

ARCHITECTS OF INVESTMENT SOLUTIONS





State of North Carolina

JUNE 20, 2019

STATE OF NORTH CAROLINA

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SECTION I

GALLIARD CAPITAL MANAGEMENT WHO WE ARE

\$92.0 B

TOTAL AUM

\$78.2 B TOTAL STABLE VALUE AUM

95+ STABLE VALUE SEPARATE ACCOUNTS

104 Employees on staff

SENIOR PROFESSIONALS AVERAGE YEARS OF EXPERIENCE:

Stable value portfolio management team – 25

Fixed income team – 21

Contract management & negotiation team - 25

Offer **separate account** and **collective fund** solutions for clients

230+

INSTITUTIONAL CLIENTS

CLIENT RELATIONSHIP TENURE



~75% of our clients have worked with Galliard for greater than 5 years

29 of those relationships exceed 15 years with Galliard

CLIENT TYPES

- Corporate
 Public Entities
- Taft-Hartley Operating Funds •
- Healthcare
 Insurance Reserves
 - Foundations/ Endowments

FORTUNE 100 / 500

24 Fortune 100 clients; 62 Fortune 500 clients

G A L L I A R D HIGHLIGHTS

Galliard is the **largest** stable value separate account manager¹ and advises the **largest** stable value collective fund² in the nation

¹eVestment, Stable Value Fixed Income universe, as of December 31, 2018, Galliard ranked highest separate/segregated assets under management

²As ranked by the Hueler Analytics, Inc. © stable value universe; January 2018 monthly fund data

Galliard has been a signatory to the United Nations-supported **Principles for Responsible Investment** since 2017

2019 NEW BUSINESS

3 new clients; \$534 M new assets

Data as of 3/31/19



SECTION II

First Quarter 2019

STATE OF NORTH CAROLINA STABLE VALUE FUND

ACCOUNT SUMMARY

Benchmark	ICE BofAML US 3-Month Tsy Bill Index+150 bps, 3 Year Constant Maturity Treasury
Galliard Inception Date	December 1, 2010
Net Asset Value	\$2,085,319,763

HISTORICAL FUND ASSETS



PORTFOLIO CHARACTERISTICS

	Portfolio 12/31/18	Portfolio 3/31/19
Average Quality - Book Value ¹	A+	A+
Average Quality - Market Value ²	AA	AA
Number of Contract Issuers	5	5
Blended Yield (after all fees) ³	2.41%	2.54%
Yield to Maturity	3.22%	2.84%
Effective Duration	3.18 years	3.10 years
Market/Book Value Ratio	98.83%	100.26%

PORTFOLIO DISTRIBUTION

	% Portfolio 12/31/18	% Portfolio 3/31/19
Liquidity Buffer: Cash & Equivalents ⁴	1.8	1.9
Short Portfolio	32.9	32.7
Intermediate Portfolio	65.3	65.4
Total	100.0%5	100.0%5

1: Average holdings quality of the contracts and other book value assets in the portfolio. The Weighted Average Quality of the portfolio has NOT been assessed by a nationally recognized statistical rating organization. The Weighted Average Quality shown represents an average quality of the individual holdings' Composite Ratings, as rated by S&P, Moody's and Fitch.

2: Average holdings quality of the underlying assets of the portfolio. The Weighted Average Quality of the portfolio has NOT been assessed by a nationally recognized statistical rating organization. The Weighted Average Quality shown represents an average quality of the individual holdings' Composite Ratings, as rated by S&P, Moody's and Fitch.

3: Blended Yield is net of all fees, including book value contract fees, Galliard investment management fees, and, if applicable, external manager fees, Wells Fargo collective fund administrative fees, and plan administrative reimbursement.

4: Includes Receivables and Payables.

5: Total % of portfolio may not add to 100% due to rounding.

First Quarter 2019



Book Value Performance	1 Mo.	3 Mo.	1 Yr.	3 Yr.	5 Yr.	Since Inception⁵
Portfolio (net of all fees - NAV level) ^{2,3}	0.21	0.53	2.29	2.10	2.00	2.27
3 Year Constant Maturity Treasury	0.20	0.61	2.66	1.85	1.51	1.14
Benchmark ⁴	0.35	0.98	3.66	2.72	2.27	2.00
Value Added (net of all fees - NAV level)6	0.02	(0.08)	(0.37)	0.25	0.49	1.13

1: Returns for periods of less than one year are not annualized.

