# TDF Analyzer™

#### Prepared by:



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Prepared for: Sample Client

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# TDF Education

TDFs represent one of the most critical decisions fiduciaries must take about an investment lineup. While TDFs represent a growing share of retirement plan assets, these investments have a degree of variability and are commonly misunderstood

### **Proliferation of Target Date Funds (TDFs)**

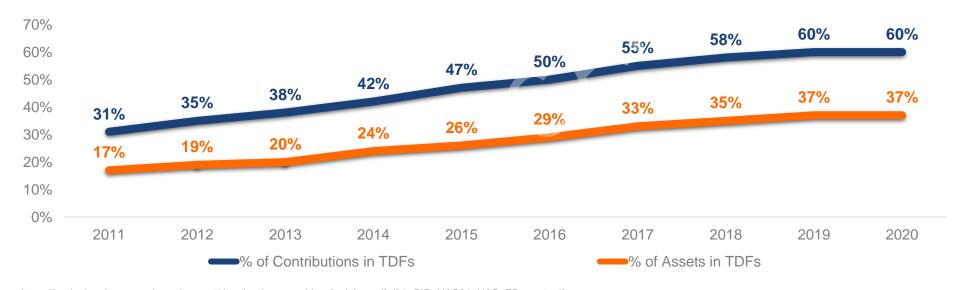
One of the most widely used investment options in defined contribution plans.





Participants with entire account invested in a single TDF

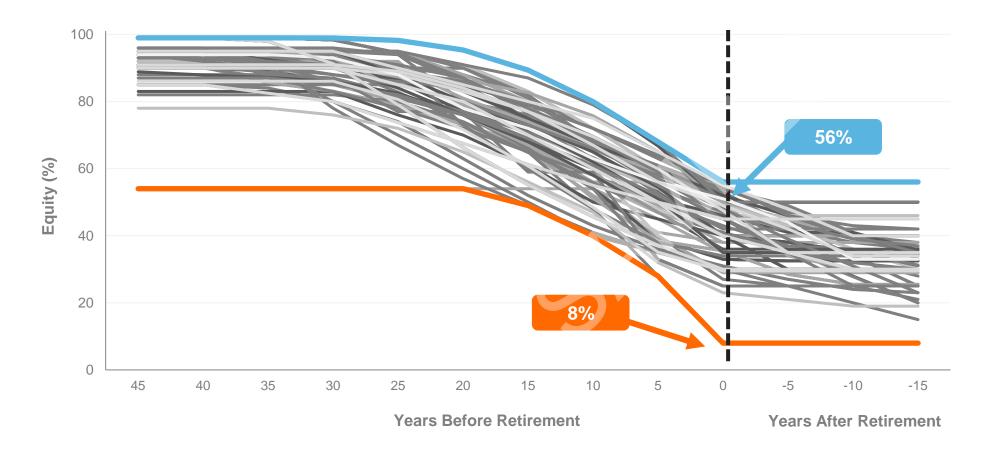
Prolific TDF prevalence necessitates increased due diligence by fiduciaries.



https://institutional.vanguard.com/content/dam/inst/vanguard-has/insights-pdfs/21\_CIR\_HAS21\_HAS\_FSreport.pdf

### **Differences Among Off-the-Shelf TDF Glidepaths**

- ✓ TDF equity allocations at retirement can vary by as much as 48%
- ✓ TDFs have never been more widely available or more diverse

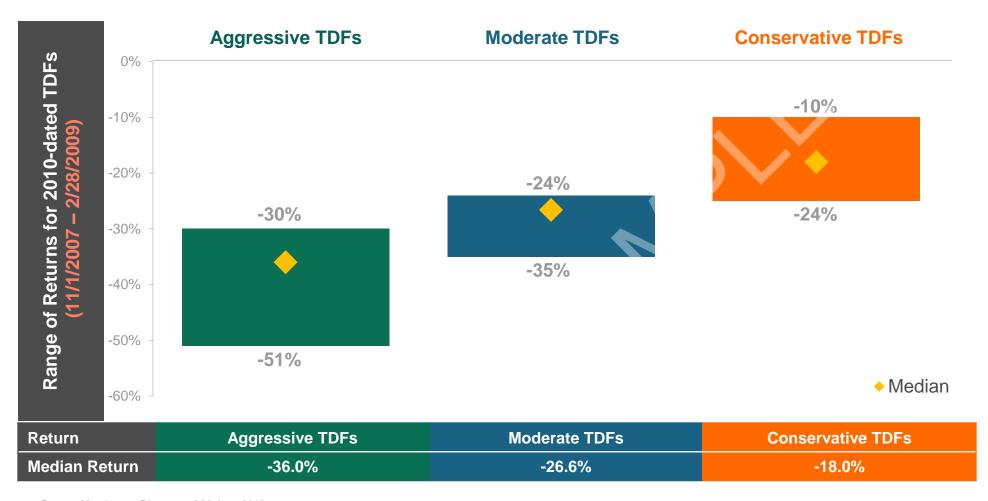


For illustrative purposes only. The multiple lines represent various TDF glidepath options available within the market place.

1. Defined Contribution Trends Survey, Callan Investments Institute, 2021 report Past performance is not indicative of future results.

# **TDF Risk Categories and Drawdowns Global Financial Crisis**

Differences in glidepath risk posture can lead to extreme differences in returns for participants.



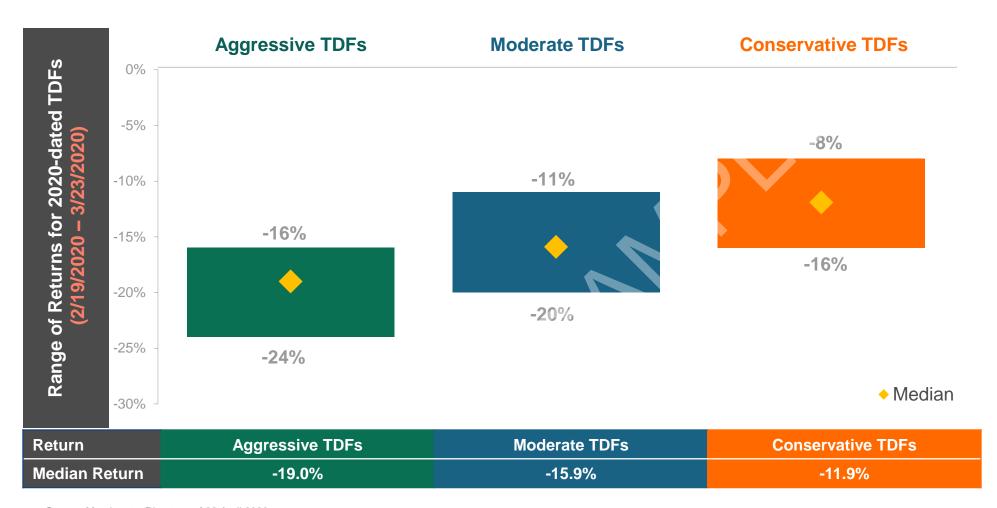
Source: Morningstar Direct, as of 30 June 2019.

Conservative, Moderate and Aggressive TDFs are classified utilizing the NFP TDF Risk Index

Past performance is no guarantee of future results. Indexes are unmanaged and one cannot invest directly in an index.

# TDF Risk Categories and Drawdowns COVID Pandemic

Differences in glidepath risk posture can lead to extreme differences in returns for participants.



Source: Morningstar Direct, as of 30 April 2020.

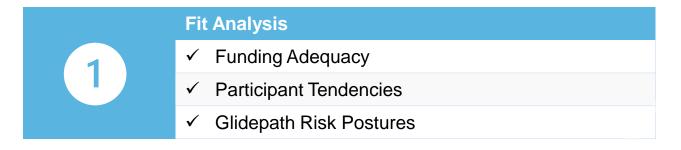
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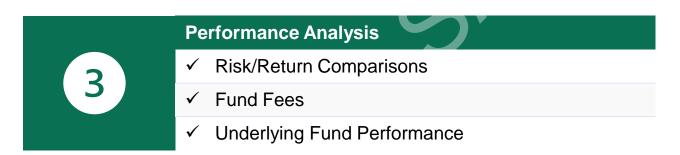
# **TDF** Evaluation

In order to evaluate and select a TDF series, fiduciaries should conduct a thorough quantitative and Scorecard analysis.Important factors include glidepath risk, underlying funds, fees and asset class coverage.

### **Process for Selecting TDFs**







- 1. Active/Passive: describes the management style of the underlying funds within the TDF series.
- 2. Single Manager: one manager manages the underlying funds within the TDF series.
- 3. Multi Manager: multiple managers manage the underlying funds within the TDF series.

### **RPAG Glidepath Segmentation**

To assist fiduciaries with glidepath identification and selection, TDFs are categorized into one of three risk postures. Several factors are taken into consideration including equity exposure at various points and the rate of transition away from riskier investments.

#### Conservative



- ✓ Objective: stability
- Lower equity exposure at retirement
- Incorporates a long and gradual transition away from risky assets

### **Moderate**



- ✓ Objective: balance
- ✓ Moderate equity exposure at retirement
- Incorporates a more steady transition away from risky assets

### **Aggressive**



- ✓ Objective: growth
- Higher equity exposure at retirement
- ✓ Incorporates a faster transition away from risk assets

### **RPAG TDF Risk Index**

A TDFs equity exposure and the rate of change in its equity exposure as participants approach retirement are used to categorize TDFs into three different risk postures.

