750,000	NR/NR	Renesola, Ltd., 4.125%, 3/15/18 (144A)	
1,569,000 (b)	NR/NR	Suntech Power Holdings Co., Ltd., 3.0%, 3/15/13	
		Total Semiconductors & Semiconductor Equipment	\$ 1,
3,025,000	B/B3	TELECOMMUNICATION SERVICES -- 0.9% Alternative Carriers -- 0.9% Time Warner Telecom, Inc., 2.375%, 4/1/26	\$ 3,
		Total Telecommunication Services	\$ 3,
		TOTAL CONVERTIBLE BONDS & NOTES (Cost \$19,881,201)	\$ 24,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

MUNICIPAL BONDS -- 6.1% of Net Assets			
1,650,000	NR/Baa3	Indiana -- 1.7%	
		East Chicago Indiana Exempt Facilities Revenue, 7.0%, 1/1/14	\$ 1,
4,250,000	BBB-/WR	Indiana Development Finance Authority Revenue, 5.75%, 10/1/11	\$ 4,
			\$ 5,
4,525,000	B/B3	New Jersey -- 1.3%	
		New Jersey Economic Development Authority Revenue, 7.0%, 11/15/30	\$ 4,
3,475,000	BB-/B1	New York -- 1.0%	
		New York City Industrial Development Agency, 7.625%, 12/1/32	\$ 3,
1,670,000	NR/NR	North Carolina -- 2.1%	
		Charlotte North Carolina Special Facilities Revenue, 7.75%, 2/1/28	\$ 1,
6,300,000	NR/NR	Charlotte Special Facilities Refunding Revenue, 5.6%, 7/1/27	\$ 5,
			\$ 7,
TOTAL MUNICIPAL BONDS (Cost \$16,976,890)			\$ 21,

The accompanying notes are an integral part of these financial statements.

26 Pioneer High Income Trust | Semiannual Report | 9/30/11

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
3,300,000 (a) (j)	NR/NR	MUNICIPAL COLLATERALIZED DEBT OBLIGATION -- 0.6% Non-Profit Preferred Funding Trust I, Series E, 12.0%, 9/15/37 (144A)	\$ 2,0
TOTAL MUNICIPAL COLLATERALIZED DEBT OBLIGATION (Cost \$3,293,400)			\$ 2,0
SOVEREIGN DEBT OBLIGATIONS -- 1.0% of Net Assets			
1,200,000	B/B2	Argentina -- 0.3%	
		City of Buenos Aires, 12.50%, 4/6/15 (144A)	\$ 1,1
1,937,200	BBB/Baa1	Russia -- 0.7%	
		Russia Government International Bond, 7.50%, 3/31/30	\$ 2,1
TOTAL SOVEREIGN DEBT OBLIGATIONS (Cost \$2,557,535)			\$ 3,3

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		FLOATING RATE LOAN INTERESTS -- 7.3% of Net Assets*	
		ENERGY -- 0.2%	
		Coal & Consumable Fuels -- 0.2%	
750,000	NR/NR	PT Bumi Resources Tbk, Term Loan, 11.226%, 8/7/13	\$ 7
		Total Energy	\$ 7
		MATERIALS -- 0.6%	
		Diversified Chemicals -- 0.2%	
EURO 93,859	B/Ba3	Ineos US Finance LLC, Facility Term Loan B-1, 7.5%, 12/16/13	\$ 1
EURO 103,068	B/Ba3	Ineos US Finance LLC, Facility Term Loan C-1, 8.0%, 12/16/14	1
219,267	B/Ba3	Ineos US Finance LLC, Senior Credit Facility Term Loan B-2, 7.5%, 12/16/13	2
215,846	B/Ba3	Ineos US Finance LLC, Senior Credit Facility Term Loan C-2, 8.0%, 12/16/14	2
		Total Materials	\$ 6
		Steel -- 0.4%	
1,538,748	B/B3	Niagara Corp., Term Loan B, 8.5%, 6/29/14	\$ 1,4
		Total Materials	\$ 2,0
		CAPITAL GOODS -- 0.8%	
		Aerospace & Defense -- 0.8%	
3,110,824	BB-/B2	API Technologies Corp., Term Loan, 7.75%, 6/27/16	\$ 2,9
		Total Capital Goods	\$ 2,9
		AUTOMOBILES & COMPONENTS -- 0.5%	
		Auto Parts & Equipment -- 0.5%	
1,880,550	NR/NR	Metaldyne LLC, Term Loan, 5.25%, 5/18/17	\$ 1,8
		Total Automobiles & Components	\$ 1,8

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 27

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Principal Amount USD (\$)	S&P/Moody's Ratings		Value
		RETAILING -- 0.4%	
		Specialty Stores -- 0.4%	
1,496,250	B/B2	Targus Group International, Inc., Term Loan, 11.0%, 5/24/16	\$ 1,4
		Total Retailing	\$ 1,4

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

1,300,000	BB-/B2	FOOD, BEVERAGE & TOBACCO -- 0.4% Packaged Foods & Meats -- 0.4% Pierre Foods, Inc., Second Lien Term Loan, 11.25%, 9/29/17	\$ 1,2
		Total Food, Beverage & Tobacco	\$ 1,2
455,042	B+/B1	HEALTH CARE EQUIPMENT & SERVICES -- 1.2% Health Care Services -- 0.7% Aveta, Inc., NAMM Term Loan, 8.5%, 4/14/15	\$ 4
783,691	B/B2	National Specialty Hospitals, Inc., Initial Term Loan, 8.25%, 2/3/17	7
1,137,675	NR/B1	Prime Healthcare Services, Inc., Term Loan B, 7.25%, 4/28/15	1,0
			\$ 2,2
1,347,500	B/B2	Health Care Technology -- 0.4% Medical Card System, Inc., Term Loan, 12.0%, 9/17/15	\$ 1,3
455,042	B+/B1	Managed Health Care -- 0.1% Aveta Inc., MMM Term Loan, 8.5%, 4/14/15	\$ 4
		Total Health Care Equipment & Services	\$ 4,0
1,580,000	NR/Caa1	PHARMACEUTICALS, BIOTECHNOLOGY & LIFE SCIENCES -- 0.4% Biotechnology -- 0.4% Alkermes, Inc., Second Lien Term Loan, 9.5%, 9/16/18	\$ 1,5
		Total Pharmaceuticals, Biotechnology & Life Sciences	\$ 1,5
443,368	B-/B2	DIVERSIFIED FINANCIALS -- 0.6% Diversified Financial Services -- 0.6% BNY ConvergEX Group LLC, Second Lien EZE Term Loan, 8.75%, 12/18/17	\$ 4
1,056,633	B-/NR	BNY ConvergEX Group LLC, Second Lien TOP Term Loan, 8.75%, 12/18/17	1,0
389,294	NR/NR	Long Haul Holdings, Ltd. and PT Bakrie & Brothers Tbk, Tranche A Vallar Loan, 0.09%, 3/5/12	3
310,706	B/B2	Long Haul Holdings, Ltd. and PT Bakrie & Brothers Tbk, Tranche B Vallar Loan, 0.09%, 3/5/12	3
		Total Diversified Financials	\$ 2,1

The accompanying notes are an integral part of these financial statements.

28 Pioneer High Income Trust | Semiannual Report | 9/30/11

Principal Amount USD (\$)	S&P/Moody's Ratings	Value
---------------------------------	------------------------	-------

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		INSURANCE -- 0.7%	
		Multi-line Insurance -- 0.7%	
370,522	B/B2	AmWins Group, Inc., Initial Term Loan, 4.536%, 6/8/13	\$ 2,
2,250,000	CCC+/B3	AmWins Group, Inc., Second Lien Initial Term Loan, 5.86%, 6/9/14	2,
		Total Insurance	\$ 2,

		SOFTWARE & SERVICES -- 1.2%	
		Application Software -- 1.2%	
1,700,000	NR/NR	Applied Systems, Inc., Second Lien Term Loan, 9.25%, 6/8/17	\$ 1,
2,500,000	CCC+/Caa1	Vertafore, Inc., Second Lien Term Loan, 9.75%, 10/29/17	2,
		Total Software & Services	\$ 4,

		UTILITIES -- 0.3%	
		Electric Utilities -- 0.3%	
1,316,443	CCC/B2	Texas Competitive Electric Holdings Co., LLC, Extending Term Loan, 4.75%, 10/10/17	\$
		Total Utilities	\$

		TOTAL FLOATING RATE LOAN INTERESTS (Cost \$26,234,185)	\$ 25,

Shares			

		COMMON STOCKS -- 2.1% of Net Assets	
		ENERGY -- 0.1%	
		Oil & Gas Drilling -- 0.1%	
13,045 (h)		Rowan Companies, Inc.	\$
		Total Energy	\$

		MATERIALS -- 1.1%	
		Commodity Chemicals -- 0.1%	
26,430 (h)		Georgia Gulf Corp.	\$

		Diversified Chemicals -- 0.6%	
94,230 (h)		Lyondell Basell Industries NV	\$ 2,

		Diversified Metals & Mining -- 0.3%	
1,391,615 (g) (h) (j)		Blaze Recycling and Metals LLC, Class A Units	\$
3,402		Freeport-McMoRan Copper & Gold, Inc. (Class B)	-----
		Total Metals	\$ 1,

		Steel -- 0.1%	
26,215 (g) (h) (j)		KNIA Holdings, Inc.	\$
		Total Materials	\$ 3,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 29

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Shares		Value
	CAPITAL GOODS -- 0.1%	
	Building Products -- 0.1%	
894 (g) (h) (j)	Panolam Holdings Co.	\$ 438,06
	Total Capital Goods	\$ 438,06
	TRANSPORTATION -- 0.2%	
	Airlines -- 0.2%	
97,564 (h)	Delta Air Lines, Inc.	\$ 731,73
	Total Transportation	\$ 731,73
	AUTOMOBILES & COMPONENTS -- 0.4%	
	Auto Parts & Equipment -- 0.4%	
29,909	Lear Corp.	\$ 1,283,09
	Total Automobiles & Components	\$ 1,283,09
	PHARMACEUTICALS, BIOTECHNOLOGY & LIFE SCIENCES -- 0.2%	
	Pharmaceuticals -- 0.2%	
17,818	Teva Pharmaceutical Industries, Ltd. (A.D.R.)	\$ 663,18
	Total Pharmaceuticals, Biotechnology & Life Sciences	\$ 663,18
	SOFTWARE & SERVICES -- 0.0%	
	Systems Software -- 0.0%	
10,942	Perseus Holding Corp. (144A)	\$ -
	TOTAL COMMON STOCKS (Cost \$7,233,652)	\$ 7,424,51
	CONVERTIBLE PREFERRED STOCK -- 0.4%	
	DIVERSIFIED FINANCIALS -- 0.4%	
	Other Diversified Financial Services -- 0.4%	
1,880	Bank of America Corp., 7.25%	\$ 1,440,06
	Total Diversified Financials	\$ 1,440,06
	TOTAL CONVERTIBLE PREFERRED STOCK (Cost \$1,383,242)	\$ 1,440,06
	PREFERRED STOCKS -- 0.7% of Net Assets	
	DIVERSIFIED FINANCIALS -- 0.6%	
	Diversified Financial Services -- 0.6%	
2,925,000	GMAC Capital Trust I, 8.125%	\$ 2,135,25
	Total Diversified Financials	\$ 2,135,25

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

	SOFTWARE & SERVICES -- 0.1%	
	Systems Software -- 0.1%	
5,745 (h) (j)	Perseus Holding Corp., 14.0% (144A)	\$ 201,07
	Total Software & Services	\$ 201,07

	TOTAL PREFERRED STOCKS	
	(Cost \$2,952,923)	\$ 2,336,32

The accompanying notes are an integral part of these financial statements.

