# US MANAGER UNIVERSE STATISTICS

#### **SUMMARY OBSERVATIONS**

- The median US Core Bonds manager posted the highest median return for fourth quarter 2018, returning 1.4%. The median Cash Management manager posted the best returns for the one-year period ending December 31, 2018, with a return of 2.0%.
- The median US Small-Cap Growth Equity manager posted the lowest median return for fourth quarter 2018 (-20.4%). The median Global ex US Small-Cap manager suffered the worst performance (-19.1%) for the one-year period.

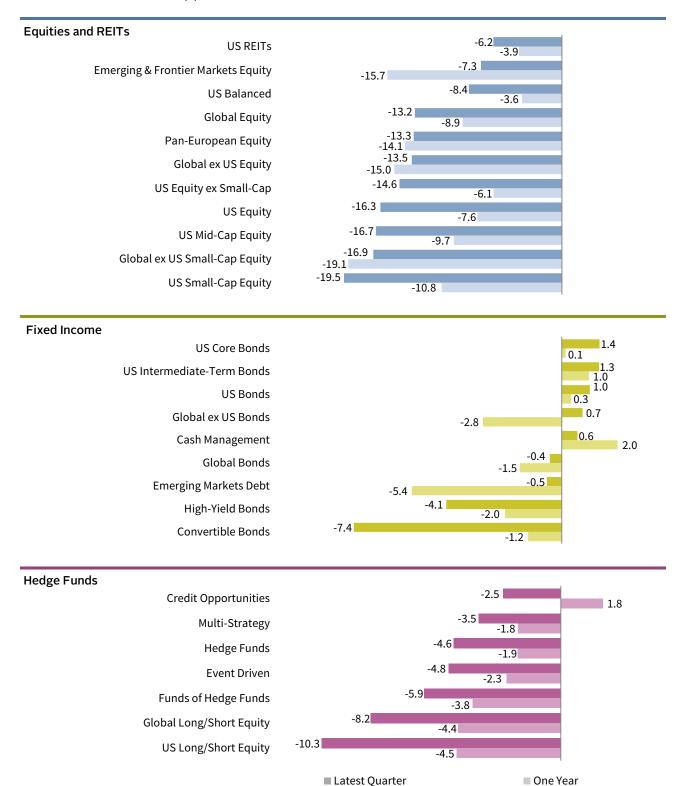
#### **ABOUT CA'S MANAGER UNIVERSE STATISTICS**

- This publication presents manager performance for 37 asset classes and substrategies, showing the median, mean, and key percentiles of return. Relevant indexes for each asset class are also included to provide market context.
- We use the median return of a specific strategy for benchmarking purposes, making comparisons
  against other strategies or individual funds/portfolios possible. Manager medians are calculated
  using performance data collected by Cambridge Associates (CA).
- CA manager universe statistics are derived from CA's proprietary Investment Manager Database. Managers that do not report in US dollars, exclude cash reserves from reported total returns, or have less than \$50 million in product assets are excluded. Performance results are generally gross of investment management fees (except hedge funds, which are generally net of management fees and performance fees). To be included in analysis of any period longer than one quarter, managers must have had performance available for the full period. Statistics are not reported for universes with fewer than ten managers. Number of managers included in medians (and noted on each exhibit) varies widely among asset classes/substrategies.



#### CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: SUMMARY MEDIANS

As of Fourth Quarter 2018 • Percent (%)

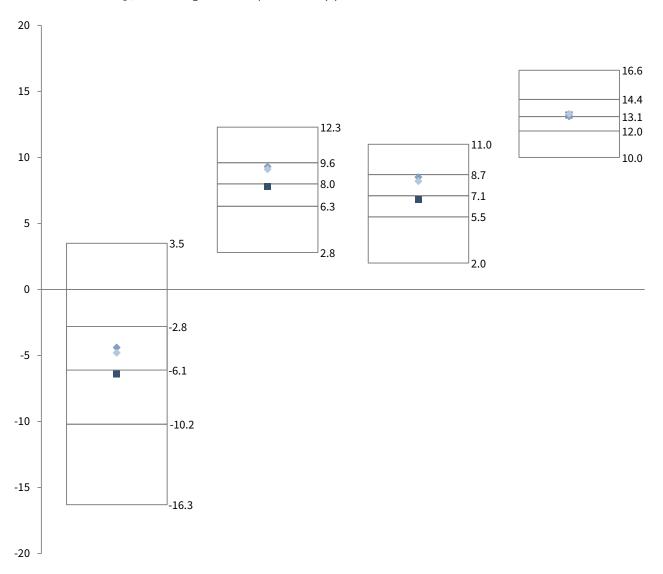


#### Source: Cambridge Associates LLC.

Notes: Manager data are based on quarterly manager medians. Cambridge Associates LLC's (CA) manager universe statistics are derived from CA's proprietary Investment Manager Database. Managers that do not report in US dollars, exclude cash reserves from reported total returns, or have less than \$50 million in product assets are excluded. Performance is generally reported gross of investment management fees, except for hedge fund universes which are generally reported net of investment management fees and performance fees. Number of managers included in medians varies from quarter to quarter. To be included in analysis of any period longer than one quarter, managers must have had performance available for the full period.

# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: US EQUITY EX SMALL-CAP RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



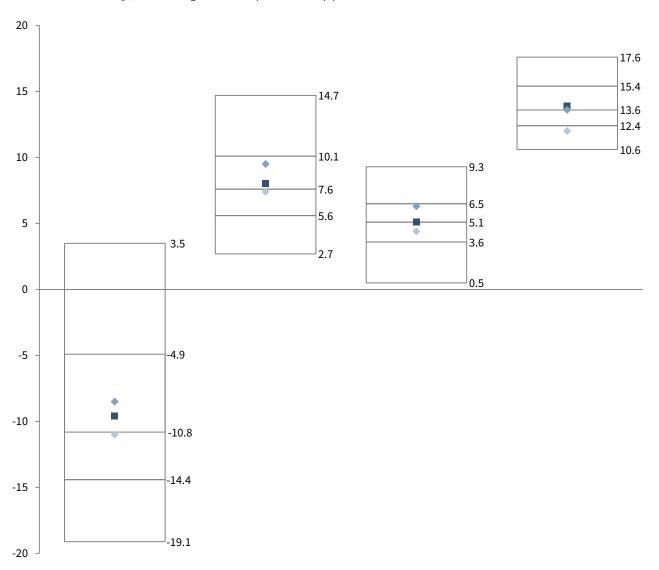
1-YR	3-YR	5-YR	10-YR				
Number of Managers in Universe							
882	858	822	655				
■ US Equity ex Small-Cap	■ US Equity ex Small-Cap Mean						
-6.4	7.8	6.8	13.2				
◆ S&P 500 Index							
-4.4	9.3	8.5	13.1				
Russell 1000® Index							
-4.8	9.1	8.2	13.3				

 $Sources: Cambridge\ Associates\ LLC, Frank\ Russell\ Company,\ Standard\ \&\ Poor's,\ and\ Thomson\ Reuters\ Datastream.$ 



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: US SMALL-CAP EQUITY RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



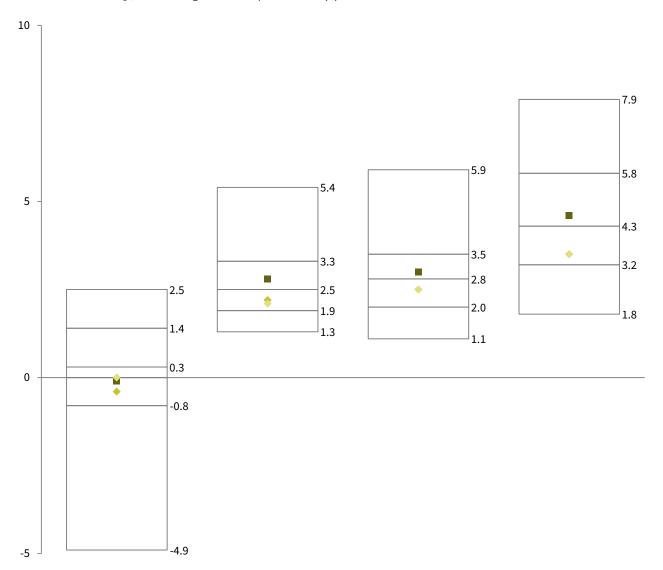
1-YR	3-YR	5-YR	10-YR				
Number of Managers in Universe							
508	482	455	374				
■ US Small-Cap Equity Mean	■ US Small-Cap Equity Mean						
-9.6	8.0	5.1	13.9				
◆ S&P 600 Small-Cap Index							
-8.5	9.5	6.3	13.6				
Russell 2000® Index							
-11.0	7.4	4.4	12.0				

