

RESOLUTION OF THE
BUDGET AND FINANCE COMMITTEE
OF THE NAVAJO NATION COUNCIL

23RD NAVAJO NATION COUNCIL - Fourth Year, 2018

AN ACTION

RELATING TO BUDGET AND FINANCE COMMITTEE; APPROVING THE
SELECTION OF A BANK LOAN MANAGER IN THE RETIREMENT PLAN'S LONG
TERM ASSET ALLOCATION

BE IT ENACTED:

SECTION ONE. AUTHORITY

- A. The Budget and Finance Committee of the Navajo Nation Council is empowered with the authority to exercise oversight in the areas including, but not limited to, budget, finance, investment, bonds, contracting, insurance, audits, accounting, taxes, loans, Chapter budget and finance for the purpose of coordinating, overseeing, and regulating the fiscal, financial, investment, contracting and audit policies of the Navajo Nation. 2 N.N.C. § 300(C)(1).
- B. The Navajo Nation Investment Committee is empowered to recommend investments and policies for adoption to the Budget and Finance Committee. Budget and Finance Committee Resolution BFJY-114-03, as amended by Budget and Finance Committee Resolutions, BFJA-01-08, BFJN-17-15, BFD-38-17, and BFD-41-17.

SECTION TWO. FINDINGS

- A. The Office of the Controller, in coordination with the Navajo Nation's designated investment consultant, RVK, Inc., interviewed two bank loan managers to include in the Nation's long-term retirement portfolio to provide a greater diversification in assets.
- B. The Navajo Nation Investment Committee (NNIC) reviewed the recommendation of RVK, Inc., and the Office of the Controller and accepted the recommendation to add Voya Investment Management Co, LLC, and PineBridge

Investments, LLC, to the Nation's investment portfolio. NNIC Resolution, NNICJU-01-17, approving and recommending the amendment is attached as **Exhibit 1**.

- C. The NNIC recommends the Budget and Finance Committee approves the addition of two bank loan managers as follows: (1) Voya Investment Management Co., LLC, at sixty percent (60%) and PineBridge Investments, LLC, at forty percent (40%) into the Navajo Nation's long term asset allocation.

SECTION THREE. APPROVAL

The Budget and Finance Committee, on recommendation of the Controller of the Navajo Nation, approves the addition of PineBridge Investments, LLC, at 100% in the Navajo Nation's long term asset allocation.

CERTIFICATION

I, hereby, certify that the foregoing resolution was duly considered by the Budget and Finance Committee of the Navajo Nation Council at a duly called meeting held at Window Rock, Navajo Nation (Arizona), at which a quorum was present and that the same was passed by a vote of 3 in favor and 0 opposed, this 3rd day of May 2018.

A handwritten signature in blue ink that reads "Dwight Witherspoon". The signature is written in a cursive, flowing style.

Dwight Witherspoon, Vice Chairperson
Budget and Finance Committee

Motion: Honorable Leonard Tsosie
Second: Honorable Lee Jack, Sr.



RESOLUTION OF
THE NAVAJO NATION INVESTMENT COMMITTEE

**Approving and Recommending to the Budget and Finance Committee the Selection of Two
(2) Bank Loan Managers in the Navajo Nation Retirement Plan's Long-Term Target Asset
Allocation**

WHEREAS:

1. The Navajo Nation Investment Committee ("Investment Committee") has delegated authority to approve investments for the Navajo Nation pursuant to Budget and Finance Committee Resolution No. BFJY-114-03, as amended by Budget and Finance Committee Resolution Nos. BFJA-01-08 and BFJN-17-15, which involved adopting investment policies and sub-policies for all Navajo Nation financial resources; and
2. Pursuant to the Approved Resolution No. BFF-07-17 which involved long-term asset allocation additions: Non-Core Real Estate and Bank Loans to the Navajo Nation's Retirement portfolio; and
3. The Office of the Controller, pursuant to its delegated authority, and in coordination with the Navajo Nation's designated investment consultant RVK, Inc. has developed a recommendation to interview three (3) pre-selected Bank Loan managers; and
4. The Office of the Controller, in coordination with RVK, Inc., has interviewed two (2) Bank Loan managers and recommend and concurs a selection of Voya Investment Management Co. LLC and PineBridge Investments, LLC to the Navajo Nation's long-term Retirement investment portfolio for further diversity; and
5. The Navajo Nation Investment Committee has reviewed the recommendation of RVK, Inc., and the Office of the Controller, material attached hereto as Exhibit A and recommends the same for approval by the Budget and Finance Committee of the Navajo Nation Council.

NOW THEREFORE BE IT RESOLVED THAT:

The Navajo Nation Investment Committee hereby approves the recommendation to update the long-term target asset allocation for the Retirement Plan by the selection of the two bank loan managers.

The Navajo Nation Investment Committee hereby recommends to the Budget and Finance Committee of the Navajo Nation Council, as required by the Navajo Nation's Master Investment Policy, Section 4.1, approval to implement Bank Loan managers: Voya Investment Management Co. LLC (60%) and PineBridge Investments, LLC (40%) into the Navajo Nation's Retirements long-term asset allocation investment portfolio for further diversity.

CERTIFICATION

I hereby certify that the foregoing resolution was duly considered by the Navajo Nation Investment Committee, at a duly called meeting at 6565 Americas Parkway #700 Albuquerque, NM 87110 at which a quorum was present and that same was passed by a vote of 3 in favor, 0 opposed, and 0 abstained, this 16th day of June, 2017.



Pearline Kirk
Presiding Chairwoman
Navajo Nation Investment Committee

Motion: Seth Damon
Second: Elizabeth Begay
Vote: 3-0-0

Exhibit A
to NNECJU-01-17

Bank Loans - Manager Interviews



Bank Loans Manager Interviews

Background

- In December 2016 The Navajo Nation Retirement Plan approved a new long-term target asset allocation inclusive of a 5% target to Bank Loans which is a new asset class to the Retirement Plan
- RVK completed a Bank Loans manager search and identified the following managers as well suited candidates for consideration
 - Credit Suisse Swiss Financial Bank Loan Fund
 - PineBridge US Bank Loan Fund
 - Vista Senior Loan Fund
- Each of these managers are high quality institutional caliber and The Navajo Nation has the option to hire one or two managers

Bank Loans Overview

What are bank loans?

Bank loans are floating rate debt securities issued by US corporations. Loan terms typically set a floating rate at LIBOR plus a margin every 30 to 90 days. The loans are generally issued by banks for non-investment grade companies; however, the bonds are secured by assets such as inventories, receivables, and real estate. In addition, the bonds are senior to other issues by the company in the capital recovery schedule, reducing the risks of default.

Sample Issuers

Burger King	Hertz
De Monte	Revlon
Della Airlines	Sands
Dunkin' Donuts	United Airlines
Goodyear	Wendy's

Key Benefits

- **Interest Rate Risk Reduction** – In a rising rate environment, the floating rate provided by bank loans adjusts upward thereby mitigating losses.
- **Diversification** – Bank loans have exhibited no historical correlation with intermediate fixed income, therefore, adding these securities to The Navajo Nation Retirement portfolio reduces overall portfolio volatility.
- **Excess Return Potential** – Higher market inefficiency enables managers in the space able to provide strong, consistent excess return.
- **Increased Downside Risk** – Relative to core fixed income, bank loans can potentially suffer larger drawdowns in turbulent markets.

Key Risks

Bank Loans Manager Comparison

Credit Suisse Senior Floating Bank Loan Fund

Objective: Credit Suisse employs a relative value investment strategy that utilizes fundamental bottom-up credit analysis of senior secured bank loans and seeks to minimize credit losses while taking sufficient risk to generate attractive returns relative to benchmark. The strategy's investment process consists of five key phases: origination/sourcing, preliminary screening, detailed credit analysis, security selection and risk management.

Strategy Inception & AUM: June 1998 / \$374 million

Investment Vehicle: Commingled Fund

Management Fee: 0.63% on assets

PineBridge US Bank Loan Fund

Objective: PineBridge utilizes fundamental bottom-up credit and industry analysis and seeks to generate stable excess returns and capital preservation by identifying specific, investable and unfetterable credit transactions and triggers. The strategy is diversified across industries and returns and looks for issuers that possess strong balance sheets with tangible hard assets, strong positive cash flow and positive outlooks.

Strategy Inception & AUM: January 2003 / \$74 million

Investment Vehicle: Commingled Fund

Management Fee: 0.4% on assets

Voya Senior Loan

Objective: Voya utilizes bottom-up fundamental analysis within a framework of look-down guidelines to identify relatively higher quality non-investment grade loans. The strategy focuses on creating primary income loans that are actively traded to enhance liquidity and avoiding industries and issuers that are vulnerable to defaults.

Strategy Inception & AUM: April 2001 / \$226 million

Investment Vehicle: Commingled Fund

Management Fee: 0.5% on assets

* Management fees are based on the average assets under management and subject to 10%



Bank Loans Manager Comparison

Manager Performance Review and Risk Comparison

Trailing Period Performance (%)	1 Year	3 Years	5 Years	7 Years	10 Years	2016	2015	2014	2013	2012
Credit Suisse	9.3	5.0	5.7	6.2	5.7	9.5	2.5	2.8	6.4	9.4
PineBridge	10.5	4.4	0.7	6.7	6.7	11.1	11.4	2.0	10.1	14.0
Voya	9.0	4.1	5.3	5.5	6.1	8.7	3.4	2.6	6.5	11.3
CS Leveraged Loan Index	5.7	1.7	4.6	6.0	6.2	8.8	-0.4	2.1	6.2	9.4
Bloomberg US Aggregate	0.9	2.7	7.7	14.1	43.0	7.7	0.6	6.6	-2.0	4.2

Risk Metrics	5 Years			10 Years		
	Standard Deviation	Up / Down Market Capture	Equity Beta (vs S&P 500)	Standard Deviation	Up / Down Market Capture	Equity Beta (vs S&P 500)
Credit Suisse	2.0	55.9	0.1	7.5	85.0	0.1
PineBridge	3.1	95.8	0.2	9.1	109.9	0.4
Voya	2.3	62.4	0.1	8.2	98.9	0.1
CS Leveraged Loan Index	3.4		0.1	7.7		0.7
Bloomberg US Aggregate	4.8		0.0	5.8		0.6

Bank Loans Manager Comparison

Diversification by Issue



Diversification by Credit Quality





The Navajo Nation Investment Manager Search Fixed Income

Universe: eVestment Bank Loan Fixed Income
Data as of: March 2016
Performance Format: Gross of Fees





Product Summary

	Primary Fixed Income Style Emphasis	Preferred Benchmark	Product Inception	Product Total Assets Under Mgmt (\$M)
Credit Suisse: Senior Floating Bank Loans	Secured Loans	CS Leveraged Loan	8/1/1998	\$39,877
PineBridge US Bank Loan	Secured Loans	S&P/LSTA Leveraged Loan	1/1/2001	\$7,452
Symphony: Senior Loan	Secured Loans	CS Leveraged Loan	1/1/2008	\$15,739
Voya Senior Loan	Secured Loans	S&P/LSTA Leveraged Loan	4/1/2001	\$22,565
Credit Suisse Leveraged Loan	—	—	—	—



Firm Information

	City	State/Province	Total Assets Under Mgmt. (\$M)	% Employee Owned	Is Firm GIPS Compliant?
Credit Suisse Senior Floating Bank Loans	New York	New York	\$366,792	0%	Yes
PineBridge US Bank Loan	New York	New York	\$80,335	7%	Yes
Symphony Senior Loan	San Francisco	California	\$19,562	0%	Yes
Voya Senior Loan	New York	New York	\$219,032	0%	Yes
Credit Suisse Leveraged Loan	--	--	--	--	--



Team Description

	# of Portfolio Managers/Dual Role PMs	Avg Yrs Experience: PMs	Avg Yrs with Firm: PMs	# of Research Analysts	Avg Yrs Experience: Analysts	Avg Yrs w/Firm: Analysts
Credit Suisse: Senior Floating Bank Loans	6	22	14	22	11	8
PineBridge US Bank Loan	7	24	14	16	18	9
Symphony: Senior Loan	2	25	16	18	13	8
Voya Senior Loan	11	25	18	15	11	8
Credit Suisse Leveraged Loan	—	—	—	—	—	—