2: Returns are net of all fees, including book value contract fees, Galliard investment management fees, and, if applicable, external manager fees, Wells Fargo collective fund administrative fees, and plan administrative reimbursement.

3: Galliard assumed management of this portfolio on December 1, 2010. Performance for periods referenced prior to this date include historical performance of another investment advisor.

4: ICE BofAML US 3-Month Tsy Bill Index+150 bps

5: Galliard assumed management of this portfolio on Dec 01, 2010. Performance for periods referenced prior to this date include historical performance of another investment advisor.

6: May not add due to rounding.

First Quarter 2019



	2015	2016	2017	2018	1Q'19
Beginning Assets	\$1,904.2	\$1,948.6	\$2,472.8	\$2,535.1	\$2,069.8
Net Cash Flow (\$) ¹	\$8.8	\$81.5 ⁴	\$12.2	\$6.9 ³	\$2.9
Net Cash Flow (%)	0.46%	4.18%	0.49%	0.27%	0.14%
Estimated Investment Earnings	\$35.7	\$46.9	\$50.1	\$51.6	\$12.6
Ending Assets ²	\$1,948.6	\$2,472.8	\$2,535.1	\$2,069.8	\$2,085.3

1: Contributions, Withdrawals and Investment Transfers

2: Cashflows may not net to final assets due to rounding.

3: Excludes Prudential GoalMaker withdrawal of approximately \$523.8 M on 6/8/18 for illustrative purposes.

4: Approximately \$395.8 M of new inflow and transfer activity related to the 1/4/16 merger of North Carolina 457 plan assets have been removed for illustrative purposes.

First Quarter 2019

HISTORICAL DURATION



HISTORICAL MARKET VALUE TO BOOK VALUE RATIO



HISTORICAL UNDERLYING YIELD TO MATURITY



1: Blended Yield is net of all fees, including book value contract fees, Galliard investment management fees, and, if applicable, external manager fees, Wells Fargo collective fund administrative fees, and plan administrative reimbursement.

First Quarter 2019

CONTRACT ISSUER DISTRIBUTION & RATING SUMMARY¹

	% Portfolio 12/31/18	% Portfolio 3/31/19	Rating 12/31/18	Rating 3/31/19
American General Life Ins. Co.	20.1	20.1	A+	A+
Metropolitan Life Ins. Co.	10.6	10.6	AA-	AA-
Nationwide Life Ins. Co.	17.9	17.9	A+	A+
Prudential Ins. Co. of America	25.3	25.3	AA-	AA-
Transamerica Premier Life Ins. Co.	24.4	24.4	A+	A+

1: The quality rating shown represents the individual holdings' Composite Ratings, as rated by S&P, Moody's and Fitch. Ratings shown as NR/NA are not rated or not available security ratings.