 $Sources: Cambridge\ Associates\ LLC, Frank\ Russell\ Company,\ Standard\ \&\ Poor's,\ and\ Thomson\ Reuters\ Datastream.$ 



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: US BONDS RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



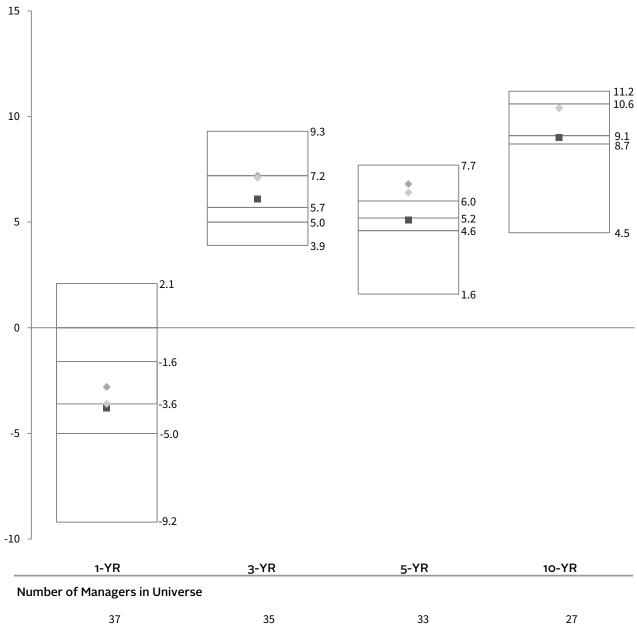
1-YR	3-YR	5-YR	10-YR				
Number of Managers in	Universe						
463	447	426	342				
US Bonds Mean	■ US Bonds Mean						
-0.1	2.8	3.0	4.6				
♦ BBG Barc Govt/Credit Index							
-0.4	2.2	2.5	3.5				
♦ BBG Barc Aggregate Bond Index							
0.0	2.1	2.5	3.5				

 $Sources: Bloomberg\ Index\ Services\ Limited, Cambridge\ Associates\ LLC, and\ Thomson\ Reuters\ Datastream.$ 



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: US BALANCED RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



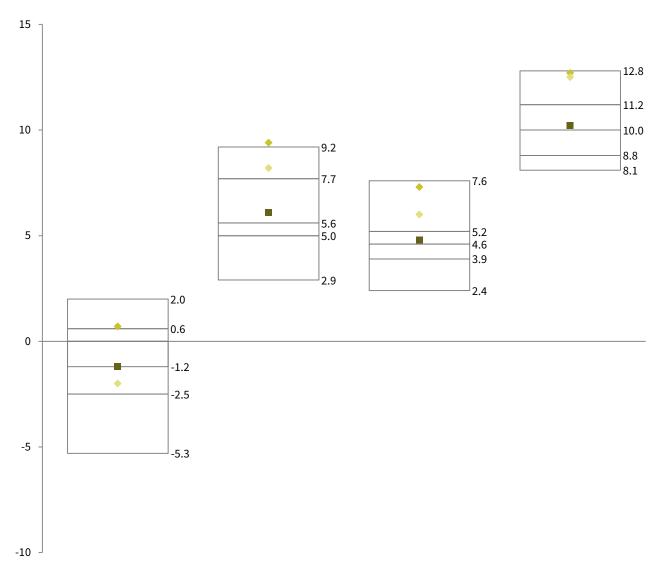
	1-YR	3-YR	5-YR	10-YR
	Number of Managers in Univers	se		
	37	35	33	27
	US Balanced Mean			
	-3.8	6.1	5.1	9.0
<b>*</b>	70% S&P 500 / 30% Bloomberg	g Barclays Government/C	redit Bond Index	
	-2.8	7.2	6.8	10.4
<b>*</b>	70% Russell 3000® / 30% Bloo	mberg Barclays Governm	ent/Credit Bond Index	
	-3.6	7.1	6.4	10.4

 $Sources: Bloomberg\ Index\ Services\ Limited,\ Cambridge\ Associates\ LLC,\ Frank\ Russell\ Company,\ Standard\ \&\ Poor's,\ and\ Thomson\ Reuters\ Datastream.$ 



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: CONVERTIBLE BONDS RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



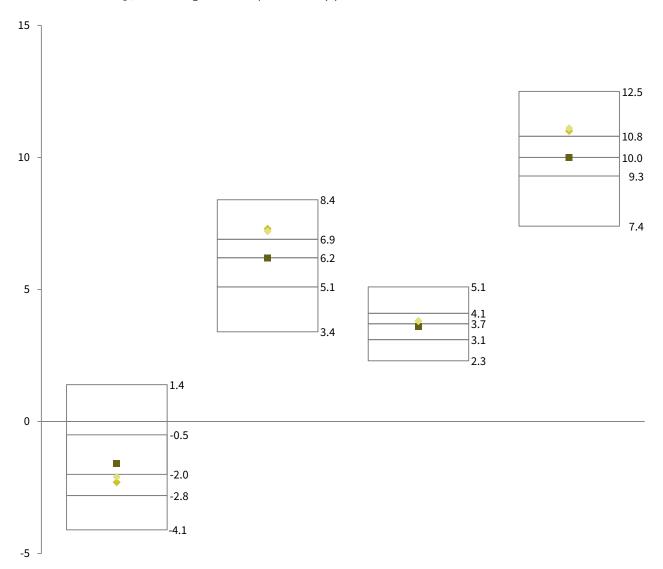
1-YR	3-YR	5-YR	10-YR				
Number of Managers in Universe							
20	20	20	18				
Convertible Bonds Mean	■ Convertible Bonds Mean						
-1.2	6.1	4.8	10.2				
BofA ML US Convertible Bond Index							
0.7	9.4	7.3	12.7				
♦ BBG Barc US Convertibles Index							
-2.0	8.2	6.0	12.5				

 $Sources: Bloomberg\ Index\ Services\ Limited,\ BofA\ Merrill\ Lynch,\ Cambridge\ Associates\ LLC,\ and\ Thomson\ Reuters\ Datastream.$ 



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: HIGH-YIELD BONDS RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



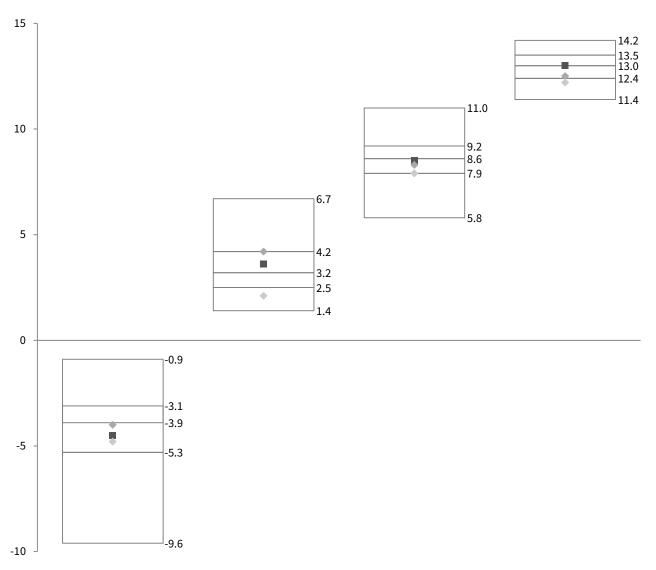
	1-YR	3-YR	5-YR	10-YR			
	Number of Managers in Universe	2					
	91	89	83	63			
	■ High-Yield Bonds Mean						
	-1.6	6.2	3.6	10.0			
<b>*</b>	BofA ML US High Yield Master II Index						
	-2.3	7.3	3.8	11.0			
<b>*</b>	♦ BBG Barc US High Yield Bond Index						
	-2.1	7.2	3.8	11.1			