Fixed Income Characteristics

	Average Quality Issue	Weighted Average Coupon	Yield to Maturity	Average Maturity (Years)
Credit Suisse: Senior Floating Bank Loans	B	4.8%	6.9%	5.2
PineBridge US Bank Loan	B	4.7%	5.2%	4.9
Symphony Senior Loan	BB	4.7%	6.2%	4.8
Voya Senior Loan	B	4.7%	4.7%	5.3
Credit Suisse Leveraged Loan	B	4.9%	6.6%	4.7



Issue Allocation

	Bank Loans (First Lien)	Bank Loans (Second Lien)	High Yield Bonds	CLOs	Other
Credit Suisse: Senior Floating Bank Loans	83%	4%	11%	2%	0%
PineBridge: US Bank Loan	90%	1%	9%	0%	0%
Symphony: Senior Loan	95%	5%	0%	0%	0%
Voya Senior Loan	98%	2%	0%	0%	0%
Credit Suisse Leveraged Loan	96%	4%	0%	0%	0%



Credit Quality Allocation

	Govt/AAA/ Aaa	AA/Aa	A	BBB/Baa	BB/Ba	B	CCC/Caa	CC/Ca	C	Not Rated/ Other
Credit Suisse: Senior Floating Bank Loans	0%	0%	0%	8%	36%	48%	6%	0%	0%	2%
PineBridge US Bank Loan	0%	0%	0%	2%	30%	62%	5%	0%	0%	0%
Symphony: Senior Loan	0%	0%	0%	8%	43%	37%	7%	0%	0%	4%
Voya Senior Loan	0%	0%	0%	5%	38%	53%	4%	0%	0%	0%
Credit Suisse Leveraged Loan	0%	0%	0%	8%	41%	42%	5%	0%	0%	3%



Lowest Fee Vehicle Available

Mandate Size: \$35,000,000

	Vehicle	Minimum Account Size (\$M)	Annual Fees	Annual Fees (basis points)
Credit Suisse: Senior Floating Bank Loans	Commingled Fund	\$0.25	\$218,750	63
PineBridge: US Bank Loan	Commingled Fund	\$3.00	\$259,000	74
Symphony: Senior Loan	Commingled Fund	\$5.00	\$245,000	70
Voya Senior Loan	Commingled Fund	\$5.00	\$176,750	51
Credit Suisse Leveraged Loan	--	--	--	--

Investments in commingled funds may require additional suitability and eligibility verification. Commingled fund fees shown include management fees and estimated operating expenses. Credit Suisse (50bps management fee + 12.5bps estimated operating expenses), PineBridge (50bps management fee + 24bps estimated operating expenses), Symphony (55bps management fee + 13-18bps estimated operating expenses), Voya (45bps management fee + 5 bps estimated operating expenses, operating expenses are capped at 15 bps)



Commingled Fund Fee Analysis

Mandate Size: \$35,000,000

	Availability	Minimum Account Size (\$M)	Minimum Annual Fee	Accepts ERISA Assets?	Accepts Non-ERISA Assets?	Annual Fees	Annual Fees (basis points)
Credit Suisse: Senior Floating Bank Loans	Open	\$0.25	\$15,000	Yes	Yes	\$218,750	63
PineBridge US Bank Loan	Open	\$3.00	---	Yes	Yes	\$259,000	74
Symphony: Senior Loan	Open	\$5.00	---	Yes	Yes	\$245,000	70
Voya Senior Loan	Open	\$5.00	---	Yes	Yes	\$176,750	51
Credit Suisse Leveraged Loan	---	---	---	---	---	---	---

Investments in commingled funds may require additional suitability and eligibility verification. Commingled fund fees shown include management fees and estimated operating expenses. Credit Suisse (50bps management fee + 12.5bps estimated operating expenses). PineBridge (50bps management fee + 24bps estimated operating expenses). Symphony (55bps management fee + 13-18bps estimated operating expenses). Voya (45bps management fee + 5.5bps estimated operating expenses; operating expenses are capped at 15bps).



Mutual Fund Fee Analysis

Mandate Size: \$35,000,000

	Ticker Symbol	Mutual Fund Name	Minimum Account Size (\$M)	Sub-Advisor or Distributor?	Annual Fees	Annual Fees (basis points)
Credit Suisse: Senior Floating Bank Loans	CSHIX	CS Floating Rate High Income Fund	\$0.25	--	\$245,000	70
PineBridge: US Bank Loan	--	--	--	--	--	--
Symphony: Senior Loan	NFRIX	Nuveen Symphony Floating Rate Income Fund	\$0.10	--	\$262,500	75
Voya Senior Loan	IFRIX	Voya Floating Rate Fund- class I	\$0.25	--	\$276,500	79
Credit Suisse Leveraged Loan	--	--	--	--	--	--

Trailing Period Returns and Rankings

As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 83

14

12

10

8

6

4

2

0

Total Annualized Return, %

QTD

YTD

1 year

3 years

5 years

7 years

10 years

● Credit Suisse Sr Floating Bank Loan ● PineBridge US Bank Loan ● Symphony Sr Loan Inst ● Voya Senior Loan ✕ CS Leveraged Loan Index

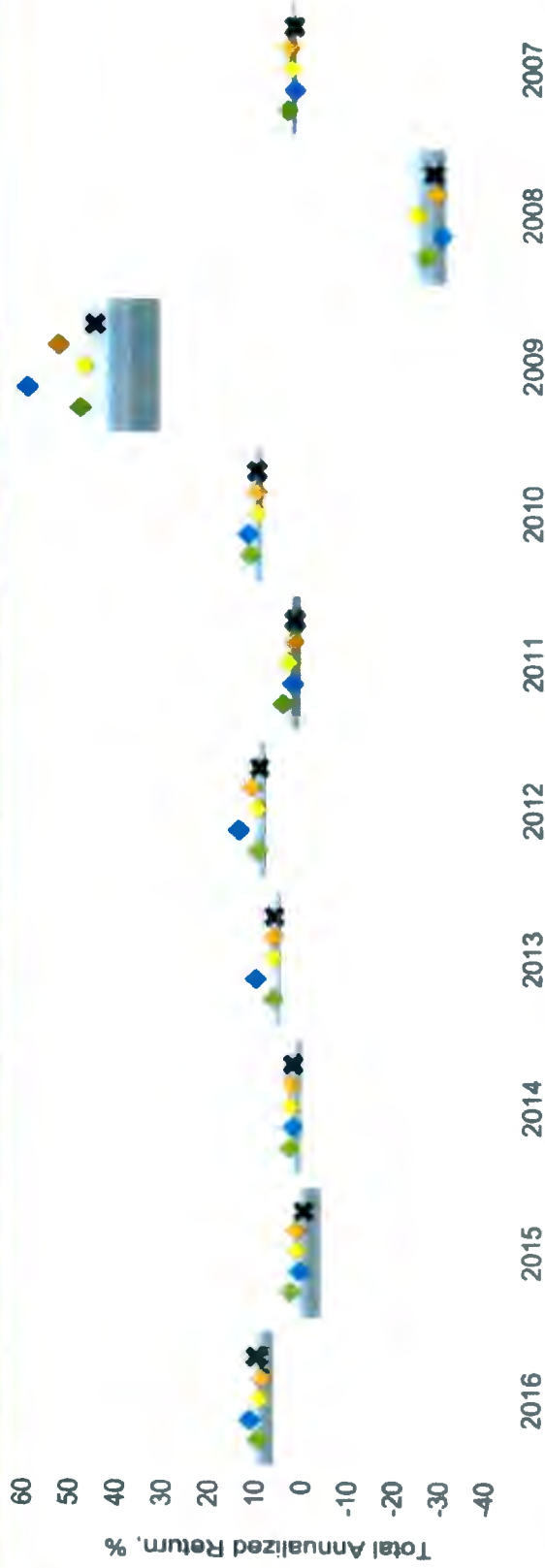
Annualized Performance	QTD		YTD		1 year		3 years		5 years		7 years		10 years	
	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank
Credit Suisse Sr Floating Bank Loan	1.4	21	1.4	21	9.3	50	5.0	4	5.7	19	6.2	21	5.7	9
PineBridge US Bank Loan	1.5	16	1.5	16	10.9	16	4.4	17	6.7	4	6.7	8	6.2	3
Symphony Sr Loan Inst	1.0	61	1.0	61	8.1	65	4.3	25	5.3	34	5.5	42	5.4	18
Voya Senior Loan	0.9	84	0.9	84	7.8	72	4.1	36	5.3	33	5.5	44	5.1	30
CS Leveraged Loan Index	1.2	37	1.2	37	9.7	40	3.7	61	4.9	58	5.0	68	4.2	83
eA Bank Loan FI Median	1.1	50	1.1	50	9.3	50	3.9	50	5.0	50	5.3	50	4.8	50

Performance is gross of fees

Calendar Year Returns and Rankings



As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 85

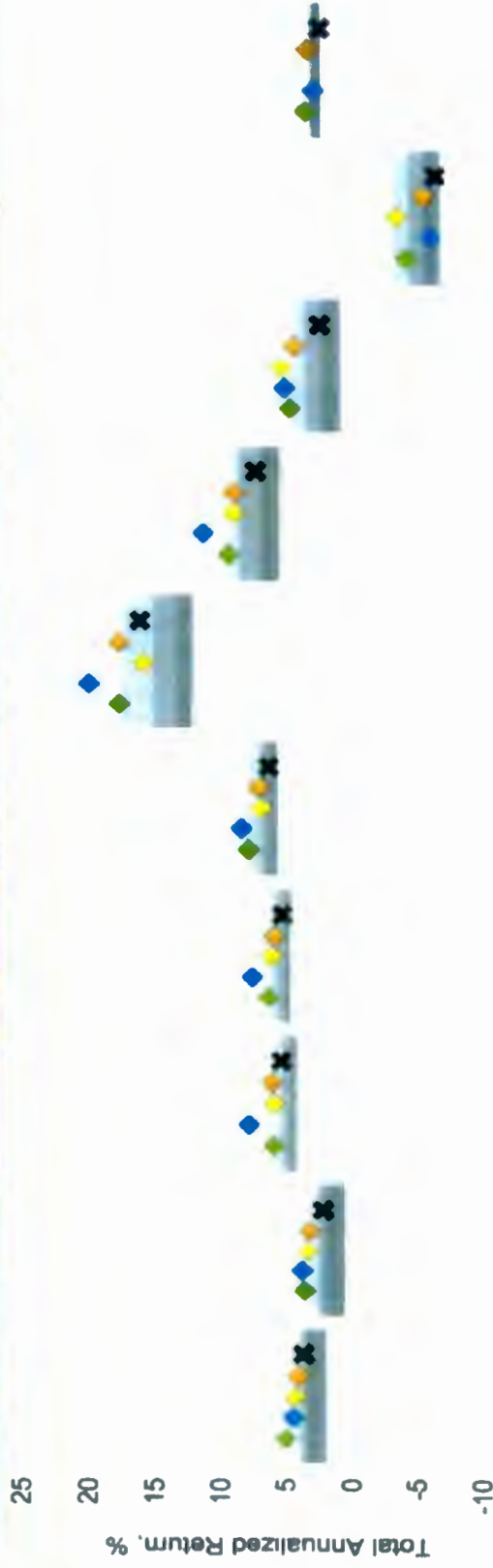


Performance is gross of fees

Calendar Year Performance	2016		2015		2014		2013		2012		2011		2010		2009		2008		2007	
	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank
Credit Suisse Sr Floating Bank Loan	9.5	54	2.5	9	2.8	9	64	45	98	53	45	8	117	27	48.1	22	-26.7	59	3.4	24
PineBridge US Bank Loan	11.1	19	0.4	53	2.0	47	10.1	4	14.0	2	22	79	12.0	23	59.4	2	-30.6	95	1.8	95
Symphony Sr Loan Inst	9.2	59	1.1	35	2.7	14	66	32	10.0	48	32	41	9.9	70	47.3	25	-24.9	45	2.5	70
Voya Senior Loan	8.7	69	1.4	29	2.6	18	65	38	11.3	23	20	86	10.0	70	52.8	7	-29.3	87	3.1	40
CS Leveraged Loan Index	9.9	47	-0.4	71	2.1	43	6.2	49	9.4	65	1.8	92	10.0	70	44.9	41	-28.8	81	1.9	93
eA Bank Loan FI Median	9.6	50	0.5	50	2.0	50	8.1	50	9.9	50	3.0	50	10.6	50	42.2	50	-25.6	50	2.9	50

