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Pioneer Diversified High Income Trust  
Form NSAR-A  
December 30, 2011

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000 A000000 10/31/2011  
000 C000000 1388126  
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 DIVERSIFIED HIGH INCOME TRUST  
001 B000000 811-22014  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
002 B000000 BOSTON  
002 C000000 MA  
002 D010000 02109  
003 000000 N  
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005 000000 N  
006 000000 N  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
008 C000001 801-8255  
008 D010001 BOSTON  
008 D020001 MA  
008 D030001 02109  
008 A000002 MONTPELIER CAPITAL ADVISORS, LTD.  
008 B000002 S  
008 C000002 801-00000  
008 D010002 BERMUDA  
008 D050002 BERMUDA  
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
010 B000001 801-8255  
010 C010001 BOSTON  
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010 C030001 02109  
010 A000002 STATE STREET BANK & TRUST COMPANY, LLC  
010 C010002 BOSTON  
010 C020002 MA  
010 C030002 02101  
011 A000001 MERRILL LYNCH & CO.  
011 B000001 8-7221  
011 C010001 NEW YORK  
011 C020001 NY  
011 C030001 10281  
011 C040001 1201  
011 A000002 UBS INVESTMENT BANK  
011 B000002 8-022651  
PAGE 2  
011 C010002 STAMFORD  
011 C020002 CT  
011 C030002 06901  
011 A000003 RBC CAPITAL MARKETS CORP.  
011 B000003 8-045411  
011 C010003 MINNEAPOLIS

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011 C020003 MN  
011 C030003 55402  
011 C040003 4422  
011 A000004 ROBERT W. BAIRD & CO.  
011 B000004 8-00497  
011 C010004 MILWAUKEE  
011 C020004 WI  
011 C030004 53201  
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC  
011 B000005 8-462  
011 C010005 PHILADELPHIA  
011 C020005 PA  
011 C030005 19103  
011 C040005 1675  
011 A000006 FERRIS, BAKER WATTS, INC.  
011 B000006 8-00000  
011 C010006 WASHINGTON  
011 C020006 DC  
011 C030006 20006  
011 A000007 MORGAN KEEGAN & CO., INC.  
011 B000007 8-15001  
011 C010007 MEMPHIS  
011 C020007 TN  
011 C030007 38103  
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.  
012 B000001 85-1359  
012 C010001 BOSTON  
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012 C030001 02109  
012 A000002 AMERICAN STOCK TRANSFER & TRUST CO.  
012 B000002 85-00000  
012 C010002 BROOKLYN  
012 C020002 NY  
012 C030002 11219  
013 A000001 ERNST & YOUNG, LLP  
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013 B040001 5072  
015 A000001 BROWN BROTHERS HARRIMAN & CO.  
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015 C020001 MA  
015 C030001 02109  
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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  
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015 C010004 SAO PAULO  
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015 A000005 NATIONAL AUSTRALIA BANK  
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015 A000006 ROYAL BANK OF CANADA  
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015 A000007 DEN DANSKE BANK  
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015 A000012 STANDARD CHARTERED BANK  
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015 C010012 HONG KONG  
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015 A000014 BANCA COMMERCIALE ITALIANA  
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015 C010014 MILAN  
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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 HONK KONG BANK MALAYSIA

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015 B000017 S  
015 C010017 KUALA LUMPUR  
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015 E040017 X  
015 A000018 CITIBANK, N.A.  
015 B000018 S  
015 C010018 MEXICO CITY  
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015 E040018 X  
015 A000019 MEESPIERSON  
015 B000019 S  
015 C010019 AMSTERDAM  
015 D010019 NETHERLANDS  
015 E040019 X  
015 A000020 NATIONAL NOMINEES LIMITED  
015 B000020 S  
015 C010020 AUCKLAND  
015 D010020 NEW ZEALAND  
015 E040020 X  
015 A000021 DEN NORSE BANK  
015 B000021 S  
015 C010021 OSLO  
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015 A000022 CITIBANK, N.A.  
PAGE 5  
015 B000022 S  
015 C010022 WARSAW  
015 D010022 POLAND  
015 E040022 X  
015 A000023 BANCO COMERCIAL PORTUGUESE SA  
015 B000023 S  
015 C010023 LISBON  
015 D010023 PORTUGAL  
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015 A000024 STANDARD CHARTERED BANK  
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015 A000025 BANCO DE SANTANDER  
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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  
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015 C010027 ZURICH  
015 D010027 SWITZERLAND  
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015 A000028 CENTRAL TRUST OF CHINA  
015 B000028 S  
015 C010028 TAIPEI  
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015 A000029 HONG KONG AND SHANGHAI BANKING CORPORATION  
015 B000029 S

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015 C010029 BANGKOK  
015 D010029 THAILAND  
015 E040029 X  
015 A000030 MIDLAND BANK  
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015 C010030 LONDON  
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015 A000031 FIRST NATIONAL BANK OF SOUTH AFRICA  
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019 B000000 55  
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022 A000001 JPMORGAN CHASE & CO.  
022 B000001 13-3565208  
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022 B000002 39-1148883  
022 C000002 4937  
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022 A000003 MESIROW FINANCIAL IN  
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022 D000003 1967  
022 A000004 VINING SPARKS  
022 B000004 62-1445536  
022 C000004 1740  
022 D000004 1832  
022 A000005 FIRST MIAMI SECURITIES  
022 B000005 59-1842344  
022 C000005 0  
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022 A000006 PIPER JAFFRAY  
022 B000006 30-0168701  
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022 A000007 BANK OF AMERICA CORP  
022 B000007 56-0906609  
022 C000007 1589  
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022 A000008 CAIN BROTHERS & COMPANY, LLC  
022 B000008 13-3960078  
022 C000008 1500  
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022 A000009 BARCLAYS CAPITAL, INC.  
022 B000009 61-0316560  
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022 A000010 REGIONS FINANCIAL  
022 B000010 63-0589368  
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025 A000001 BARCLAYS CAPITAL, INC.  
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087 A010000	COMMON STOCK
087 A020000	723653101
087 A030000	HNW
088 A000000	N
088 B000000	N
088 C000000	N
088 D000000	N

SIGNATURE MARK E. BRADLEY  
TITLE TREASURER