30 Pioneer High Income Trust | Semiannual Report | 9/30/11

Shares		Value

	RIGHTS/WARRANTS -- 0.0%	
	ENERGY -- 0.0%	
	Oil & Gas Exploration & Production -- 0.0%	
NOK 1,310,558	Norse Energy Corp. ASA, Expires 6/16/15	\$ 22,323
	Total Energy	\$ 22,323

	TOTAL RIGHTS/WARRANTS	
	(Cost \$0)	\$ 22,323

Principal
Amount
USD (\$)

	TEMPORARY CASH INVESTMENTS -- 12.4% of Net Assets	
	SECURITIES LENDING COLLATERAL -- 12.4% (k)	
	Certificates of Deposit:	
1,002,803	Bank of Montreal Chicago, 0.18%, 10/20/11	\$ 1,002,803
1,002,803	Bank of Montreal Chicago, 0.38%, 9/26/12	1,002,803
1,002,803	Bank of Nova Scotia, 0.32%, 10/11/12	1,002,803
250,930	Bank of Nova Scotia Houston, 0.54%, 6/11/12	250,930
1,253,504	Canadian Imperial Bank of Commerce NY, 0.21%, 10/3/11	1,253,504
1,253,428	Dnb Nor Bank ASA NY, 0.22%, 11/14/11	1,253,428
1,128,154	JPMorgan Chase Bank NA, 0.28%, 10/17/12	1,128,154
626,750	National Australia Bank NY, 0.27%, 10/19/11	626,750
877,453	National Australia Bank NY, 0.31%, 1/9/12	877,453
1,379,003	Rabobank Nederland, 0.32%, 4/2/12	1,379,003
626,752	Royal Bank of Canada NY, 0.48%, 9/10/12	626,752
1,253,531	Skandinav Enskilda Bank NY, 0.33%, 11/9/11	1,253,531
501,418	Wachovia Corp., 0.38%, 10/15/11	501,418
376,232	Wachovia Corp., 0.48%, 3/1/12	376,232
1,253,504	Westpac Banking Corp., NY, 0.33%, 12/6/11	1,253,504

		\$ 13,789,068

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Commercial Paper:		
501,402	American Honda Finance, 0.30%, 1/11/12	\$ 501,402
299,817	Chariot Funding LLC, 0.16%, 10/17/11	299,817
1,002,786	Chariot Funding LLC, 0.16%, 10/5/11	1,002,786
877,387	Chariot Funding LLC, 0.15%, 10/19/11	877,387
400,892	Commonwealth Bank of Australia, 0.28%, 12/15/11	400,892
763,812	Commonwealth Bank of Australia, 0.39%, 2/23/12	763,812
626,719	Falcon Asset Securitization Co., LLC, 0.16%, 10/13/11	626,719
1,253,471	Falcon Asset Securitization Co., LLC, 0.16%, 10/7/11	1,253,471
575,377	Federal Farm Credit, 0.18%, 8/20/12	575,377
902,517	General Electric Capital Corp., 0.37%, 4/10/12	902,517
125,265	General Electric Capital Corp., 0.42%, 7/27/12	125,265
137,923	General Electric Capital Corp., 0.48%, 11/21/11	137,923
626,745	National Australia Funding Delaware, Inc., 0.19%, 10/3/11	626,745

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 31

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Principal Amount USD (\$)		Value
<div style="text-align: left; padding-left: 40px;">Commercial Paper -- Continued</div>		
1,127,677	Nestle Capital Corp., 0.19%, 12/20/11	\$ 1,127,677
1,002,023	Nordea NA, 0.28%, 1/9/12	1,002,023
803,656	Old Line Funding LLC, 0.17%, 10/5/11	803,656
376,041	Old Line Funding LLC, 0.17%, 10/7/11	376,041
1,002,675	Procter & Gamble, 0.14%, 11/3/11	1,002,675
626,752	Royal Bank of Canada, 0.30%, 10/1/12	626,752
752,035	Sanofi Aventis SA, 0.17%, 10/20/11	752,035
278,402	Straight-a Funding LLC, 0.19%, 12/9/11	278,402
1,253,504	Svenska HandelsBanken, 0.38%, 10/5/12	1,253,504
672,194	Thunderbay Funding LLC, 0.17%, 10/12/11	672,194
502,119	Thunderbay Funding LLC, 0.18%, 10/5/11	502,119
250,589	Thunderbay Funding LLC, 0.22%, 12/13/11	250,589
501,202	Thunderbay Funding LLC, 0.22%, 12/5/11	501,202
626,693	Variable Funding Capital Co., LLC, 0.19%, 10/19/11	626,693
626,507	Variable Funding Capital Co., LLC, 0.21%, 12/7/11	626,507
250,777	Wells Fargo & Co., 0.34%, 1/24/12	250,777
		\$ 18,746,959
<div style="text-align: left; padding-left: 40px;">Tri-Party Repurchase Agreements:</div>		
1,253,504	Merrill Lynch, Inc., 0.04%, dated 9/30/11, repurchase price of \$1,253,504 plus accrued interest on 10/3/11 collateralized by the following: \$247,144 U.S. Treasury Bond, 5.0%, 5/15/37 \$1,031,432 U.S. Treasury Note, 1.75%, 5/31/16	\$ 1,253,504
5,026,451	RBS Securities, Inc., 0.05%, dated 9/30/11, repurchase price of \$5,026,451 plus accrued interest on 10/3/11 collateralized by \$5,127,102 Federal Home Loan Mortgage Corp.,	

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

501,402	0.0%, 3/30/12 - 6/30/12	5,026,451
	Barclays Capital Markets, 0.05%, dated 9/30/11, repurchase price of \$501,402 plus accrued interest on 10/3/11 collateralized by \$511,430 U.S. Treasury Notes, 3.125 - 3.625%, 2/15/21 - 5/15/21	501,402
		\$ 6,781,357

Shares

	Money Market Mutual Funds:	
\$1,880,256	Dreyfus Preferred Money Market Fund	\$ 1,880,256
1,880,256	Fidelity Prime Money Market Fund	1,880,256
		\$ 3,760,512
	Total Securities Lending Collateral	\$ 43,077,896
	TOTAL TEMPORARY CASH INVESTMENTS (Cost \$43,077,896)	\$ 43,077,896

The accompanying notes are an integral part of these financial statements.

32 Pioneer High Income Trust | Semiannual Report | 9/30/11

Shares	Value
TOTAL INVESTMENTS IN SECURITIES -- 153.8% (Cost \$549,086,768) (1) (m)	\$ 534,844,115
OTHER ASSETS AND LIABILITIES -- (10.4)%	\$ (36,013,035)
PREFERRED SHARES AT REDEMPTION VALUE, INCLUDING DIVIDENDS PAYABLE -- (43.4)%	\$ (151,000,891)
NET ASSETS APPLICABLE TO COMMON SHAREOWNERS -- 100.0%	\$ 347,830,189

(144A) Security is exempt from registration under Rule 144A of the Securities Act of 1933. Such securities may be resold normally to qualified institutional buyers in a transaction exempt from registration. At September 30, 2011, the value of these securities amounted to \$200,501,147 or 57.6% of total net assets applicable to common shareowners.

NR Security not rated by S&P or Moody's.

WR Rating withdrawn by either S&P or Moody's.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

* Senior floating rate loan interests in which the Trust invests generally pay interest at rates that are periodically redetermined by reference to a base lending rate plus a premium. These base lending rates are generally (i) the lending rate offered by one or more major European banks, such as LIBOR (London InterBank Offered Rate), (ii) the prime rate offered by one or more major United States banks, (iii) the certificate of deposit or (iv) other base lending rates used by commercial lenders. The interest rate shown is the rate accruing at September 30, 2011.

(a) Floating rate note. The rate shown is the coupon rate at September 30, 2011.

(b) At September 30, 2011, the following securities were out on loan:

Principal Amount USD (\$)	Description	Market Value
760,000	ABN Amro North American Holding Preferred Capital Repackage Trust I, 6.523% (144A)	\$ 581,955
2,674,000	ADS Tactical, Inc., 11.0%, 4/1/18 (144A)	2,771,676
100,000	Accellent, Inc., 10.0%, 11/1/17	89,389
2,175,000	Algoma Acquisition Corp., 9.875%, 6/15/15 (144A)	1,748,269
400,000	Broadview Networks Holdings, Inc., 11.375%, 9/1/12	323,665
450,000	Burger King Capital Holdings LLC, 0.0%, 4/15/19 (144A)	246,375
1,370,000	Burger King Corp., 9.875%, 10/15/18	1,473,106
2,205,000	Chrysler Group LLC/CG Co-Issuer, Inc., 8.0%, 6/15/19 (144A)	1,781,640
417,000	Cincinnati Bell, Inc., 8.75%, 3/15/18	371,608
395,000	First Data Corp., 9.875%, 9/24/15	330,813
600,000	Hercules Offshore, Inc., 3.375%, 6/1/38	546,694
2,804,600	Hologic, Inc., 2.0%, 12/15/37	2,915,614
2,077,000	Ineos Group Holdings Plc, 8.5%, 2/15/16 (144A)	1,559,048
495,000	JA Solar Holdings Co., Ltd., 4.5%, 5/15/13	340,003
1,965,000	LifePoint Hospitals, Inc., 3.25%, 8/15/25	1,995,090

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 33

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

Principal Amount USD (\$)	Description	Market Value
750,000	Manitowoc Co., Inc., 9.5%, 2/15/18	\$ 742,031
2,383,000	Minerva Overseas II, Ltd., 10.875%, 11/15/19 (144A)	1,979,751
5,118,000	Mueller Water Products, Inc., 7.375%, 6/1/17	4,116,806
2,000,000	NCO Group, Inc., 11.875%, 11/15/14	1,909,062
1,480,000	Ono Finance II Plc, 10.875%, 7/15/19 (144A)	1,069,531
2,899,000	PAETEC Holding Corp., 9.5%, 7/15/15	3,072,337
153,000	Pilgrim's Pride Corp., 7.875%, 12/15/18 (144A)	120,177