Manager Consistency - 3 Year Annualized Period Calculated Every 12 Months

As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 85



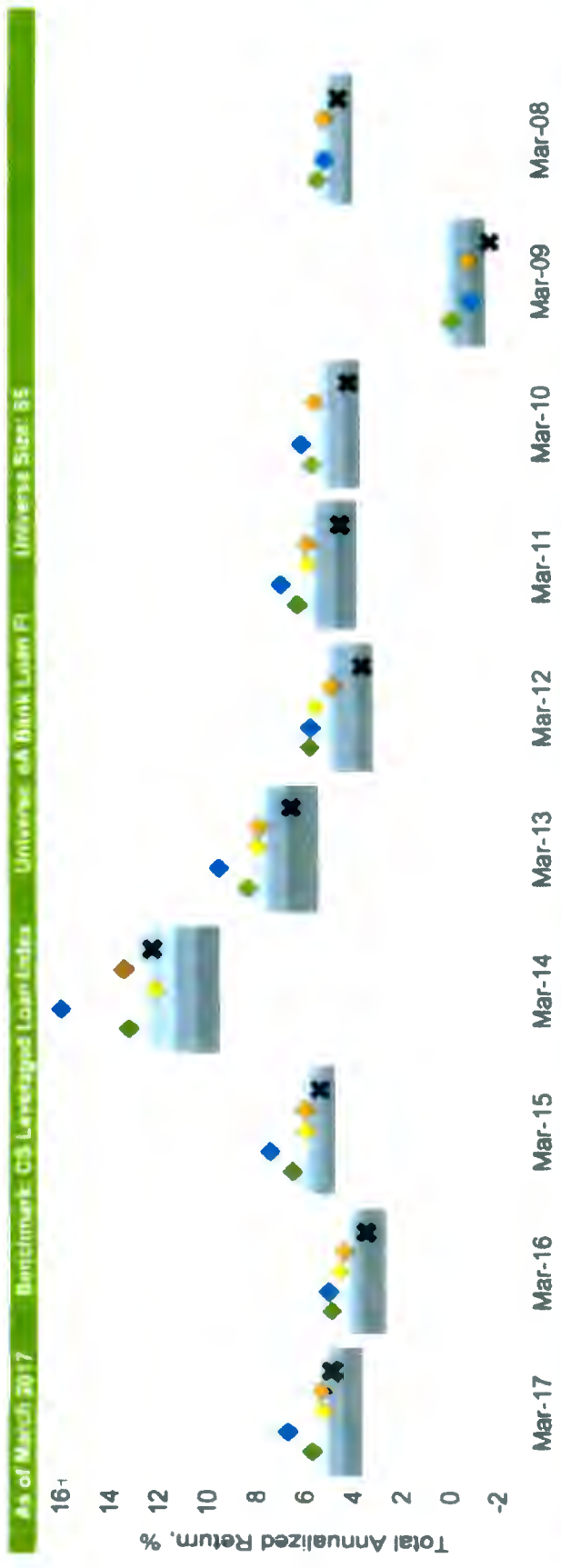
● Credit Suisse Sr Floating Bank Loan ● PineBridge US Bank Loan ● Symphony, Sr Loan Inst ● Voya Senior Loan ● CS Leveraged Loan Index

Annualized Performance	4/14 - 3/17		4/13 - 3/16		4/12 - 3/15		4/11 - 3/14		4/10 - 3/13		4/09 - 3/12		4/08 - 3/11		4/07 - 3/10		4/06 - 3/09		4/05 - 3/08	
	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank
Credit Suisse Sr Floating Bank Loan	5.0	4	3.6	13	5.9	30	6.3	35	7.8	30	17.7	24	9.3	25	4.7	25	-4.3	48	3.5	20
PineBridge US Bank Loan	4.4	17	3.8	9	7.8	4	7.6	13	8.4	19	20.0	8	11.3	4	5.1	15	-6.1	84	2.8	78
Symphony Sr Loan Inst	4.3	25	3.3	16	5.9	30	6.1	43	6.9	59	15.8	41	9.0	35	5.2	14	-3.5	38	—	—
Voya Senior Loan	4.1	36	3.2	22	6.0	25	5.9	47	7.1	50	17.7	23	9.0	35	4.3	31	-5.5	77	3.3	32
CS Leveraged Loan Index	3.7	61	2.2	72	5.4	53	5.3	73	6.3	80	16.1	39	7.3	72	2.4	74	-6.5	89	2.3	96
eA Bank Loan FI Median	3.9	50	2.5	50	5.4	50	5.8	50	7.1	50	15.1	50	8.6	50	3.6	50	-4.3	50	3.1	50

Performance is gross of fees



Manager Consistency - 5 Year Annualized Period Calculated Every 12 Months



● Credit Suisse Sr Floating Bank Loan
 ● PineBridge US Bank Loan
 ● PineBridge Sr Loan Inst
 ● Symphony Sr Loan Inst
 ● Voya Senior Loan
 ● CS Leveraged Loan Index

	4/12 - 3/17	4/11 - 3/16	4/10 - 3/15	3/9 - 3/14	4/8 - 3/13	4/7 - 3/12	4/6 - 3/11	4/5 - 3/10	4/4 - 3/9	4/3 - 3/8	4/2 - 3/7	4/1 - 3/6	3/31 - 3/5	3/30 - 3/4	3/29 - 3/3	3/28 - 3/2	3/27 - 3/1	3/26 - 2/28		
Credit Suisse Sr Floating Bank Loan	5.7	16	4.9	15	6.5	29	13.2	25	8.4	24	5.8	18	6.1	22	5.7	22	8.1	47	5.4	17
PineBridge US Bank Loan	6.7	4	5.0	13	7.4	9	16.0	4	9.5	6	5.8	18	6.9	10	6.1	13	-0.9	85	5.1	44
Symphony Sr Loan Inst	5.3	34	4.6	22	6.0	43	12.1	36	8.0	35	5.6	20	5.9	27	—	—	—	—	—	—
Voya Senior Loan	5.3	33	4.4	36	6.0	43	13.4	22	7.9	38	4.9	42	5.9	32	5.6	31	-0.8	70	5.2	40
CS Leveraged Loan Index	4.9	58	3.5	79	5.4	72	12.2	35	6.6	79	3.6	86	4.5	83	4.1	78	-1.7	100	4.6	68
eA Bank Loan FI Median	5.0	50	4.1	50	5.8	50	11.4	50	7.5	50	4.9	50	5.5	50	5.1	50	-0.1	50	5.0	50

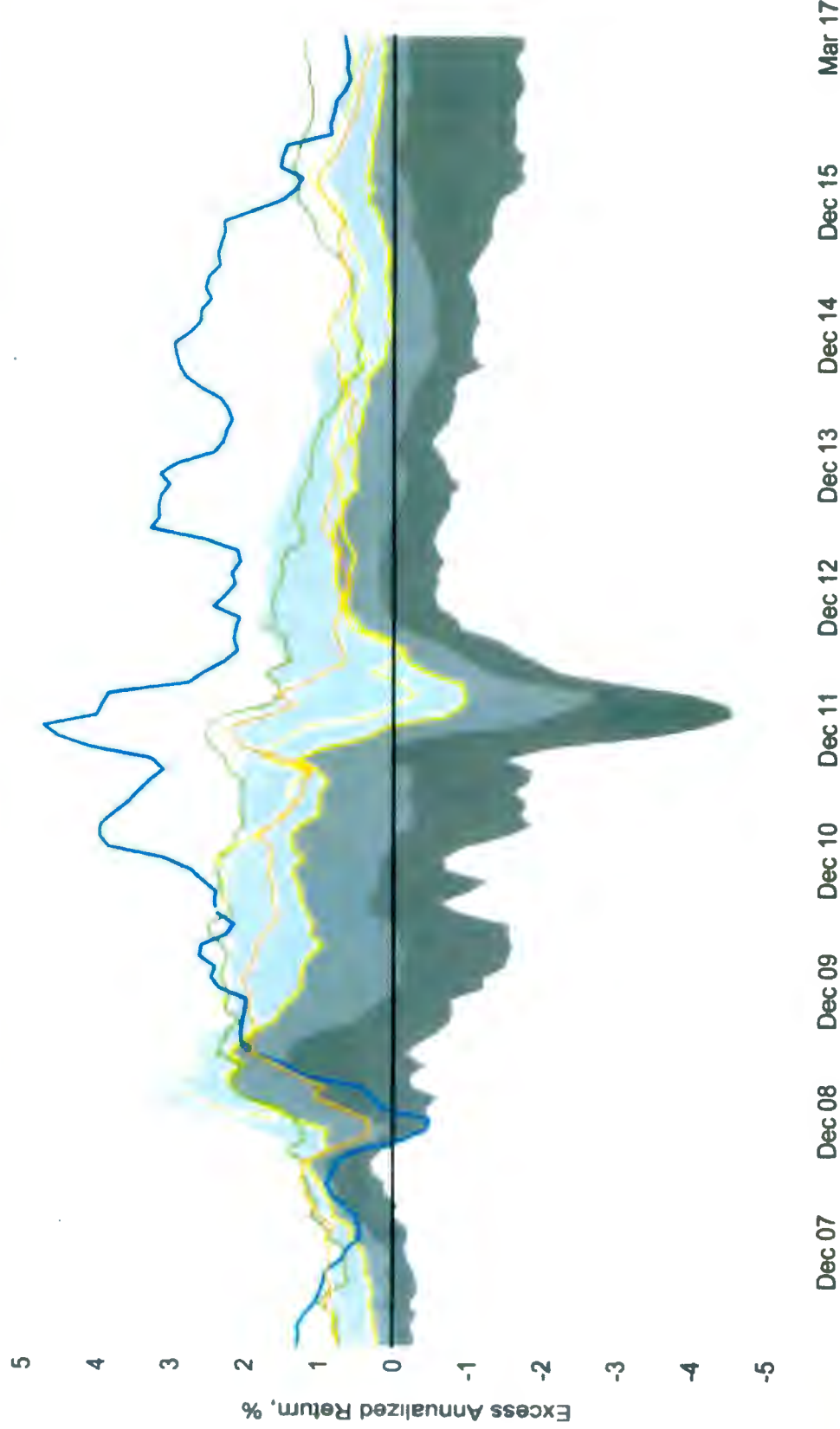
Performance is gross of fees

Rolling 3 Year Excess Return



As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 15

Excess Returns: 3 Year Rolling



eA Bank Loan FI Median Credit Suisse, Sr Floating Bank Loan PineBridge US Bank Loan Symphony: Sr Loan Inst Voya: Senior Loan CS Leveraged Loan Index

Rolling 3 Year Tracking Error

As of March 2017 Benchmark: C8 Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 85



Tracking Error: 3 Year Rolling

6

4

2

0

Tracking Error, %



Dec 07 Dec 08 Dec 09 Dec 10 Dec 11 Dec 12 Dec 13 Dec 14 Dec 15 Mar 17

■ eA Bank Loan FI Median

■ Credit Suisse: Sr Floating Bank Loan ■ PineBridge: US Bank Loan ■ Symphony: Sr Loan Inst ■ Voya: Senior Loan ■ CS Leveraged Loan Index



Trailing Period Batting Average

As of March 2017 Benchmark: C3 Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 83

