PIONEER HIGH INCOME TRUST
Form NSAR-A
November 27, 2009

```
      PAGE  1
000 A000000 09/30/2009
000 C000000 1166258
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 A
001 A000000 PIONEER HIGH INCOME TRUST
001 B000000 811-21043
001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
002 C000000 MA
002 D010000 02109
003  000000 N
004  000000 N
005  000000 N
006  000000 N
007 A000000 N
007 B000000  0
007 C010100  1
007 C010200  2
007 C010300  3
007 C010400  4
007 C010500  5
007 C010600  6
007 C010700  7
007 C010800  8
007 C010900  9
007 C011000 10
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
008 C000001 801-8255
008 D010001 BOSTON
008 D020001 MA
008 D030001 02109
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
010 B000001 801-8255
010 C010001 BOSTON
010 C020001 MA
010 C030001 02109
010 A000002 PRINCETON ADMINISTRATORS, LLC
010 C010002 PRINCETON
010 C020002 NJ
010 C030002 08543
010 C040002 9095
011 A000001 MERRILL LYNCH & CO.
011 B000001 8-7221
011 C010001 NEW YORK
      PAGE  2
011 C020001 NY
011 C030001 10281
011 C040001 1201
011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
```

```
011 C020002 CT
011 C030002 06901
011 A000003 RBC CAPITAL MARKETS CORP.
011 B000003 8-045411
011 C010003 MINNEAPOLIS
011 C020003 MN
011 C030003 55402
011 C040003 4422
011 A000004 ADVEST, INC.
011 B000004 8-21409
011 C010004 HARTFORD
011 C020004 CT
011 C030004 06103
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
011 C040005 1675
011 A000006 MCDONALD INVESTMENTS, INC.
011 B000006 8-30177
011 C010006 CLEVELAND
011 C020006 OH
011 C030006 44114
011 C040006 2603
011 A000007 STIFEL, NICOLAUS & CO., INC.
011 B000007 8-001447
011 C010007 ST. LOUIS
011 C020007 MO
011 C030007 63102
012 A000001 PIONEER INVEST. MGMT. SHAREHOLDER SVCS., INC.
012 B000001 85-1359
012 C010001 BOSTON
012 C020001 MA
012 C030001 02109
012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
012 B000002 85-00000
012 C010002 BROOKLYN
012 C020002 NY
012 C030002 11219
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
012 B000003 85-00000
012 C010003 NEW YORK
012 C020003 NY
012 C030003 10005
      PAGE  3
013 A000001 ERNST & YOUNG, LLP
013 B010001 BOSTON
013 B020001 MA
013 B030001 02116
013 B040001 5072
015 A000001 BROWN BROTHERS HARRIMAN & CO.
015 B000001 C
015 C010001 BOSTON
015 C020001 MA
015 C030001 02109
015 E010001 X
015 A000002 BANK AUSTRIA
015 B000002 S
015 C010002 VIENNA
015 D010002 AUSTRIA
015 E040002 X
```

015 A000003 BANQUE BRUXELLES LAMBERT
015 B000003 S
015 C010003 BRUSSELS
015 D010003 BELGIUM
015 E040003 X
015 A000004 BANK OF BOSTON
015 B000004 S
015 C010004 SAO PAULO
015 D010004 BRAZIL
015 E040004 X
015 A000005 NATIONAL AUSTRALIA BANK
015 B000005 S
015 C010005 MELBOURNE
015 D010005 AUSTRALIA
015 E040005 X
015 A000006 ROYAL BANK OF CANADA
015 B000006 S
015 C010006 TORONTO
015 D010006 CANADA
015 E040006 X
015 A000007 DEN DANSKE BANK
015 B000007 S
015 C010007 COPENHAGEN
015 D010007 DENMARK
015 E040007 X
015 A000008 MERITA BANK
015 B000008 S
015 C010008 HELSINKI
015 D010008 FINLAND
015 E040008 X
015 A000009 BANQUE PARIBAS
015 B000009 S
015 C010009 PARIS
015 D010009 FRANCE
015 E040009 X
PAGE 4
015 A000010 DRESDNER BANK
015 B000010 S
015 C010010 FRANKFURT
015 D010010 GERMANY
015 E040010 X
015 A000011 CITIBANK, N.A.
015 B000011 S
015 C010011 ATHENS
015 D010011 GREECE
015 E040011 X
015 A000012 STANDARD CHARTERED BANK
015 B000012 S
015 C010012 HONG KONG
015 D010012 HONG KONG
015 E040012 X
015 A000013 CITIBANK, N.A.
015 B000013 S
015 C010013 MUMBAI
015 D010013 INDIA
015 E040013 X
015 A000014 BANCA COMMERCIALE ITALIANA
015 B000014 S
015 C010014 MILAN
015 D010014 ITALY
015 E040014 X
015 A000015 THE SUMITOMO BANK, LIMITED