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

750,000	Pinafore LLC, 9.0%, 10/1/18 (144A)	802,313
3,500,000	Quicksilver Resources, Inc., 7.125%, 4/1/16	3,203,994
608,000	Sally Holdings LLC, 10.5%, 11/15/16	651,700
300,000	Suntech Power Holdings Co., Ltd., 3.0%, 3/15/13	118,875
1,000,000	Swift Services Holdings, Inc., 10.0%, 11/15/18	927,500
346,000	Texas Competitive Electric Holdings LLC, 11.5%, 10/1/20 (144A)	286,637
99,000	Transocean, Ltd., 1.5%, 12/15/37	98,072
500,000	Vertellus Specialties, Inc., 9.375%, 10/1/15 (144A)	460,808
1,850,000	Xinergy Corp., 9.25%, 5/15/19 (144A)	1,724,200
3,600,000	Yankee Acquisition Corp., 8.5%, 2/15/15	3,494,250

		\$41,852,989
=====		

- (c) Security is in default and is non-income producing.
- (d) Debt obligation initially issued at one coupon rate which converts to a higher coupon rate at a specific date. The rate shown is the rate at September 30, 2011.
- (e) Payment-in-Kind (PIK) security which may pay interest in the form of additional principal amount.
- (f) Security is priced as a unit.
- (g) Security is valued using fair value methods (other than prices supplied by independent pricing services). (See Note 1A)
- (h) Non-income producing.
- (i) Security is perpetual in nature and has no stated maturity date.
- (j) Indicates a security that has been deemed illiquid. The aggregate cost of illiquid securities is \$5,047,418. The aggregate fair value of \$3,790,445 represents 1.1% of the total net assets applicable to common shareowners.
- (k) Securities lending collateral is managed by Credit Suisse AG, New York Branch.

The accompanying notes are an integral part of these financial statements.

34 Pioneer High Income Trust | Semiannual Report | 9/30/11

- (l) At September 30, 2011, the net unrealized loss on investments based on cost for federal income tax purposes of \$549,086,768 was as follows:

Aggregate gross unrealized gain for all investments in which there is an excess of value over tax cost	\$ 33,700,673
Aggregate gross unrealized loss for all investments in which there is an excess of tax cost over value	(47,943,326)

Net unrealized loss	\$ (14,242,653)
	=====

- (m) Distribution of investments by country of issue, as a percentage of total holdings, is as follows:

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

United States	77.7%
Canada	4.1
Cayman Islands	2.9
Netherlands	2.0
Norway	1.9
United Kingdom	1.7
Bermuda	1.6
Brazil	1.4
Luxembourg	1.3
Ireland	1.1
Other (individually less than 1%)	4.3

	100.0%
	=====

For financial reporting purposes net unrealized loss on investments was \$(14,242,653) and cost of investments aggregated \$549,086,768.

Purchases and sales of securities (excluding temporary cash investments) for the six months ended September 30, 2011 aggregated \$95,133,403 and \$79,411,265, respectively.

Note: Principal amounts are denominated in U.S. dollars unless otherwise noted.

CNY -- Chinese Yuan
 EURO -- Euro
 GBP -- British Pound
 NOK -- Norwegian Krone

Glossary of Terms:

(A.D.R.) American Depository Receipt.

Various inputs are used in determining the value of the Trust's investments. These inputs are summarized in the three broad levels listed below.

- Level 1 -- quoted prices in active markets for identical securities
- Level 2 -- other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.)
- Level 3 -- significant unobservable inputs (including the Trust's own assumptions in determining fair value of investments)

Generally, equity securities are categorized as Level 1, fixed income securities and senior loans are categorized as Level 2 and securities valued using fair value methods are categorized as Level 3.

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 35

Schedule of Investments | 9/30/11 (Consolidated) (unaudited) (continued)

The following is a summary of the inputs used as of September 30, 2011, in

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

valuing the Trust's investments:

	Level 1	Level 2	Level 3	Total
Asset backed securities	\$ --	\$ 10,091,717	\$ --	\$ 10,091,717
Collateralized mortgage obligations	--	1,702,296	--	1,702,296
Corporate bonds & notes (environmental & facilities services)	--	1,109,941	133,492	1,243,433
Corporate bonds & notes (other industries)	--	390,990,275	--	390,990,275
Convertible bonds & notes	--	24,536,307	--	24,536,307
Municipal bonds	--	21,079,765	--	21,079,765
Municipal collateralized debt obligation	--	2,007,852	--	2,007,852
Sovereign debt obligations	--	3,364,793	--	3,364,793
Floating rate loan interests	--	25,526,556	--	25,526,556
Common stocks (diversified metals & mining)	103,591	--	960,214	1,063,805
Common stocks (steel)	--	--	183,244	183,244
Common stocks (building products)	--	--	438,060	438,060
Common stocks (other industries)	5,739,407	--	--	5,739,407
Convertible preferred stock	1,440,061	--	--	1,440,061
Preferred stock	--	2,336,325	--	2,336,325
Rights/Warrants	22,323	--	--	22,323
Temporary cash investments	--	32,536,027	--	32,536,027
Repurchase agreements	--	6,781,357	--	6,781,357
Money market mutual funds	3,760,512	--	--	3,760,512
Total	\$11,065,894	\$522,063,211	\$1,715,010	\$534,844,115
Other Financial Instruments	\$ --	\$ (4,808)	\$ --	\$ (4,808)

* Other financial instruments include foreign exchange contracts and net unrealized loss on unfunded loan commitments.

The accompanying notes are an integral part of these financial statements.

36 Pioneer High Income Trust | Semiannual Report | 9/30/11

The following is a reconciliation of assets valued using significant unobservable inputs (level 3):

	Balance as of 3/31/11	Realized gain (loss)	Change in unrealized appreciation (depreciation)	Net purchase (sales)	Transfer in and out of Level 3*
--	-----------------------	----------------------	--	----------------------	---------------------------------

Corporate bonds & notes

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

(environmental & facilities services)	\$ 133,492	\$--	\$--	\$--	\$--
Common stocks (diversified metals & mining)	960,214	--	--	--	--
Common stocks (steel)	183,244	--	--	--	--
Common stock (building products)	438,060	--	--	--	--
Ending balance	\$1,715,010	\$--	\$--	\$--	\$--

* Transfers are calculated on the date of transfer.

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 37

Statement of Assets and Liabilities | 9/30/11 (Consolidated) (unaudited)

ASSETS:

Investments in securities, at value (including securities loaned of \$41,852,989) (cost \$549,086,768)	\$534,844,115
Cash	1,310,852
Receivables --	
Investment securities sold	96,090
Dividends and interest	13,694,591
Forward foreign currency portfolio hedge contracts -- net	66,629
Prepaid expenses	2,128
Other assets	384,364
Total assets	\$550,398,769

LIABILITIES:

Payables --	
Investment securities purchased	\$ 1,228,611
Upon return of securities loaned	43,077,896
Depreciation on unfunded loan commitments -- net	4,808
Foreign currency overdraft	6,795,681
Due to affiliates	301,163
Accrued expenses	159,530
Total liabilities	\$ 51,567,689

PREFERRED SHARES AT REDEMPTION VALUE:

\$25,000 liquidation value per share applicable to 6,040 shares, including dividends payable of \$891	\$151,000,891
---	---------------

NET ASSETS APPLICABLE TO COMMON SHAREOWNERS:

Paid-in capital	399,908,995
Undistributed net investment income	12,306,270
Accumulated net realized loss on investments and foreign currency transactions	(50,437,801)
Net unrealized loss on investments	(14,247,461)
Net unrealized gain on forward foreign currency contracts and other assets and liabilities denominated in foreign currencies	300,186
Net assets applicable to common shareowners	\$347,830,189

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

=====

NET ASSET VALUE PER COMMON SHARE:

No par value (unlimited number of shares authorized)
 Based on \$347,830,189/28,128,618 common shares

\$ 12.37

=====

The accompanying notes are an integral part of these financial statements.

38 Pioneer High Income Trust | Semiannual Report | 9/30/11

Statement of Operations (Consolidated) (unaudited)

For the Six Months Ended 9/30/11

INVESTMENT INCOME:

Interest (net of foreign taxes withheld \$3,519) \$ 25,809,757
 Dividend income (net of foreign taxes withheld \$5,390) 110,355
 Income from securities loaned, net 66,543

Total investment income \$ 26,986,655

EXPENSES:

Management fees \$ 1,449,283
 Administrative fees 172,076
 Transfer agent fees and expenses 3,789
 Shareowner communications expense 23,406
 Auction agent fees 201,645
 Custodian fees 78,020
 Registration fees 11,854
 Professional fees 38,856
 Printing expense 23,426
 Trustees' fees 8,332
 Pricing fee 4,203
 Miscellaneous 29,016

Total expenses \$ 2,131,125

Net investment income \$ 24,855,530

REALIZED AND UNREALIZED GAIN (LOSS) ON INVESTMENTS AND
 FOREIGN CURRENCY TRANSACTIONS:

Net realized gain from:
 Investments \$ 8,770,977
 Forward foreign currency contracts and other assets and liabilities
 denominated in foreign currencies 300,555

Change in unrealized gain (loss) from:
 Investments \$ (65,316,147)
 Unfunded corporate loans (1,823)
 Forward foreign currency contracts and other assets and liabilities
 denominated in foreign currencies 2,093

Net loss on investments and foreign currency transactions \$ (56,244,400)

DISTRIBUTIONS TO PREFERRED SHAREOWNERS FROM NET
 INVESTMENT INCOME:

Net decrease in net assets applicable to common shareowners
 resulting from operations \$ (31,633,270)

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 39

Statement of Changes in Net Assets (Consolidated)

	Six Months Ended 9/30/11 (unaudited)	Year Ended 3/30/11
FROM OPERATIONS:		
Net investment income	\$ 23,942,749	\$ 46,924,7
Net realized gain on investments and foreign currency transactions	9,071,532	3,493,2
Change in unrealized gain (loss) on investments and foreign currency transactions	(65,315,877)	26,357,4
Distributions to preferred shareowners from net investment income	(107,568)	(459,3
Net increase (decrease) in net assets applicable to common shareowners resulting from operations	\$ (32,409,164)	\$ 76,316,0
DISTRIBUTIONS TO COMMON SHAREOWNERS:		
Net investment income (\$0.83 and \$1.65 per share, respectively)	\$ (23,144,896)	\$ (45,965,0
Total distributions to common shareowners	\$ (23,144,896)	\$ (45,965,0
FROM TRUST SHARE TRANSACTIONS:		
Reinvestment in distributions	\$ 2,035,929	\$ 3,910,6
Net increase in net assets applicable to common shareowners from Trust share transactions	\$ 2,035,929	\$ 3,910,6
Net increase (decrease) in net assets applicable to common shareowners	\$ (53,518,131)	\$ 34,261,6
NET ASSETS APPLICABLE TO COMMON SHAREOWNERS:		
Beginning of period	401,348,320	367,086,7
End of period	\$347,830,189	\$401,348,3
Undistributed net investment income	\$ 12,306,270	\$ 11,615,9

The accompanying notes are an integral part of these financial statements.