STATE OF NORTH CAROLINA STABLE VALUE FUND PORTFOLIO HOLDINGS

March 31, 2019

Asset ID	Security Description	Contract ¹ Type	Manager	Contract Value (\$)	Market Value (\$)	Market/Book Value Ratio (%)	% of Portfolio	Crediting Rate (%) ²	UCA Yield (%)		Galliard Composite Rating	Wrap Fees (bps)
LIQUIDITY BU	JFFER											
	Cash Receivable / (Payable)			-1,361,148	-1,361,148	100.0	-0.1	2.63	2.63	0.10	AAA	
9983008\$P	WF/BlackRock Short Term Investment Fund S			40,268,678	40,268,678	100.0	1.9	2.63	2.63	0.10	AAA	
TOTAL LIQUI	DITY BUFFER			38,907,529	38,907,529	100.0	1.9	2.63	2.63	0.10	AAA	
SHORT PORT	FOLIO											
946996EE1	American General Life Ins. Co.	SBIC	Galliard	205,144,167	205,764,980	100.3	9.8	2.67	2.72	1.86	A+	18.0
896994GW4	Nationwide Life Ins. Co.	SBIC	Galliard	175,882,605	176,472,837	100.3	8.4	2.68	2.72	1.86	A+	17.0
744999CV3	Prudential Ins. Co. of America	SBIC	Galliard	104,604,548	105,663,194	101.0	5.0	2.87	2.72	1.86	AA-	17.0
600996QF2	Transamerica Premier Life Ins. Co.	SBIC	Galliard	196,510,459	195,368,168	99.4	9.4	2.39	2.72	1.86	A+	17.0
TOTAL SHOR	T PORTFOLIO			682,141,779	683,269,180	100.2	32.7	2.62	2.72	1.86	A+	
INTERMEDIA	TE PORTFOLIO											
590994VM8	Metropolitan Life Ins. Co.	SAGIC	Dodge & Cox	220,525,035	221,003,776	100.2	10.6	2.77	3.14	3.46	AA-	19.0
946996EE1	American General Life Ins. Co.	SBIC	Payden & Rygel	213,264,584	213,909,972	100.3	10.2	2.67	2.94	3.73	A+	18.0
896994GW4	Nationwide Life Ins. Co.	SBIC	Galliard	196,588,185	197,247,902	100.3	9.4	2.68	2.99	3.80	A+	17.0
744999CV3	Prudential Ins. Co. of America	SBIC	Jennison Assoc.	210,757,513	212,890,477	101.0	10.1	2.87	2.57	4.04	AA-	17.0
744999CV3	Prudential Ins. Co. of America	SBIC	Prudential	211,398,961	213,538,416	101.0	10.1	2.87	3.05	3.83	AA-	17.0
600996QF2	Transamerica Premier Life Ins. Co.	SBIC	Galliard	98,463,658	97,891,301	99.4	4.7	2.39	2.99	3.80	A+	17.0
600996QF2	Transamerica Premier Life Ins. Co.	SBIC	TCW	213,272,519	212,032,793	99.4	10.2	2.39	2.70	4.01	A+	17.0
TOTAL INTER	RMEDIATE PORTFOLIO			1,364,270,455	1,368,514,636	100.3	65.4	2.69	2.91	3.81	A+	
TOTAL PORT	FOLIO			2,085,319,763	2,090,691,345	100.3	100.0	2.66	2.84	3.10	A+	

APPENDIX - STATE OF NORTH CAROLINA STABLE VALUE FUND

First Quarter 2019

TOTAL ANNUAL FUND OPERATING EXPENSES

Total Annual Operating Expenses are deducted directly from the Fund's net asset value and reduce the investment option's rate of return.

Expense	Expense Ratio 3/31/19	Per \$1000	Est. Annual Revenue
Investment Management Fees paid to Galliard	0.073%	\$0.73	\$1,529,791
Investment Management fees paid to Non-Affiliated Investment Advisors	0.058%	\$0.58	\$1,209,422
Investment Contract Fees1	0.171%	\$1.71	\$3,564,847
Acquired Fund Fees ²	0.002%	\$0.02	\$32,215
-Investment Contract Fees	None	None	None
-Other Acquired Fund Fees and Non-Affiliated Investment Management Fees paid to Non-Affiliated Investment Advisors ³	0.002%	\$0.02	\$32,215
12b-1 Distribution Fee	None	None	None
Other Expenses	0.002%	\$0.02	\$42,184
Total Annual Fund Operating Expenses ⁴	0.306%	\$3.06	\$6,378,458

1: These are fees paid to create and maintain the investments used by a stable value fund.

2: These are fees borne indirectly by the Fund when it acquires an interest in another fund which pays its own separate fees.

3: Includes audit fees for the cost of producing a report by a qualified auditor.

4: Total Annual Fund Operating Expenses are reflected daily in the Fund's net asset value (NAV).

Excluding STIF or money market allocations, non-affiliated investment advisors include Dodge & Cox , Jennison Assoc., Payden & Rygel, Prudential, TCW.

