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Pioneer Diversified High Income Trust
Form NSAR-B
June 29, 2011

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000 B000000 04/30/2011
000 C000000 1388126
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
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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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006 000000 N
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007 C010900 9
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
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008 D010001 BOSTON
008 D020001 MA
008 D030001 02109
008 A000002 MONTEPELIER 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
010 C020001 MA
010 C030001 02109
010 A000002 STATE STREET BANK & TRUST COMPANY, LLC
010 C010002 BOSTON
010 C020002 MA
PAGE 2
010 C030002 02101
011 A000001 MERRILL LYNCH & CO.
011 B000001 8-7221
011 C010001 NEW YORK
011 C020001 NY
011 C030001 10281

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011 C040001 1201
011 A000002 UBS INVESTMENT BANK
011 B000002 8-000000
011 C010002 XX
011 C020002 CT
011 C030002 00000
011 A000003 RBC CAPITAL MARKETS CORP.
011 B000003 8-045411
011 C010003 MINNEAPOLIS
011 C020003 MN
011 C030003 55402
011 C040003 4422
011 A000004 ROBERT W. BAIRD & CO.
011 B000004 8-00000
011 C010004 MILWAUKEE
011 C020004 WI
011 C030004 00000
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
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011 A000006 FERRIS, BAKER WATTS, INC.
011 B000006 8-00000
011 C010006 WASHINGTON
011 C020006 DC
011 C030006 00000
011 A000007 MORGAN KEEGAN & CO., INC.
011 B000007 8-000000
011 C010007 MEMPHIS
011 C020007 TN
011 C030007 00000
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.
012 B000001 85-1359
012 C010001 BOSTON
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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
013 B010001 BOSTON
PAGE 3
013 B020001 MA
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015 C030001 02109
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015 A000002 BANK AUSTRIA
015 B000002 S
015 C010002 VIENNA
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015 E040002 X
015 A000003 BANQUE BRUXELLES LAMBERT
015 B000003 S
015 C010003 BRUSSELS

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015 D010003 BELGIUM
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015 A000004 BANK OF BOSTON
015 B000004 S
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015 D010004 BRAZIL
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015 A000005 NATIONAL AUSTRALIA BANK
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015 C010005 MELBOURNE
015 D010005 AUSTRALIA
015 E040005 X
015 A000006 ROYAL BANK OF CANADA
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015 D010006 CANADA
015 E040006 X
015 A000007 DEN DANSKE BANK
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015 C010007 COPENHAGEN
015 D010007 DENMARK
015 E040007 X
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015 D010008 FINLAND
015 E040008 X
015 A000009 BANQUE PARIBAS
015 B000009 S
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015 D010009 FRANCE
015 E040009 X
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PAGE 4
015 D010010 GERMANY
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015 A000011 CITIBANK, N.A.
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015 D010011 GREECE
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015 A000012 STANDARD CHARTERED BANK
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015 C010012 HONG KONG
015 D010012 HONG KONG
015 E040012 X
015 A000013 CITIBANK, N.A.
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015 D010013 INDIA
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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

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015 E040015 X
015 A000016 CITIBANK, N.A.
015 B000016 S
015 C010016 SEOUL
015 D010016 SOUTH KOREA
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015 A000017 HONK KONG BANK MALAYSIA
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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
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015 C010019 AMSTERDAM
015 D010019 NETHERLANDS
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015 A000020 NATIONAL NOMINEES LIMITED
015 B000020 S
015 C010020 AUCKLAND
015 D010020 NEW ZEALAND
PAGE 5
015 E040020 X
015 A000021 DEN NORSE BANK
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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 COMERCIAL PORTUGUESE SA
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015 C010023 LISBON
015 D010023 PORTUGAL
015 E040023 X
015 A000024 STANDARD CHARTERED BANK
015 B000024 S
015 C010024 SINGAPORE
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015 A000025 BANCO DE SANTANDER
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015 A000027 UNION BANK OF SWITZERLAND AG
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015 D010027 SWITZERLAND
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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
015 C010030 LONDON
015 D010030 UNITED KINGDOM
015 E040030 X

PAGE 6

015 A000031 FIRST NATIONAL BANK OF SOUTH AFRICA
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020 A000001 ITG INC.
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020 B000002 13-4095933
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020 A000003 SUSQUEHANNA FINANCIAL GROUP, LLLP
020 C000003 0
020 A000004 CREDIT SUISSE SECURITIES (USA) L.L.C.
020 B000004 13-5659485
020 C000004 0
020 A000005 J.P. MORGAN SECURITIES INC.
020 B000005 13-3299429
020 C000005 0
020 A000006 BB&T INVESTMENT SERVICES, INC.
020 C000006 0
020 A000007 BASS TRADING
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020 A000008 UBS SECURITIES LLC
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020 B000010 13-5108880
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022 B000001 13-4973745
022 C000001 328560
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022 A000002 BNP PARIBAS SECURITIES CORP.
022 B000002 13-3235334
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022 D000002 358
022 A000003 SOCIETE GENERALE SECURITIES INC.

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022 C000003 81325
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 022 A000004 DEUTSCHE BANK SECURITIES INC.
 022 B000004 13-2730828
 022 C000004 47933
 PAGE 7
 022 D000004 2186
 022 A000005 BANC OF AMERICA SECURITIES LLC
 022 B000005 56-2058405
 022 C000005 24467
 022 D000005 737
 022 A000006 J.P. MORGAN SECURITIES INC.
 022 B000006 13-3299429
 022 C000006 22569
 022 D000006 2618
 022 A000007 BARCLAYS CAPITAL INC.
 022 C000007 18619
 022 D000007 467
 022 A000008 SG AMERICAS SECURITIES, LLC
 022 B000008 13-3606844
 022 C000008 12865
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 022 A000009 JEFFERIES & COMPANY, INC.
 022 B000009 95-2622900
 022 C000009 9733
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 022 B000010 13-5659485
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087 A010000 COMMON STOCK
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SIGNATURE MARK E. BRADLEY
TITLE TREASURER