Metric	Description	Index Weight
Equity exposure at retirement (age 65)	Equity risk is responsible for a large portion of the volatility in broadly diversified portfolios. The time around retirement is an especially critical period for participants, and thus this metric has the highest weighting in the index.	65%
Glidepath slope	A steeper glidepath that transitions away from high-risk to risk-free assets near retirement age limits the ability to recover large losses and is more susceptible to sequencing risk.	25%
Equity exposure at the start of the glidepath	A glidepath's beginning equity percentage.	2.5%
Equity exposure at the end of the glidepath	A glidepath's ending equity percentage, which may be at retirement age or past retirement age depending on the structure of the glidepath.	7.5%

Conservative <54

Conservative TDF strategies have lower risk scores.

**Moderate** 55 - 69

Moderate TDF strategies have middle of the road risk scores

Aggressive >70

Aggressive TDF strategies have higher risk scores.

TDF data is updated at least annually, and the risk index for any particular fund may change to reflect updated information. The risk index is limited to only target date fund asset allocation series. IMPORTANT: The projections or other information generated by the risk index regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results and are not guarantees of future results.

### **Evaluating the TDFs Underlying Funds**

TDFs are typically structured as a "fund-of-funds", comprised of underlying funds in various asset classes. While broad based asset class exposure is responsible for the majority of a TDF's performance, the underlying fund performance can be a meaningful contributor or detractor to overall results, and as such, is an important fiduciary consideration. The DOL, in their tip sheet to plan fiduciaries released in 2013, referenced the importance of understanding and evaluating a TDF's underlying investments.

As such, each TDF series receives an Average Underlying Fund Score, which is a statistical average of each underlying fund within a TDF series. This score can be an effective way to help measure the quality of each TDF's underlying investments.

		Active Funds
	Avg. Style	Falls within professed quadrant.
30% Style	Style Drift	Generally passes if analytic is < 20. Blends and mid cap pass if analytic is < 25.
	$R^2$	> 80%
	Risk/ Return	Less risk or stronger return than the benchmark.
30% Risk/ Return	Up/ Down	Numerator must exceed denominator.
Neturii	Info Ratio	Positive IR
	Return Rank	Ranked in the top 50 <sup>th</sup> percentile (lower number indicates better ranking).
20% Peer Group	Info Ratio Rank	Ranked in the top $50^{\text{th}}$ percentile (lower number indicates better ranking).
20% Qualitative	<ul><li>Manager </li><li>For a fund</li></ul>	< 1½ years tenure, deduct 2 points < 3½ years tenure, deduct 1 point to be awarded full 2 points, its expense ratio must be below average for asset class.

		Passive Funds								
	Average Style	Falls within professed quadrant (stringent as manager only tracks benchmark, as opposed to trying to outperform it)								
40% Style &	Style Drift	Generally pass if analytic is < 5 (stringent as index funds are designed to have very little drift)								
Tracking	R <sup>2</sup>	> 95%. If not, may want to determine the index the fund is tracking.								
•	Tracking Error	< 4%. If larger, fund can lose additional points (see qualitative scoring below)								
Co	Tracking Error Rank	Ranks in the top 75 <sup>th</sup> percentile (lower number indicates better ranking).								
40%	Expense Rank	Ranks in the top 75 <sup>th</sup> percentile (lower number indicates better ranking).								
Peer Group Rankings	Return Rank	Ranks in the top 75 <sup>th</sup> percentile (lower number indicates better ranking).								
	Sharpe Ratio Rank	Ranks in the top 75 <sup>th</sup> percentile (lower number indicates better ranking).								
20% Qualitative	20%  If tracking error > 6, deduct 1 point.									

# TDF Fit Analysis

Plan sponsors must understand the plan's objectives, demographics and participant behavior in order to select a suitable TDF. A TDF Fit Analysis aims to identify the proper glidepath risk for a particular plan based on key plan - specific factors.

# **TDF Fit Analysis**

Plan Objectives								
Plan objectives impact participant savings and	Is this retirement plan a supplement to another re	etirement savings plan?	No					
ability to take risk. It is important that the plan's glidepath aligns with the plan's structure,	Do participants generally stay in the plan through	retirement?	No					
including whether or not supplemental savings plans exist and the level to which these other plans provide income in retirement.	Does the company's other retirement savings plaincome in retirement?	oes the company's other retirement savings plan, if one exists, offer significant come in retirement?						
		Glidepath Risk Consideration	Conservative					
Plan Demographics								
Plan demographics drive glidepath strategy	Do plan participants have above average investr	Do plan participants have above average investment knowledge?						
based on the funded status of the participants, primarily driven by contribution rates and	Does the plan have high contribution rates?		No					
account balances. These factors, in addition to the sophistication of the participants, dictate their need to take risk.	Does the plan have high account balances at ret	No						
		Glidepath Risk Consideration	Aggressive					
Participant Behavior								
Participant behavior influences glidepath	Does the plan have high participant engagement	?	No					
strategy to the extent that participants are engaged with their retirement plan. Their	Do participants expect to stay in the plan through	retirement?	Yes					
expectations regarding the timing of distributions and overall willingness to take risk are also key factors.	Are participants risk-averse?	Are participants risk-averse?						
		Glidepath Risk Consideration	Aggressive					

### **TDF Matrix**

TDF Series Name	Glidepath Risk	Risk	Equity Path (A	Roll Down Age		Approx.	Management	Investment	Equity Tactical	
IDF Selles Name	Gildepati i Nisk	Index	Starting Eq	Ending Eq	Begin	End	Equity Exposure at 65	Style	Туре	(+/-)
Blackrock LifePath Index MF	Moderate	68	99%	40%	35	65	40%	Passive	Proprietary Funds	0
JPMorgan SmartRetirement	Moderate	68	94%	40%	40	65	40%	Active	Proprietary Funds	15
MFS Lifetime	Moderate	56	95%	29%	40	65	29%	Active	Proprietary Funds	0
T. Rowe Price Retire Target Date Series	Moderate	71	98%	30%	30	95	43%	Active	Proprietary Funds	5
flexFIT+ Aggressive	Aggressive	83	99%	50%	35	65	50%	Active and Passive	Proprietary & MultiManager	0
flexFIT+ Moderate	Moderate	68	99%	40%	30	65	40%	Active and Passive	Proprietary & MultiManager	0
flexFIT+ Conservative	Conservative	49	99%	30%	25	65	30%		Proprietary & MultiManager	0

### TDF Matrix Definitions

TDF Series Name: Name of the TDF series.

**TDF Design Analysis:** each series is placed into a risk category (aggressive, moderate, conservative) based on the Glidepath Risk Index.

**Glidepath Risk Index**: A glidepath describes the transition from equity assets to fixed income investments as an investor approaches retirement. The Glidepath Risk Index quantifies a glidepath's overall aggressiveness by considering four key factors, as explained below:

Equity exposure at retirement (age 65): Equity risk is responsible for a large portion of the volatility in broadly diversified portfolios. This represents 65 percent of the risk index weight.

Glidepath slope: a steeper glidepath that transitions away from equity assets to fixed income investments near retirement age limits the ability to recover large losses and is more susceptible to sequencing risk. Sequencing risk is the risk of experiencing negative returns in a period when withdrawals are being made. A steeper transition away from equity asses in this case would make it subsequently more difficult for the investor to recoup losses experienced during this time. This represents 25 percent of the index weight.

Equity at the start of the glidepath. This represents 2.5 percent of the index weight.

Equity at the end of the glidepath. This represents 7.5 percent of the risk index weight.

**Starting Eq**: A glidepath's beginning equity percentage.

**Ending Eq**: A glidepath's ending equity percentage, which may be at retirement age or past retirement age depending on the structure of the glidepath.

**Begin Roll Down Age**: The participant age corresponding to the glidepath's first decline in equity percentage

**End Roll Down Age**: The participant age corresponding to the time when the glidepath reaches its lowest and final equity percentage point.

**Approx. Equity Exposure at 65**: The glidepath's approximate equity percentage at participant age 65 (assumed retirement age).

**Active/Passive**: Describes the management style of the underlying funds within the TDF series. Active: Fund manager attempts to implement a particular strategy with the goal to outperform a benchmark. Passive: Fund manager implements a strategy to match, not outperform, the performance, of a particular benchmark, gross of fees.

**Investment Type**: Describes the structure of the underlying funds within the series.

**Tactical Asset Allocation**: A glidepath can be strategic or tactical. Every TDF has a policy glidepath, which specifies the asset allocations at given time and serves as the base glidepath to which the portfolios are rebalanced periodically. Managers implementing a strategic glidepath do

not actively deviate from these policy levels, although the policy weights can change slightly over time due to changes in long-term capital market expectations. Managers implementing a tactical glidepath can actively deviate from policy allocations to act on their short-term outlooks for certain asset classes in an attempt to outperform the policy allocation, in addition to changing the policy weights over time based on long-term capital market expectations. This metric describes the maximum percentage deviation from the glidepath the manager is allowed to implement.

#### **Investment Types**

**Proprietary Funds**: A TDF is labeled proprietary if the underlying funds comprising the TDF series are managed by the same investment company managing the TDF itself.

**Sub-advised Proprietary Funds**: The underlying funds comprising the TDF series are managed by a mix of internal managers and outside managers via various sub-advisory agreements.

**Proprietary & Multi-manager Funds**: The underlying funds comprising the TDF series are managed by both the same investment company managing the TDF itself and outside managers.

**Open Architecture**: The underlying funds are selected from the full range of investment managers with no proprietary mandate.

#### Disclaimers

Investments in target date funds are subject to the risks of their underlying funds. The investment risk of target date funds change over time as its asset allocation changes. Asset allocation and diversification do not protect against market loss. No target date fund is considered a complete retirement program and there is no guarantee any single fund will provide sufficient retirement income at or through retirement. Principal invested is not guaranteed at any time, including at or after the funds' target dates. The target date is typically the date in which the participant is expecting to retire.