SECTION III

STATE OF NORTH CAROLINA STABLE VALUE FUND MANAGER STYLES

	Investment Approach	Sector Rotation	Active Duration/ Yield Curve Mgmt.	Issue Selection	S E C T O R E M P H A S I S
G A L L I A R D	Bottom Top Up Down	Low High	Low High	Less More Important	Diversified high quality spread sector emphasis, multi-sector relative value
DODGE & COX	Bottom Top Up Down	Low High	Low High	Less More Important	Corporate credit, Agency MBS
T C W	Bottom Top Up Down	Low High	Low High	Less More Important	Duration, structured credit, multi-sector relative value
J E N N I S O N	Bottom Top Up Down	Low High	Low High	Less More Important	Credit, yield-curve positioning
PAYDEN & RYGEL	Bottom Top Up Down	Low High	Low High	Less More Important	Corporate credit, structured credit, multi-sector relative value
P R U D E N T I A L	Bottom Top Up Down	Low High	Low High	Less More Important	Multi-sector relative value, Agency MBS, global focus



PORTFOLIO AS OF 3/31/19

MANAGER ALLOCATION



TOTAL PORTFOLIO	100%
TOTAL EXT. MANAGER	51.2%
Prudential	10.1%
Payden & Rygel	10.2%
Jennison	10.1%
ТСѠ	10.2%
Dodge & Cox	10.6%
Galliard	46.8%
STIF	1.9%

UNDERLYING FIXED INCOME SECTOR ALLOCATION



U.S. Tsy/Agy	22.9%
Other U.S. Gov't	5.6%
Agy MBS	18.4%
Non-Agy MBS	0.8%
CMBS	3.0%
ABS	13.2%
Corporates	31.2%
Tax Muni/Not-for-Profit	2.4%
Sov/Supra	0.5%
Cash/Equiv.	2.0%