015 B000015 S
015 C010015 TOKYO
015 D010015 JAPAN
015 E040015 X
015 A000016 CITIBANK, N.A.
015 B000016 S
015 C010016 SEOUL
015 D010016 SOUTH KOREA
015 E040016 X
015 A000017 HONG KONG BANK MALAYSIA
015 B000017 S
015 C010017 KUALA LUMPUR
015 D010017 MALAYSIA
015 E040017 X
015 A000018 CITIBANK, N.A.
015 B000018 S
015 C010018 MEXICO CITY
015 D010018 MEXICO
015 E040018 X
015 A000019 MEESPIERSON
015 B000019 S
015 C010019 AMSTERDAM
015 D010019 NETHERLANDS
015 E040019 X
015 A000020 NATIONAL NOMINEES LIMITED
PAGE 5
015 B000020 S
015 C010020 AUCKLAND
015 D010020 NEW ZEALAND
015 E040020 X
015 A000021 DEN NORSE BANK
015 B000021 S
015 C010021 OSLO
015 D010021 NORWAY
015 E040021 X
015 A000022 CITIBANK, N.A.
015 B000022 S
015 C010022 WARSAW
015 D010022 POLAND
015 E040022 X
015 A000023 BANCO COMMERCIAL PORTUGUESE SA
015 B000023 S
015 C010023 LISBON
015 D010023 PORTUGAL
015 E040023 X
015 A000024 STANDARD CHARTERED BANK
015 B000024 S
015 C010024 SINGAPORE
015 D010024 SINGAPORE
015 E040024 X
015 A000025 BANCO DE SANTANDER
015 B000025 S
015 C010025 MADRID
015 D010025 SPAIN
015 E040025 X
015 A000026 SKANDINAVISKA ENSKILDA BANKEN
015 B000026 S
015 C010026 STOCKHOLM
015 D010026 SWEDEN
015 E040026 X
015 A000027 UNION BANK OF SWITZERLAND AG
015 B000027 S

```
015 C010027 ZURICH
015 D010027 SWITZERLAND
015 E040027 X
015 A000028 CENTRAL TRUST OF CHINA
015 B000028 S
015 C010028 TAIPEI
015 D010028 TAIWAN
015 E040028 X
015 A000029 HONG KONG AND SHANGHAI BANKING CORPORATION
015 B000029 S
015 C010029 BANGKOK
015 D010029 THAILAND
015 E040029 X
015 A000030 MIDLAND BANK
015 B000030 S
      PAGE  6
015 C010030 LONDON
015 D010030 UNITED KINGDOM
015 E040030 X
015 A000031 FIRST NATIONAL BANK OF SOUTH AFRICA
015 B000031 S
015 C010031 JOHANNESBURG
015 D010031 SOUTH AFRICA
015 E040031 X
018  000000 Y
019 A000000 Y
019 B000000   62
019 C000000 PIONEERFDS
020 C000001      0
020 C000002      0
020 C000003      0
020 C000004      0
020 C000005      0
020 C000006      0
020 C000007      0
020 C000008      0
020 C000009      0
020 C000010      0
021  000000        0
022 A000001 DEUTSCHE BANK SECURITIES, INC.
022 B000001 13-2730828
022 C000001    130610
022 D000001      2786
022 A000002 BNP PARIBAS SECURITIES CORP.
022 B000002 13-3235334
022 C000002     90615
022 D000002         0
022 A000003 J.P. MORGAN SECURITIES, INC.
022 B000003 13-3299429
022 C000003     81869
022 D000003      1430
022 A000004 BANC OF AMERICA SECURITIES, LLC
022 B000004 56-2058405
022 C000004     52415
022 D000004      4214
022 A000005 BARCLAYS INVESTMENTS, INC.
022 B000005 05-0346412
022 C000005     50808
022 D000005      1193
022 A000006 CREDIT SUISSE SECURITIES (USA), LLC
022 B000006 13-5659485
022 C000006     11394
```