40 Pioneer High Income Trust | Semiannual Report | 9/30/11

Financial Highlights

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

	Six Months Ended 9/30/11 (Consolidated) (Unaudited)	Year Ended 3/31/ (Cons
Per Share Operating Performance		
Net asset value, beginning of period	\$ 14.33	\$ 13.
Increase (decrease) from investment operations:(a)		
Net investment income	\$ 0.86	\$ 1.
Net realized and unrealized gain (loss) on investments and foreign currency transactions	(1.99)	1.
Dividends and distributions to preferred shareowners from:		
Net investment income	(0.00) (g)	(0.
Net realized gains	--	
Net increase (decrease) from investment operations	\$ (1.13)	\$ 2.
Dividends and distributions to common shareowners from:		
Net investment income	(0.83)	(1.
Net realized gains	--	
Net increase (decrease) in net asset value	\$ (1.96)	\$ 1.
Net asset value, end of period(b)	\$ 12.37	\$ 14.
Market value, end of period(b)	\$ 16.35	\$ 16.
Total return at market value(c)	3.17%	20.
Ratios to average net assets		
Net expenses(d)	0.98% (f)	1.
Net investment income before preferred share dividends	11.48% (f)	12.
Preferred share dividends	0.05% (f)	0.
Net investment income available to common shareowners	11.43% (f)	12.
Year Ended 3/31/10 Year Ended 3/31/09		
Per Share Operating Performance		
Net asset value, beginning of period	\$ 7.07	\$ 13.41
Increase (decrease) from investment operations:(a)		
Net investment income	\$ 1.65	\$ 1.82
Net realized and unrealized gain (loss) on investments and foreign currency transactions	6.17	(6.38)
Dividends and distributions to preferred shareowners from:		
Net investment income	(0.01)	(0.13)
Net realized gains	--	--
Net increase (decrease) from investment operations	\$ 7.81	\$ (4.69)
Dividends and distributions to common shareowners from:		
Net investment income	(1.65)	(1.65)
Net realized gains	--	--
Net increase (decrease) in net asset value	\$ 6.16	\$ (6.34)

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Net asset value, end of period(b)	\$ 13.23	\$ 7.07
Market value, end of period(b)	\$ 15.38	\$ 8.03
Total return at market value(c)	119.69%	(27.74)%
Ratios to average net assets		
Net expenses(d)	1.23%	1.25%
Net investment income before preferred share dividends	14.92%	17.03%
Preferred share dividends	0.13%	1.22%
Net investment income available to common shareowners	14.79%	15.81%

The accompanying notes are an integral part of these financial statements.

Pioneer High Income Trust | Semiannual Report | 9/30/11 41

Financial Highlights (continued)

	Six Months Ended 9/30/11 (Consolidated) (Unaudited)	Year Ended 3/31/ (Consolidated)
Portfolio turnover	15%	
Net assets of common shareowners, end of period (in thousands)	\$347,830	\$401,000
Preferred shares outstanding (in thousands)	\$151,000	\$151,000
Asset coverage per preferred share, end of period	\$ 82,588	\$ 91,000
Average market value per preferred share(e)	\$ 25,000	\$ 25,000
Liquidation value, including dividends payable, per preferred share	\$ 25,001	\$ 25,000
Ratio to average net assets of common shareowners before waivers and reimbursements of expenses		
Net expenses(d)	0.98% (f)	1.25%
Net investment income before preferred share dividends	11.48% (f)	12.03%
Preferred share dividends	0.05% (f)	0.13%
Net investment income available to common shareowners	11.43% (f)	12.03%

	Year Ended 3/31/10	Year Ended 3/31/09
Portfolio turnover	15%	19%
Net assets of common shareowners, end of period (in thousands)	\$367,087	\$194,057
Preferred shares outstanding (in thousands)	\$151,000	\$151,000
Asset coverage per preferred share, end of period	\$ 85,777	\$ 57,131
Average market value per preferred share(e)	\$ 25,000	\$ 25,000
Liquidation value, including dividends payable, per preferred share	\$ 25,001	\$ 25,002
Ratio to average net assets of common shareowners before waivers and reimbursements of expenses		
Net expenses(d)	1.23%	1.25%
Net investment income before preferred share dividends	14.92%	17.03%
Preferred share dividends	0.13%	1.22%
Net investment income available to common shareowners	14.79%	15.81%

- (a) The per common share data presented above is based upon the average common shares outstanding for the periods presented.
- (b) Net asset value and market value are published in Barron's on Saturday, The Wall Street Journal on Monday and The New York Times on Monday and Saturday.
- (c) Total investment return is calculated assuming a purchase of common shares at the current market value on the first day and a sale at the current market value on the last day of the periods reported. Dividends and distributions, if any, are assumed for purposes of this calculation to be reinvested at prices obtained under the Trust's dividend reinvestment plan. Total investment return does not reflect brokerage commissions. Past performance is not a guarantee of future results.
- (d) Expense ratios do not reflect the effect of dividend payments to preferred shareowners.
- (e) Market value is redemption value without an active market.
- (f) Annualized.
- (g) Amount is less than \$0.01 per common share.

The information above represents the audited operating performance data for a share of common stock outstanding, total investment return, ratios to average net assets of common shareowners and other supplemental data for the periods indicated. This information has been determined based upon financial information provided in the financial statements and market value data for the Trust's common shares.

The accompanying notes are an integral part of these financial statements.

42 Pioneer High Income Trust | Semiannual Report | 9/30/11

Notes to Financial Statements | 9/30/11 (Consolidated) (unaudited)

1. Organization and Significant Accounting Policies

Pioneer High Income Trust (the Trust) was organized as a Delaware statutory trust on January 30, 2002. Prior to commencing operations on April 26, 2002, the Trust had no operations other than matters relating to its organization and registration as a diversified, closed-end management investment company under the Investment Company Act of 1940, as amended. The investment objective of the Trust is to seek a high level of current income and the Trust may, as a secondary objective, also seek capital appreciation to the extent that it is consistent with its investment objective.

Information regarding the Trust's principal risks is contained in the Trust's original offering prospectus, with additional information included in the Trust's shareowner reports issued from time to time. Please refer to those documents when considering the Trust's principal risks. At times, the Trust's investments may represent industries or industry sectors that are interrelated or have common risks, making the Trust more susceptible to any economic, political, or regulatory developments or other risks affecting those industries and sectors.

Under normal market conditions, the Trust invests at least 80% of its assets in below investment grade (high-yield) debt securities, loans and preferred stocks. Because the Trust's investments are concentrated in high-yield securities, the Trust is subject to risks of such securities. Below investment grade securities are commonly referred to as "junk bonds" and are considered speculative with respect to the issuer's capacity to pay interest and repay

principal.

The Trust's investments in certain foreign markets or countries with limited developing markets may subject the Trust to a greater degree of risk than in a developed market. These risks include disruptive political or economic conditions and the possible imposition of adverse governmental laws or currency exchange restrictions.

The Trust's financial statements have been prepared in conformity with U.S. generally accepted accounting principles that require the management of the Trust to, among other things, make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of income, expenses and gain or loss on investments during the reporting year. Actual results could differ from those estimates.

Pioneer High Income Trust | Semiannual Report | 9/30/11 43

The following is a summary of significant accounting policies followed by the Trust in the preparation of its financial statements, which are consistent with those policies generally accepted in the investment company industry:

A. Security Valuation

Security transactions are recorded as of trade date. Investments in loan interests are valued in accordance with guidelines established by the Board of Trustees at the mean between the last available bid and asked prices from one or more brokers or dealers as obtained from Loan Pricing Corporation. Loan interests for which no reliable price quotes are available will be valued by Loan Pricing Corporation through the use of pricing matrices to determine valuations. Fixed income securities with remaining maturity of more than sixty days are valued at prices supplied by independent pricing services, which consider such factors as market prices, market events, quotations from one or more brokers, Treasury spreads, yields, maturities and ratings. Valuations may be supplemented by dealers and other sources, as required. Equity securities that have traded on an exchange are valued at the last sale price on the principal exchange where they are traded. Equity securities or loan interests for which independent pricing services are unable to supply prices or for which market prices and/or quotations are not readily available or are considered to be unreliable are valued using fair value methods pursuant to procedures adopted by the Board of Trustees.

The Trust may use fair value methods if it is determined that a significant event has occurred after the close of the exchange or market on which the security trades and prior to the determination of the Trust's net asset value. Thus, the valuation of the Trust's securities may differ from exchange prices.

At September 30, 2011, four securities were valued using fair value methods (in addition to securities valued using prices supplied by independent pricing services) representing 0.5% of net assets applicable to common shareowners. Inputs used when applying fair value methods to value a security may include credit ratings, the financial condition of the company, current market conditions and comparable securities. Short-term fixed income securities with remaining maturities of sixty days or less generally are valued at amortized cost. Money market mutual funds are valued at net asset value.

Discounts and premiums on debt securities are accreted or amortized,

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

respectively, daily, into interest income on an effective yield to maturity basis with a corresponding increase or decrease in the cost basis of the security. Premiums and discounts related to certain mortgage-backed securities are amortized or accreted in proportion to the monthly paydowns. Interest income, including interest on income bearing cash accounts, is recorded on an accrual basis, net of unrecoverable foreign taxes withheld at the applicable country rates.

44 Pioneer High Income Trust | Semiannual Report | 9/30/11

Dividend income is recorded on the ex-dividend date, except that certain dividends from foreign securities where the ex-dividend date may have passed are recorded as soon as the Trust becomes aware of the ex-dividend data in the exercise of reasonable diligence.

Gains and losses on sales of investments are calculated on the identified cost method for both financial reporting and federal income tax purposes.

B. Foreign Currency Translation

The books and records of the Trust are maintained in U.S. dollars. Amounts denominated in foreign currencies are translated into U.S. dollars using current exchange rates.