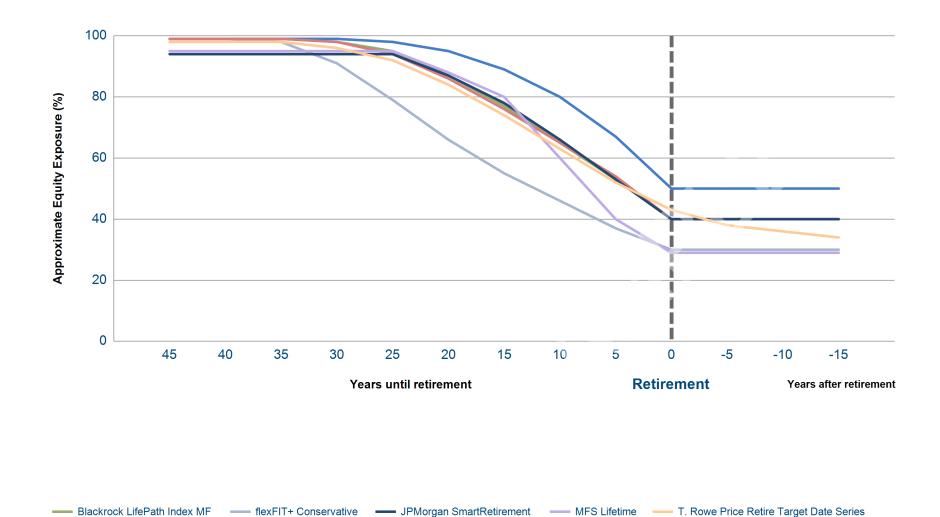
Past performance does not guarantee future results.

Mutual funds are sold by prospectus only. Before investing, investors should carefully consider the investment objectives, risks, charges and expenses of a mutual fund. The fund prospectus provides this and other important information. Please contact your representative or the Company to obtain a prospectus. Please read the prospectus carefully before investing or sending money.

### **TDF Glidepath Comparison**

--- flexFIT+ Moderate

- flexFIT+ Aggressive



### **Risk Index & Underlying Score**



Please refer to the RPAG TDF Risk Index and the Evaluating The TDFs Underlying Funds pages for definitions. Funds listed are for illustrative purposes only. The actual funds and corresponding scores may vary by plan.

# **TDF Comparison Summary**

TDF Series	Blackrock LifePath Index MF	JPMorgan SmartRetirement	MFS Lifetime	T. Rowe Price Retire Target Date Series	flexFIT+ Moderate
Strategy Investment Expense	0.09%	0.38%	0.41%	0.55%	0.31%
Glidepath Risk	Moderate	Moderate	Moderate	Moderate	Moderate
Management Style	Passive	Active	Active	Active	Active and Passive
Average Underlying Fund Score	10.0	9.2	8.2	8.0	9.6
Number of Underlying Funds Scoring Watchlist or Below	0	3	7	9	0
3(38) Independent Manager Selection	No	No	No	No	Yes

Information is for illustrative purposes only and cannot be guaranteed now or in the future.

Source: Retirement Plan Advisory Group

# **TDF Comparison Summary**

TDF Series	FlexFit+
Strategy Investment Expense	0.31%
Glidepath Risk	Aggressive Conservative
Management Style	Active and Passive
Average Underlying Fund Score	9.6
Number of Underlying Funds Scoring Watchlist or Below	0
3(38) Independent Manager Selection	Yes

Information is for illustrative purposes only and cannot be guaranteed now or in the future. Source: Retirement Plan Advisory Group

#### **Target Date Series**

Asset Allocation	Asset Class	Index	Allocatio (Series	n Score Funds)	Selectio (Underlyii	n Score ng Funds)	Blended Score				
, (300) (100) (100) (100) (100) (100)	713301 01433		# of Funds	Avg Score	# of Funds	Avg Score	Q2 2022	Q1 2022	Q4 2021	Q3 2021	
BlackRock LifePath Index Target Date Series K	MOD	68	10	7.2	6	9.5	8	9	9	8	

### Selection (Underlying Funds)

2 .	Ticker/		Style				Peer Group				Qual	Score			
Passive	Asset Class	ID	Style	Style Drift	R <sup>2</sup>	Tracking Error	TE Rank	Expense Rank	Return Rank	SR Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
ichara Bussell 1000 Larra			1	1	1	1	1	1	1	1	2	10	10	10	10
iShares Russell 1000 Large- Cap Idx K	LCB-P	BRGKX	3.1/ 99.2	0.7	100.0	0.1	1.0	16.0	39	50	0.07	LCB-P	LCB-P	LCB-P	LCB-P
.O. B. H.O.O.	SCB-P		1	1	1	1	1	1	1	1	2	10	10	10	10
iShares Russell 2000 Small-Cap Idx K		BDBKX	0.1/ -99.0	1.4	100.0	0.1	29.0	15.0	49	47	0.07	SCB-P	SCB-P	SCB-P	SCB-P
	IE-P		1	1	1	1	1	1	1	1	2	10	10	10	10
iShares Core MSCI Total Intl Stk ETF		IXUS	6.4/ 45.2	8.9	99.6	1.2	4.0	21.0	22	23	0.07	IE-P	IE-P	IE-P	IE-P
			1	1	1	1	1	1	1	1	2	10	10	10	10
iShares US Aggregate Bond Index K	CFI-P	WFBIX	-17.0/ 37.2	9.2	99.8	0.2	29.0	17.0	12	22	0.05	CFI-P	CFI-P	CFI-P	CFI-P
			1	1	1	1	1	0	0	0	2	7	8	8	8
iShares TIPS Bond ETF	UGT-P	ST-P TIP	-93.8/ 99.7	1.1	99.9	0.2	30.0	84.0	87	86	0.19	UGT-P	UGT-P	UGT-P	UGT-P

#### continued

<b>.</b>		Ticker/	Style					Peer	Group		Qual	Score			
Passive	Asset Class	ID	Style	Style Drift	R <sup>2</sup>	Tracking Error	TE Rank	Expense Rank	Return Rank		2pt Max/ Expense	(コン フロンフー)	Q1 2022	Q4 2021	Q3 2021
iShares Developed Real Estate Idx K	GRE-P	BKRDX	-13.6/ 89.3	5.2	99.9	0.6	1 35.0	36.0	24	1 24	- 0.14	10 GRE-P	10 GRE-P	10 GRE-P	10 GRE-P

#### **Target Date Series**

Asset Allocation	Asset Class	Risk	Allocatio (Series	n Score Funds)	Selection Score (Underlying Funds)				Blende	Blended Score	
	713301 01433	Index	# of Funds	Avg Score	# of Funds	Avg Score	C	2 2022	Q1 2022	Q4 2021	Q3 2021
flexFIT+ Aggressive Target Date Series Fund Class R1	AGG	83	6	-	18	9.7		-	-	-	-

#### **Target Date Series**

Asset Allocation	Asset Class	Risk	Allocatio (Series	n Score Funds)		n Score ng Funds)		Blende	d Score	
7.5557.m555.ns.	7 10001 01000	Index	# of Funds	Avg Score	# of Funds	Avg Score	Q2 2022	Q1 2022	Q4 2021	Q3 2021
flexFIT+ Conservative Target Date Series Fund Class R1	CON	49	6	-	18	9.7	-	-	-	-

#### **Selection (Underlying Funds)**

				Style		ı	Risk/Returr		Peer	Group	Qual		Sc	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	しつつ フロンフ	Q1 2022	Q4 2021	Q3 2021
Fidelity Laura Can Value			1	1	1	1	1	1	1	1	2	10	10	10	10
Fidelity Large Cap Value Enhanced Index	LCV	FLVEX	-94.1/ 96.3	5.4	99.3	17.1/ 8.7	101.7/ 95.2	1.04	29	15	-	LCV	LCV	LCV	LCV
			90.3			0.7		•	4		0.39	_	40		4.0
			1	1	1	1	0	0	1	1	2	8	10	10	10
Fidelity Blue Chip Growth K	LCG	FBGKX	100.0/ 56.3	8.4	94.4	21.8/ 14.3	104.9/ 106.1	0	3	2	0.71	LCG	LCG	LCG	LCG

				Style		ı	Risk/Returr	ı	Peer (	Group	Qual		Sc	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R²	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
			1	1	1	1	1	1	1	1	0	8	8	8	8
Fidelity Small Cap Value	SCV	FCPVX	-97.5/ -65.9	7.6	95.0	21.7/ 7.5	98.5/ 90.5	0.52	9	5	T 0.98	scv	scv	scv	scv
			1	1	1	1	1	1	1	1	2	10	10	10	10
Fidelity Small Cap Growth	SCG	FCPGX	88.6/ -56.3	10.4	94.2	21.4/ 9.6	101.4/ 86.2	0.87	40	39	1.00	scg	SCG	SCG	SCG
DAE International			1	1	1	1	1	1	1	1	2	10	10	10	10
RAE International Composite	ILCV	97183C876	-99.0/ 36.8	3.9	96.9	18.0/ 1.5	95.8/ 93.1	0.28	39	28	0.51	ILCV	ILCV	ILCV	ILCV
Strategy Equivalent			1	1	1	0	0	0	1	1	2	7	7	7	7
PIMCO RAE International Instl	ILCV	PPYIX	-83.3/ 72.7	18.5	96.7	19.7/ 7.4	96.9/ 97.5	-0.06	36	34	0.51	ILCV	ILCV	ILCV	ILCV
International Facility OTS	ILCG	97183K159										-	-	-	-
International Equity OTS	ILCG	9/1838159									-	-	-	-	-
			1	1	1	1	1	1	1	1	2	10	10	10	10
Fidelity International Small Cap	ISMB	FISMX	-48.1/ -79.5	12.6	93.8	16.9/ 3.0	97. <b>0</b> / 90.6	0.38	25	25	1.01	ISMB	ISMB	ISMB	ISMB
			1	1	1	1	1	1	1	1	2	10	9	9	9
Fidelity Total Bond Fund	CFI	FTBFX	-5.2/ 34.0	7.1	81.5	4.4/ 1.4	108.4/ 98.3	0.29	17	15	0.45	CFI	CFI	CFI	CFI