UNDERLYING DURATION DISTRIBUTION



0-1 Yrs	15.3%
1-3 Yrs	39.3%
3-5 Yrs	27.4%
5+ Yrs	18.0%

MARKET VALUE PERFORMANCE SUMMARY AS OF 3/31/19

Bloomberg Barclays U.S. 1-3 Yr. Government/Credit 0.66% 1.21% - - 2.75% 0.05% 0.31% - - 0.44% INTERMEDIATE DURATION Manager 1 Month 3 Months 1 Year 3 Years 5 Years Since Inception Inception Dodge & Cox 1.47% 2.93% 4.47% 2.36% - 2.27% 3/1/2015 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.91% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.52% 6/1/2018 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.32% 4.42% 1.66% 2.12% 4.79%	Manager	1 Month	3 Months	1 Year	3 Years	5 Years	Since Inception	Inception
0.05% 0.31% - - 0.44% INTERMEDIATE DURATION Manager 1 Month 3 Months 1 Year 3 Years 5 Years Since Inception Inception Dodge & Cox 1.47% 2.93% 4.47% 2.36% - 2.27% 3///2015 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.91% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - - 4.52% 6/1/2018 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - - 4.21% - - 0.31% - - - 4.52% 6/1/2018 Bloomberg Barclays U.S. Intermediate Aggregate 1.32% 2.28% - - - 0.31% -///2009 0.34% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02%	Galliard*	0.71%	1.52%	-	-	-	3.19%	6/1/2018
INTERMEDIATE DURATION Manager 1 Month 3 Months 1 Year 3 Years 5 Years Since Inception Inception Dodge & Cox 1.47% 2.93% 4.47% 2.36% - 2.27% 3/1/2015 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.91% Galliard 1.46% 2.58% - - 4.52% 6/1/2018 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 0.31% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.29% 1.95% 2.46% 4.81% 5/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Oredit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39%	Bloomberg Barclays U.S. 1-3 Yr. Government/Credit	0.66%	<u>1.21%</u>	-	-	-	<u>2.75%</u>	
Manager 1 Month 3 Months 1 Year 3 Years 5 Years Since Inception Inception Dodge & Cox 1.47% 2.93% 4.47% 2.36% - 2.27% 3/1/2015 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.91% Galliard 1.46% 2.58% - - 4.52% 6/1/2018 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% O.07% 0.30% - - 0.31% - 0.31% Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.43% 1.71% 1.63% 2.11%		0.05%	0.31%	-	-	-	0.44%	
Dodge & Cox 1.47% 2.93% 4.47% 2.36% - 2.27% 3/1/2015 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.91% Galliard 1.46% 2.58% - - 4.52% 6/1/2018 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 0.31% Bloomberg Barclays U.S. Intermediate Govt/Credit 1.32% 2.20% 4.29% 1.95% 2.46% 4.81% 5/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.43% 1.71% <t< td=""><td>INTERMEDIATE DURATION</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	INTERMEDIATE DURATION							
Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.91% Galliard 1.46% 2.58% - - 4.52% 6/1/2018 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% 0.07% 0.30% - - 0.31% - 0.31% Jennison** 1.32% 2.20% 4.29% 1.95% 2.46% 4.81% 5/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% -0.03% -0.12% 0.05% 0.29% 0.34% 0.02% Payden & Rygel 1.34% 2.35% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% -0.05% 0.07% 0.00% 0.32% 0.19% 0.50% 2/1/2016 Bloomberg Barclays U.S. Intermed	Manager	1 Month	3 Months	1 Year	3 Years	5 Years	Since Inception	Inception
0.08% 0.65% 0.14% 0.65% - 0.36% Galliard 1.46% 2.58% - - 4.52% 6/1/2018 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% 0.07% 0.30% - - 0.31% - - 0.31% Plennison** 1.32% 2.20% 4.29% 1.95% 2.46% 4.81% 5/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% -0.03% -0.12% 0.05% 0.29% 0.34% 0.02% Payden & Rygel 1.34% 2.35% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.49% 1.71% 1.95% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% 1.95% Bloomberg Barclays U.S. Intermediate Aggregate	Dodge & Cox	1.47%	2.93%	4.47%	2.36%	-	2.27%	3/1/2015
Gallard 1.46% 2.58% - - 4.52% 6/1/2018 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - 4.21% 0.31% Jennison** 1.32% 2.20% 4.29% 1.95% 2.46% 4.81% 5/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% -0.03% -0.12% 0.05% 0.29% 0.34% 0.02% 7/1/2009 Payden & Rygel 1.34% 2.35% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Prudential 1.36% 2.51% 4.62% 2.23% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% 1.95% CO.03% 0.23% 0.29% 0.52% - 0.63% CO.03% 0.23%	Bloomberg Barclays U.S. Intermediate Aggregate	<u>1.39%</u>	<u>2.28%</u>	4.33%	<u>1.71%</u>	-	<u>1.91%</u>	
Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% - - - 4.21% Ionson** 1.32% 2.20% 4.29% 1.95% 2.46% 4.81% 5/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% Payden & Rygel 1.34% 2.35% 4.49% 1.79% 0.34% 0.02% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.43% 1.71% 1.95% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% 1.95% Co.03% 0.23% 0.29% 0.52% 0.63% 0.63% 0.63% TCW 1.39% 2.41% - - 4.69% 6/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - -<		0.08%	0.65%	0.14%	0.65%	-	0.36%	