Net realized gains and losses on foreign currency transactions, if any, represent, among other things, the net realized gains and losses on foreign currency contracts, disposition of foreign currencies and the difference between the amount of income accrued and the U.S. dollars actually received. Further, the effects of changes in foreign currency exchange rates on investments are not segregated in the Statement of Operations from the effects of changes in market prices of those securities but are included with the net realized and unrealized gain or loss on investments.

C. Forward Foreign Currency Contracts

The Trust may enter into forward foreign currency contracts (contracts) for the purchase or sale of a specific foreign currency at a fixed price on a future date. All contracts are marked to market daily at the applicable exchange rates, and any resulting unrealized gains or losses are recorded in the Trust's financial statements. The Trust records realized gains and losses at the time a portfolio hedge is offset by entry into a closing transaction or extinguished by delivery of the currency. Risks may arise upon entering into these contracts from the potential inability of counterparties to meet the terms of the contracts and from unanticipated movements in the value of foreign currencies relative to the U.S. dollar (see Note 6).

D. Federal Income Taxes

It is the Trust's policy to comply with the requirements of the Internal Revenue Code applicable to regulated investment companies and to distribute all of its taxable income and net realized capital gains, if any, to its shareowners. Therefore, no federal income tax provision is required. Tax years for the prior three fiscal years remain subject to examination by tax authorities.

The amounts and characterizations of distributions to shareowners for financial reporting purposes are determined in accordance with federal income

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

tax rules. Therefore, the sources of the Trust's distributions may be shown in the accompanying financial statements as from or in excess of net

Pioneer High Income Trust | Semiannual Report | 9/30/11 45

investment income or net realized gain (loss) on investment and foreign currency transactions, or from paid-in capital, depending on the type of book/tax differences that may exist.

Under the recently enacted Regulated Investment Company Modernization Act of 2010, the Fund will be permitted to carry forward capital losses incurred in taxable years beginning after December 22, 2010 for an unlimited period. However, any losses incurred during those future years will be required to be utilized prior to the losses incurred in pre-enactment tax years. As a result of this ordering rule, pre-enactment capital loss carryforwards may be more likely to expire unused. Additionally, post enactment capital losses that are carried forward will retain their character as either short-term or long-term capital losses rather than being considered all short-term as under previous law.

The tax character of current year distributions paid to common and preferred shareowners during the year ended March 31, 2011 was as follows:

	2011
Distribution paid from:	
Ordinary Income	\$46,424,486
Total taxable distribution	\$46,424,486

The following shows the components of distributable earnings (losses) on a federal income tax basis at March 31, 2011:

	2011
Distributable earnings:	
Undistributed ordinary income	\$ 13,616,469
Capital loss carryforward	(58,140,584)
Post-October loss deferred	(953,338)
Dividends payable	(8,386)
Unrealized appreciation	48,961,093
Total	\$ 3,475,254

The difference between book-basis and tax-basis unrealized appreciation is primarily attributable to the tax deferral of losses on straddles and wash sales, the realization for tax purposes of unrealized gains on certain foreign currency contracts, the difference between book and tax amortization

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

methods for premiums and discounts on fixed income securities, the accrual of income on securities in default, and other book/tax temporary differences.

E. Repurchase Agreements

With respect to repurchase agreements entered into by the Trust, the value of the underlying securities (collateral), including accrued interest, is required to be equal to or in excess of the repurchase price. The collateral for all repurchase agreements is held in safekeeping in the customer-only

46 Pioneer High Income Trust | Semiannual Report | 9/30/11

account of the Trust's custodian or a subcustodian of the Trust. The Trust's investment adviser, Pioneer Investment Management, Inc. (PIM), is responsible for determining that the value of the collateral remains at least equal to the repurchase price.

F. Securities Lending

The Trust lends securities in its portfolio to certain broker-dealers or other institutional investors. When entering into a securities loan transaction, the Trust typically receives cash collateral from the borrower equal to at least the value of the securities loaned, which is invested in temporary investments. Credit Suisse AG, New York Branch, as the Trust's securities lending agent, manages the Trust's securities lending collateral. The income earned on the investment of collateral is shared with the borrower and the lending agent in payment of any rebate due to the borrower with respect to the securities loan, and in compensation for the lending agent's services to the Trust. The Trust also continues to receive payments in lieu of dividends or interest on the securities loaned. Gain or loss on the value of the loaned securities that may occur during the term of the loan will be for the account of the Trust. The amount of the collateral is required to be adjusted daily to reflect any price fluctuation in the value of the loaned securities. If the required market value of the collateral is less than the value of the loaned securities, the borrower is required to deliver additional collateral for the account of the Trust prior to the close of business on that day. The Trust has the right, under the lending agreement, to terminate the loan and recover the securities from the borrower with prior notice. The Trust is required to return the cash collateral to the borrower and could suffer a loss if the value of the collateral, as invested, has declined.

G. Automatic Dividend Reinvestment Plan

All common shareowners whose shares are registered in their own names automatically participate in the Automatic Dividend Reinvestment Plan (the Plan), under which participants receive all dividends and capital gain distributions (collectively, dividends) in full and fractional common shares of the Trust in lieu of cash. Shareowners may elect not to participate in the Plan. Shareowners not participating in the Plan receive all dividends and capital gain distributions in cash. Participation in the Plan is completely voluntary and may be terminated or resumed at any time without penalty by notifying American Stock Transfer & Trust Company, the agent for shareowners in administering the Plan (the Plan Agent), in writing prior to any dividend record date; otherwise such termination or resumption will be effective with respect to any subsequently declared dividend or other distribution.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

If a shareowner's shares are held in the name of a brokerage firm, bank or other nominee, the shareowner can ask the firm or nominee to participate in the Plan on the shareowner's behalf. If the firm or nominee does not offer

Pioneer High Income Trust | Semiannual Report | 9/30/11 47

the Plan, dividends will be paid in cash to the shareowner of record. A firm or nominee may reinvest a shareowner's cash dividends in common shares of the Trust on terms that differ from the terms of the Plan.

Whenever the Trust declares a dividend on common shares payable in cash, participants in the Plan will receive the equivalent in common shares acquired by the Plan Agent either (i) through receipt of additional unissued but authorized common shares from the Trust or (ii) by purchase of outstanding common shares on the New York Stock Exchange or elsewhere. If, on the payment date for any dividend, the net asset value per common share is equal to or less than the market price per share plus estimated brokerage trading fees (market premium), the Plan Agent will invest the dividend amount in newly issued common shares. The number of newly issued common shares to be credited to each account will be determined by dividing the dollar amount of the dividend by the net asset value per common share on the date the shares are issued, provided that the maximum discount from the then current market price per share on the date of issuance does not exceed 5%. If, on the payment date for any dividend, the net asset value per common share is greater than the market value (market discount), the Plan Agent will invest the dividend amount in common shares acquired in open-market purchases. There are no brokerage charges with respect to newly issued common shares. However, each participant will pay a pro rata share of brokerage trading fees incurred with respect to the Plan Agent's open-market purchases. Participating in the Plan does not relieve shareowners from any federal, state or local taxes which may be due on dividends paid in any taxable year. Shareowners holding Plan shares in a brokerage account may not be able to transfer the shares to another broker and continue to participate in the Plan.

2. Management Agreement

PIM, a wholly owned indirect subsidiary of UniCredit S.p.A. (UniCredit), manages the Trust's portfolio. Management fees payable under the Trust's Advisory Agreement with PIM are calculated daily at the annual rate of 0.60% of the Trust's average daily managed assets. "Managed assets" means (a) the total assets of the Trust, including any form of investment leverage, minus (b) all accrued liabilities incurred in the normal course of operations, which shall not include any liabilities or obligations attributable to investment leverage obtained through (i) indebtedness of any type (including, without limitation, borrowing through a credit facility of the issuance of debt securities), (ii) the issuance of preferred stock or other similar preference securities, and/or (iii) any other means. For the six months ended September 30, 2011, the net management fee was 0.51% of the Trust's average daily managed assets, which was equivalent to 0.69% of the Trust's average daily net assets attributable to the common shareowners.

48 Pioneer High Income Trust | Semiannual Report | 9/30/11

In addition, under PIM's management and administration agreements, certain other services and costs are paid by PIM and reimbursed by the Trust. At September 30, 2011, \$301,163 was payable to PIM related to management costs, administrative costs and certain other reimbursements and is included in "Due

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

to affiliates" on the Statement of Assets and Liabilities.

Effective September 1, 2010, PIM has retained State Street Bank and Trust Company (State Street) to provide certain administrative and accounting services to the Trust on its behalf. For such services, PIM pays State Street a monthly fee at an annual rate of 0.07% of the Trust's average daily managed assets up to \$500 million and 0.03% for average daily managed assets in excess of \$500 million, subject to a minimum monthly fee of \$10,000. Previously, PIM had retained Princeton Administrators, LLC (Princeton) to provide such services. PIM paid Princeton a monthly fee at an annual rate of 0.07% of the Trust's average daily managed assets up to \$500 million and 0.03% for average daily managed assets in excess of \$500 million, subject to a minimum monthly fee of \$10,000. Neither State Street nor Princeton received compensation directly from the Trust for providing such services.

3. Transfer Agents

Pioneer Investment Management Shareholder Services, Inc. (PIMSS), a wholly owned indirect subsidiary of UniCredit, through a sub-transfer agency agreement with American Stock Transfer & Trust Company, provides substantially all transfer agent and shareowner services related to the Trust's common shares at negotiated rates. Deutsche Bank Trust Company Americas (Deutsche Bank) is the transfer agent, registrar, dividend paying agent and auction agent with respect to the Trust's Auction Market Preferred Shares (AMPS). The Trust pays Deutsche Bank an annual fee, as is agreed to from time to time by the Trust and Deutsche Bank, for providing such services.

In addition, the Trust reimburses PIMSS for out-of-pocket expenses incurred by PIMSS related to shareowner communications activities such as proxy and statement mailings and outgoing phone calls.

4. Basis for Consolidation for the Pioneer High Income Trust

The consolidated financial statements of the Trust include the accounts of Blaze Holding HINCT, Inc. ("the Subsidiary"). All intercompany accounts and transactions have been eliminated in consolidation. The Subsidiary, a Delaware corporation, was incorporated on February 10, 2011 and is wholly-owned and controlled by the Trust. It is intended that the Trust will remain the sole shareholder of, and will continue to control, the Subsidiary. The Subsidiary acts as an investment vehicle for the Trust's interest in Blaze Recycling and Metals LLC, Class A Units. As of September 30, 2011, the Subsidiary represented approximately \$960,214 or approximately 0.3% of the net assets applicable to the common shareholders of the Trust.

Pioneer High Income Trust | Semiannual Report | 9/30/11 49

5. Expense Offset Arrangement

The Trust has entered into an arrangement with its custodian whereby credits realized as a result of uninvested cash balances are used to reduce a portion of the Trust's custodian expenses. For the six months ended September 30, 2011, the Trust expenses were not reduced under such arrangement.

