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

PAGE 1  
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  
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008 B000001 A  
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008 D020001 MA  
008 D030001 02109  
008 A000002 MONTPELIER CAPITAL ADVISORS, LTD.  
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008 C000002 801-00000  
008 D010002 BERMUDA  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
010 B000001 801-8255  
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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  
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011 C030001 10281  
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011 A000002 UBS INVESTMENT BANK  
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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  
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011 C030007 38103  
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.  
012 B000001 85-1359  
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO.  
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013 A000001 ERNST & YOUNG, LLP  
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015 A000005 NATIONAL AUSTRALIA BANK  
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015 C010015 TOKYO  
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015 A000016 CITIBANK, N.A.  
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015 C010016 SEOUL  
015 D010016 SOUTH KOREA  
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015 A000017 HONK KONG BANK MALAYSIA

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015 B000017 S  
015 C010017 KUALA LUMPUR  
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015 A000018 CITIBANK, N.A.  
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015 A000019 MEESPIERSON  
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015 D010019 NETHERLANDS  
015 E040019 X  
015 A000020 NATIONAL NOMINEES LIMITED  
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015 A000021 DEN NORSE BANK  
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015 D010023 PORTUGAL  
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015 A000025 BANCO DE SANTANDER  
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015 D010025 SPAIN  
015 E040025 X  
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015 D010026 SWEDEN  
015 E040026 X  
015 A000027 UNION BANK OF SWITZERLAND AG  
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015 A000028 CENTRAL TRUST OF CHINA  
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015 A000029 HONG KONG AND SHANGHAI BANKING CORPORATION  
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015 C010029 BANGKOK  
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015 A000030 MIDLAND BANK  
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015 A000031 FIRST NATIONAL BANK OF SOUTH AFRICA  
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PAGE 6

019 B000000 55  
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022 A000004 VINING SPARKS  
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022 A000005 FIRST MIAMI SECURITIES  
022 B000005 59-1842344  
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022 A000006 PIPER JAFFRAY  
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022 A000007 BANK OF AMERICA CORP  
022 B000007 56-0906609  
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022 A000008 CAIN BROTHERS & COMPANY, LLC  
022 B000008 13-3960078  
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022 A000009 BARCLAYS CAPITAL, INC.  
022 B000009 61-0316560  
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022 B000010 63-0589368  
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025 A000001 BARCLAYS CAPITAL, INC.  
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PAGE 7

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PAGE 8

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PAGE 12

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SIGNATURE MARK E. BRADLEY  
 TITLE TREASURER