		Ticker/		St	yle			Peer (	Group		Qual		Sco	ore	
Passive	Asset Class	ID	Style	Style Drift	R <sup>2</sup>	Tracking Error	TE Rank	Expense Rank	Return Rank	l .	2pt Max/ Expense	しし ノロノノ	Q1 2022	Q4 2021	Q3 2021
Black Back Buscall 4000			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock Russell 1000 Index F	LCB-P	06739Q354	3.1/ 99.1	0.9	100.0	0.0	0.0	3.0	35	46	-	LCB-P	LCB-P	LCB-P	LCB-P

# Scorecard<sup>™</sup>

		Ticker/		St	yle			Peer (	Group		Qual		Sc	ore	
Passive	Asset Class	ID	Style	Style Drift	R <sup>2</sup>	Tracking Error	TE Rank	Expense Rank	Return Rank	SR Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
BlackRock Russell 2000			1	1	1	1	1	1	1	1	2	10	10	10	10
Index F	SCB-P	06739Q271	0.0/ -99.4	1.6	100.0	0.1	6.0	1.0	42	44	-	SCB-P	SCB-P	SCB-P	SCB-P
Disciplination ACOM ACOM Services			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock MSCI ACWI ex- U.S. IMI Index F	IE-P	09256V160	3.0/ 44.1	8.1	99.4	1.4	7.0	28.0	16	16	-	IE-P	IE-P	IE-P	IE-P
BlackRock U.S. Debt Index			1	1	1	1	1	1	1	1	2	10	10	10	10
F	CFI-P	06739Q651	-17.1/ 34.3	6.3	100.0	0.1	6.0	10.0	6	10	-	CFI-P	CFI-P	CFI-P	CFI-P
			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock U.S. Treasury Inflation Protected Sec F	UGT-P	06739Q644	-99.3/ 98.8	0.4	100.0	0.1	18.0	8.0	32	34	-	UGT-P	UGT-P	UGT-P	UGT-P
			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock Long Govt Bond Index F	LOG-P	LONGOVF.brcf	100.0/ 100.0	0.0	99.9	0.5	11.0	0.0	5	3	0.00	LOG-P	LOG-P	LOG-P	LOG-P
Black Book Long Town			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock Long Term Credit Bond Index Fund A	LTB-P	brlcf.brcf	100.0/ -97.3	2.2	99.8	0.7	6.0	0.0	53	29	0.00	LTB-P	LTB-P	LTB-P	LTB-P
BlackRock Intermediate												ОТН	7	8	8
Government Bond Index F	SHG-P	06739Q438									-	-	SHG-P	SHG-P	SHG-P
DI 10 10 10			1	1	1	1	1	1	0	1	2	9	10	8	10
BlackRock Commodity Index Daily F	CBB-P	09256V178	99.9/ 99.9	0.2	99.9	0.5	4.0	0.0	87	74	-	СВВ-Р	CBB-P	CBB-P	CBB-P
Disabbasis Davidson d B			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock Developed Real Estate Index F	GRE-P	09256V855	-10.1/ 91.8	3.5	100.0	0.4	12.0	6.0	9	9	-	GRE-P	GRE-P	GRE-P	GRE-P

#### **Target Date Series**

Asset Allocation	Asset Class	Risk	Allocatio (Series	n Score Funds)	Selectio (Underlyii			Blende	d Score	
7.5557.m558.n50	7 10001 01000	Index	# of Funds	Avg Score	# of Funds	Avg Score	Q2 2022	Q1 2022	Q4 2021	Q3 2021
flexFIT+ Moderate Target Date Series Fund Class R1	MOD	68	6	-	18	9.7	-	-	-	-

### Selection (Underlying Funds)

				Style		ı	Risk/Returr	ı	Peer	Group	Qual		Sc	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
Fidelity Large Cap Value			1	1	1	1	1	1	1	1	2	10	10	10	10
Enhanced Index	LCV	FLVEX	-94.1/ 96.3	5.4	99.3	17.1/ 8.7	101.7/ 95.2	1.04	29	15	0.39	LCV	LCV	LCV	LCV
			1	1	1	1	0	0	1	1	2	8	10	10	10
Fidelity Blue Chip Growth K	LCG	FBGKX	100.0/ 56.3	8.4	94.4	21.8/ 14.3	104.9/ 106.1	0	3	2	0.71	LCG	LCG	LCG	LCG
			1	1	1	1	1	1	1	1	0	8	8	8	8
Fidelity Small Cap Value	SCV	FCPVX	-97.5/ -65.9	7.6	95.0	21.7/ 7.5	98.5/ 90.5	0.52	9	5	T 0.98	scv	SCV	SCV	SCV
			1	1	1	1	1	1	1	1	2	10	10	10	10
Fidelity Small Cap Growth	SCG	FCPGX	88.6/ -56.3	10.4	94.2	21.4/ 9.6	101.4/ 86.2	0.87	40	39	1.00	SCG	SCG	SCG	scg
DAE International			1	1	1	1	1	1	1	1	2	10	10	10	10
RAE International Composite	ILCV	97183C876	-99.0/ 36.8	3.9	96.9	18.0/ 1.5	95.8/ 93.1	0.28	39	28	0.51	ILCV	ILCV	ILCV	ILCV

				Style		ı	Risk/Returr	າ	Peer	Group	Qual		So	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R²	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
Strategy Equivalent			1	1	1	0	0	0	1	1	2	7	7	7	7
PIMCO RAE International	ILCV	PPYIX	-83.3/	18.5	96.7	19.7/	96.9/	-0.06	2.0	34	-	W 6W	ILCV	ILCV	II CV/
Instl			72.7	18.5	96.7	7.4	97.5	-0.06	36	34	0.51	ILCV	ILCV	ILCV	ILCV
												-	-	-	-
International Equity OTS	ILCG	97183K159									-	-	-	-	-
Fishelite Internetional Occali			1	1	1	1	1	1	1	1	2	10	10	10	10
Fidelity International Small Cap	ISMB	FISMX	-48.1/	12.6	93.8	16.9/	97.0/	0.38	25	25	-	ISMB	ISMB	ISMB	ISMB
Cup			-79.5	12.0	30.0	3.0	90.6	0.50	20	20	1.01	IOWID	TOWID	TOWID	TOWID
			1	1	1	1	1	1	1	1	2	10	9	9	9
Fidelity Total Bond Fund	CFI	FTBFX	-5.2/ 34.0	7.1	81.5	4.4/ 1.4	108.4/ 98.3	0.29	17	15	0.45	CFI	CFI	CFI	CFI

<b>.</b>		Ticker/		St	yle			Peer (	Group		Qual		So	ore	
Passive	Asset Class	ID	Style	Style Drift	R <sup>2</sup>	Tracking Error	TE Rank	Expense Rank	Return Rank	SR Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
Block Book Bussell 4000			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock Russell 1000 Index F	LCB-P	06739Q354	3.1/ 99.1	0.9	100.0	0.0	0.0	3.0	35	46	-	LCB-P	LCB-P	LCB-P	LCB-P
Disab Davida Davida III 0000			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock Russell 2000 Index F	SCB-P	06739Q271	0.0/ -99.4	1.6	100.0	0.1	6.0	1.0	42	44	-	SCB-P	SCB-P	SCB-P	SCB-P
Disciple at MOOL A OWN			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock MSCI ACWI ex- U.S. IMI Index F	IE-P	09256V160	3.0/ 44.1	8.1	99.4	1.4	7.0	28.0	16	16	-	IE-P	IE-P	IE-P	IE-P
Disab Davida III O. Dabida Jawa			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock U.S. Debt Index F	CFI-P	06739Q651	-17.1/ 34.3	6.3	100.0	0.1	6.0	10.0	6	10	-	CFI-P	CFI-P	CFI-P	CFI-P

#### continued

<u> </u>		Ticker/		St	yle			Peer (	Group		Qual		Sco	ore	
Passive	Asset Class	ID	Style	Style Drift	R <sup>2</sup>	Tracking Error	TE Rank	Expense Rank	Return Rank	SR Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
Black Book III C. Traccours			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock U.S. Treasury Inflation Protected Sec F	UGT-P	06739Q644	-99.3/ 98.8	0.4	100.0	0.1	18.0	8.0	32	34	-	UGT-P	UGT-P	UGT-P	UGT-P
DisakDaak Lang Cast Dand			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock Long Govt Bond Index F	LOG-P	LONGOVF.brcf	100.0/ 100.0	0.0	99.9	0.5	11.0	0.0	5	3	0.00	LOG-P	LOG-P	LOG-P	LOG-P
Disability of the Community of the Commu			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock Long Term Credit Bond Index Fund A	LTB-P	brlcf.brcf	100.0/ -97.3	2.2	99.8	0.7	6.0	0.0	53	29	0.00	LTB-P	LTB-P	LTB-P	LTB-P
Disch De els lede en esticate												ОТН	7	8	8
BlackRock Intermediate Government Bond Index F	SHG-P	06739Q438									-		SHG-P	SHG-P	SHG-P
Disability of Comment of the			1	1	1	1	1	1	0	1	2	9	10	8	10
BlackRock Commodity Index Daily F	CBB-P	09256V178	99.9/ 99.9	0.2	99.9	0.5	4.0	0.0	87	74	-	СВВ-Р	CBB-P	CBB-P	CBB-P
Block Book Doveland Dove			1	1	1	1	1	1	1	1	2	10	10	10	10
BlackRock Developed Real Estate Index F	GRE-P	09256V855	-10.1/ 91.8	3.5	100.0	0.4	12.0	6.0	9	9	-	GRE-P	GRE-P	GRE-P	GRE-P