0.07% 0.30% - - 0.31% Jennison** 1.32% 2.20% 4.29% 1.95% 2.46% 4.81% 5/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% 0.02% Payden & Rygel 1.34% 2.35% 4.49% 1.70% 2.13% 7/1/2009 Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Prudential 1.36% 2.07% 0.00% 0.32% 0.19% 0.50% Prudential 1.36% 2.51% 4.62% 2.23% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.95% CW 1.39% 2.28% 4.33% 1.71% - 0.63% - Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 0.63% CW 1.39% 2.41% - - - 4.69% 6/1/2018 </td <td>Galliard</td> <td>1.46%</td> <td>2.58%</td> <td>-</td> <td>-</td> <td>-</td> <td>4.52%</td> <td>6/1/2018</td>	Galliard	1.46%	2.58%	-	-	-	4.52%	6/1/2018
Jennison** 1.32% 2.20% 4.29% 1.95% 2.46% 4.81% 5/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% 7/1/2009 Payden & Rygel 1.34% 2.35% 4.49% 1.1% 1.70% 2.13% 7/1/2009 Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Prudential 1.36% 2.51% 4.62% 2.23% - 2.58% 2.11% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 0.63% CtW 1.39% 2.28% 4.33% 1.71% - 0.63% Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - - -	Bloomberg Barclays U.S. Intermediate Aggregate	<u>1.39%</u>	2.28%	-	-	-	4.21%	
Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% 4.24% 1.66% 2.12% 4.79% Payden & Rygel 1.34% 2.35% 4.49% 2.11% 1.70% 2.13% 7/1/2009 Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Prudential 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.33% 1.71% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.95% Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.95% TCW 1.39% 2.41% - - - 4.69% 6/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - - - 4.69% 6/1/2018		0.07%	0.30%	-	-	-	0.31%	
-0.03% -0.12% 0.05% 0.29% 0.34% 0.02% Payden & Rygel 1.34% 2.35% 4.49% 1.1% 1.70% 2.13% 7/1/2009 Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Prudential 1.36% 2.51% 4.62% 2.23% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.95% TCW 1.39% 2.41% - - - 4.69% 6/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - - - 4.69% 6/1/2018	Jennison**	1.32%	2.20%	4.29%	1.95%	2.46%	4.81%	5/1/2018
Payden & Rygel 1.34% 2.35% 4.49% 2.11% 1.70% 2.13% 7/1/2009 Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% Prudential 1.36% 2.51% 4.62% 2.23% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.95% TCW 1.39% 2.41% - - - 4.69% 6/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - - - 4.69% 6/1/2018	Bloomberg Barclays U.S. Intermediate Govt/Credit	<u>1.35%</u>	<u>2.32%</u>	4.24%	1.66%	2.12%	4.79%	
Bloomberg Barclays U.S. Intermediate Aggregate*** 1.39% 2.28% 4.49% 1.79% 1.51% 1.63% -0.05% 0.07% 0.00% 0.32% 0.19% 0.50% Prudential 1.36% 2.51% 4.62% 2.23% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.95% -0.03% 0.23% 0.29% 0.52% - 0.63% 0.63% TCW 1.39% 2.41% - - - 4.69% 6/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - - - 4.17%		-0.03%	-0.12%	0.05%	0.29%	0.34%	0.02%	
-0.05% 0.07% 0.00% 0.32% 0.19% 0.50% Prudential 1.36% 2.51% 4.62% 2.23% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.95% -0.03% 0.23% 0.29% 0.52% - 0.63% TCW 1.39% 2.41% - - 4.69% 6/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - - - 4.17%	Payden & Rygel	1.34%	2.35%	4.49%	2. 11%	1.70%	2.13%	7/1/2009
Prudential 1.36% 2.51% 4.62% 2.23% - 2.58% 2/1/2016 Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.95% -0.03% 0.23% 0.29% 0.52% - 0.63% TCW 1.39% 2.41% - - 4.69% 6/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - - - 4.17%	Bloomberg Barclays U.S. Intermediate Aggregate***	<u>1.39%</u>	<u>2.28%</u>	4.49%	<u>1.79%</u>	<u>1.51%</u>	<u>1.63%</u>	
Bloomberg Barclays U.S. Intermediate Aggregate 1.39% 2.28% 4.33% 1.71% - 1.95% -0.03% 0.23% 0.29% 0.52% - 0.63% TCW 1.39% 2.41% - - 4.69% 6/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - - 4.17%		-0.05%	0.07%	0.00%	0.32%	0.19%	0.50%	
-0.03% 0.23% 0.29% 0.52% - 0.63% TCW 1.39% 2.41% - - 4.69% 6/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - - 4.17%	Prudential	1.36%	2.51%	4.62%	2.23%	-	2.58%	2/1/2016
TCW 1.39% 2.41% - - 4.69% 6/1/2018 Bloomberg Barclays U.S. Intermediate Govt/Credit 1.35% 2.32% - - 4.17%	Bloomberg Barclays U.S. Intermediate Aggregate	<u>1.39%</u>	2.28%	4.33%	<u>1.71%</u>	-	<u>1.95%</u>	
Bloomberg Barclays U.S. Intermediate Govt/Credit <u>1.35%</u> <u>2.32%</u> <u>4.17%</u>		-0.03%	0.23%	0.29%	0.52%	-	0.63%	
Bloomberg Barclays U.S. Intermediate Govt/Credit <u>1.35%</u> <u>2.32%</u> <u>4.17%</u>	TCW	1.39%	2.41%	-	-	-	4.69%	6/1/2018
0.04% 0.09% 0.52%	Bloomberg Barclays U.S. Intermediate Govt/Credit			-	-	-	4.17%	
		0.04%	0.09%	-	-	-	0.52%	