6. Forward Foreign Currency Contracts

During the six months ended September 30, 2011, the Trust entered into various forward foreign currency contracts that obligate the Trust to deliver or take

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

delivery of currencies at specified future maturity dates. Alternatively, prior to the settlement date of a forward foreign currency contract, the Trust may close out such contract by entering into an offsetting contract. The average value of contracts open during the six months ended September 30, 2011 was 2,586,678.

Open portfolio hedge at September 30, 2011, were as follows:

Currency	Net Contracts to Receive/(Deliver)	In Exchange for US\$	Settlement Date	US\$ Value	Net Unreal Gain
EURO	(161,000)	\$ (230,977)	12/15/11	\$ (215,629)	\$15,34
EURO	(4,275,000)	(5,738,610)	01/31/12	(5,725,511)	13,09
GBP	(422,000)	(693,428)	11/04/11	(657,865)	35,56
GBP	(720,000)	\$ (1,124,118)	02/03/12	\$ (1,121,499)	2,61
Total					\$66,62

7. Unfunded Loan Commitments

As of September 30, 2011, the Trust had an unfunded loan commitment of \$137,376 (excluding unrealized depreciation on this commitment of \$4,808 as of September 30, 2011) which could be extended at the option of the borrower, pursuant to the following loan agreement:

Borrower	Unfunded Loan Commitment
National Specialty Hospitals, Inc., Delayed Draw Term Loan	\$137,376

8. Trust Shares

There are an unlimited number of common shares of beneficial interest authorized.

Transactions in common shares of beneficial interest for the six months ended September 30, 2011 and the year ended March 31, 2011 were as follows:

	9/30/11	3/31/11
Shares outstanding at beginning of period	27,999,225	27,737,499
Reinvestment of distributions	129,393	261,726
Shares outstanding at end of period	28,128,618	27,999,225

The Trust may classify or reclassify any unissued common shares of beneficial interest into one or more series of preferred shares of beneficial interest. As of September 30, 2011, there were 6,040 AMPS as follows: Series M7-2,020, Series W28,-2,020 and Series TH7-2,000.

Dividends on Series M7 and Series TH7 are cumulative at a rate which is to be reset every seven days based on the results of an auction. Dividends on Series W28 are also cumulative at a rate to be reset every 28 days based on the results of an auction. An auction fails if there are more AMPS offered for sale than there are buyers. When an auction fails, the dividend rate for the period will be the maximum rate on the auction dates described in the prospectus for the AMPS. Preferred shareowners are not able to sell their AMPS at an auction if the auction fails. Since February 2008, the Trust's auctions related to the AMPS have failed. The maximum rate for each 7-day Series is 150% of the 7 day commercial paper rate. The maximum rate for the 28-day series is 150% of the 30 day commercial paper rate. Dividend rates on AMPS ranged from 0.045% to 0.240% during the six months ended September 30, 2011.

The Trust may not declare dividends or make other distributions on its common shares or purchase any such shares if, at the time of the declaration, distribution or purchase, the Trust does not comply with the asset coverage ratios described in the prospectus for the AMPS.

The AMPS are redeemable at the option of the Trust, in whole or in part, on any dividend payment date at \$25,000 per share plus any accumulated or unpaid dividends, whether or not declared. The AMPS are also subject to mandatory redemption at \$25,000 per share plus any accumulated or unpaid dividends, whether or not declared, if certain requirements relating to the composition of the assets and liabilities of the Trust as set forth in the Statement of Preferences are not satisfied.

The holders of AMPS have voting rights equal to the holders of the Trust's common shares (one vote per share) and will vote together with holders of the common shares as a single class. Holders of AMPS are also entitled to elect two of the Trust's Trustees. In addition, the Investment Company Act of 1940, as amended, requires that along with approval by shareowners that might otherwise be required, the approval of the holders of a majority of any outstanding preferred shares, voting separately as a class, would be required to (a) adopt any plan of reorganization that would adversely affect the preferred shares and (b) take any action requiring a vote of security holders, including, among other things, changes in the Trust's subclassification as a closed-end management investment company or changes in its fundamental investment restrictions.

9. Additional Disclosures about Derivative Instruments and Hedging Activities:

Values of derivative instruments as of September 30, 2011 were as follows:

Asset Derivatives	Liabilities Deriva
-------------------	--------------------

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Derivatives	Balance Sheet Location	Value	Balance Sheet Location
Foreign Exchange Contracts	Receivables	\$66,629	Payables
Total		\$66,629	

The effect of derivative instruments on the Statement of Operations for the six months ended September 30, 2011 was as follows:

Derivatives	Location of Gain or (Loss) on Derivatives Recognized in Income	Realized Gain or (Loss) on Derivatives Recognized in Income	Change in Unrealized Gain (Loss) on Derivatives Recognized in I
Foreign Exchange Contracts	Net realized gain on forward foreign currency contracts and other assets and liabilities denominated in foreign currencies	\$391,060	
Foreign Exchange Contracts	Change in net unrealized gain (loss) on forward foreign currency contracts and other assets and liabilities denominated in foreign currencies		\$72,857

10. Subsequent Events

The Board of Trustees of the Trust declared a dividend from undistributed net investment income of \$0.1375 per common share payable October 31, 2011, to common shareowners of record on October 14, 2011.

Dividends declared and paid on preferred shares totaled \$15,974 in aggregate for the September 30 outstanding preferred share series through November 9, 2011.

In preparing these financial statements, PIM has evaluated the impact of all events and transactions for potential recognition or disclosure and has determined that other than disclosed above, there were no subsequent events requiring recognition or disclosure in the financial statements.

ADDITIONAL INFORMATION (unaudited)

During the period, there have been no material changes in the Trust's investment objective or fundamental policies that have not been approved by the shareowners. There have been no changes in the Trust's charter or By-Laws that would delay or prevent a change in control of the Trust which has not been approved by the shareowners. During the period, there have been no changes in

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

the principal risk factors associated with investment in the Trust. There were no changes in the persons who are primarily responsible for the day-to-day management of the Trust's portfolio.

Notice is hereby given in accordance with Section 23(c) of the Investment Company Act of 1940 that the Trust may purchase, from time to time, its common shares in the open market.

Results of Shareholder Meeting (unaudited)

At the annual meeting of shareowners held on September 21, 2011, shareowners of Pioneer High Income Trust were asked to consider the proposals described below. A report of the total votes cast by the Trust's shareholders follows:

Proposal 1 -- To elect Class III Trustees.

Nominee	For	Withheld
Benjamin J. Friedman	24,687,619.917	582,004.844
Margaret B.W. Graham	24,680,464.917	589,159.844
Daniel K. Kingsbury	24,736,344.917	533,279.844

Pioneer High Income Trust | Semiannual Report | 9/30/11 53

Trustees, Officers and Service Providers

Trustees

John F. Cogan, Jr., Chairman
David R. Bock
Mary K. Bush
Benjamin M. Friedman
Margaret B.W. Graham
Daniel K. Kingsbury
Thomas J. Perna
Marguerite A. Piret
Stephen K. West

Officers

John F. Cogan, Jr., President
Daniel K. Kingsbury, Executive
Vice President
Mark E. Bradley, Treasurer
Christopher J. Kelley, Secretary

Investment Adviser and Administrator
Pioneer Investment Management, Inc.

Custodian
Brown Brothers Harriman & Co.

Legal Counsel
Bingham McCutchen LLP

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Transfer Agent
Pioneer Investment Management Shareholder Services, Inc.

Shareowner Services and Sub-Transfer Agent
American Stock Transfer & Trust Company

Preferred Share Auction/Transfer Agent and Registrar
Deutsche Bank Trust Company Americas

Sub-Administrator
State Street Bank and Trust Company

Proxy Voting Policies and Procedures of the Fund are available without charge, upon request, by calling our toll free number (1-800-225-6292). Information regarding how the Fund voted proxies relating to portfolio securities during the most recent 12-month period ended June 30 is publicly available to shareowners at us.pioneerinvestments.com. This information is also available on the Securities and Exchange Commission's web site at www.sec.gov.

54 Pioneer High Income Trust | Semiannual Report | 9/30/11

This page for your notes.

Pioneer High Income Trust | Semiannual Report | 9/30/11 55

This page for your notes.

56 Pioneer High Income Trust | Semiannual Report | 9/30/11

This page for your notes.

Pioneer High Income Trust | Semiannual Report | 9/30/11 57

This page for your notes.

58 Pioneer High Income Trust | Semiannual Report | 9/30/11

This page for your notes.

Pioneer High Income Trust | Semiannual Report | 9/30/11 59

This page for your notes.

60 Pioneer High Income Trust | Semiannual Report | 9/30/11

How to Contact Pioneer

We are pleased to offer a variety of convenient ways for you to contact us for

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

assistance or information.

You can call American Stock Transfer & Trust Company (AST) for:

Account Information

1-800-710-0935

Or write to AST:

For

Write to

General inquiries, lost dividend checks,
change of address, lost stock certificates,
stock transfer

American Stock
Transfer & Trust
Operations Center
6201 15th Ave.
Brooklyn, NY 11219

Dividend reinvestment plan (DRIP)

American Stock
Transfer & Trust
Wall Street Station
P.O. Box 922
New York, NY 10269-0560

Website

www.amstock.com

For additional information, please contact your investment advisor or visit our web site us.pioneerinvestments.com.

The Trust files a complete statement of investments with the Securities and Exchange Commission for the first and third quarters for each fiscal year on Form N-Q. Shareowners may view the filed Form N-Q by visiting the Commission's web site at <http://www.sec.gov>. The filed form may also be viewed and copied at the Commission's Public Reference Room in Washington, DC. Information regarding the operations of the Public Reference Room may be obtained by calling 1-800-SEC-0330.

ITEM 2. CODE OF ETHICS.

(a) Disclose whether, as of the end of the period covered by the report, the registrant has adopted a code of ethics that applies to the registrant's principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, regardless of whether these individuals are employed by the registrant or a third party. If the registrant has not adopted such a code of ethics, explain why it has not done so.

The registrant has adopted, as of the end of the period covered by this report, a code of ethics that applies to the registrant's principal executive officer, principal financial officer, principal accounting officer and controller.

(b) For purposes of this Item, the term "code of ethics" means written standards that are reasonably designed to deter wrongdoing and to promote:

- (1) Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships;

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

(2) Full, fair, accurate, timely, and understandable disclosure in reports and documents that a registrant files with, or submits to, the Commission and in other public communications made by the registrant;

(3) Compliance with applicable governmental laws, rules, and regulations;

(4) The prompt internal reporting of violations of the code to an appropriate person or persons identified in the code; and

(5) Accountability for adherence to the code.