#### **Target Date Series**

Asset Allocation	Asset Class	Risk	Allocatio (Series	n Score Funds)	Selectio (Underlyin			Blende	d Score	
7.5557 M.555N.55	7 13331 31333	Index	# of Funds	Avg Score	# of Funds	Avg Score	Q2 2022	Q1 2022	Q4 2021	Q3 2021
JPMorgan SmartRetirement Target Date Series R6	MOD	68	10	5.8	27	9.2	8	7	8	8

#### continued

#### **Selection (Underlying Funds)**

A cont Allered Con	A a sat Olasa	Ticker/		Style		ı	Risk/Returr	1	Peer (	Group	Qual		Sc	ore	
Asset Allocation	Asset Class	ID	Risk Level	Style Diversity	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank		2pt Max/ Expense		Q1 2022	Q4 2021	Q3 2021
			1	0	1	1	1	1	1	1	2	9	9	9	9
JPMorgan Income R6	MSB	JMSFX	6.9	32.1/ 67.9	84.8	6.9/ 2.6	91.4/ 61.2	0.71	14	27	0.40	MSB	MSB	MSB	MSB

				Style			Risk/Returr	ı	Peer	Group	Qual		Sc	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R²	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
JPMorgan Equity Income			1	1	1	1	1	1	1	1	2	10	10	10	10
R6	LCV	OIEJX	-84.4/ 90.9	3.9	98.0	15.9/ 10.0	100.0/ 87.7	1	18	11	0.46	LCV	LCV	LCV	LCV
IDMangan Value			1	1	1	1	1	1	1	1	2	10	10	7	10
JPMorgan Value Advantage R6	LCV	JVAYX	-99.8/ 65.1	10.6	97.3	18.6/ 8.0	104.4/ 101.1	0.26	47	49	0.55	LCV	LCV	LCV	LCV
			1	1	1	1	1	1	1	1	2	10	10	10	10
JPMorgan US Equity R6	LCB	JUEMX	20.5/ 98.9	4.8	98.4	17.6/ 12.6	104.5/ 98.4	0.73	2	1	0.44	LCB	LCB	LCB	LCB
IDM			1	1	1	1	1	1	1	1	2	10	10	10	10
JPMorgan US Research Enhanced Equity R6	LCB	JDEUX	6.5/ 99.6	2.6	99.5	17.4/ 11.9	102.7/ 99.5	0.67	9	5	0.25	LCB	LCB	LCB	LCB
JPMorgan Growth			1	1	1	1	1	1	1	1	2	10	10	10	10
Advantage R6	LCG	JGVVX	100.0/ 60.2	2.7	97.0	20.1/ 15.7	101.4/ 96.3	0.4	5	3	0.55	LCG	LCG	LCG	LCG
IDMannan Creall Can Value			1	1	1	1	0	1	1	1	2	9	8	8	7
JPMorgan Small Cap Value R6	SCV	JSVUX	-95.6/ -90.0	7.2	99.0	22.5/ 4.9	99.0/ 99.1	0.01	29	31	0.76	scv	SCV	SCV	SCV
IDMarray Creell Con			0	1	1	1	1	1	1	1	2	9	9	9	9
JPMorgan Small Cap Equity R6	SCB	VSENX	-18.2/ -26.7	18.1	92.7	20.0/ 7.0	89.5/ 84.0	0.3	21	21	0.74	SCB	SCB	SCB	SCB

# Scorecard<sup>™</sup>

				Style		ا	Risk/Returr	า	Peer	Group	Qual		Sc	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
JPMorgan Small Cap			1	1	1	1	1	1	1	1	2	10	10	10	10
Growth R6	SCG	JGSMX	100.0/ -79.0	13.4	95.6	24.1/ 9.6	115.2/ 98.2	0.94	21	11	0.74	scg	SCG	SCG	scg
IDMonage International			1	1	1	1	1	1	1	1	2	10	10	10	10
JPMorgan International Focus R6	IE	IUENX	45.1/ 38.7	9.9	93.9	16.2/ 2.7	105.3/ 103.8	0.06	17	14	0.55	IE	IE	IE	IE
JPMorgan International			1	1	1	1	1	1	1	1	2	10	10	10	10
Equity R6	ILCB	JNEMX	24.2/ 76.5	14.9	95.5	16.8/ 2.6	112.6/ 109.3	0.11	15	13	0.50	ILCB	ILCB	ILCB	ILCB
JPMorgan International												-	5	5	5
Rsrch Enh Eq R6	ILCB	JEIQX									-		ILCB	ILCB	ILCB
IDManna Emannian			1	1	1	1	1	1	1	1	2	10	10	10	10
JPMorgan Emerging Markets Equity R6	EME	JEMWX	74.3/ -78.2	11.1	90.4	18.6/ 3.5	115.8/ 108.2	0.23	3	3	0.79	EME	EME	EME	EME
JPMorgan Emerging Mkts												HIS	HIS	HIS	HIS
Rsrch Enh Eq R6	EME	EMRSX									-	-	-	-	-
			1	1	1	1	1	1	1	1	2	10	10	10	10
JPMorgan Core Bond R6	CFI	JCBUX	7.3/ 67.9	7.5	96.2	4.0/ 1.4	103.5/ 93.3	0.66	31	10	0.34	CFI	CFI	CFI	CFI
IDM O Div. D			1	1	1	1	1	1	1	1	2	10	10	10	10
JPMorgan Core Plus Bond R6	CFI	JCPUX	2.9/ 46.9	11.8	90.3	4.1/ 1.3	104.4/ 95.8	0.35	31	25	0.38	CFI	CFI	CFI	CFI
JPMorgan Inflation												-	4	4	4
Managed Bond R6	UGT	JIMMX									-	-	UGT	UGT	UGT

# Scorecard<sup>™</sup>

				Style		ı	Risk/Returr	า	Peer	Group	Qual		Sc	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
JPMorgan Short Duration			1	0	0	1	0	1	1	1	1	6	7	7	7
Core Plus R6	STB	JSDRX	-32.2/ -65.4	25.0	38.0	2.9/ 1.4	138.2/ 142.5	0.15	14	17	S 0.33	STB	STB	STB	STB
			1	1	1	1	0	0	1	0	2	7	7	7	7
JPMorgan High Yield R6	HY	JHYUX	96.9/ -96.9	3.7	98.6	8.3/ 1.7	95.5/ 97.7	-0.24	46	66	0.50	НҮ	HY	HY	HY
			1	1	1	1	0	0	1	1	2	8	8	8	8
JPMorgan High Yield Research Enh ETF	HY	JPHY	97.2/ -88.9	3.5	98.1	8.0/ 1.5	91.7/ 96.1	-0.39	21	21	0.24	НҮ	HY	HY	HY
15M 51 (1 5 )			1	1	1	1	0	0	1	0	2	7	7	7	7
JPMorgan Floating Rate Income R6	BL	JPHRX	-82.7/ -89.4	6.3	98.6	6.9/ 1.6	86.5/ 106.4	-1.63	48	68	0.65	BL	BL	BL	BL
JPMorgan Emerging												SPC	SPC	SPC	SPC
Markets Debt R6	SFI	JEMVX									-	-	-	-	-
JPMorgan Emerging												-	SPC	SPC	SPC
Markets Strat Dbt R6	SFI	JECUX									-	-	-	-	-
JPMorgan US Government		11011000										SPC	SPC	SPC	SPC
MMkt IM	MM	MGMXX									-	-	-	-	-
JPMorgan Realty Income												-	10	10	10
R6	REI	JPINX									-	-	REI	REI	REI

#### continued

		Ticker/		St	yle			Peer (	Group		Qual		So	ore	
Passive	Asset Class	ID	Style	Style Drift	R <sup>2</sup>	Tracking Error	TE Rank	Expense Rank	Return Rank	SR Rank	2pt Max/ Expense	(3/ /()//	Q1 2022	Q4 2021	Q3 2021
JPMorgan BetaBuilders US Mid Cap Eq ETF	MCB-P	ВВМС									-	-	-	-	-
JPMorgan BetaBuilders MSCI US REIT ETF	REI-P	BBRE	1 -87.1/ 93.1	1 4.4	99.3	2.0	36.0	16.0	30	31	2 - 0.11	10 REI-P	10 REI-P	10 REI-P	10 REI-P

#### **Target Date Series**

Asset Allocation	Asset Class	Risk	Allocatio (Series	n Score Funds)	Selectio (Underlyii			Blende	d Score	
7.000.7	7 10001 01000	Index	# of Funds	Avg Score	# of Funds	Avg Score	Q2 2022	Q1 2022	Q4 2021	Q3 2021
MFS Lifetime Target Date Series R6	MOD	56	11	10.0	29	8.4	9	9	9	8