*Performance inception: June 1, 2018. Prior to June 1, 2018 returns are linked to Wells Fargo Fixed Income Fund F (Galliard)

**Performance inception: May 1, 2018. Prior to May 1, 2018 returns are linked to Wells Fargo Fixed Income Fund N (Jennison)

***Linked Benchmark: Bloomberg Barclays U.S. Intermediate Aggregate Bond Index. Prior to Jun 1, 2018 benchmark was Bloomberg Barclays U.S. 1-3 Year Government/Credit Bond Index.



PERFORMANCE COMMENTARY – EXCESS RETURN

GALLIARD SHORT +31 Q1 2019

- An underweight to US Treasuries was the primary driver of outperformance, as credit spreads retraced most of the December sell off
- An overweight to corporate securities proved especially beneficial
- Curve positioning, with an overweight in 3 to 5 year maturities, also added to returns
- Detracting from performance was an allocation to SBA securitizations

GALLIARD INTERMEDIATE + 30 Q1 2019

- An underweight to US Treasuries was the primary driver of outperformance, as credit spreads retraced most of the December sell off
- An overweight to corporate securities proved especially beneficial
- Detracting from performance was security selection in corporates, as the higher quality names held in the portfolio underperformed lower quality issuers on the quarter

DODGE & COX +65 Q1 2019

- The overweight to Corporate Credit as well as security selection within the sector was the primary driver of relative performance
- The portfolio's shorter relative duration position detracted

JENNISON -12 Q1 2019

- The underweight to Credit detracted from performance
- · Yield curve positioning, including a front-end steepener and long-end flattener position, also detracted from performance

PAYDEN & RYGEL +7 Q1 2019

- The portfolio's allocation to Corporate Credit was the primary driver of positive performance
- Security selection within MBS also contributed positively
- Short duration positioning negatively impacted performance

PRUDENTIAL +23 Q1 2019

- The overweight to Corporate Credit, CMBS and ABS drove outperformance for the quarter
- Security selection, particularly within ABS and CMBS, partially offset the underperformance from allocation

TCW +9 Q1 2019

- Long duration positioning contributed positively to relative performance
- Security selection within Structured sectors including MBS, ABS, and CMBS offset the performance benefits of the out-of-index allocations
- Security selection within Corporate Credit also added to returns

SHORT DURATION PORTFOLIO AS OF 3/31/19

BLOOMBERG BARCLAYS U.S. 1-3 YEAR GOVERNMENT/CREDIT BOND INDEX



Galliard Short

Bloomberg Barclays U.S. 1-3 Yr Gov't/Credit Bond Index

Characteristic	Galliard Short	Bloomberg Barclays U.S. 1-3 Yr Gov't/ Credit Bond Index
Weighted Average Quality	AA	AA+
Effective Duration	1.86 Yrs	1.83 Yrs
Yield to Maturity	2.72%	2.46%



INTERMEDIATE DURATION PORTFOLIOS AS OF 3/31/19





■Galliard Intermediate

Dodge & Cox Payden & Rygel

I Prudential

Bloomberg Barclays U.S. Int Agg Bond Index

Characteristic	Galliard Intermediate	Dodge & Cox	Payden & Rygel	Prudential	Bloomberg Barclays U.S. Int Agg Bond Index
Weighted Average Quality	AA	AA-	AA-	AA	AA+
Effective Duration	3.80 Yrs	3.46 Yrs	3.73 Yrs	3.83 Yrs	3.92 Yrs
Yield to Maturity	2.99%	3.14%	2.94%	3.05%	2.78%



INTERMEDIATE DURATION PORTFOLIOS AS OF 3/31/19

BLOOMBERG BARCLAYS U.S. INTERMEDIATE GOVERNMENT/CREDIT BOND INDEX



Jennison TCW

Bloomberg Barclays U.S. Int. Govt/Credit Bond Index

Characteristic	Jennison	TCW	Bloomberg Barclays U.S. Int Gov't/Credit Bond Index
Weighted Average Quality	AA+	AA+	AA
Effective Duration	4.04 Yrs	4.01 Yrs	3.83 Yrs
Yield to Maturity	2.57%	2.70%	2.62%