 $Sources: Bloomberg\ Index\ Services\ Limited,\ BofA\ Merrill\ Lynch,\ Cambridge\ Associates\ LLC,\ and\ Thomson\ Reuters\ Datastream.$ 



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: US REAL ESTATE INVESTMENT TRUST RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



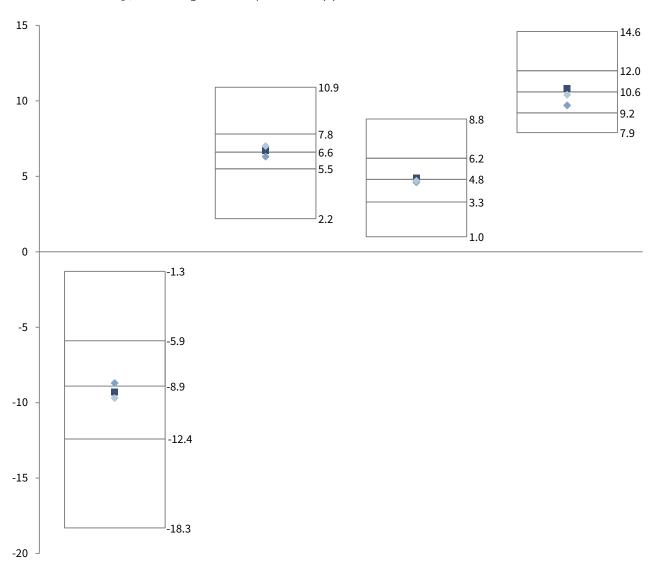
	1-YR	3-YR	5-YR	10-YR			
Num	ber of Managers in Unive	erse					
	33	33	33	31			
■ REIT	■ REIT Mean						
	-4.5	3.6	8.5	13.0			
• FTSI	◆ FTSE® NAREIT Equity Index						
	-4.0	4.2	8.3	12.5			
<ul><li>Wils</li></ul>	♦ Wilshire US REIT Index						
	-4.8	2.1	7.9	12.2			

Sources: Cambridge Associates LLC, FTSE International Limited, National Association of Real Estate Investment Trusts, Thomson Reuters Datastream, and Wilshire Associates, Inc.



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: GLOBAL EQUITY RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



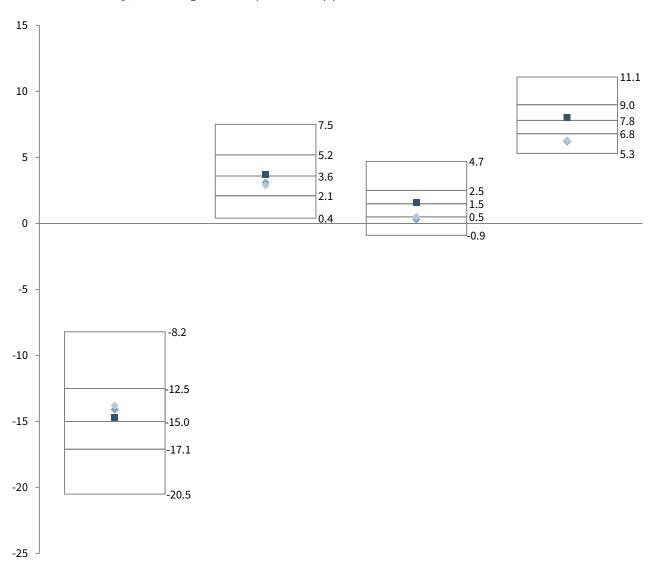
<u> </u>	∕R 3-	YR 5	-YR 1	o-YR			
Number of Mana	agers in Universe						
2	75	250	221	135			
■ Global Equity Me	■ Global Equity Mean						
<u>-</u> 9	9.3	6.7	4.9	10.8			
◆ MSCI World Index							
3-	3.7	6.3	4.6	9.7			
♦ S&P Global Broad Market Index							
<u>-</u> ç	9.7	7.0	4.7	10.4			

 $Sources: Cambridge\ Associates\ LLC,\ MSCI\ Inc.,\ and\ Standard\ \&\ Poor's.\ MSCI\ data\ provided\ ``as\ is"\ without\ any\ express\ or\ implied\ warranties.$ 



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: GLOBAL EX US EQUITY RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



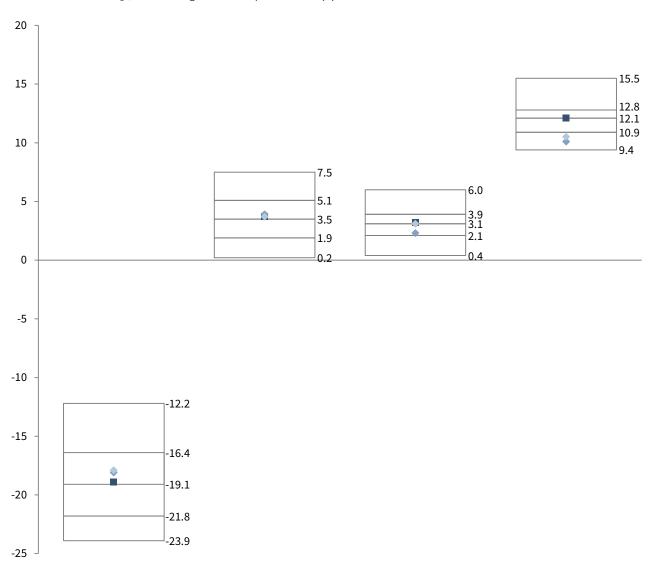
1-YR	3-YR	5-YR	10-YR				
Number of Managers in Univ	verse verse						
253	240	218	179				
■ Global ex US Equity Mean	■ Global ex US Equity Mean						
-14.7	3.7	1.6	8.0				
◆ MSCI World ex US Index							
-14.1	3.1	0.3	6.2				
◆ MSCI EAFE Index							
-13.8	2.9	0.5	6.3				

 $Sources: Cambridge\ Associates\ LLC\ and\ MSCI\ Inc.\ MSCI\ data\ provided\ ``as\ is"\ without\ any\ express\ or\ implied\ warranties.$ 



## CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: GLOBAL EX US SMALL-CAP EQUITY RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



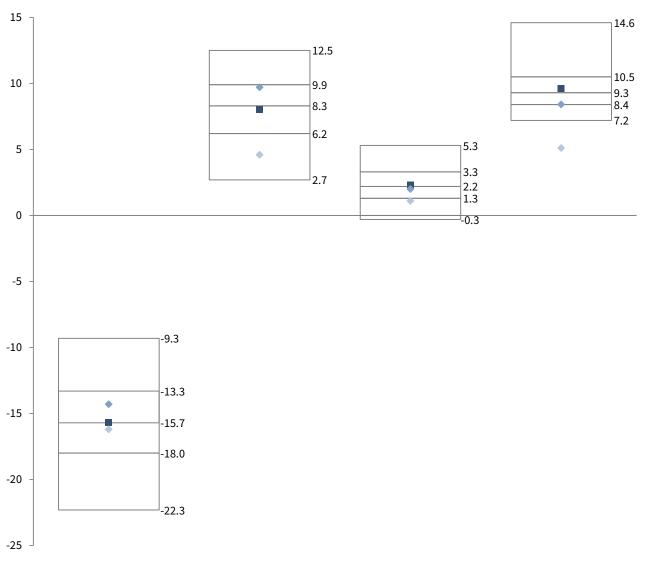
	1-YR	3-YR	5-YR	10-YR			
ı	Number of Managers in Univers	se					
	62	58	45	32			
• (	■ Global ex US Small-Cap Mean						
	-18.9	3.7	3.2	12.1			
<b>•</b> I	◆ MSCI World ex US Small-Cap Index						
	-18.1	3.9	2.3	10.1			
<b>•</b> I	MSCI EAFE Small-Cap Index						
	-17.9	3.7	3.1	10.5			