Batting Average

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0



3 years 5 years 7 years 10 years

◆ Credit Suisse Sr Floating Bank Loan ◆ PineBridge US Bank Loan ◆ Symphony Sr Loan Inst ◆ Voya Senior Loan

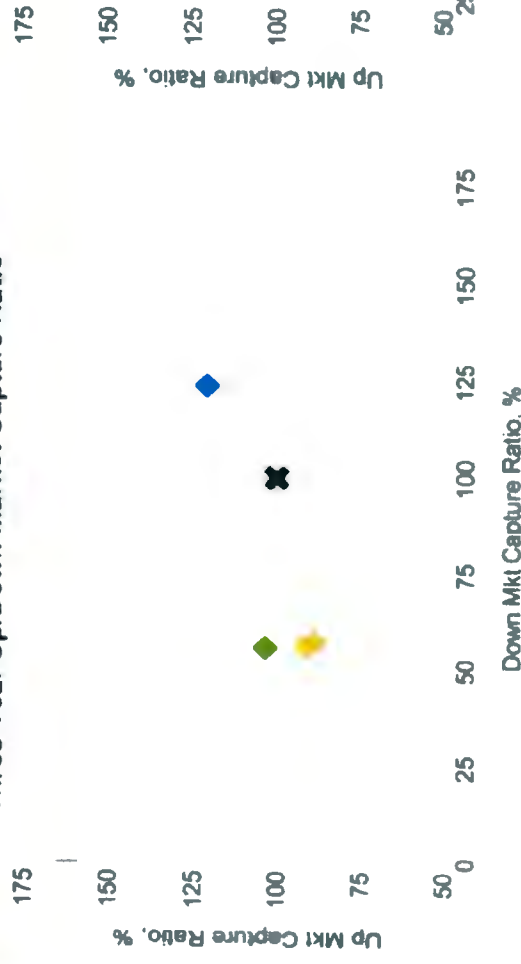
	Up Batting Average					Down Batting Average				
	3 Years	5 Years	7 Years	10 Years	15 Years	3 Years	5 Years	7 Years	10 Years	15 Years
Credit Suisse Sr Floating Bank Loan	0.60	0.49	0.53	0.54	0.54	1.00	1.00	1.00	0.93	0.93
PineBridge US Bank Loan	0.76	0.83	0.80	0.79	0.79	0.27	0.38	0.28	0.24	0.24
Symphony Sr Loan Inst	0.32	0.43	0.50	0.53	0.53	0.91	0.77	0.61	0.72	0.72
Voya Senior Loan	0.24	0.38	0.47	0.55	0.55	0.91	0.85	0.61	0.52	0.52
eA Bank Loan FI Median	0.40	0.47	0.52	0.51	0.51	0.68	0.62	0.56	0.59	0.59

Up/Down Market Capture - Three and Five Year



As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Inverse Size: \$5

Three Year Up/Down Market Capture Ratio



● eA Bank Loan FI
✕ CS Leveraged Loan Index

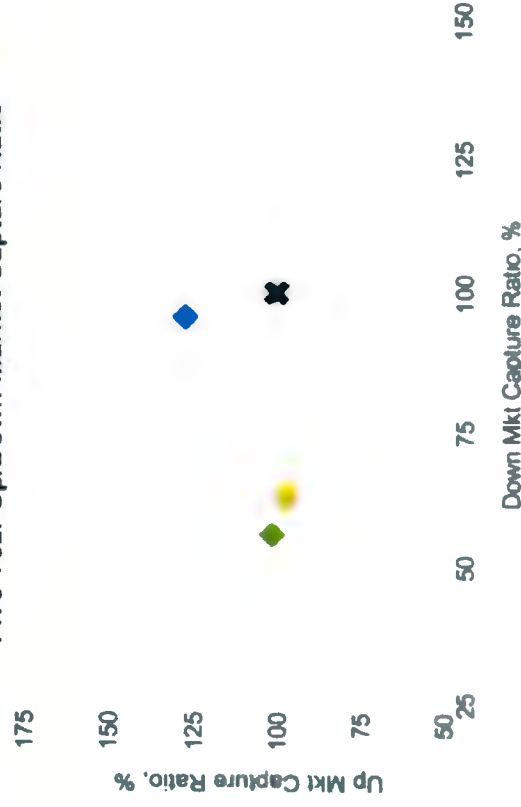
● Credit Suisse Sr Floating Bank Loan

● PineBridge US Bank Loan

● Symphony Sr Loan Inst

● Voya Senior Loan

Five Year Up/Down Market Capture Ratio



	Up Mkt Cap Ratio, %	Up Mkt Months	Down Mkt Cap Ratio, %	Down Mkt Months
Credit Suisse Sr Floating Bank Loan	103.68	25	55.98	11
PineBridge US Bank Loan	120.78	25	123.83	11
Symphony Sr Loan Inst	92.00	25	56.27	11
Voya Senior Loan	89.21	25	57.23	11
CS Leveraged Loan Index	100.00	25	100.00	11
eA Bank Loan FI Median	96.80	25	82.41	11

	Up Mkt Cap Ratio, %	Up Mkt Months	Down Mkt Cap Ratio, %	Down Mkt Months
Credit Suisse Sr Floating Bank Loan	101.47	47	55.92	13
PineBridge US Bank Loan	127.22	47	95.76	13
Symphony Sr Loan Inst	97.07	47	64.12	13
Voya Senior Loan	97.44	47	62.35	13
CS Leveraged Loan Index	100.00	47	100.00	13
eA Bank Loan FI Median	99.85	47	89.28	13

Up/Down Market Capture - Seven and Ten Year

As of March 2017

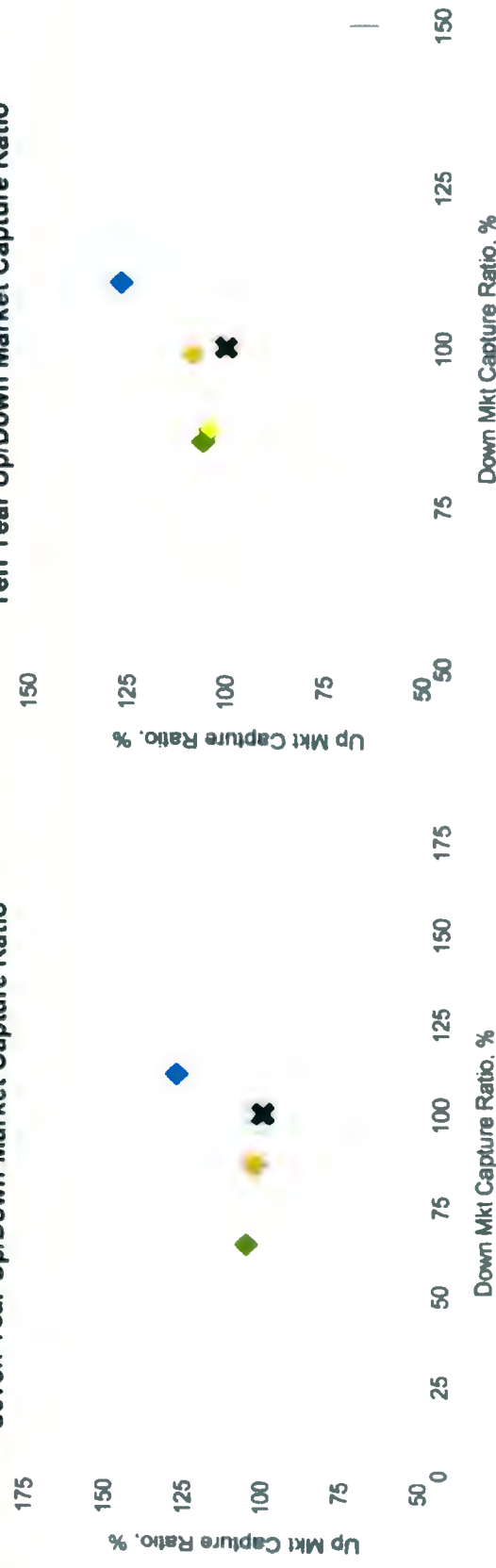
Benchmark: CS Leveraged Loan Index

Universe: eA Bank Loan FI

Universal Size: M



Seven Year Up/Down Market Capture Ratio



■ eA Bank Loan FI
 x CS Leveraged Loan Index

◆ Credit Suisse Sr Floating Bank Loan

◆ PineBridge US Bank Loan

● Symphony Sr Loan Inst

◆ Voya Senior Loan

	Up Mkt Cap Ratio, %	Up Mkt Months	Down Mkt Cap Ratio, %	Down Mkt Months
Credit Suisse Sr Floating Bank Loan	104.98	66	63.92	18
PineBridge US Bank Loan	127.42	66	110.81	18
Symphony Sr Loan Inst	102.31	66	85.54	18
Voya Senior Loan	102.39	66	86.64	18
CS Leveraged Loan Index	100.00	66	100.00	18
eA Bank Loan FI Median	104.52	66	95.09	18

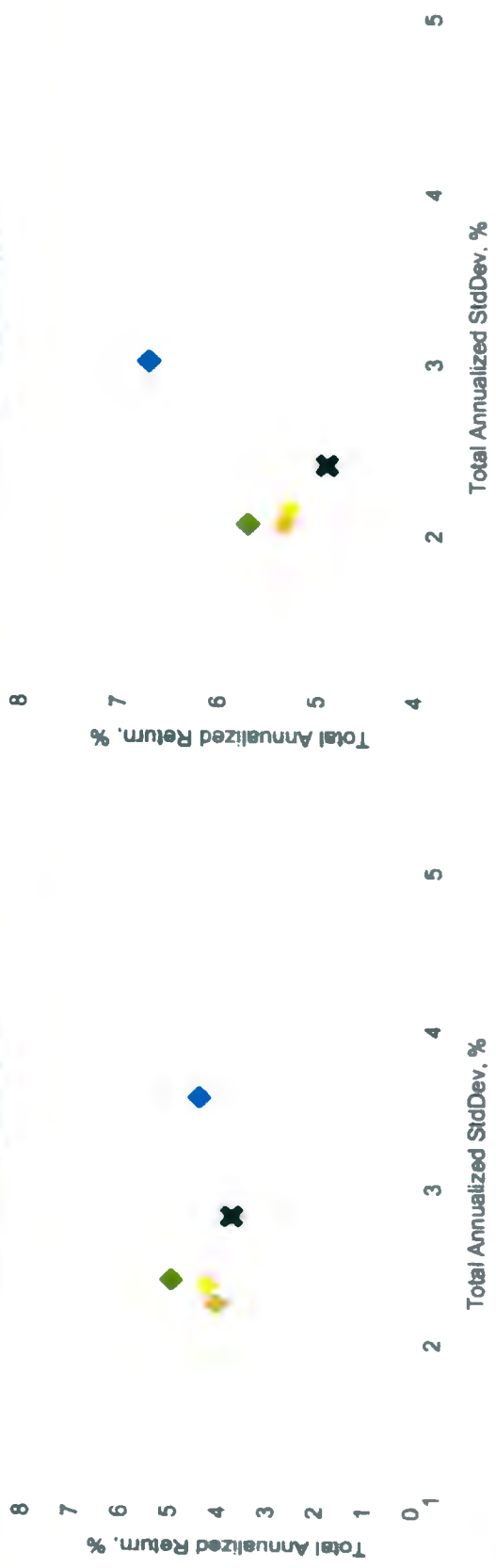
	Up Mkt Cap Ratio, %	Up Mkt Months	Down Mkt Cap Ratio, %	Down Mkt Months
Credit Suisse Sr Floating Bank Loan	105.79	91	85.02	29
PineBridge US Bank Loan	126.57	91	109.91	29
Symphony Sr Loan Inst	103.93	91	86.99	29
Voya Senior Loan	108.39	91	98.91	29
CS Leveraged Loan Index	100.00	91	100.00	29
eA Bank Loan FI Median	100.95	91	90.76	29