#### **Selection (Underlying Funds)**

				Style		١	Risk/Returr		Peer	Group	Qual		Sc	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
MES Blanded Because			1	1	1	1	1	1	0	0	2	8	5	7	8
MFS Blended Research Value Equity R6	LCV	BRUNX	-98.9/ 94.7	4.7	98.9	17.7/ 7.7	102.6/ 100.5	0.28	59	79	0.45	LCV	LCV	LCV	LCV
			1	1	1	1	1	1	1	1	2	10	10	10	10
MFS Value R6	LCV	MEIKX	-77.5/ 93.6	3.1	97.2	16.5/ 7.6	98.7/ 96.9	0.13	24	20	0.45	LCV	LCV	LCV	LCV
MEC Blooded Bassach			1	1	1	1	0	0	1	0	2	7	6	6	6
MFS Blended Research Core Equity R6	LCB	MUEVX	-5.4/ 97.7	5.7	98.6	17.3/ 10.2	97.9/ 101.0	-0.4	43	69	0.42	LCB	LCB	LCB	LCB

# Scorecard<sup>™</sup>

				Style		ı	Risk/Returr	ı	Peer	Group	Qual		So	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
			1	1	1	1	1	0	1	1	2	9	8	9	8
MFS Research R6	LCB	MFRKX	3.2/ 93.6	5.4	98.3	16.4/ 10.8	95.3/ 95.1	-0.08	23	25	0.46	LCB	LCB	LCB	LCB
MFS Blended Research			1	1	1	1	0	0	0	0	2	6	6	6	6
Growth Eq R6	LCG	BRWVX	83.8/ 94.6	4.4	98.7	18.3/ 12.0	91.4/ 98.0	-1.01	61	88	0.45	LCG	LCG	LCG	LCG
			1	1	1	1	0	0	1	1	2	8	8	9	9
MFS Growth R6	LCG	MFEKX	90.7/ 91.5	3.4	96.9	18.0/ 12.8	90.4/ 93.5	-0.44	34	38	0.49	LCG	LCG	LCG	LCG
			1	1	1	1	1	1	1	1	2	10	10	10	10
MFS Mid Cap Value R6	MCV	MVCKX	-93.7/ 8.7	5.8	98.4	19.3/ 7.8	100.6/ 94.6	0.6	14	7	0.64	MCV	MCV	MCV	MCV
MFS Blended Research			0	1	1	1	1	1	1	1	2	9	8	8	8
Mid Cap Eq R6	MCB	BMSYX	-33.2/ 14.5	11.2	97.8	18.7/ 8.0	96.7/ 96.2	0.02	32	42	0.55	МСВ	МСВ	МСВ	МСВ
			1	1	1	1	1	1	1	1	2	10	10	10	10
MFS Mid Cap Growth R6	MCG	OTCKX	88.2/ 11.4	8.2	94.4	18.8/ 10.8	96.4/ 89.0	0.39	35	37	0.65	MCG	MCG	MCG	MCG
MFS New Discovery Value			1	1	1	1	1	1	1	1	2	10	10	10	10
R6	SCV	NDVVX	-95.4/ -51.8	14.0	95.1	22.1/ 9.4	102.1/ 88.1	0.89	5	4	0.83	scv	scv	SCV	scv
MFS Blended Research			0	1	1	1	1	1	1	0	2	8	8	9	8
Small Cap Eq R6	SCB	BRSYX	-36.4/ -72.0	16.7	96.2	21.5/ 6.5	102.6/ 97.9	0.32	50	52	0.70	SCB	SCB	SCB	SCB
			1	1	1	1	1	1	1	1	2	10	10	10	10
MFS New Discovery R6	SCG	MNDKX	97.8/ -53.5	11.5	94.0	21.8/ 9.9	101.8/ 85.5	0.92	15	5	0.89	SCG	SCG	SCG	scg

# Scorecard<sup>™</sup>

				Style		ı	Risk/Returr	ı	Peer	Group	Qual		Sc	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
MFS Blended Research Intl			1	1	1	1	1	1	0	0	2	8	8	8	8
Eq R6	IE	BRXVX	-26.9/ 31.8	13.3	96.5	15.6/ 3.3	100.6/ 97.0	0.27	76	75	0.60	IE	IE	IE	IE
MFS Research International			1	1	1	1	1	1	1	1	2	10	10	10	10
R6	ILCB	MRSKX	25.8/ 45.7	13.0	95.7	14.9/ 4.2	102.6/ 93.5	0.6	4	4	0.66	ILCB	ILCB	ILCB	ILCB
MFS International Growth			1	1	1	1	1	1	1	1	2	10	10	9	9
R6	ILCG	MGRDX	55.6/ 61.1	14.1	93.2	14.3/ 5.7	102.5/ 96.0	0.34	24	26	0.72	ILCG	ILCG	ILCG	ILCG
MFS International Intrinsic			1	1	1	1	1	0	1	1	2	9	9	9	9
Value R6	ILCG	MINJX	86.3/ 72.0	10.5	94.0	13.6/ 4.4	89.1/ 88.8	-0.01	19	19	0.62	ILCG	ILCG	ILCG	ILCG
MFS International New			1	1	1	1	1	1	0	0	2	8	6	6	6
Discovery R6	ISMG	MIDLX	37.1/ -87.4	9.5	94.2	15.2/ 2.2	83.5/ 82.1	0.18	71	77	0.91	ISMG	ISMG	ISMG	ISMG
MFS Blended Research Em			1	1	1	0	0	0	0	0	2	5	5	5	5
Mkts Eq R6	EME	BRKVX	-12.1/ -92.5	10.2	97.1	17.9/ 1.8	101.7/ 102.9	-0.12	82	90	0.95	EME	EME	EME	EME
MEC Emanuina Mankata			1	1	1	0	0	0	0	0	2	5	5	5	5
MFS Emerging Markets Equity R6	EME	MEMJX	-7.3/ -75.6	13.5	94.4	17.8/ 0.0	93.1/ 102.6	-0.51	83	87	0.95	EME	EME	EME	EME
			1	1	0	1	1	1	1	1	2	9	9	9	9
MFS Total Return Bond R6	CFI	MRBKX	-30.5/ 53.5	5.7	79.3	4.9/ 1.2	116.8/ 113.0	0.13	21	24	0.36	CFI	CFI	CFI	CFI
MFS Government			1	1	1	0	0	0	1	1	2	7	10	10	9
Securities R6	IG	MFGKX	18.9/ 19.7	4.3	90.0	3.5/ 0.7	115.0/ 125.5	-0.18	21	17	0.41	IG	IG	IG	IG

				Style		ı	Risk/Returr	ı	Peer	Group	Qual		Sc	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
MEO L CLUI A III A II			1	1	1	0	0	0	1	1	2	7	7	7	7
MFS Inflation-Adjusted Bond R6	UGT	MIAKX	-79.3/ 99.7	4.5	98.5	4.4/ 2.7	94.6/ 101.8	-0.91	34	48	0.41	UGT	UGT	UGT	UGT
			1	1	0	1	1	1	1	1	1	8	8	8	7
MFS Limited Maturity R6	STB	MQLKX	-72.0/ -88.5	14.5	28.6	2.5/ 1.3	112.1/ 101.3	0.12	28	29	S 0.36	STB	STB	STB	STB
			1	1	1	1	0	0	1	1	2	8	8	8	9
MFS High Income R6	HY	MHIKX	77.8/ -91.6	4.4	98.0	7.3/ 1.3	83.7/ 89.6	-0.44	34	28	0.50	нү	HY	HY	HY
			1	1	0	1	1	1	1	1	2	9	10	10	10
MFS Global Opportunistic Bd R6	GFI	MGBOX	-64.9/ 44.3	23.5	79.3	5.3/ 1.0	109.3/ 84.7	0.71	5	3	0.61	GFI	GFI	GFI	GFI
MFS Emerging Markets												SPC	SPC	SPC	SPC
Debt Lcl Ccy R6	SFI	EMLNX									-	-	-	-	-
MFS Emerging Markets												SPC	SPC	SPC	SPC
Debt R6	SFI	MEDHX									-	-	-	-	-
MEC Commodity Strategy			1	1	1	1	1	1	1	1	2	10	10	10	10
MFS Commodity Strategy R6	СВВ	MCSRX	92.2/ 99.5	3.0	97.4	16.3/ 9.2	106.7/ 103.8	0.29	43	37	0.80	СВВ	СВВ	СВВ	СВВ
			1	1	1	1	1	1	1	1	2	10	10	10	10
MFS Global Real Estate R6	GRE	MGLRX	-19.4/ 83.0	6.7	95.9	15.6/ 6.0	103.8/ 85.6	1.02	5	7	0.86	GRE	GRE	GRE	GRE

#### **Target Date Series**

Asset Allocation	Asset Class	Risk		n Score Funds)	Selectio (Underlyii	n Score ng Funds)		Blende	d Score	
, 1000 to 1000	7.5551 5.555	Index	# of Funds	Avg Score	# of Funds	Avg Score	Q2 2022	Q1 2022	Q4 2021	Q3 2021
T. Rowe Price Retire Target Date Series	MOD	71	13	8.7	24	7.1	8	8	8	8

#### **Selection (Underlying Funds)**

		Ticker/		Style			Risk/Return		Peer (	Group	Qual		Sc	ore	
Asset Allocation	Asset Class	ID	Risk Level	Style Diversity	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	SR Rank	2pt Max/ Expense	(J/ /U//	Q1 2022	Q4 2021	Q3 2021
T. David Bridge Bridge			1	0	0	1	0	1	0	1	1	5	6	5	6
T. Rowe Price Dynamic Global Bond Inv	MSB	RPIEX	3.5	100.0/ 0.0	0.0	3.5/ 3.1	302.8/ 12,467.6	0.54	72	20	S 0.70	MSB	MSB	MSB	MSB