 $Sources: Cambridge\ Associates\ LLC\ and\ MSCI\ Inc.\ MSCI\ data\ provided\ ``as\ is"\ without\ any\ express\ or\ implied\ warranties.$ 



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: EMERGING & FRONTIER MARKETS EQUITY RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



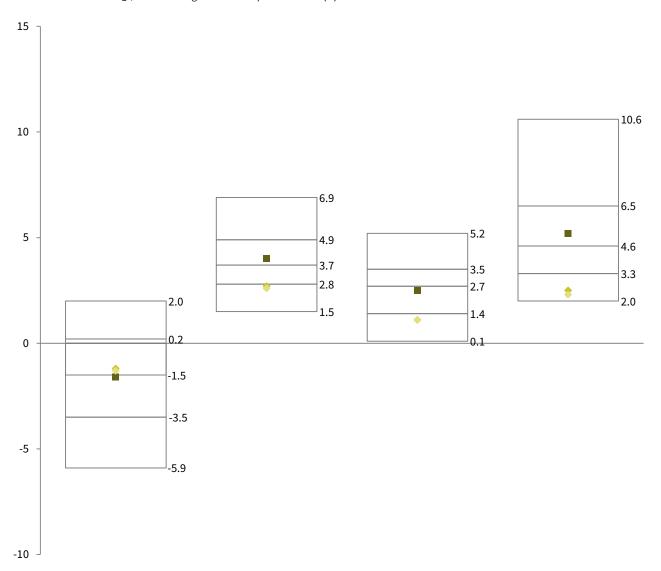
1-YR	3-YR	5-YR	10-YR		
Number of Managers in Univers	e				
161	143	118	60		
■ Emerging & Frontier Markets Mean					
-15.7	8.0	2.3	9.6		
MSCI Emerging Markets Index					
-14.3	9.7	2.0	8.4		
MSCI Frontier Markets Index					
-16.2	4.6	1.1	5.1		

 $Sources: Cambridge\ Associates\ LLC\ and\ MSCI\ Inc.\ MSCI\ data\ provided\ ``as\ is"\ without\ any\ express\ or\ implied\ warranties.$ 



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: GLOBAL BONDS RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



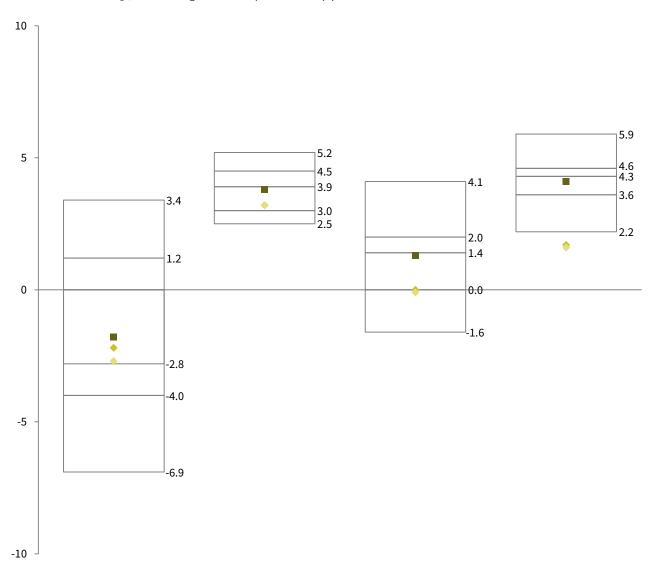
	1-YR	3-YR	5-YR	10-YR			
	Number of Managers in Universe						
	137	133	123	62			
	■ Global Bonds Mean						
	-1.6	4.0	2.5	5.2			
•	BBG Barc Global Agg Bond Index						
	-1.2	2.7	1.1	2.5			
•	Citigroup World Broad Investment Grade Index						
	-1.3	2.6	1.1	2.3			

Sources: Bloomberg Index Services Limited, Cambridge Associates LLC, and Thomson Reuters Datastream.



# CAMBRIDGE ASSOCIATES MANAGER UNIVERSE: GLOBAL EX US BONDS RETURN QUARTILES

Periods Ended December 31, 2018 • Average Annual Compound Returns (%)



1-YR	3-YR	5-YR	10-YR
Number of Managers in Universe			
17	17	17	15
■ Global ex US Bonds Mean			
-1.8	3.8	1.3	4.1
♦ BBG Barc Global Agg ex US\$ Inde	ex		
-2.2	3.2	0.0	1.7
<ul> <li>Citigroup World Broad Inv Grade</li> </ul>	ex US Index		
-2.7	3.2	-0.1	1.6

 $Sources: Bloomberg\ Index\ Services\ Limited, Cambridge\ Associates\ LLC, and\ Thomson\ Reuters\ Datastream.$ 



Periods Ended December 31, 2018

	Qtr (%)	1-Year	3-Year	5-Year	10-Year
US EQUITY					
Highest Return	9.2	25.6	26.2	17.6	24.9
5th Percentile	-9.8	3.5	12.9	10.7	17.1
25th Percentile	-13.7	-3.4	9.8	8.3	14.7
Median	-16.3	-7.6	7.9	6.3	13.3
75th Percentile	-19.3	-12.2	6.0	4.6	12.1
95th Percentile	-22.9	-18.0	2.7	1.2	10.2
Lowest Return	-40.3	-39.1	-13.5	-16.7	-1.1
Mean	-16.4	-7.5	7.9	6.2	13.4
n	1,415	1,390	1,340	1,277	1,029
Wilshire 5000 Index	-14.3	-5.3	9.1	8.1	13.2
Russell 3000® Index	-14.3	-5.2	9.0	7.9	13.2
US EQUITY EX SMALL-CAP					
Highest Return	9.2	20.0	20.5	17.6	24.9
5th Percentile	-8.9	3.5	12.3	11.0	16.6
25th Percentile	-12.7	-2.8	9.6	8.7	14.4
Median	-14.6	-6.1	8.0	7.1	13.1
75th Percentile	-16.6	-10.2	6.3	5.5	12.0
95th Percentile	-20.1	-16.3	2.8	2.0	10.0
Lowest Return	-40.3	-39.1	-13.5	-16.7	-1.1
Mean	-14.6	-6.4	7.8	6.8	13.2
n	893	882	858	822	655
S&P 500 Index	-13.5	-4.4	9.3	8.5	13.1
Russell 1000® Index	-13.8	-4.8	9.1	8.2	13.3
US SMALL-CAP EQUITY					
Highest Return	-7.8	25.6	26.2	16.2	20.6
5th Percentile	-14.2	3.5	14.7	9.3	17.6
25th Percentile	-17.9	-4.9	10.1	6.5	15.4
Median	-19.5	-10.8	7.6	5.1	13.6
75th Percentile	-21.2	-14.4	5.6	3.6	12.4
95th Percentile	-24.2	-19.1	2.7	0.5	10.6
Lowest Return	-36.5	-31.7	-6.7	-8.8	7.0
Mean	-19.5	-9.6	8.0	5.1	13.9
n	522	508	482	455	374
S&P 600 Small-Cap Index	-20.1	-8.5	9.5	6.3	13.6
Russell 2000 <sup>®</sup> Index	-20.2	-11.0	7.4	4.4	12.0

Sources: Cambridge Associates LLC, Frank Russell Company, Standard & Poor's, Thomson Reuters Datastream, and Wilshire Associates, Inc.

Notes: Cambridge Associates LLC's (CA) manager universe statistics are derived from CA's proprietary Investment Manager Database. Managers that do not report in US dollars, exclude cash reserves from reported total returns, or have less than \$50 million in product assets are excluded. Performance is generally reported gross of investment management fees. To be included in analysis of any period longer than one quarter, managers must have had performance available for the full period.