```
022 D000006      1531
022 A000007 GOLDMAN, SACHS & CO.
022 B000007 13-5108880
022 C000007      5369
022 D000007      1614
      PAGE  7
022 A000008 MORGAN STANLEY & CO., INC.
022 B000008 13-2655998
022 C000008      3116
022 D000008      3234
022 A000009 CITIGROUP GLOBAL MARKETS, INC.
022 B000009 11-2418191
022 C000009      4579
022 D000009       152
022 A000010 PHELPS & WOODHEAD, INC.
022 C000010      3050
022 D000010         0
023 C000000     439025
023 D000000      20652
024  000000 Y
025 A000001 BANK OF AMERICA CORP.
025 C000001 E
025 D000001    2342
025 A000002 GOLDMAN SACHS CAPITAL II
025 C000002 D
025 D000002     954
025 D000003       0
025 D000004       0
025 D000005       0
025 D000006       0
025 D000007       0
025 D000008       0
026 A000000 N
026 B000000 Y
026 C000000 N
026 D000000 Y
026 E000000 N
026 F000000 N
026 G010000 N
026 G020000 N
026 H000000 N
027  000000 N
045  000000 Y
046  000000 N
047  000000 Y
048  000000  0.600
048 A010000        0
048 A020000 0.000
048 B010000        0
048 B020000 0.000
048 C010000        0
048 C020000 0.000
048 D010000        0
048 D020000 0.000
048 E010000        0
048 E020000 0.000
048 F010000        0
      PAGE  8
048 F020000 0.000
048 G010000        0
048 G020000 0.000
048 H010000        0
```

```
048 H020000 0.000
048 I010000        0
048 I020000 0.000
048 J010000        0
048 J020000 0.000
048 K010000        0
048 K020000 0.000
049  000000 N
050  000000 N
051  000000 N
052  000000 N
053 A000000 N
054 A000000 Y
054 B000000 Y
054 C000000 Y
054 D000000 N
054 E000000 N
054 F000000 N
054 G000000 N
054 H000000 Y
054 I000000 N
054 J000000 Y
054 K000000 N
054 L000000 N
054 M000000 Y
054 N000000 N
054 O000000 N
055 A000000 N
055 B000000 N
056  000000 Y
057  000000 N
058 A000000 N
059  000000 Y
060 A000000 Y
060 B000000 Y
061  000000        0
062 A000000 Y
062 B000000   0.0
062 C000000   0.0
062 D000000   0.0
062 E000000   0.0
062 F000000   0.0
062 G000000   0.0
062 H000000   0.0
062 I000000   0.0
062 J000000   0.0
062 K000000   0.0
      PAGE  9
062 L000000   8.4
062 M000000   0.0
062 N000000   0.0
062 O000000   6.9
062 P000000 122.7
062 Q000000   9.7
062 R000000   2.1
063 A000000   0
063 B000000  5.8
064 A000000 N
064 B000000 Y
065  000000 N
066 A000000 N
067  000000 N
```

```
068 A000000 N
068 B000000 N
069  000000 N
070 A010000 Y
070 A020000 Y
070 B010000 Y
070 B020000 N
070 C010000 Y
070 C020000 N
070 D010000 Y
070 D020000 N
070 E010000 Y
070 E020000 N
070 F010000 Y
070 F020000 N
070 G010000 Y
070 G020000 N
070 H010000 Y
070 H020000 N
070 I010000 N
070 I020000 N
070 J010000 Y
070 J020000 Y
070 K010000 Y
070 K020000 N
070 L010000 Y
070 L020000 Y
070 M010000 Y
070 M020000 Y
070 N010000 Y
070 N020000 Y
070 O010000 Y
070 O020000 N
070 P010000 N
070 P020000 N
070 Q010000 N
070 Q020000 N
      PAGE  10
070 R010000 N
070 R020000 N
071 A000000     64807
071 B000000     39609
071 C000000    395444
071 D000000   10
072 A000000  6
072 B000000    24275
072 C000000      121
072 D000000        0
072 E000000       94
072 F000000     1247
072 G000000       76
072 H000000        0
072 I000000       34
072 J000000       16
072 K000000        0
072 L000000       24
072 M000000        7
072 N000000       12
072 O000000        0
072 P000000        0
072 Q000000        0
072 R000000       30
```

```
072 S000000       48
072 T000000        0
072 U000000        0
072 V000000        0
072 W000000      238
072 X000000     1732
072 Y000000        0
072 Z000000    22758
072AA000000        0
072BB000000    32216
072CC010000   163289
072CC020000        0
072DD010000    22709
072DD020000        0
072EE000000        0
073 A010000   0.8250
073 A020000   0.0000
073 B000000   0.0000
073 C000000   0.0000
074 A000000        0
074 B000000        0
074 C000000    27382
074 D000000   454566
074 E000000     4401
074 F000000     2205
074 G000000        0
074 H000000        0
      PAGE  11
074 I000000     8080
074 J000000        0
074 K000000        0
074 L000000    12175
074 M000000       30
074 N000000   508839
074 O000000     1751
074 P000000      239
074 Q000000        0
074 R010000        0
074 R020000        0
074 R030000        0
074 R040000    29417
074 S000000   151014
074 T000000   326418
074 U010000    27603
074 U020000        0
074 V010000    11.83
074 V020000     0.00
074 W000000   0.0000
074 X000000    18932
074 Y000000        0
075 A000000        0
075 B000000   263638
076  000000    13.50
077 A000000 N
078  000000 N
080 A000000 ICI MUTUAL INSURANCE CO.
080 C000000    45000
081 A000000 Y
081 B000000  62
082 A000000 N
082 B000000        0
083 A000000 N
```

```
083 B000000        0
084 A000000 N
084 B000000        0
085 A000000 Y
085 B000000 N
086 A010000    139
086 A020000   1493
086 B010000      0
086 B020000      0
086 C010000      0
086 C020000      0
086 D010000      0
086 D020000      0
086 E010000      0
086 E020000      0
086 F010000      0
086 F020000      0
      PAGE  12
087 A010000 COMMON STOCK
087 A020000 72369H106
087 A030000 PHT
087 B010000 PREFERRED STOCK-SERIES M7
087 B020000 72369H205
087 C010000 PREFERRED STOCK-SERIES W28
087 C020000 72369H304
088 A000000 N
088 B000000 N
088 C000000 N
088 D000000 Y
SIGNATURE   MARY KELLERMANN
TITLE       ACCOUNTING MANAGER
```