				Style		ı	Risk/Returr	า	Peer (	Group	Qual		Sco	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
			1	1	1	1	1	1	1	1	2	10	10	10	10
T. Rowe Price Value	LCV	TRVLX	-71.3/ 82.5	7.6	95.3	16.7/ 8.9	97.7/ 89.7	0.47	11	9	0.65	LCV	LCV	LCV	LCV
T.D. D.: 110.5 "			1	1	1	1	1	1	1	1	2	10	10	10	10
T. Rowe Price U.S. Equity Research	LCB	PRCOX	2.2/ 99.2	1.5	99.6	17.3/ 11.4	100.8/ 99.2	0.38	13	11	0.42	LCB	LCB	LCB	LCB
			1	1	1	1	0	0	1	1	0	6	6	8	8
T. Rowe Price US Large- Cap Core	LCB	TRULX	-7.0/ 92.9	4.6	97.2	16.1/ 10.1	92.0/ 93.9	-0.29	37	38	T 0.64	LCB	LCB	LCB	LCB

# Scorecard<sup>™</sup>

Active	Asset Class	Ticker/ ID	Style			Risk/Return			Peer Group		Qual	Score			
			Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
T. Rowe Price Growth Stock	LCG	PRGFX	1	1	1	0	0	0	0	0	2	5	6	7	8
			98.3/ 64.7	6.3	95.2	20.0/ 8.6	86.6/ 105.5	-1.31	53	54	0.63	LCG	LCG	LCG	LCG
T. Rowe Price Mid-Cap Value	MCV	TRMCX	1	1	1	1	1	1	1	1	0	8	10	8	9
			-85.2/ -2.6	18.5	94.3	19.2/ 7.3	95.4/ 91.1	0.23	35	36	0.77	MCV	MCV	MCV	MCV
T. Rowe Price Mid-Cap Growth	MCG	RPMGX	1	1	1	1	0	0	0	0	2	6	6	7	6
			35.1/ 5.1	10.4	95.0	18.4/ 8.4	84.7/ 84.9	-0.1	76	79	0.72	мсс	MCG	MCG	MCG
T. Rowe Price New Horizons	MCG	PRNHX	1	1	1	1	1	1	1	1	1	9	9	9	9
			96.6/ -3.5	14.3	90.0	21.3/ 11.4	105.1/ 96.0	0.38	2	3	0.75	MCG	MCG	MCG	MCG
T. Rowe Price Small-Cap Value	SCB	PRSVX	0	1	1	1	1	1	1	1	2	9	9	9	9
			-52.6/ -51.8	15.3	94.5	20.2/ 6.7	94.0/ 89.5	0.28	32	33	0.78	SCB	SCB	SCB	SCB
T. Rowe Price Small-Cap Stock	SCG	OTCFX	0	1	1	1	1	1	1	0	2	8	9	9	8
			19.9/ -40.9	13.6	93.8	19.3/ 9.1	88.9/ 75.8	0.69	48	52	0.85	scg	SCG	SCG	scg
T. Rowe Price International Value Eq	ILCV	TRIGX	1	0	1	1	1	1	1	1	1	8	9	9	6
			-93.9/ 44.3	23.7	96.2	18.2/ 0.9	100.0/ 99.1	0.07	29	12	T 0.79	ILCV	ILCV	ILCV	ILCV
T. Rowe Price Overseas Stock	ILCB	TROSX	1	1	1	1	1	1	1	1	2	10	10	10	10
			-26.2/ 17.1	14.5	96.5	16.9/ 2.5	105.1/ 103.0	0.1	32	32	0.77	ILCB	ILCB	ILCB	ILCB
T. Rowe Price International Stock	ILCG	PRITX	1	0	1	0	0	0	0	0	2	4	4	4	4
			13.9/ 7.5	20.9	82.8	15.5/ 2.8	93.9/ 101.9	-0.25	66	63	0.77	ILCG	ILCG	ILCG	ILCG

# Scorecard<sup>™</sup>

### continued

				Style		ı	Risk/Returr	ı	Peer	Group	Qual		Sc	ore	
Active	Asset Class	Ticker/ ID	Style	Style Drift	R <sup>2</sup>	Risk/ Return	Up/ Down	Info Ratio	Return Rank	Info Ratio Rank	2pt Max/ Expense	Q2 2022	Q1 2022	Q4 2021	Q3 2021
T. Rowe Price Em Mkts			1	1	1	1	1	1	0	0	2	8	5	5	5
Discv Stk	EME	PRIJX	-92.8/ -90.4	11.6	86.7	19.0/ 2.7	103.6/ 101.2	0.07	81	76	1.13	EME	EME	EME	EME
T. Rowe Price Emerging			1	1	1	0	0	0	0	0	0	3	3	5	7
Markets Stock	EME	PRMSX	13.2/ -99.4	5.8	93.9	17.8/ 1.3	99.6/ 103.3	-0.2	63	61	T 1.11	EME	EME	EME	EME
			1	1	1	0	0	0	0	0	2	5	4	4	4
T. Rowe Price Real Assets	GE	PRAFX	-45.1/ 24.3	21.2	83.5	18.0/ 5.7	92.6/ 97.6	-0.17	78	65	0.85	GE	GE	GE	GE
			1	1	0	0	0	0	0	0	2	4	4	4	4
T. Rowe Price New Income	CFI	PRCIX	-63.9/ 49.4	10.3	73.6	4.9/ 0.6	107.3/ 114.5	-0.12	68	63	0.41	CFI	CFI	CFI	CFI
T. David Delay Ltd Downlast			0	1	0	1	1	0	0	1	0	4	4	4	4
T. Rowe Price Ltd Dur Infl Focus Bd	UGT	TRBFX	-16.5/ 16.5	7.3	61.5	2.5/ 3.0	57.2/ 34.6	-0.09	88	49	T/S 0.39	UGT	UGT	UGT	UGT
			1	1	1	1	0	0	1	1	1	7	7	7	7
T. Rowe Price High Yield	HY	PRHYX	91.5/ -91.5	5.1	98.6	8.4/ 1.5	93.7/ 98.7	-0.49	27	29	T 0.70	НҮ	HY	HY	HY
T. David Drive Florida			1	1	1	1	0	0	1	1	2	8	8	8	8
T. Rowe Price Floating Rate	BL	PRFRX	-72.0/ -75.3	5.6	97.8	5.9/ 2.3	82.3/ 87.4	-0.52	23	19	0.76	BL	BL	BL	BL
T. Rowe Price Intl Bd (USD											-	-	-	-	
Hdgd)	GFI	TNIBX									-	-	-	-	-
T. Rowe Price Emerging	SFI	DDEMY										SPC	SPC	SPC	SPC
Markets Bond	SFI	PREMX									-	-	-	-	-

### **Scorecard**™

### continued

5		Ticker/	Style		Peer Group			Qual	Score						
Passive	Asset Class	ID	Style	Style Drift	R <sup>2</sup>	Tracking Error	TE Rank	Expense Rank	Return Rank	SR Rank	2pt Max/ Expense	(コンラロンス	Q1 2022	Q4 2021	Q3 2021
T.B. D. E			1	1	1	1	1	1	1	1	2	10	10	10	10
1 1	T. Rowe Price Equity Index LCB-P	PREIX	2.9/	2.4	99.7	1.2	49.0	25.0	23	23	-	LCB-P	LCB-P	LCB-P	LCB-P
300			98.0	2.4	99.7	99.7	.2 49.0	49.0 25.0	23.0 23	23	0.15	LCB-P			
T. David Bridge HO Tree			1	1	1	1	1	1	1	1	2	10	10	10	10
T. Rowe Price US Trs LongTerm Idx	LOG-P	PRULX	100.0/ 100.0	0.0	99.7	0.9	70.0	69.0	59	67	0.23	LOG-P	LOG-P	LOG-P	LOG-P

### Disclosure

The CIT exclusively available to RPAG utilizes the same manager and strategy as the Scored fund equivalent, which is highlighted and shown below the CIT option. The Scored fund equivalent generally has a higher fee and is shown for CIT investment due diligence purposes only. The average score includes Strategy Equivalent scores where utilized. For Group Series funds, if Strategy Equivalents are included, the specific Strategy Equivalent(s) within each given series will be indicated in the Allocation (Series Funds) and/or Selection (Underlying Funds) section(s) within the detailed report.Non-scoring funds will be assigned a letter.; The letter definitions are HIS= fund does not have enough performance history to Score; SPC= fund is in a specialty category that does not Score; OTH= fund may no longer be active, not in database or available to Score.