Risk/Return - Three and Five Year

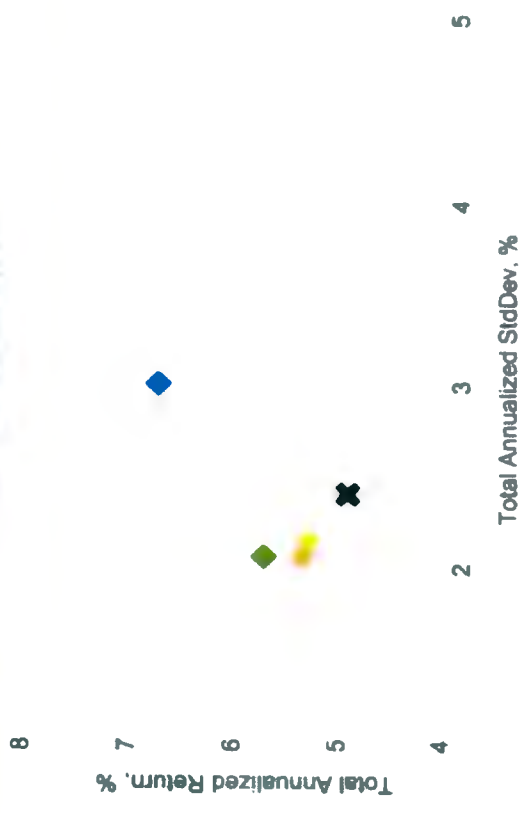


As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 18

Three Year Risk/Return



Five Year Risk/Return



■ eA Bank Loan FI
■ CS Leveraged Loan Index

■ Credit Suisse Sr Floating Bank Loan

■ PineBridge US Bank Loan

■ Symphony Sr Loan Inst

■ Voya Senior Loan

	Return	StdDev
Credit Suisse Sr Floating Bank Loan	4.96	2.42
PineBridge US Bank Loan	4.39	3.57
Symphony Sr Loan Inst	4.25	2.37
Voya Senior Loan	4.07	2.25
CS Leveraged Loan Index	3.72	2.82
eA Bank Loan FI Median	3.90	2.77

	Return	StdDev
Credit Suisse Sr Floating Bank Loan	5.69	2.06
PineBridge US Bank Loan	6.69	3.01
Symphony Sr Loan Inst	5.27	2.15
Voya Senior Loan	5.32	2.06
CS Leveraged Loan Index	4.88	2.41
eA Bank Loan FI Median	5.05	2.42

Risk/Return - Seven and Ten Year

As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 15

RVK



■ eA Bank Loan FI
 ◆ Credit Suisse Sr Floating Bank Loan
 ◆ PineBridge US Bank Loan
 ◆ Voya Senior Loan
 ◆ Symphony Sr Loan Inst

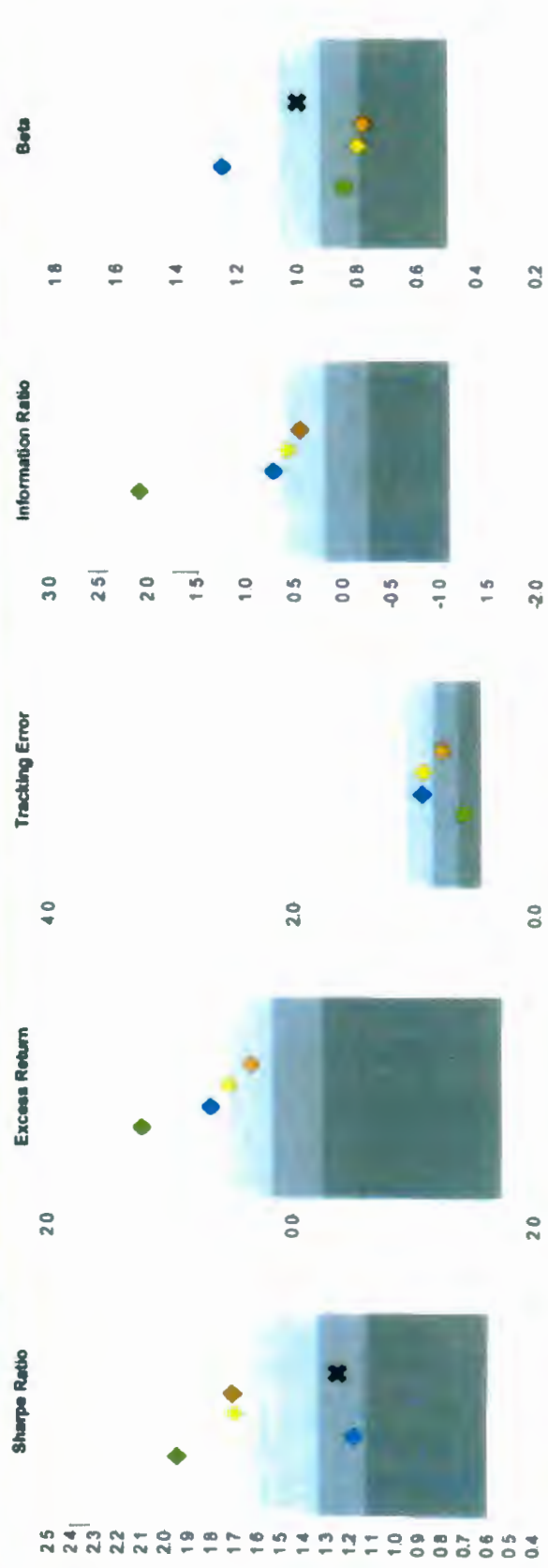
	Annualized Return	Annualized Std Dev
Credit Suisse Sr Floating Bank Loan	6.20	2.80
PineBridge US Bank Loan	6.73	4.06
Symphony Sr Loan Inst	5.51	3.25
Voya Senior Loan	5.50	3.21
CS Leveraged Loan Index	5.02	3.22
eA Bank Loan FI Median	5.33	3.32

	Annualized Return	Annualized Std Dev
Credit Suisse Sr Floating Bank Loan	5.74	7.45
PineBridge US Bank Loan	6.22	9.06
Symphony Sr Loan Inst	5.43	7.54
Voya Senior Loan	5.13	8.23
CS Leveraged Loan Index	4.24	7.65
eA Bank Loan FI Median	4.82	7.82



Modern Portfolio Theory Statistics - Three Year

As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 85



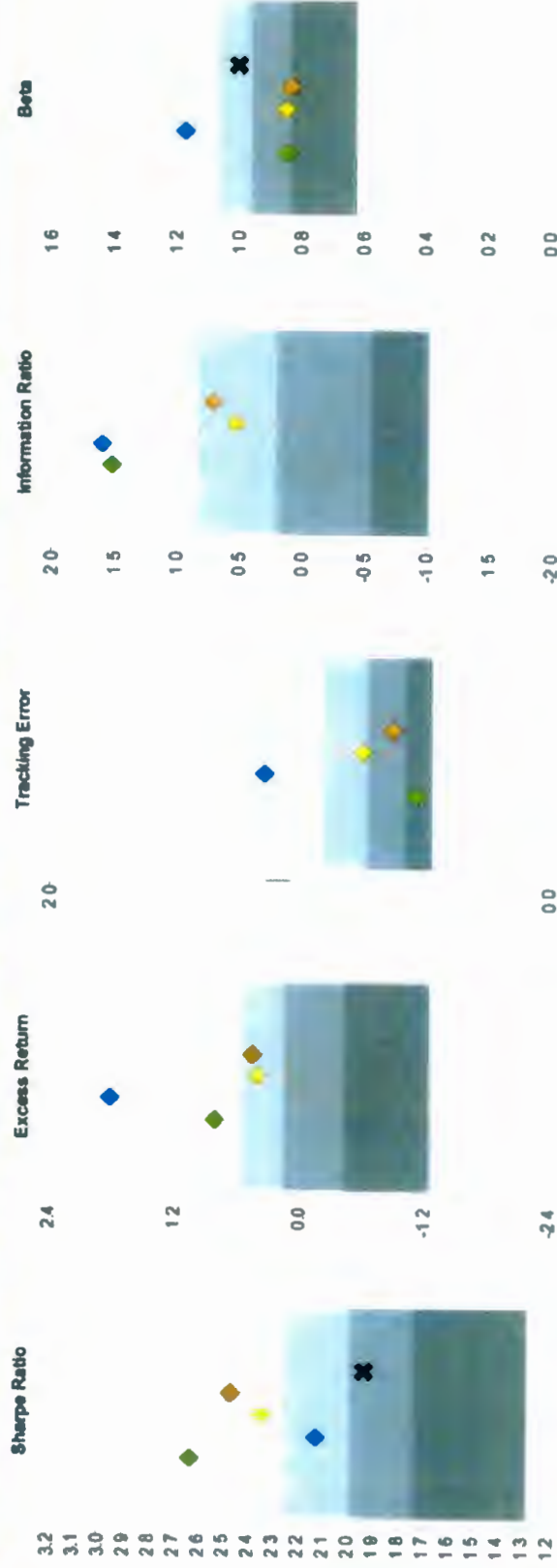
◆ Credit Suisse Sr Floating Bank Loan ◆ PineBridge US Bank Loan ◆ Symphony Sr Loan Inst ◆ Voya Senior Loan ✕ CS Leveraged Loan Index

Firm/Product	Sharpe Ratio	Rank	Excess Return %	Rank	Tracking Error	Rank	Information Ratio	Rank	Beta	Rank
Credit Suisse Sr Floating Bank Loan	1.95	12	1.23	82	0.59	2	2.08	23	0.84	68
PineBridge US Bank Loan	1.18	67	0.67	17	0.94	38	0.72	12	1.25	12
Symphony Sr Loan Inst	1.70	23	0.53	25	0.93	38	0.57	28	0.80	75
Voya: Senior Loan	1.71	23	0.34	36	0.77	61	0.44	33	0.78	78
CS Leveraged Loan Index	1.25	61	0.00	100	0.00	100	---	---	1.00	36
eA Bank Loan FI Median	1.34	50	0.18	50	0.86	50	0.21	50	0.93	50

Modern Portfolio Theory Statistics - Five Year



As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 85



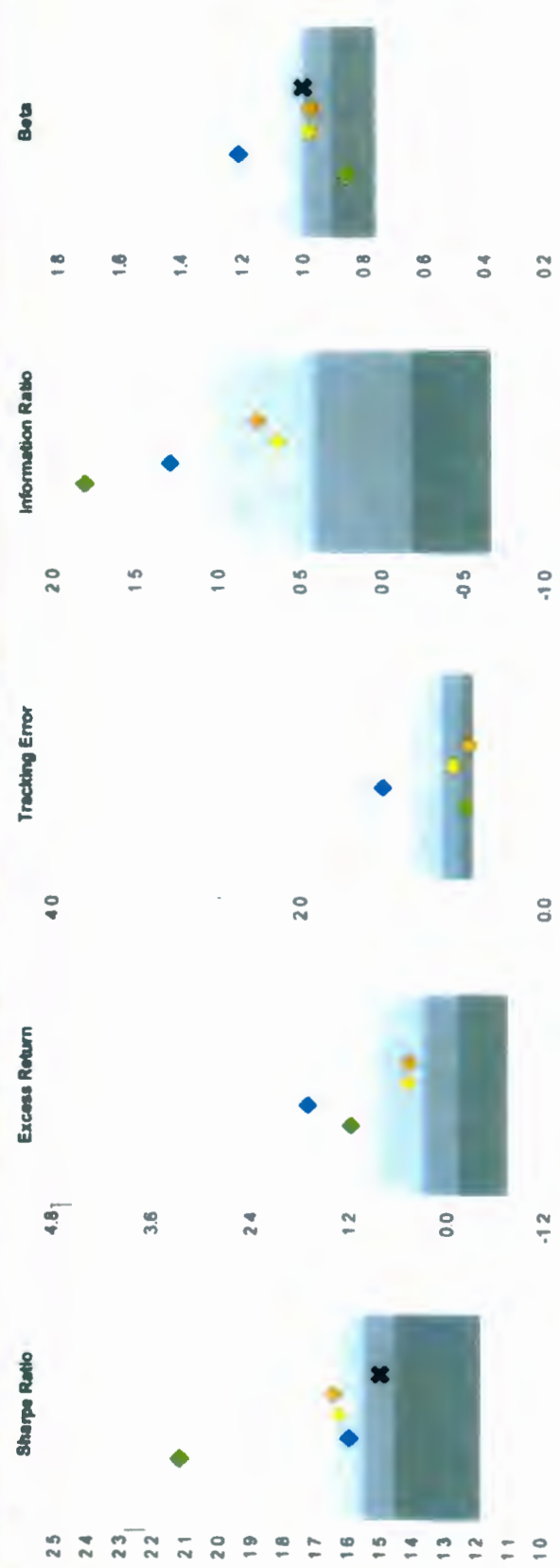
◆ Credit Suisse Sr Floating Bank Loan ◆ PineBridge: US Bank Loan ◆ Symphony Sr Loan Inst ◆ Voya Senior Loan ◆ CS Leveraged Loan Index