Periods Ended December 31, 2018

		AACR (%)				
	Qtr (%)	1-Year	3-Year	5-Year	10-Year	
US EQUITY EX SMALL-CAP						
Highest Return	9.2	20.0	20.5	17.6	24.9	
5th Percentile	-8.9	3.5	12.3	11.0	16.6	
25th Percentile	-12.7	-2.8	9.6	8.7	14.4	
Median	-14.6	-6.1	8.0	7.1	13.1	
75th Percentile	-16.6	-10.2	6.3	5.5	12.0	
95th Percentile	-20.1	-16.3	2.8	2.0	10.0	
Lowest Return	-40.3	-39.1	-13.5	-16.7	-1.1	
Mean	-14.6	-6.4	7.8	6.8	13.2	
n	893	882	858	822	655	
S&P 500 Index	-13.5	-4.4	9.3	8.5	13.1	
Russell 1000® Index	-13.8	-4.8	9.1	8.2	13.3	
US GROWTH EQUITY EX SMALL-CAP						
Highest Return	0.6	20.0	18.3	14.6	21.2	
5th Percentile	-10.6	6.3	13.0	12.0	17.2	
25th Percentile	-13.9	1.6	11.0	10.0	15.5	
Median	-15.6	-2.0	9.5	8.7	14.4	
75th Percentile	-17.3	-5.3	7.7	7.1	13.4	
95th Percentile	-20.8	-10.2	4.9	4.7	11.2	
Lowest Return	-23.6	-21.6	1.6	1.8	5.2	
Mean	-15.5	-1.9	9.3	8.5	14.4	
n	270	266	260	253	212	
S&P 500 Index	-13.5	-4.4	9.3	8.5	13.1	
Russell 1000® Growth Index	-15.9	-1.5	11.2	10.4	15.3	
US VALUE EQUITY EX SMALL-CAP						
Highest Return	-2.9	10.0	14.2	12.0	19.4	
5th Percentile	-8.6	-2.6	10.5	8.6	14.8	
25th Percentile	-12.1	-6.4	8.4	7.1	13.1	
Median	-14.0	-9.5	7.0	5.9	12.2	
75th Percentile	-16.1	-12.2	5.7	4.6	11.4	
95th Percentile	-19.4	-17.1	2.8	2.0	9.9	
Lowest Return	-40.1	-34.9	-2.6	-4.0	1.7	
Mean	-14.1	-9.5	6.9	5.7	12.2	
n	330	328	318	313	246	
S&P 500 Index	-13.5	-4.4	9.3	8.5	13.1	
Russell 1000® Value Index	-11.7	-8.3	7.0	6.0	11.2	

 $Sources: Cambridge\ Associates\ LLC, Frank\ Russell\ Company,\ Standard\ \&\ Poor's,\ and\ Thomson\ Reuters\ Datastream.$ 



Periods Ended December 31, 2018

		AACR (%)				
	Qtr (%)	1-Year	3-Year	5-Year	10-Year	
US SMALL-CAP EQUITY						
Highest Return	-7.8	25.6	26.2	16.2	20.6	
5th Percentile	-14.2	3.5	14.7	9.3	17.6	
25th Percentile	-17.9	-4.9	10.1	6.5	15.4	
Median	-19.5	-10.8	7.6	5.1	13.6	
75th Percentile	-21.2	-14.4	5.6	3.6	12.4	
95th Percentile	-24.2	-19.1	2.7	0.5	10.6	
Lowest Return	-36.5	-31.7	-6.7	-8.8	7.0	
Mean	-19.5	-9.6	8.0	5.1	13.9	
n	522	508	482	455	374	
S&P 600 Small-Cap Index	-20.1	-8.5	9.5	6.3	13.6	
Russell 2000® Index	-20.2	-11.0	7.4	4.4	12.0	
US SMALL-CAP GROWTH EQUITY						
Highest Return	-7.8	25.6	26.2	16.2	20.6	
5th Percentile	-16.2	8.0	17.4	11.1	19.1	
25th Percentile	-19.3	0.8	12.2	8.1	16.6	
Median	-20.4	-3.8	9.8	6.3	15.2	
75th Percentile	-22.6	-8.6	7.6	4.8	13.9	
95th Percentile	-24.4	-13.2	3.9	2.6	12.4	
Lowest Return	-26.4	-19.1	-0.7	0.7	9.3	
Mean	-20.6	-3.4	10.3	6.6	15.3	
n	167	165	154	147	125	
S&P 600/Citigroup Growth Index	-19.6	-4.1	10.4	7.5	14.9	
Russell 2000® Growth Index	-21.7	-9.3	7.2	5.1	13.5	
US SMALL-CAP VALUE EQUITY						
Highest Return	-9.3	4.6	20.1	9.7	19.9	
5th Percentile	-13.7	-5.5	11.3	7.5	16.4	
25th Percentile	-16.7	-11.6	8.4	5.3	14.0	
Median	-18.7	-14.1	6.7	4.1	12.9	
75th Percentile	-20.1	-16.7	4.7	2.9	11.7	
95th Percentile	-23.8	-20.9	1.3	-1.6	9.5	
Lowest Return	-36.5	-31.7	-6.7	-8.8	7.0	
Mean	-18.7	-13.8	6.6	3.8	12.9	
n	220	213	204	191	161	
S&P 600/Citigroup Value Index	-20.5	-12.6	8.6	5.1	12.4	
Russell 2000® Value Index	-18.7	-12.9	7.4	3.6	10.4	

 $Sources: Cambridge\ Associates\ LLC, Frank\ Russell\ Company,\ Standard\ \&\ Poor's,\ and\ Thomson\ Reuters\ Datastream.$ 



Periods Ended December 31, 2018

		AACR (%)				
	Qtr (%)	1-Year	3-Year	5-Year	10-Year	
US MID-CAP EQUITY						
Highest Return	0.6	20.0	15.1	11.1	19.4	
5th Percentile	-11.6	2.1	11.7	9.2	16.3	
25th Percentile	-14.9	-4.6	9.0	7.6	14.8	
Median	-16.7	-9.7	6.9	6.1	13.9	
75th Percentile	-18.6	-13.7	5.4	4.7	12.9	
95th Percentile	-21.7	-19.1	2.8	2.3	10.5	
Lowest Return	-25.5	-24.3	-0.3	0.0	4.1	
Mean	-16.6	-8.9	7.2	6.0	13.7	
n	150	150	144	139	120	
S&P 400 Index	-17.3	-11.1	7.7	6.0	13.7	
Russell Mid-Cap® Index	-15.4	-9.1	7.0	6.3	14.0	
US MID-CAP GROWTH EQUITY						
Highest Return	0.6	20.0	15.1	10.9	18.5	
5th Percentile	-13.2	9.1	12.2	9.9	17.0	
25th Percentile	-15.2	-1.8	9.7	8.1	15.2	
Median	-16.7	-4.6	8.0	6.7	14.3	
75th Percentile	-18.6	-7.7	6.3	5.6	13.5	
95th Percentile	-20.7	-12.9	3.9	3.3	9.8	
Lowest Return	-21.9	-19.2	3.7	1.9	5.2	
Mean	-16.7	-4.3	8.2	6.7	14.1	
n	58	58	56	56	48	
S&P 400/Citigroup Growth Index	-17.6	-10.3	7.3	6.3	14.4	
Russell Mid-Cap® Growth Index	-16.0	-4.8	8.6	7.4	15.1	
US MID-CAP VALUE EQUITY						
Highest Return	-6.2	10.0	12.7	9.9	19.4	
5th Percentile	-10.3	-4.2	9.9	8.2	15.5	
25th Percentile	-14.6	-9.7	7.9	6.5	14.4	
Median	-16.6	-13.2	6.2	5.3	13.2	
75th Percentile	-18.7	-16.0	5.0	3.7	12.2	
95th Percentile	-21.8	-20.3	2.0	2.2	11.2	
Lowest Return	-25.5	-22.9	-0.3	1.7	10.2	
Mean	-16.4	-12.6	6.2	5.2	13.3	
n	61	61	57	55	49	
S&P 400/Citigroup Value Index	-16.9	-11.9	7.8	5.6	12.8	
Russell Mid-Cap® Value Index	-15.0	-12.3	6.1	5.4	13.0	

 $Sources: Cambridge\ Associates\ LLC, Frank\ Russell\ Company, Standard\ \&\ Poor's, and\ Thomson\ Reuters\ Datastream.$ 