(c) The registrant must briefly describe the nature of any amendment, during the period covered by the report, to a provision of its code of ethics that applies to the registrant's principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, regardless of whether these individuals are employed by the registrant or a third party, and that relates to any element of the code of ethics definition enumerated in paragraph (b) of this Item. The registrant must file a copy of any such amendment as an exhibit pursuant to Item 10(a), unless the registrant has elected to satisfy paragraph (f) of this Item by posting its code of ethics on its website pursuant to paragraph (f)(2) of this Item, or by undertaking to provide its code of ethics to any person without charge, upon request, pursuant to paragraph (f)(3) of this Item.

The registrant has made no amendments to the code of ethics during the period covered by this report.

(d) If the registrant has, during the period covered by the report, granted a waiver, including an implicit waiver, from a provision of the code of ethics to the registrant's principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, regardless of whether these individuals are employed by the registrant or a third party, that relates to one or more of the items set forth in paragraph (b) of this Item, the registrant must briefly describe the nature of the waiver, the name of the person to whom the waiver was granted, and the date of the waiver.

Not applicable.

(e) If the registrant intends to satisfy the disclosure requirement under paragraph (c) or (d) of this Item regarding an amendment to, or a waiver from, a provision of its code of ethics that applies to the registrant's principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions and that relates to any element of the code of ethics definition enumerated in paragraph (b) of this Item by posting such information on its Internet website, disclose the registrant's Internet address and such intention.

Not applicable.

(f) The registrant must:

(1) File with the Commission, pursuant to Item 10(a), a copy of its code of ethics that applies to the registrant's principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, as an exhibit to its annual report on this Form N-CSR (see attachment);

(2) Post the text of such code of ethics on its Internet website and disclose, in its most recent report on this Form N-CSR, its Internet

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

address and the fact that it has posted such code of ethics on its Internet website; or

(3) Undertake in its most recent report on this Form N-CSR to provide to any person without charge, upon request, a copy of such code of ethics and explain the manner in which such request may be made.
See Item 10(2)

ITEM 3. AUDIT COMMITTEE FINANCIAL EXPERT.

- (a) (1) Disclose that the registrant's board of trustees has determined that the registrant either:
- (i) Has at least one audit committee financial expert serving on its audit committee; or
 - (ii) Does not have an audit committee financial expert serving on its audit committee.

The registrant's Board of Trustees has determined that the registrant has at least one audit committee financial expert.

(2) If the registrant provides the disclosure required by paragraph (a)(1)(i) of this Item, it must disclose the name of the audit committee financial expert and whether that person is "independent." In order to be considered "independent" for purposes of this Item, a member of an audit committee may not, other than in his or her capacity as a member of the audit committee, the board of trustees, or any other board committee:

- (i) Accept directly or indirectly any consulting, advisory, or other compensatory fee from the issuer; or
- (ii) Be an "interested person" of the investment company as defined in Section 2(a)(19) of the Act (15 U.S.C. 80a-2(a)(19)).

Ms. Marguerite A. Piret, an independent trustee, is such an audit committee financial expert.

(3) If the registrant provides the disclosure required by paragraph (a)(1)(ii) of this Item, it must explain why it does not have an audit committee financial expert.

Not applicable.

ITEM 4. PRINCIPAL ACCOUNTANT FEES AND SERVICES.

(a) Disclose, under the caption AUDIT FEES, the aggregate fees billed for each of the last two fiscal years for professional services rendered by the principal accountant for the audit of the registrant's annual financial statements or services that are normally provided by the accountant in connection with statutory and regulatory filings or engagements for those fiscal years.

N/A

(b) Disclose, under the caption AUDIT-RELATED FEES, the aggregate fees billed in each of the last two fiscal years for assurance and related services by the principal accountant that are reasonably related to the performance of the audit of the registrant's financial statements and are not reported under paragraph (a) of this Item. Registrants shall describe the nature of the services comprising the fees disclosed under this category.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

N/A

(c) Disclose, under the caption TAX FEES, the aggregate fees billed in each of the last two fiscal years for professional services rendered by the principal accountant for tax compliance, tax advice, and tax planning. Registrants shall describe the nature of the services comprising the fees disclosed under this category.

N/A

(d) Disclose, under the caption ALL OTHER FEES, the aggregate fees billed in each of the last two fiscal years for products and services provided by the principal accountant, other than the services reported in paragraphs (a) through (c) of this Item. Registrants shall describe the nature of the services comprising the fees disclosed under this category.

N/A

(e) (1) Disclose the audit committee's pre-approval policies and procedures described in paragraph (c) (7) of Rule 2-01 of Regulation S-X.

PIONEER FUNDS

APPROVAL OF AUDIT, AUDIT-RELATED, TAX AND OTHER SERVICES PROVIDED BY THE INDEPENDENT AUDITOR

SECTION I - POLICY PURPOSE AND APPLICABILITY

The Pioneer Funds recognize the importance of maintaining the independence of their outside auditors. Maintaining independence is a shared responsibility involving Pioneer Investment Management, Inc ("PIM"), the audit committee and the independent auditors.

The Funds recognize that a Fund's independent auditors: 1) possess knowledge of the Funds, 2) are able to incorporate certain services into the scope of the audit, thereby avoiding redundant work, cost and disruption of Fund personnel and processes, and 3) have expertise that has value to the Funds. As a result, there are situations where it is desirable to use the Fund's independent auditors for services in addition to the annual audit and where the potential for conflicts of interests are minimal. Consequently, this policy, which is intended to comply with Rule 210.2-01(C) (7), sets forth guidelines and procedures to be followed by the Funds when retaining the independent audit firm to perform audit, audit-related tax and other services under those circumstances, while also maintaining independence.

Approval of a service in accordance with this policy for a Fund shall also constitute approval for any other Fund whose pre-approval is required pursuant to Rule 210.2-01(c) (7) (ii).

In addition to the procedures set forth in this policy, any non-audit services that may be provided consistently with Rule 210.2-01 may be approved by the Audit Committee itself and any pre-approval that may be waived in accordance with Rule 210.2-01(c) (7) (i) (C) is hereby waived.

Selection of a Fund's independent auditors and their compensation shall be determined by the Audit Committee and shall not be subject to this policy.

SECTION II - POLICY

SERVICE	SERVICE CATEGORY DESCRIPTION	SPECIFIC PRE-APPROVED SERVICE SUBCATEGORIES
---------	------------------------------	---

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

CATEGORY

I. AUDIT SERVICES	Services that are directly related to performing the independent audit of the Funds	<ul style="list-style-type: none"> o Accounting research assistance o SEC consultation, registration statements, and reporting o Tax accrual related matters o Implementation of new accounting standards o Compliance letters (e.g. rating agency letters) o Regulatory reviews and assistance regarding financial matters o Semi-annual reviews (if requested) o Comfort letters for closed end offerings
II. AUDIT-RELATED SERVICES	Services which are not prohibited under Rule 210.2-01(C)(4) (the "Rule") and are related extensions of the audit services support the audit, or use the knowledge/expertise gained from the audit procedures as a foundation to complete the project. In most cases, if the Audit-Related Services are not performed by the Audit firm, the scope of the Audit Services would likely increase. The Services are typically well-defined and governed by accounting professional standards (AICPA, SEC, etc.)	<ul style="list-style-type: none"> o AICPA attest and agreed-upon procedures o Technology control assessments o Financial reporting control assessments o Enterprise security architecture assessment

AUDIT COMMITTEE APPROVAL POLICY

AUDIT COMMITTEE REPORTING POLICY

- | | |
|---|---|
| <ul style="list-style-type: none"> o "One-time" pre-approval for the audit period for all pre-approved specific service subcategories. Approval of the independent auditors as auditors for a Fund shall constitute pre approval for these services. | <ul style="list-style-type: none"> o A summary of all such services and related fees reported at each regularly scheduled Audit Committee meeting. |
| <ul style="list-style-type: none"> o "One-time" pre-approval for the fund fiscal year within a specified dollar limit for all pre-approved specific service subcategories | <ul style="list-style-type: none"> o A summary of all such services and related fees (including comparison to specified dollar limits) reported quarterly. |
| <ul style="list-style-type: none"> o Specific approval is needed to exceed the pre-approved dollar limit for | |

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

these services (see general Audit Committee approval policy below for details on obtaining specific approvals)

- o Specific approval is needed to use the Fund's auditors for Audit-Related Services not denoted as "pre-approved", or to add a specific service subcategory as "pre-approved"

SECTION III - POLICY DETAIL, CONTINUED

SERVICE CATEGORY	SERVICE CATEGORY DESCRIPTION	SPECIFIC PRE-APPROVED SERVICE SUBCATEGORIES
III. TAX SERVICES	Services which are not prohibited by the Rule, if an officer of the Fund determines that using the Fund's auditor to provide these services creates significant synergy in the form of efficiency, minimized disruption, or the ability to maintain a desired level of confidentiality.	<ul style="list-style-type: none"> o Tax planning and support o Tax controversy assistance o Tax compliance, tax returns, excise tax returns and support o Tax opinions

AUDIT COMMITTEE APPROVAL POLICY	AUDIT COMMITTEE REPORTING POLICY
<ul style="list-style-type: none"> o "One-time" pre-approval for the fund fiscal year within a specified dollar limit 	<ul style="list-style-type: none"> o A summary of all such services and related fees (including comparison to specified dollar limits) reported quarterly.
<ul style="list-style-type: none"> o Specific approval is needed to exceed the pre-approved dollar limits for these services (see general Audit Committee approval policy below for details on obtaining specific approvals) 	
<ul style="list-style-type: none"> o Specific approval is needed to use the Fund's auditors for tax services not 	

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

denoted as pre-approved, or to add a specific service subcategory as "pre-approved"

SECTION III - POLICY DETAIL, CONTINUED

SERVICE CATEGORY	SERVICE CATEGORY DESCRIPTION	SPECIFIC PRE-APPROVED SERVICE SUBCATEGORIES
IV. OTHER SERVICES A. SYNERGISTIC, UNIQUE QUALIFICATIONS	Services which are not prohibited by the Rule, if an officer of the Fund determines that using the Fund's auditor to provide these services creates significant synergy in the form of efficiency, minimized disruption, the ability to maintain a desired level of confidentiality, or where the Fund's auditors possess unique or superior qualifications to provide these services, resulting in superior value and results for the Fund.	<ul style="list-style-type: none"> o Business Risk Management support o Other control and regulatory compliance projects