Fund/Product	Sharpe Ratio	Rank	Excess Return %	Rank	Tracking Error	Rank	Information Ratio	Rank	Beta	Rank
Credit Suisse Sr Floating Bank Loan	2.63	12	0.81	19	0.53	82	1.51	8	0.84	74
PineBridge: US Bank Loan	2.12	38	1.81	4	1.14	17	1.59	6	1.17	16
Symphony Sr Loan Inst	2.34	23	0.39	34	0.75	48	0.52	36	0.85	72
Voya Senior Loan	2.47	14	0.44	33	0.63	65	0.70	31	0.83	76
CS Leveraged Loan Index	1.94	56	0.00	58	0.00	100	---	---	1.00	36
eA Bank Loan FI Median	2.00	50	0.17	50	0.74	50	0.21	50	0.96	50



Modern Portfolio Theory Statistics - Seven Year

As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 83



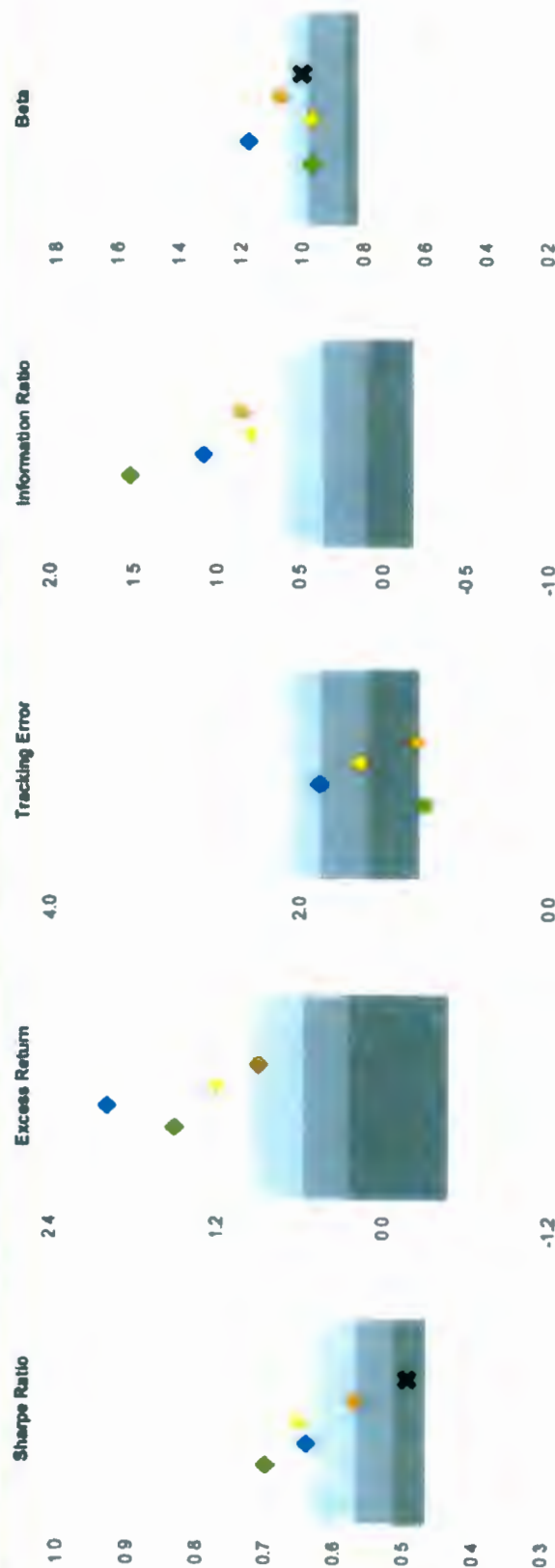
Legend: Credit Suisse Sr Floating Bank Loan (Blue Diamond), PineBridge US Bank Loan (Yellow Diamond), Symphony Sr Loan Inst (Orange Diamond), Voya: Senior Loan (Black Cross), CS Leveraged Loan Index (Black Cross)

Fund/Product	Sharpe Ratio	Rank	Excess Return %	Rank	Tracking Error	Rank	Information Ratio	Rank	Beta	Rank
Credit Suisse Sr Floating Bank Loan	2.12	8	1.17	21	0.65	89	1.80	6	0.86	82
PineBridge: US Bank Loan	1.59	46	1.71	8	1.32	16	1.29	16	1.21	8
Symphony Sr Loan Inst	1.63	32	0.49	42	0.76	68	0.85	43	0.98	64
Voya: Senior Loan	1.65	31	0.47	44	0.62	95	0.76	38	0.98	65
CS Leveraged Loan Index	1.50	63	0.00	68	0.00	100	—	—	1.00	52
eA Bank Loan FI Median	1.56	50	0.31	50	0.85	50	0.43	50	1.00	50



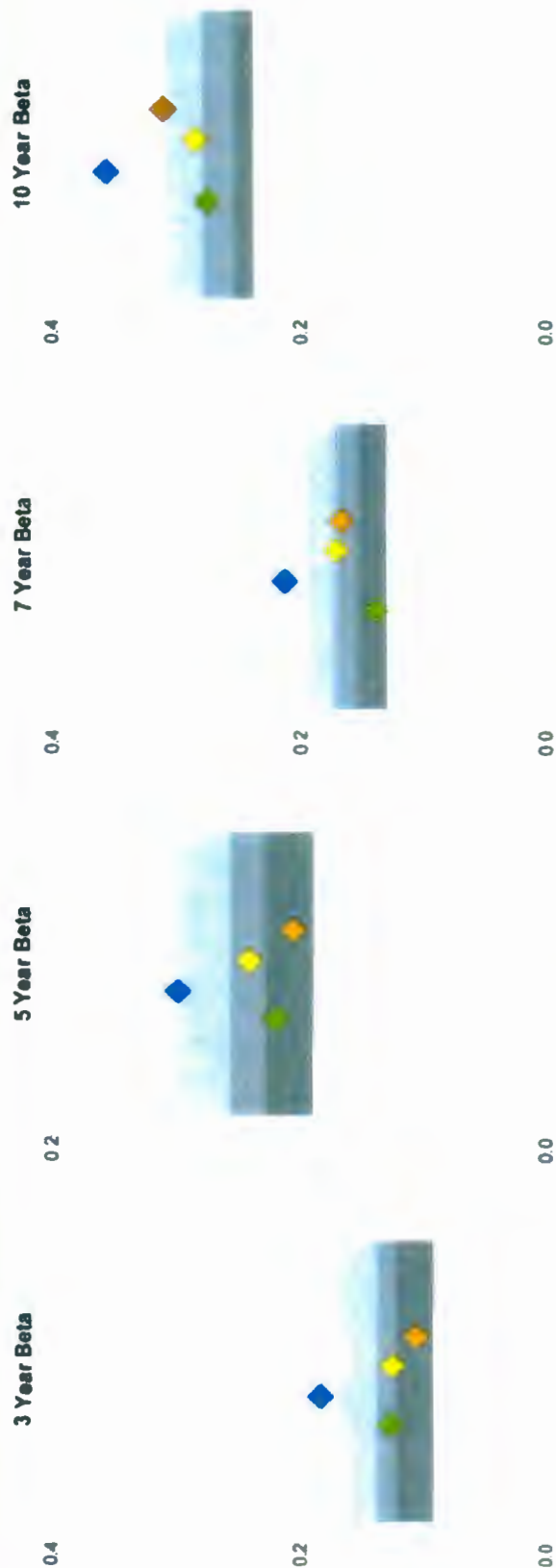
Modern Portfolio Theory Statistics - Ten Year

As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 85



◆ Credit Suisse ◆ PineBridge US Bank Loan ◆ Symphony Sr Loan Inst ◆ Voya Senior Loan ◆ CS Leveraged Loan Index

Fund/Percentile	Sharpe Ratio	Rank	Excess Return %	Rank	Tracking Error	Rank	Information Ratio	Rank	Beta	Rank
Credit Suisse Sr Floating Bank Loan	0.70	12	1.50	9	0.99	100	1.52	1	0.97	53
PineBridge US Bank Loan	0.64	24	1.98	3	1.84	50	1.08	6	1.17	1
Symphony Sr Loan Inst	0.65	19	1.19	18	1.51	66	0.79	17	0.97	53
Voya Senior Loan	0.57	50	0.89	30	1.05	95	0.85	15	1.07	12
CS Leveraged Loan Index	0.49	82	0.00	83	0.00	100	---	---	1.00	45
eA Bank Loan FI Median	0.57	50	0.58	50	1.84	50	0.36	50	0.99	60



	3 Year Beta	5 Year Beta	7 Year Beta	10 Year Beta
Credit Suisse Sr Floating Bank Loan	0.13	0.11	0.14	0.28
PineBridge US Bank Loan	0.18	0.15	0.21	0.36
Symphony Sr Loan Inst	0.13	0.12	0.17	0.28
Voya Senior Loan	0.11	0.10	0.17	0.31
A Bank Loan FI Median	0.14	0.13	0.17	0.28

Rolling 3 Year Statistics to CS Leveraged Loan Index

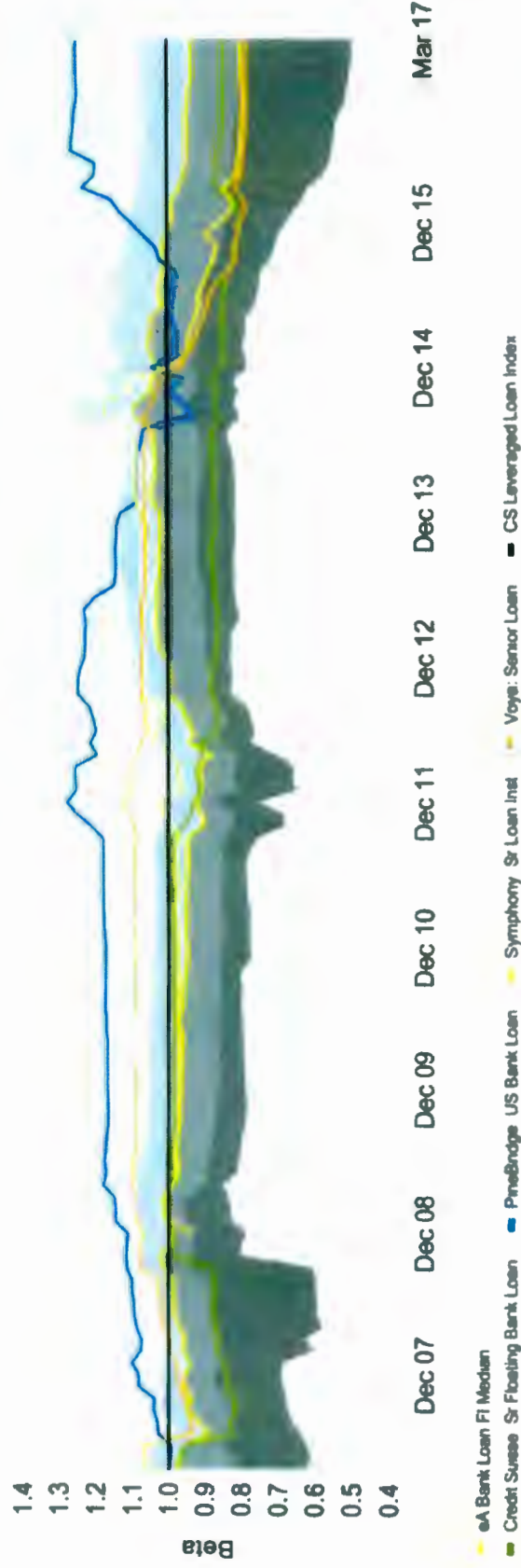
As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 65