Periods Ended December 31, 2018

		AACR (%)				
	Qtr (%)	1-Year	3-Year	5-Year	10-Year	
US BONDS						
Highest Return	4.8	6.8	9.2	9.1	15.5	
5th Percentile	2.2	2.5	5.4	5.9	7.9	
25th Percentile	1.4	1.4	3.3	3.5	5.8	
Median	1.0	0.3	2.5	2.8	4.3	
75th Percentile	0.4	-0.8	1.9	2.0	3.2	
95th Percentile	-1.7	-4.9	1.3	1.1	1.8	
Lowest Return	-5.9	-7.9	0.8	0.4	0.2	
Mean	0.8	-0.1	2.8	3.0	4.6	
n	467	463	447	426	342	
BBG Barc Govt/Credit Index	1.5	-0.4	2.2	2.5	3.5	
BBG Barc Aggregate Bond Index	1.6	0.0	2.1	2.5	3.5	
US INTERMEDIATE-TERM BONDS						
Highest Return	3.0	2.8	6.2	5.9	9.1	
5th Percentile	2.2	1.9	3.8	3.6	5.7	
25th Percentile	1.6	1.3	2.3	2.4	4.1	
Median	1.3	1.0	2.0	2.2	3.4	
75th Percentile	1.0	0.6	1.8	1.9	3.1	
95th Percentile	-0.6	-0.8	1.3	1.2	2.1	
Lowest Return	-2.4	-2.9	1.1	1.1	1.7	
Mean	1.2	0.8	2.2	2.3	3.7	
n	83	82	82	78	67	
BBG Barc Agg Interm Bond Index	1.8	0.9	1.7	2.1	3.1	
BBG Barc Interm Govt/Cred Index	1.7	0.9	1.7	1.9	2.9	
US CORE DOUBS						
US CORE BONDS	2.6	2.0		7.0	0.5	
Highest Return	2.6	2.9	5.3	7.2	9.5	
5th Percentile	2.2	1.8	3.4	3.7	6.1	
25th Percentile	1.6	0.7	2.7	3.1	4.9	
Median	1.4	0.1	2.4	2.8	4.3	
75th Percentile	0.9	-0.3	2.1	2.6	3.9	
95th Percentile	-0.2	-0.9	1.7	2.0	3.1	
Lowest Return	-4.5	-5.4	1.0	1.0	1.8	
Mean	1.2	0.2	2.5	2.9	4.5	
n DDCD A D D D D	130	129	120	116	104	
BBG Barc Aggregate Bond Index	1.6	0.0	2.1	2.5	3.5	
BofA ML US Broad Market Index	1.6	0.1	2.1	2.6	3.6	

 $Sources: Bloomberg \ Index \ Services \ Limited, \ Bof A \ Merrill \ Lynch, \ Cambridge \ Associates \ LLC, \ and \ Thomson \ Reuters \ Datastream.$ 



Periods Ended December 31, 2018

		AACR (%)				
	Qtr (%)	1-Year	3-Year	5-Year	10-Year	
HIGH-YIELD BONDS						
Highest Return	1.3	5.2	12.5	7.0	15.5	
5th Percentile	-1.2	1.4	8.4	5.1	12.5	
25th Percentile	-3.1	-0.5	6.9	4.1	10.8	
Median	-4.1	-2.0	6.2	3.7	10.0	
75th Percentile	-4.8	-2.8	5.1	3.1	9.3	
95th Percentile	-6.2	-4.1	3.4	2.3	7.4	
Lowest Return	-9.1	-7.9	2.6	-1.8	5.3	
Mean	-3.9	-1.6	6.2	3.6	10.0	
n	92	91	89	83	63	
BofA ML US High Yield Master II Index	-4.7	-2.3	7.3	3.8	11.0	
BBG Barc US High Yield Bond Index	-4.5	-2.1	7.2	3.8	11.1	
CONVERTIBLE BONDS						
Highest Return	2.3	3.7	9.3	8.9	14.5	
5th Percentile	-3.1	2.0	9.2	7.6	12.8	
25th Percentile	-4.9	0.6	7.7	5.2	11.2	
Median	-7.4	-1.2	5.6	4.6	10.0	
75th Percentile	-8.9	-2.5	5.0	3.9	8.8	
95th Percentile	-10.9	-5.3	2.9	2.4	8.1	
Lowest Return	-11.3	-6.4	1.7	2.2	7.3	
Mean	-6.8	-1.2	6.1	4.8	10.2	
n	20	20	20	20	18	
BofA ML US Convertible Bond Index	-9.8	0.7	9.4	7.3	12.7	
BBG Barc US Convertibles Index	-9.6	-2.0	8.2	6.0	12.5	
CASH MANAGEMENT						
Highest Return	1.2	2.3	2.6	2.2	3.8	
5th Percentile	0.8	2.2	2.2	1.9	2.9	
25th Percentile	0.6	2.1	1.7	1.2	1.3	
Median	0.6	2.0	1.4	1.0	0.8	
75th Percentile	0.5	1.8	1.2	0.7	0.5	
95th Percentile	0.0	1.2	0.8	0.5	0.3	
Lowest Return	-4.9	-6.8	0.7	-3.7	0.0	
Mean	0.4	1.7	1.4	0.9	1.1	
n	35	35	34	34	26	
BofA ML 91-Day T-Bills	0.6	1.9	1.0	0.6	0.4	
BBG Barc 3-Mo US Treas Bellwethers	0.6	1.9	1.0	0.6	0.4	

 $Sources: Bloomberg \ Index \ Services \ Limited, \ Bof A \ Merrill \ Lynch, \ Cambridge \ Associates \ LLC, \ and \ Thomson \ Reuters \ Datastream.$ 



Periods Ended December 31, 2018

		AACR (%)			
	Qtr (%)	1-Year	3-Year	5-Year	10-Year
US BALANCED					
Highest Return	4.1	2.5	10.6	8.1	12.0
5th Percentile	-1.9	2.1	9.3	7.7	11.2
25th Percentile	-6.2	-1.6	7.2	6.0	10.6
Median	-8.4	-3.6	5.7	5.2	9.1
75th Percentile	-10.1	-5.0	5.0	4.6	8.7
95th Percentile	-13.0	-9.2	3.9	1.6	4.5
Lowest Return	-15.5	-13.5	3.1	-3.8	3.5
Mean	-8.0	-3.8	6.1	5.1	9.0
n	37	37	35	33	27
70% S&P 500 / 30% BBG Barc*	-9.1	-2.8	7.2	6.8	10.4
70% Russell 3000® / 30% BBG Barc*	-9.7	-3.6	7.1	6.4	10.4
US REAL ESTATE INVESTMENT TRUSTS					
Highest Return	2.1	9.6	12.4	13.7	17.4
5th Percentile	-1.3	-0.9	6.7	11.0	14.2
25th Percentile	-5.5	-3.1	4.2	9.2	13.5
Median	-6.2	-3.9	3.2	8.6	13.0
75th Percentile	-6.9	-5.3	2.5	7.9	12.4
95th Percentile	-8.8	-9.6	1.4	5.8	11.4
Lowest Return	-11.7	-20.2	-1.4	3.0	7.8
Mean	-5.9	-4.5	3.6	8.5	13.0
n	34	33	33	33	31
FTSE® NAREIT Equity Index	-6.1	-4.0	4.2	8.3	12.5
Wilshire US REIT Index	-6.9	-4.8	2.1	7.9	12.2

Sources: Bloomberg Index Services Limited, Cambridge Associates LLC, Frank Russel Company, FTSE International Limited, National Association of Real Estate Investment Trusts, Standard & Poor's, Thomson Reuters Datastream, and Wilshire Associates, Inc.