ACR#5821538 07/23

<sup>\*</sup>Strategy Equivalent Score

BlackRock LifePath Index Target Date Series K: Underlying Funds

U.S. Large Cap	U.S. Mid/Small Cap	International Large Cap Equity
iShares Russell 1000 Large-Cap ldx K (10)	iShares Russell 2000 Small-Cap ldx K (10)	iShares Core MSCI Total Intl Stk ETF (10)
International Mid/Small Cap Equity	REITs	Commodities
	iShares Developed Real Estate ldx K (10)	
Core Fixed Income	Other Fixed Income	Specialty/Other
iShares US Aggregate Bond Index K (10)	iShares TIPS Bond ETF (7)	

FlexFit+: Underlying Funds

U.S. Large Cap	U.S. Mid/Small Cap	International Large Cap Equity
BlackRock Russell 1000 Index F (10) Fidelity Large Cap Value Enhanced Index (10) Fidelity Blue Chip Growth K (8)	BlackRock Russell 2000 Index F (10) Fidelity Small Cap Growth (10) Fidelity Small Cap Value (8)	BlackRock MSCI ACWI ex-U.S. IMI Index F (10) RAE International Composite (10) International Equity OTS
International Mid/Small Cap Equity	REITs	Commodities
Fidelity International Small Cap (10)	BlackRock Developed Real Estate Index F (10)	BlackRock Commodity Index Daily F (9)
Core Fixed Income BlackRock U.S. Debt Index F (10) Fidelity Total Bond Fund (10)	Other Fixed Income  BlackRock Long Govt Bond Index F (10)  BlackRock Long Term Credit Bond Index Fund A (10)  BlackRock U.S. Treasury Inflation Protected Sec F (10)  BlackRock Intermediate Government Bond Index F	Specialty/Other

### flexFIT+ Moderate Target Date Series Fund Class R1: Underlying Funds

U.S. Large Cap	U.S. Mid/Small Cap	International Large Cap Equity
BlackRock Russell 1000 Index F (10) Fidelity Large Cap Value Enhanced Index (10) Fidelity Blue Chip Growth K (8)	BlackRock Russell 2000 Index F (10) Fidelity Small Cap Growth (10) Fidelity Small Cap Value (8)	BlackRock MSCI ACWI ex-U.S. IMI Index F (10) RAE International Composite (10) International Equity OTS
International Mid/Small Cap Equity	REITs	Commodities
Fidelity International Small Cap (10)	BlackRock Developed Real Estate Index F (10)	BlackRock Commodity Index Daily F (9)
Core Fixed Income	Other Fixed Income	Specialty/Other
BlackRock U.S. Debt Index F (10) Fidelity Total Bond Fund (10)	BlackRock Long Govt Bond Index F (10) BlackRock Long Term Credit Bond Index Fund A (10) BlackRock U.S. Treasury Inflation Protected Sec F (10) BlackRock Intermediate Government Bond Index F	

### JPMorgan SmartRetirement Target Date Series R6: Underlying Funds

U.S. Large Cap	U.S. Mid/Small Cap	International Large Cap Equity		
JPMorgan Equity Income R6 (10) JPMorgan Growth Advantage R6 (10) JPMorgan US Equity R6 (10) JPMorgan US Research Enhanced Equity R6 (10) JPMorgan Value Advantage R6 (10)	JPMorgan Small Cap Growth R6 (10) JPMorgan Small Cap Equity R6 (9) JPMorgan Small Cap Value R6 (9) JPMorgan BetaBuilders US Mid Cap Eq ETF	JPMorgan International Equity R6 (10) JPMorgan International Focus R6 (10) JPMorgan International Rsrch Enh Eq R6		
International Mid/Small Cap Equity	REITs	Commodities		
TROTHERONAL WIRD/STHAIR CAP Equity	JPMorgan BetaBuilders MSCI US REIT ETF (10) JPMorgan Realty Income R6	Commodities		
Core Fixed Income	Other Fixed Income	Specialty/Other		
JPMorgan Core Bond R6 (10) JPMorgan Core Plus Bond R6 (10)	JPMorgan Income R6 (9)  JPMorgan High Yield Research Enh ETF (8)  JPMorgan Floating Rate Income R6 (7)  JPMorgan High Yield R6 (7)  JPMorgan Short Duration Core Plus R6 (6)  JPMorgan Emerging Markets Debt R6  JPMorgan Emerging Markets Strat Dbt R6  JPMorgan Inflation Managed Bond R6  JPMorgan US Government MMkt IM	JPMorgan Emerging Markets Equity R6 (10) JPMorgan Emerging Mkts Rsrch Enh Eq R6		

### MFS Lifetime Target Date Series R6: Underlying Funds

U.S. Large Cap	U.S. Mid/Small Cap	International Large Cap Equity		
MFS Value R6 (10) MFS Research R6 (9) MFS Blended Research Value Equity R6 (8) MFS Growth R6 (8) MFS Blended Research Core Equity R6 (7) MFS Blended Research Growth Eq R6 (6)	MFS Mid Cap Growth R6 (10) MFS Mid Cap Value R6 (10) MFS New Discovery R6 (10) MFS New Discovery Value R6 (10) MFS New Discovery Value R6 (10) MFS Blended Research Mid Cap Eq R6 (9) MFS Blended Research Small Cap Eq R6 (8)	MFS International Growth R6 (10) MFS Research International R6 (10) MFS International Intrinsic Value R6 (9) MFS Blended Research Intl Eq R6 (8)		
International Mid/Small Cap Equity  MFS International New Discovery R6 (8)	REITs  MFS Global Real Estate R6 (10)	Commodities  MFS Commodity Strategy R6 (10)		
Core Fixed Income	Other Fixed Income	Specialty/Other		
MFS Total Return Bond R6 (9)	MFS Global Opportunistic Bd R6 (9) MFS High Income R6 (8) MFS Limited Maturity R6 (8) MFS Government Securities R6 (7) MFS Inflation-Adjusted Bond R6 (7) MFS Emerging Markets Debt Lcl Ccy R6 MFS Emerging Markets Debt R6	MFS Blended Research Em Mkts Eq R6 (5) MFS Emerging Markets Equity R6 (5)		

T. Rowe Price Retire Target Date Series: Underlying Funds

1. Rowe Price Retire Target Date Series. Underlying Funds						
U.S. Large Cap	U.S. Mid/Small Cap	International Large Cap Equity				
T. Rowe Price Equity Index 500 (10) T. Rowe Price U.S. Equity Research (10) T. Rowe Price Value (10) T. Rowe Price US Large-Cap Core (6) T. Rowe Price Growth Stock (5)	T. Rowe Price New Horizons (9) T. Rowe Price Small-Cap Value (9) T. Rowe Price Mid-Cap Value (8) T. Rowe Price Small-Cap Stock (8) T. Rowe Price Mid-Cap Growth (6)	T. Rowe Price Overseas Stock (10) T. Rowe Price International Value Eq (8) T. Rowe Price International Stock (4)				
International Mid/Small Cap Equity	REITs	Commodities				
Core Fixed Income  T. Rowe Price New Income (4)	Other Fixed Income  T. Rowe Price US Trs LongTerm Idx (10)  T. Rowe Price Floating Rate (8)  T. Rowe Price High Yield (7)  T. Rowe Price Dynamic Global Bond Inv (5)  T. Rowe Price Ltd Dur Infl Focus Bd (4)  T. Rowe Price Emerging Markets Bond  T. Rowe Price Intl Bd (USD Hdgd)	Specialty/Other  T. Rowe Price Em Mkts Discv Stk (8) T. Rowe Price Real Assets (5) T. Rowe Price Emerging Markets Stock (3)				

### **Distribution of Participant Savings Rates**

Savings rate is a primary driver of funded status for a participant, and can thus be a good indicator of the optimal amount of risk that participant should assume. Higher savings rates allow for more conservative investing while lower savings rates require more aggressive investing in order to potentially achieve higher income replacement in retirement.



<sup>&</sup>lt;sup>1</sup>Best-fit risk postures are based solely on funding adequacy. Conservative: RPAG Risk Index less than or equal to 54. Moderate: RPAG Risk Index between 55-69. Aggressive: RPAG Risk Index greater than or equal to 70.

For Illustrative Purposes Only

## **Asset Class Coverage**

	Blackrock LifePath Index MF	JPMorgan SmartRetirement	MFS Lifetime	T. Rowe Price Retire Target Date Series	FlexFit+
US Large Equity	/	1	1	1	1
US Mid Equity	*	<b>√</b>	1	1	*
US Small Equity	/	✓	1	1	1
International Equity	/	✓	1	1	1
Emerging Market Equity	*	✓	1	1	*
US Fixed Income	/	✓	1	1	✓
US Tips	/	✓	1	1	1
International Fixed Income			1	1	*
REITs	<b>✓</b>	/	1	*	/
Commodities			1	*	✓

### Source: Morningstar

Information is for illustrative purposes only and cannot be guaranteed now or in the future

Direct Asset Class Exposure ( ): Designated fund in the specified asset class as an underlying investment

Indirect Asset Class Exposure (\*): Asset class exposure is captured in a fund that is not the direct asset class in question

No Asset Class Exposure (blank): No asset class coverage by any funds in the underlying investments

# **Asset Class Coverage**

	flexFIT+ Moderate
US Large Equity	·
US Mid Equity	*
US Small Equity	·
International Equity	✓
Emerging Market Equity	*
US Fixed Income	✓
US Tips	·
International Fixed Income	*
REITs	/
Commodities	·

### Source: Morningstar

Information is for illustrative purposes only and cannot be guaranteed now or in the future

Direct Asset Class Exposure ( 🗸 ): Designated fund in the specified asset class as an underlying investment

Indirect Asset Class Exposure (\*): Asset class exposure is captured in a fund that is not the direct asset class in question

No Asset Class Exposure (blank): No asset class coverage by any funds in the underlying investments

# Appendix

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The principal value of the funds is not guaranteed at any time including at and after the target date. Asset allocation models and diversification do not promise any level of performance or guarantee against loss of principal. Investment in the funds is subject to the risks of the underlying funds.

The target date is the approximate date when investors plan to start withdrawing their money. Generally, the asset allocation of each fund will change on an annual basis with the asset allocation becoming more conservative as the fund nears the target retirement date.

The TDF Series included in the TDF Analyzer are mutual fund and CIT vehicles that are included in the RPAG Practice Management Portal (PMP) system, which may not include all TDF Series in the universe. Those TDFs not considered may have characteristics similar or superior to those being analyzed. The RPAG PMP system is an online technology platform for retirement advisors and delivers quantitative and qualitative metrics on 25,000+ funds and dozens of investment platforms. Data included in the RPAG PMP system is gathered from Morningstar or directly from the fund company. Data is updated periodically to reflect changes in glidepath allocations. The TDFs included in the industry are subject to change.

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