Correlation: 3 Year Rolling



Beta: 3 Year Rolling



— eA Bank Loan FI Median
— Credit Suisse Sr Floating Bank Loan — PineBridge US Bank Loan — Symphony Sr Loan Inst — Voya: Senior Loan — CS Leveraged Loan Index



3 and 5 Year Excess Returns Correlations

As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 85

Excess Correlation: Apr 2014 Mar 2017	Credit Suisse: Sr Floating Bank Loan	PineBridge: US Bank Loan	Symphony: Sr Loan Inst	Voya: Senior Loan
Credit Suisse: Sr Floating Bank Loan	1.00	-0.26	0.54	0.80
PineBridge: US Bank Loan	-0.26	1.00	-0.34	-0.40
Symphony: Sr Loan Inst	0.54	-0.34	1.00	0.75
Voya: Senior Loan	0.80	0.40	0.75	1.00

Excess Correlation: Apr 2012 Mar 2017	Credit Suisse: Sr Floating Bank Loan	PineBridge: US Bank Loan	Symphony: Sr Loan Inst	Voya: Senior Loan
Credit Suisse: Sr Floating Bank Loan	1.00	0.14	0.46	0.64
PineBridge: US Bank Loan	0.14	1.00	-0.27	0.24
Symphony: Sr Loan Inst	0.46	-0.27	1.00	0.70
Voya: Senior Loan	0.64	0.24	0.70	1.00



7 and 10 Year Excess Returns Correlations

As of March 2017 Benchmark: C3 Leveraged Loan Index Universe: sA Bank Loan FI Universe Size: 85

Excess Correlation: Apr 2010	Credit Suisse: Sr Floating Bank Loan	PineBridge: US Bank Loan	Symphony: Sr Loan Int	Voya: Senior Loan
Mar 2017	1.00	0.37	0.24	0.28
Credit Suisse: Sr Floating Bank Loan	-0.37	1.00	-0.20	0.04
PineBridge: US Bank Loan	0.24	-0.20	1.00	0.63
Symphony: Sr Loan Int	0.28	0.04	0.63	1.00
Voya: Senior Loan				

Excess Correlation: Apr 2017	Credit Suisse: Sr Floating Bank Loan	PineBridge: US Bank Loan	Symphony: Sr Loan Int	Voya: Senior Loan
Mar 2017	1.00	-0.58	0.36	0.33
Credit Suisse: Sr Floating Bank Loan	-0.08	1.00	0.10	0.56
PineBridge: US Bank Loan	0.36	0.10	1.00	0.38
Symphony: Sr Loan Int	0.33	0.56	0.38	1.00
Voya: Senior Loan				



3 and 5 Year Returns Correlations

As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 43

	Credit Suisse Apr 2014	Credit Suisse Sr Floating Bank Loan	PineBridge US Bank Loan	Symphony Sr Loan Inst	Voya Senior Loan
Credit Suisse Sr Floating Bank Loan		1.00	0.99	0.95	0.98
PineBridge US Bank Loan		0.99	1.00	0.95	0.98
Symphony Sr Loan Inst		0.95	0.95	1.00	0.97
Voya Senior Loan		0.98	0.98	0.97	1.00
CS Leveraged Loan Index		0.99	0.98	0.95	0.98

	Credit Suisse Apr 2014	Credit Suisse Sr Floating Bank Loan	PineBridge US Bank Loan	Symphony Sr Loan Inst	Voya Senior Loan
Credit Suisse Sr Floating Bank Loan		1.00	0.93	0.95	0.97
PineBridge US Bank Loan		0.93	1.00	0.88	0.91
Symphony Sr Loan Inst		0.95	0.88	1.00	0.97
Voya Senior Loan		0.97	0.91	0.97	1.00
CS Leveraged Loan Index		0.98	0.94	0.95	0.97

7 and 10 Year Returns Correlations



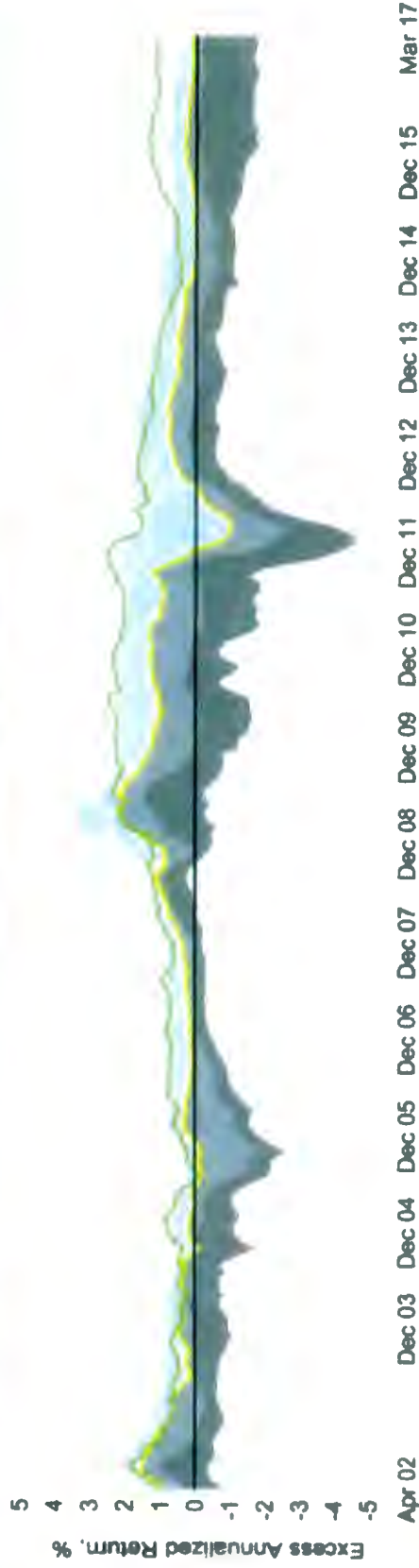
As of March 2017 Benchmark: CS Leveraged Loan Index Universe: sA Bank Loan FI Universe Size: 85



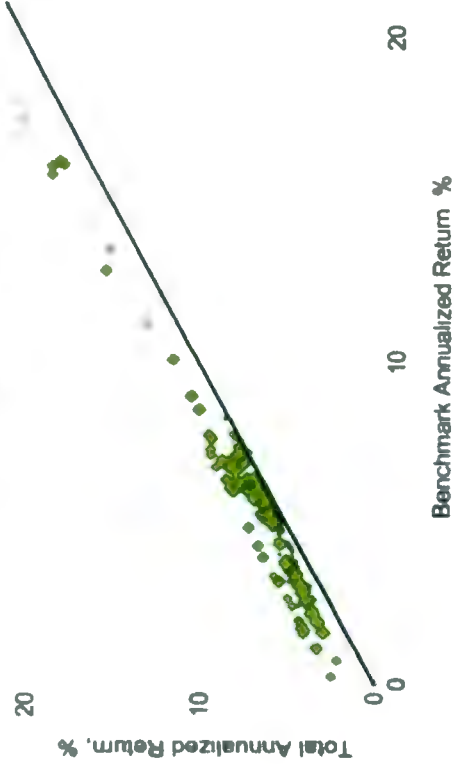
Credit Suisse: Sr Floating Bank Loan - Rolling Performance

As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 83

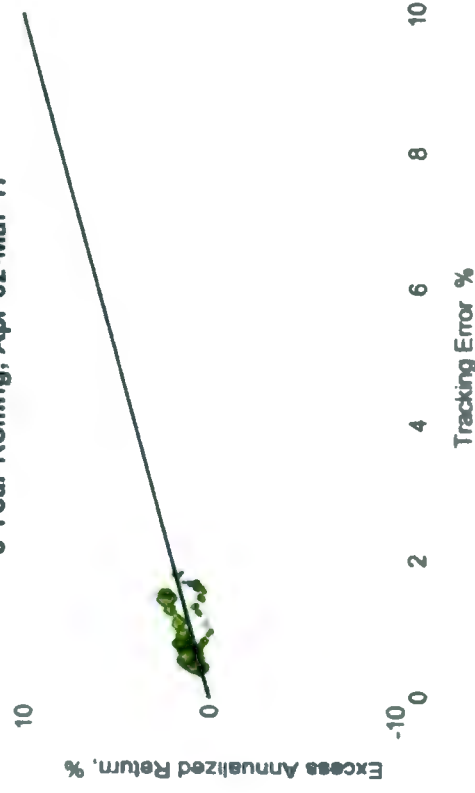
Excess Returns: 3 Year Rolling



3 Year Rolling, Apr 02-Mar 17



3 Year Rolling, Apr 02-Mar 17

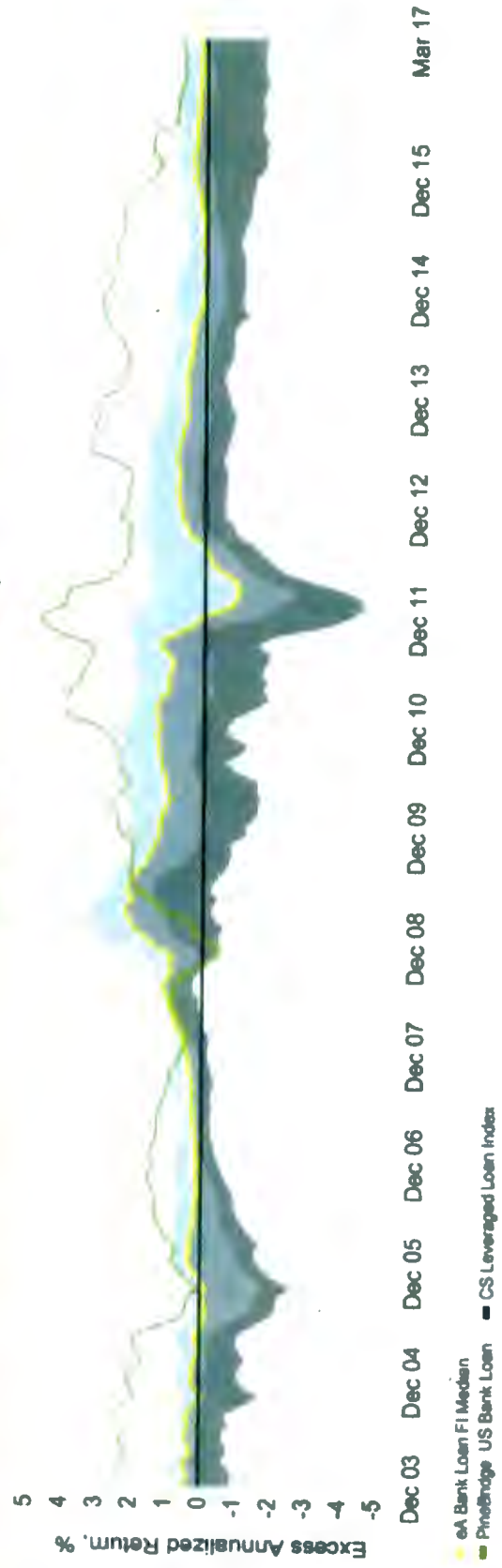


PineBridge: US Bank Loan - Rolling Performance

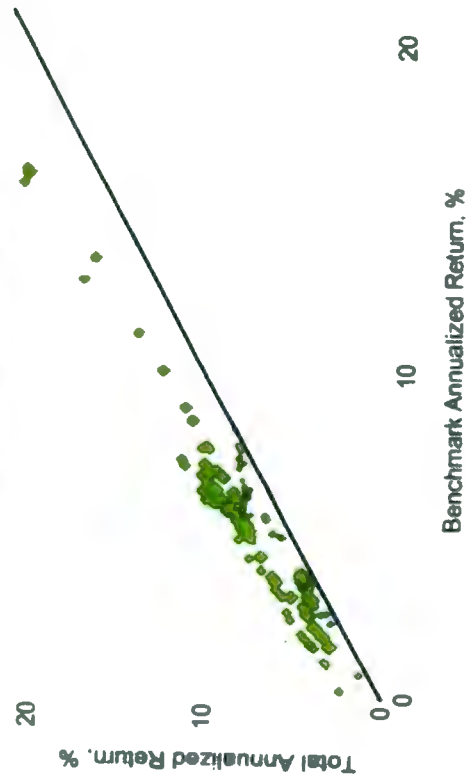
As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universal Size: \$5