Periods Ended December 31, 2018

			AACR	(%)	
	Qtr (%)	1-Year	3-Year	5-Year	10-Year
GLOBAL EQUITY					
Highest Return	-1.4	20.6	27.5	20.5	21.9
5th Percentile	-5.9	-1.3	10.9	8.8	14.6
25th Percentile	-11.1	-5.9	7.8	6.2	12.0
Median	-13.2	-8.9	6.6	4.8	10.6
75th Percentile	-15.2	-12.4	5.5	3.3	9.2
95th Percentile	-18.0	-18.3	2.2	1.0	7.9
Lowest Return	-24.9	-36.2	-5.1	-4.6	2.4
Mean	-12.8	-9.3	6.7	4.9	10.8
n	281	275	250	221	135
MSCI World Index	-13.4	-8.7	6.3	4.6	9.7
S&P Global Broad Market Index	-13.1	-9.7	7.0	4.7	10.4
GLOBAL EX US EQUITY					
Highest Return	-6.4	-4.3	10.3	6.5	17.1
5th Percentile	-9.5	-8.2	7.5	4.7	11.1
25th Percentile	-12.0	-12.5	5.2	2.5	9.0
Median	-13.5	-15.0	3.6	1.5	7.8
75th Percentile	-15.0	-17.1	2.1	0.5	6.8
95th Percentile	-17.4	-20.5	0.4	-0.9	5.3
Lowest Return	-21.8	-25.3	-2.9	-3.2	3.7
Mean	-13.5	-14.7	3.7	1.6	8.0
n	257	253	240	218	179
MSCI World ex US Index	-12.8	-14.1	3.1	0.3	6.2
MSCI EAFE Index	-12.5	-13.8	2.9	0.5	6.3
GLOBAL EX US SMALL-CAP EQUITY					
Highest Return	-10.2	-5.5	14.8	10.2	21.4
5th Percentile	-12.2	-12.2	7.5	6.0	15.5
25th Percentile	-15.0	-16.4	5.1	3.9	12.8
Median	-16.9	-19.1	3.5	3.1	12.1
75th Percentile	-18.4	-21.8	1.9	2.1	10.9
95th Percentile	-21.3	-23.9	0.2	0.4	9.4
Lowest Return	-23.7	-33.7	-1.4	-1.7	7.5
Mean	-16.8	-18.9	3.7	3.2	12.1
n	62	62	58	45	32
MSCI World ex US Small-Cap Index	-16.2	-18.1	3.9	2.3	10.1
MSCI EAFE Small-Cap Index	-16.1	-17.9	3.7	3.1	10.5

Sources: Cambridge Associates LLC, MSCI Inc., Standard & Poor's, and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.



Periods Ended December 31, 2018

		AACR (%)			
	Qtr (%)	1-Year	3-Year	5-Year	10-Year
GLOBAL EX US EQUITY					
Highest Return	-6.4	-4.3	10.3	6.5	17.1
5th Percentile	-9.5	-8.2	7.5	4.7	11.1
25th Percentile	-12.0	-12.5	5.2	2.5	9.0
Median	-13.5	-15.0	3.6	1.5	7.8
75th Percentile	-15.0	-17.1	2.1	0.5	6.8
95th Percentile	-17.4	-20.5	0.4	-0.9	5.3
Lowest Return	-21.8	-25.3	-2.9	-3.2	3.7
Mean	-13.5	-14.7	3.7	1.6	8.0
n	257	253	240	218	179
MSCI World ex US Index	-12.8	-14.1	3.1	0.3	6.2
MSCI EAFE Index	-12.5	-13.8	2.9	0.5	6.3
GLOBAL GROWTH EQUITY EX US					
Highest Return	-8.8	-4.6	10.3	6.5	17.1
5th Percentile	-10.5	-6.8	8.1	4.8	11.6
25th Percentile	-12.2	-12.0	5.5	3.6	9.4
Median	-14.5	-14.2	3.5	1.9	8.4
75th Percentile	-16.0	-16.6	2.4	1.2	7.4
95th Percentile	-18.4	-19.8	0.7	0.1	6.6
Lowest Return	-21.8	-23.1	0.3	-1.0	6.2
Mean	-14.4	-14.0	4.0	2.2	8.7
n	66	66	61	53	46
MSCI World ex US Growth Index	-13.5	-13.1	2.8	1.4	6.7
MSCI EAFE Growth Index	-13.3	-12.8	2.9	1.6	7.1
GLOBAL VALUE EQUITY EX US					
Highest Return	-6.4	-4.3	9.4	6.2	12.6
5th Percentile	-8.9	-8.6	7.6	3.9	11.0
25th Percentile	-11.4	-12.6	4.9	2.4	8.6
Median	-13.2	-15.4	3.3	1.0	7.4
75th Percentile	-14.4	-17.6	2.0	-0.1	6.1
95th Percentile	-16.0	-20.6	0.3	-1.5	4.8
Lowest Return	-18.1	-22.8	-0.1	-3.2	3.7
Mean	-12.8	-15.0	3.6	1.2	7.5
n	88	87	84	81	67
MSCI World ex US Value Index	-12.1	-15.1	3.4	-0.7	5.7
MSCI EAFE Value Index	-11.7	-14.8	2.8	-0.6	5.5

Sources: Cambridge Associates LLC, MSCI Inc., and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.

Notes: Cambridge Associates LLC's (CA) manager universe statistics are derived from CA's proprietary Investment Manager Database. Managers that do not report in US dollars, exclude cash reserves from reported total returns, or have less than \$50 million in product assets are excluded. Performance is generally reported gross of investment management fees. To be included in analysis of any period longer than one quarter, managers must have had performance available for the full period.



Periods Ended December 31, 2018

		AACR (%)			
	Qtr (%)	1-Year	3-Year	5-Year	10-Year
PAN-EUROPEAN EQUITY					
Highest Return	-9.1	-3.3	7.9	8.5	12.7
5th Percentile	-9.9	-6.9	6.9	7.1	12.4
25th Percentile	-12.3	-11.7	3.7	3.7	10.9
Median	-13.3	-14.1	3.3	2.1	8.7
75th Percentile	-15.3	-14.9	1.7	0.5	7.8
95th Percentile	-15.9	-18.1	0.4	-1.0	7.3
Lowest Return	-16.7	-20.3	-0.7	-1.0	7.3
Mean	-13.4	-13.3	3.2	2.4	9.3
n	15	15	15	14	12
MSCI Europe Index	-12.7	-14.9	2.1	-0.6	6.2
MSCI Pan-Euro Index	-11.7	-14.2	2.2	-0.9	5.7
EMERGING & FRONTIER MARKETS EQUITY					
Highest Return	2.8	-0.9	17.6	6.6	15.4
5th Percentile	-2.5	-9.3	12.5	5.3	14.6
25th Percentile	-5.7	-13.3	9.9	3.3	10.5
Median	-7.3	-15.7	8.3	2.2	9.3
75th Percentile	-8.8	-18.0	6.2	1.3	8.4
95th Percentile	-11.2	-22.3	2.7	-0.3	7.2
Lowest Return	-16.7	-27.9	-4.7	-2.3	5.3
Mean	-7.1	-15.7	8.0	2.3	9.6
n	166	161	143	118	60
MSCI Emerging Markets Index	-7.4	-14.3	9.7	2.0	8.4
MSCI Frontier Markets Index	-4.3	-16.2	4.6	1.1	5.1

Sources: Cambridge Associates LLC, MSCI Inc., and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.

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Total returns for MSCI emerging markets indexes are gross of dividend taxes.



Periods Ended December 31, 2018

			AACR (%	6)	
	Qtr (%)	1-Year	3-Year	5-Year	10-Year
GLOBAL BONDS					
Highest Return	2.6	7.4	8.5	6.2	12.9
5th Percentile	1.9	2.0	6.9	5.2	10.6
25th Percentile	1.1	0.2	4.9	3.5	6.5
Median	-0.4	-1.5	3.7	2.7	4.6
75th Percentile	-2.1	-3.5	2.8	1.4	3.3
95th Percentile	-4.3	-5.9	1.5	0.1	2.0
Lowest Return	-5.5	-8.1	-0.2	-2.8	1.3
Mean	-0.7	-1.6	4.0	2.5	5.2
n	140	137	133	123	62
BBG Barc Global Agg Bond Index	1.2	-1.2	2.7	1.1	2.5
Citigroup WBIG* Index	1.1	-1.3	2.6	1.1	2.3
GLOBAL EX US BONDS					
Highest Return	2.3	4.5	5.6	5.4	7.4
5th Percentile	2.1	3.4	5.2	4.1	5.9
25th Percentile	1.5	1.2	4.5	2.0	4.6
Median	0.7	-2.8	3.9	1.4	4.3
75th Percentile	-1.5	-4.0	3.0	0.0	3.6
95th Percentile	-3.6	-6.9	2.5	-1.6	2.2
Lowest Return	-3.8	-6.9	2.3	-1.6	1.4
Mean	-0.1	-1.8	3.8	1.3	4.1
n	17	17	17	17	15
BBG Barc Global Agg ex US\$ Index	0.9	-2.2	3.2	0.0	1.7
Citigroup WBIG* ex US Index	0.5	-2.7	3.2	-0.1	1.6
EMERGING MARKETS DEBT					
Highest Return	3.0	4.7	12.6	5.5	12.5
5th Percentile	2.3	-1.8	8.9	5.2	11.9
25th Percentile	1.3	-4.3	6.6	4.5	9.4
Median	-0.5	-5.4	6.0	2.9	8.3
75th Percentile	-1.4	-6.9	5.2	0.1	4.0
95th Percentile	-2.4	-8.6	2.3	-1.7	2.2
Lowest Return	-3.8	-15.2	1.8	-2.4	1.2
Mean	-0.2	-5.4	6.0	2.2	7.1
n	65	63	62	60	33
JPM EM Bond Index Global	-1.2	-4.6	4.7	4.2	7.8
JPM EM Bond Index Plus	-0.7	-5.3	4.0	4.0	7.3