AUDIT COMMITTEE APPROVAL POLICY	AUDIT COMMITTEE REPORTING POLICY
<ul style="list-style-type: none"> o "One-time" pre-approval for the fund fiscal year within a specified dollar limit o Specific approval is needed to exceed the pre-approved dollar limits for these services (see general Audit Committee approval policy below for details on obtaining specific approvals) o Specific approval is needed to use the Fund's auditors for "Synergistic" or "Unique Qualifications" Other Services not denoted as pre-approved to the left, or to add a specific service 	<ul style="list-style-type: none"> o A summary of all such services and related fees (including comparison to specified dollar limits) reported quarterly.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

subcategory as "pre-approved"

SECTION III - POLICY DETAIL, CONTINUED

SERVICE CATEGORY	SERVICE CATEGORY DESCRIPTION	SPECIFIC PROHIBITED SERVICE SUBCATEGORIES
PROHIBITED SERVICES	Services which result in the auditors losing independence status under the Rule.	<ol style="list-style-type: none"> 1. Bookkeeping or other services related to the accounting records or financial statements of the audit client* 2. Financial information systems design and implementation* 3. Appraisal or valuation services, fairness* opinions, or contribution-in-kind reports 4. Actuarial services (i.e., setting actuarial reserves versus actuarial audit work)* 5. Internal audit outsourcing services* 6. Management functions or human resources 7. Broker or dealer, investment advisor, or investment banking services 8. Legal services and expert services unrelated to the audit 9. Any other service that the Public Company Accounting Oversight Board determines, by regulation, is impermissible

AUDIT COMMITTEE APPROVAL POLICY	AUDIT COMMITTEE REPORTING POLICY
<ul style="list-style-type: none"> o These services are not to be performed with the exception of the(*) services that may be permitted if they would not be subject to audit procedures at the audit client (as defined in rule 2-01(f)(4)) level the firm providing the service. 	<ul style="list-style-type: none"> o A summary of all services and related fees reported at each regularly scheduled Audit Committee meeting will serve as continual confirmation that has not provided any restricted services.

GENERAL AUDIT COMMITTEE APPROVAL POLICY:

- o For all projects, the officers of the Funds and the Fund's auditors will each make an assessment to determine that any proposed projects will not impair independence.
- o Potential services will be classified into the four non-restricted service categories and the "Approval of Audit, Audit-Related, Tax and Other Services" Policy above will be applied. Any services outside the specific

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

pre-approved service subcategories set forth above must be specifically approved by the Audit Committee.

- o At least quarterly, the Audit Committee shall review a report summarizing the services by service category, including fees, provided by the Audit firm as set forth in the above policy.

(2) Disclose the percentage of services described in each of paragraphs (b) through (d) of this Item that were approved by the audit committee pursuant to paragraph (c) (7) (i) (C) of Rule 2-01 of Regulation S-X.

N/A

(f) If greater than 50 percent, disclose the percentage of hours expended on the principal accountant's engagement to audit the registrant's financial statements for the most recent fiscal year that were attributed to work performed by persons other than the principal accountant's full-time, permanent employees.

N/A

(g) Disclose the aggregate non-audit fees billed by the registrant's accountant for services rendered to the registrant, and rendered to the registrant's investment adviser (not including any sub-adviser whose role is primarily portfolio management and is subcontracted with or overseen by another investment adviser), and any entity controlling, controlled by, or under common control with the adviser that provides ongoing services to the registrant for each of the last two fiscal years of the registrant.

N/A

(h) Disclose whether the registrant's audit committee of the board of trustees has considered whether the provision of non-audit services that were rendered to the registrant's investment adviser (not including any subadviser whose role is primarily portfolio management and is subcontracted with or overseen by another investment adviser), and any entity controlling, controlled by, or under common control with the investment adviser that provides ongoing services to the registrant that were not pre-approved pursuant to paragraph (c) (7) (ii) of Rule 2-01 of Regulation S-X is compatible with maintaining the principal accountant's independence.

The Fund's audit committee of the Board of Trustees has considered whether the provision of non-audit services that were rendered to the Affiliates (as defined) that were not pre-approved pursuant to paragraph (c) (7) (ii) of Rule 2-01 of Regulation S-X is compatible with maintaining the principal accountant's independence.

Item 5. Audit Committee of Listed Registrants

(a) If the registrant is a listed issuer as defined in Rule 10A-3 under the Exchange Act (17 CFR 240.10A-3), state whether or not the registrant has a separately-designated standing audit committee established in accordance with Section 3(a) (58) (A) of the Exchange Act (15 U.S.C. 78c(a) (58) (A)). If the registrant has such a committee, however designated, identify each committee member. If the entire board of directors is acting as the registrant's audit committee as specified in Section 3(a) (58) (B) of the Exchange Act (15 U.S.C. 78c(a) (58) (B)), so state.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

The registrant has a separately-designated standing audit committee established in accordance with Section 3(a)(58)(A) of the Exchange Act (15 U.S.C. 78c(a)(58)(A)).

(b) If applicable, provide the disclosure required by Rule 10A-3(d) under the Exchange Act (17 CFR 240.10A-3(d)) regarding an exemption from the listing standards for audit committees.

N/A

Item 6. Schedule of Investments.

File Schedule I Investments in securities of unaffiliated issuers as of the close of the reporting period as set forth in 210.12-12 of Regulation S-X [17 CFR 210.12-12], unless the schedule is included as part of the report to shareholders filed under Item 1 of this Form.

Included in Item 1

ITEM 7. DISCLOSURE OF PROXY VOTING POLICIES AND PROCEDURES FOR CLOSED-END MANAGEMENT INVESTMENT COMPANIES.

A closed-end management investment company that is filing an annual report on this Form N-CSR must, unless it invests exclusively in non-voting securities, describe the policies and procedures that it uses to determine how to vote proxies relating to portfolio securities, including the procedures that the company uses when a vote presents a conflict between the interests of its shareholders, on the one hand, and those of the company's investment adviser; principal underwriter; or any affiliated person (as defined in Section 2(a)(3) of the Investment Company Act of 1940 (15 U.S.C. 80a-2(a)(3)) and the rules thereunder) of the company, its investment adviser, or its principal underwriter, on the other. Include any policies and procedures of the company's investment adviser, or any other third party, that the company uses, or that are used on the company's behalf, to determine how to vote proxies relating to portfolio securities.

Information not required in semi annual reports on form NCSR.

Item 8. Portfolio Managers of Closed-End Management Investment Companies.

(a) If the registrant is a closed-end management investment company that is filing an annual report on this Form N-CSR, provide the following information:

(1) State the name, title, and length of service of the person or persons employed by or associated with the registrant or an investment adviser of the registrant who are primarily responsible for the day-to-day management of the registrant's portfolio (Portfolio Manager). Also state each Portfolio Manager's business experience during the past 5 years.

Information not required in semi annual reports on form NCSR.

Item 9. Purchases of Equity Securities by Closed-End Management Investment Company and Affiliated Purchasers.

(a) If the registrant is a closed-end management investment company, in the following tabular format, provide the information specified in paragraph (b) of this Item with respect to any purchase made by or on behalf of the registrant or any affiliated purchaser, as defined in

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Rule 10b-18(a)(3) under the Exchange Act (17 CFR 240.10b-18(a)(3)), of shares or other units of any class of the registrants equity securities that is registered by the registrant pursuant to Section 12 of the Exchange Act (15 U.S.C. 781). Instruction to paragraph (a). Disclose all purchases covered by this Item, including purchases that do not satisfy the conditions of the safe harbor of Rule 10b-18 under the Exchange Act (17 CFR 240.10b-18), made in the period covered by the report. Provide disclosures covering repurchases made on a monthly basis. For example, if the reporting period began on January 16 and ended on July 15, the chart would show repurchases for the months from January 16 through February 15, February 16 through March 15, March 16 through April 15, April 16 through May 15, May 16 through June 15, and June 16 through July 15.

During the period covered by this report, there were no purchases made by or on behalf of the registrant or any affiliated purchaser as defined in Rule 10b-18(a)(3) under the Securities Exchange Act of 1934 (the Exchange Act), of shares of the registrants equity securities that are registered by the registrant pursuant to Section 12 of the Exchange Act.

Item 10. Submission of Matters to a Vote of Security Holders.

Describe any material changes to the procedures by which shareholders may recommend nominees to the registrants board of directors, where those changes were implemented after the registrant last provided disclosure in response to the requirements of Item 7(d)(2)(ii)(G) of Schedule 14A (17 CFR 240.14a-101), or this Item.

There have been no material changes to the procedures by which the shareholders may recommend nominees to the registrants board of directors since the registrant last provided disclosure in response to the requirements of Item 7(d)(2)(ii)(G) of Schedule 14(A) in its definitive proxy statement, or this Item.

ITEM 11. CONTROLS AND PROCEDURES.

(a) Disclose the conclusions of the registrant's principal executive officer or officers and principal financial officer or officers, or persons performing similar functions, about the effectiveness of the registrant's disclosure controls and procedures (as defined in Rule 30a-2(c) under the Act (17 CFR 270.30a-2(c))) based on their evaluation of these controls and procedures as of a date within 90 days of the filing date of the report that includes the disclosure required by this paragraph.

The registrant's principal executive officer and principal financial officer have concluded that the registrant's disclosure controls and procedures are effective based on their evaluation of these controls and procedures as of a date within 90 days of the filing date of this report.

(b) Disclose whether or not there were significant changes in the registrant's internal controls or in other factors that could significantly affect these controls subsequent to the date of their evaluation, including any corrective actions with regard to significant deficiencies and material weaknesses.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

There were no significant changes in the registrant's internal control over financial reporting that occurred during the second fiscal quarter of the period covered by this report that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

The registrant's principal executive officer and principal financial officer, however, voluntarily are reporting the following information:

In August of 2006 the registrant's investment adviser enhanced its internal procedures for reporting performance information required to be included in prospectuses. Those enhancements involved additional internal controls over the appropriateness of performance data generated for this purpose. Such enhancements were made following an internal review which identified prospectuses relating to certain classes of shares of a limited number of registrants where, inadvertently, performance information not reflecting the deduction of applicable sales charges was included. Those prospectuses were revised, and the revised prospectuses were distributed to shareholders.

ITEM 12. EXHIBITS.

File the exhibits listed below as part of this Form. Letter or number the exhibits in the sequence indicated.

(a) Any code of ethics, or amendment thereto, that is the subject of the disclosure required by Item 2, to the extent that the registrant intends to satisfy the Item 2 requirements through filing of an exhibit.

(b) A separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2 under the Act (17 CFR 270.30a-2).

Filed herewith.

SIGNATURES

[See General Instruction F]

Pursuant to the requirements of the Securities Exchange Act of 1934 and 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 High Income Trust

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

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

John F. Cogan, Jr, President

Date November 29, 2011

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

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

Date November 29, 2011

By (Signature and Title)* /s/ Mark Bradley
Mark Bradley, Treasurer & Chief Accounting & Financial Officer

Date November 29, 2011

* Print the name and title of each signing officer under his or her signature.