Sources: Bloomberg Index Services Limited, Cambridge Associates LLC, J.P. Morgan Securities, Inc., and Thomson Reuters Datastream.

Notes: Cambridge Associates LLC's (CA) manager universe statistics are derived from CA's proprietary Investment Manager Database. Managers that do not report in US dollars, exclude cash reserves from reported total returns, or have less than \$50 million in product assets are excluded. Performance is generally reported gross of investment management fees. To be included in analysis of any period longer than one quarter, managers must have had performance available for the full period.

\* World Broad Investment Grade.



Periods Ended December 31, 2018

		AACR (%)				
	Qtr (%)	1-Year	3-Year	5-Year	10-Year	
HEDGE FUNDS						
Highest Return	41.5	51.4	32.2	22.3	23.3	
5th Percentile	5.0	11.6	12.8	10.5	15.1	
25th Percentile	-1.1	2.9	6.6	5.6	10.0	
Median	-4.6	-1.9	3.2	3.0	6.9	
75th Percentile	-9.4	-7.7	0.4	0.9	4.7	
95th Percentile	-18.9	-20.5	-5.5	-3.5	0.4	
Lowest Return	-44.4	-56.2	-57.6	-32.0	-18.6	
Mean	-5.5	-2.9	3.5	3.2	7.3	
n	908	890	828	717	439	
FUNDS OF HEDGE FUNDS						
Highest Return	3.5	5.5	9.2	7.4	10.3	
5th Percentile	-1.2	3.5	5.0	4.9	8.3	
25th Percentile	-3.6	-0.8	3.5	3.1	6.1	
Median	-5.9	-3.8	1.6	1.8	5.4	
75th Percentile	-8.0	-6.2	0.4	0.6	4.4	
95th Percentile	-11.9	-13.3	-2.2	-0.6	1.9	
Lowest Return	-14.9	-18.7	-3.4	-1.4	0.8	
Mean	-5.9	-4.0	1.8	2.0	5.3	
n	80	78	77	69	56	
GLOBAL LONG/SHORT EQUITY						
Highest Return	18.7	51.4	27.6	20.4	23.3	
5th Percentile	3.7	12.7	19.5	11.4	16.0	
25th Percentile	-4.0	2.2	6.8	6.5	11.5	
Median	-8.2	-4.4	3.1	3.0	8.0	
75th Percentile	-12.9	-13.2	0.0	1.0	5.6	
95th Percentile	-22.5	-21.2	-3.4	-2.0	1.0	
Lowest Return	-32.2	-56.2	-9.6	-12.6	-2.0	
Mean	-8.4	-4.7	4.5	3.7	8.7	
n	135	130	118	95	58	

#### Source: Cambridge Associates LLC.



Periods Ended December 31, 2018

		AACR (%)				
	Qtr (%)	1-Year	3-Year	5-Year	10-Year	
US LONG/SHORT EQUITY						
Highest Return	9.6	35.4	26.3	22.3	18.0	
5th Percentile	0.3	16.3	13.0	11.9	15.4	
25th Percentile	-5.2	3.2	7.4	6.2	11.0	
Median	-10.3	-4.5	3.7	3.4	8.7	
75th Percentile	-15.3	-14.4	0.8	0.2	5.3	
95th Percentile	-25.0	-25.4	-6.9	-6.7	2.9	
Lowest Return	-44.4	-42.0	-18.9	-14.5	-1.6	
Mean	-10.9	-4.5	4.1	3.1	8.4	
n	128	128	123	107	72	
US GROWTH EQUITY HEDGE FUND						
Highest Return	9.6	32.9	12.6	11.5	14.2	
5th Percentile	5.6	16.1	11.5	11.2	13.3	
25th Percentile	-5.6	5.5	9.1	6.6	10.5	
Median	-9.5	1.4	6.6	4.9	8.7	
75th Percentile	-12.9	-3.5	3.3	1.1	4.4	
95th Percentile	-17.3	-10.4	-2.2	-1.0	2.3	
Lowest Return	-18.4	-11.2	-9.3	-2.0	-0.6	
Mean	-8.2	2.8	5.8	4.3	7.7	
n	24	24	23	22	17	
US VALUE EQUITY HEDGE FUND	3.2	20.3	19.6	12.0	18.0	
Highest Return				12.0		
5th Percentile	-2.0	12.2	13.7	9.3	16.6	
25th Percentile	-6.7	-1.1	6.7	5.8	11.1	
Median	-11.1	-6.2	2.7	1.5	8.7	
75th Percentile	-18.0	-17.5	-0.2	-0.6	5.7	
95th Percentile	-25.9	-28.3	-8.3	-9.4	3.1	
Lowest Return	-44.4	-42.0	-18.9	-14.5	2.8	
Mean	-12.4	-8.7	2.9	1.5	8.7	
n	59	59	58	52	38	

# Source: Cambridge Associates LLC.



Periods Ended December 31, 2018

		AACR (%)				
	Qtr (%)	1-Year	3-Year	5-Year	10-Year	
CREDIT OPPORTUNITIES						
Highest Return	10.2	17.0	32.2	14.7	23.0	
5th Percentile	1.4	9.3	13.0	10.6	16.1	
25th Percentile	-0.7	5.2	8.7	5.8	11.5	
Median	-2.5	1.8	5.4	4.0	8.8	
75th Percentile	-4.9	-1.4	3.1	2.1	6.7	
95th Percentile	-9.3	-8.6	0.3	-0.2	5.4	
Lowest Return	-24.1	-22.0	-20.8	-8.2	3.7	
Mean	-3.1	1.3	6.0	4.2	9.6	
n	155	154	146	129	58	
MULTI-STRATEGY						
Highest Return	16.2	32.0	17.7	15.1	21.6	
5th Percentile	2.3	10.0	12.1	9.3	13.6	
25th Percentile	-0.5	2.9	7.0	5.5	10.3	
Median	-3.5	-1.8	4.4	3.5	7.9	
75th Percentile	-7.0	-7.3	1.4	1.4	6.2	
95th Percentile	-14.8	-17.0	-3.5	-2.0	3.3	
Lowest Return	-34.1	-35.7	-9.7	-5.0	-3.5	
Mean	-4.4	-2.4	4.2	3.6	8.3	
n	119	118	114	96	66	
EVENT DRIVEN						
Highest Return	5.4	32.0	15.7	13.1	18.1	
5th Percentile	2.1	14.3	12.3	8.8	12.3	
25th Percentile	-1.3	2.1	8.2	4.6	10.2	
Median	-4.8	-2.3	5.2	2.7	7.6	
75th Percentile	-9.4	-7.0	2.3	-0.1	6.2	
95th Percentile	-14.0	-19.1	-4.7	-3.0	4.2	
Lowest Return	-34.1	-35.7	-9.7	-4.6	3.0	
Mean	-5.6	-2.4	4.8	2.7	8.2	
n	42	42	40	30	22	

#### Source: Cambridge Associates LLC.



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