Excess Returns: 3 Year Rolling

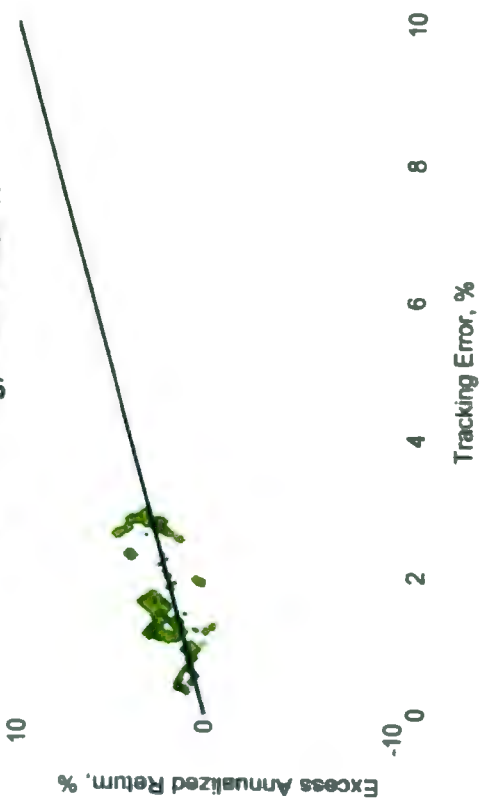


3 Year Rolling, Dec 03-Mar 17



*Bold Line represents 1 to 1 ratio

3 Year Rolling, Dec 03-Mar 17



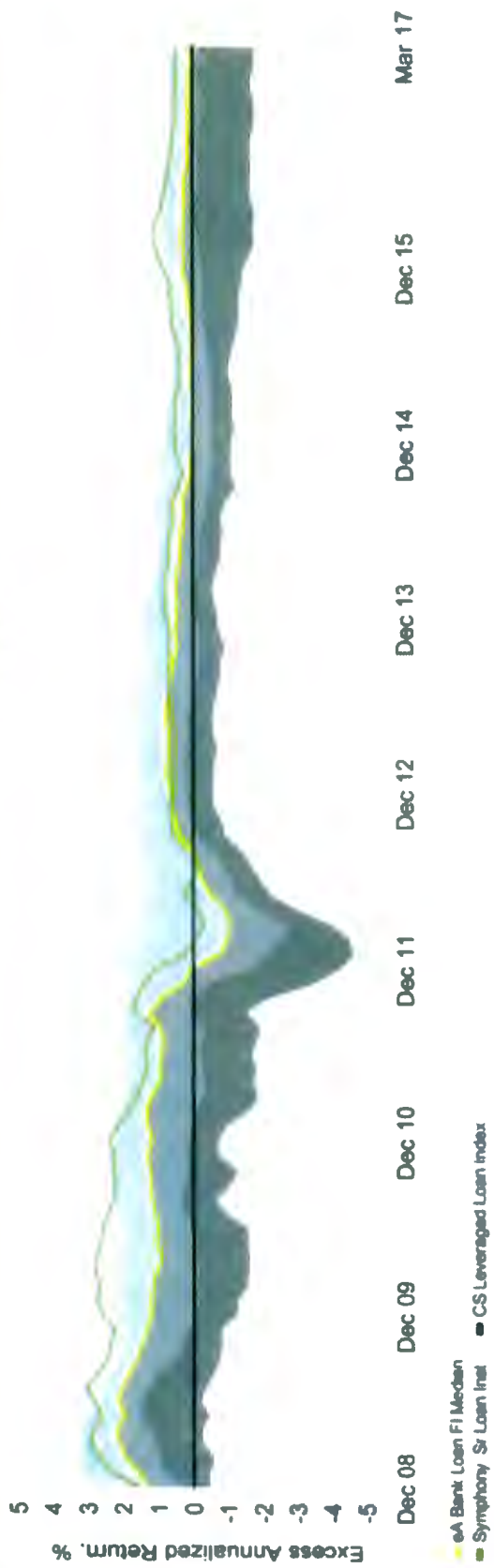
*Bold line represents Information Ratio = 1

Symphony: Sr Loan Inst - Rolling Performance

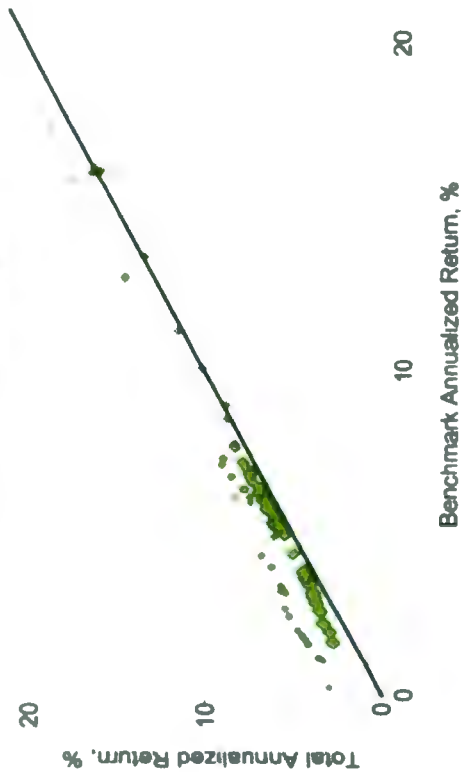


As of March 2017 Benchmark: C&S Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 35

Excess Returns: 3 Year Rolling



3 Year Rolling, Dec 08-Mar 17



*Bold Line represents 1 to 1 ratio

3 Year Rolling, Dec 08-Mar 17



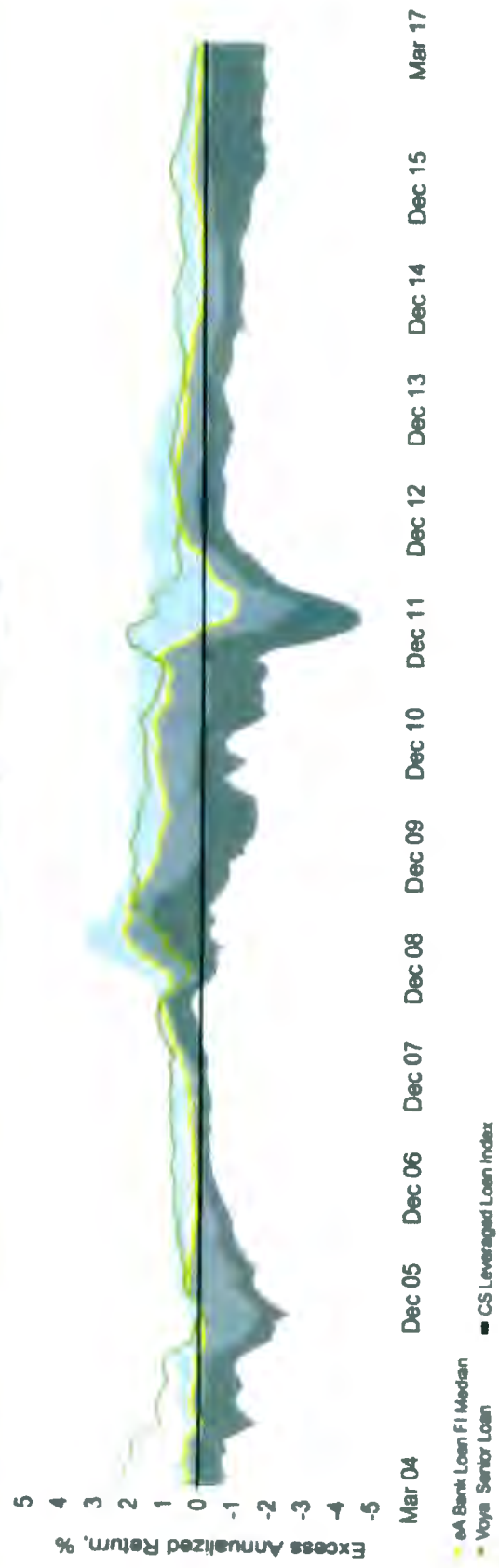
*Bold line represents Information Ratio = 1

Voya: Senior Loan - Rolling Performance

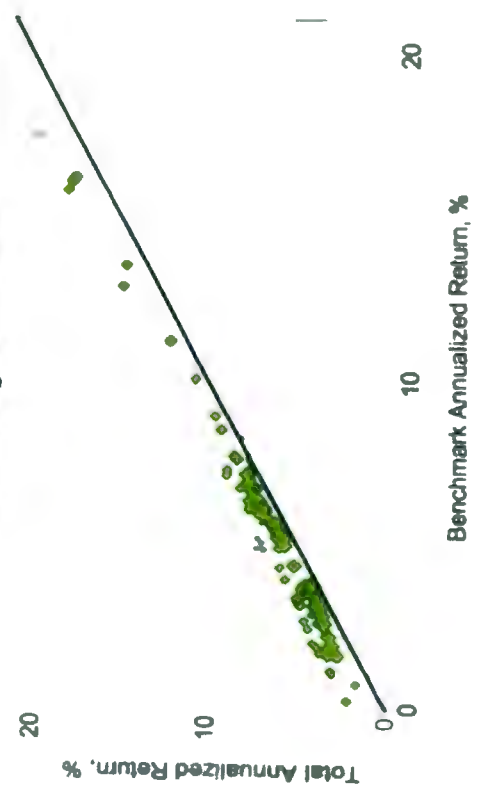
As of March 2017 Benchmark: CS Leveraged Loan Index Universe: eA Bank Loan FI Universe Size: 85



Excess Returns: 3 Year Rolling



3 Year Rolling, Mar 04-Mar 17



3 Year Rolling, Mar 04-Mar 17



Glossary of Terms



Alpha: A manager's rate of return in excess of that which can be explained by its systematic risk represented by Beta. It is a result of the analysis regressing a manager's returns against those of a benchmark index. A positive alpha implies that a manager has added value relative to its benchmark on a risk-adjusted basis.

Batting Average: A measure that shows how consistently a manager outperforms the benchmark. It is calculated by dividing the number of months in which the manager has positive excess returns by the total number of months in the prescribed period.

Beta: A manager's sensitivity to systematic, or market risk. Beta is a result of regressing a manager's returns against those of a benchmark index. A manager with a Beta of 1 should move perfectly with the benchmark. A Beta of less than 1 implies that a manager's returns are less volatile than the market's. A Beta of greater than 1 similarly implies that a manager exhibits greater volatility than the market.

Calendar Year Return: A statistic that shows the annualized returns that a manager generated over the course of a single calendar year.

Calmar Ratio: This ratio is calculated by dividing the Compounded Annual Return of a manager by the absolute value of the Max Drawdown of that manager. A higher Calmar Ratio is desirable as it is indicative of better manager efficiency.

Downside Semi-Standard Deviation: Downside Semi-Standard Deviation measures the volatility of the manager's negative absolute returns. The larger that this statistic becomes, the more risky the manager is assumed to be.

Excess Return: The amount of return that a manager generated above the return of a stated benchmark.

Excess Returns Correlation: This represents the strength of the relationship between two different managers or indices' excess returns. The values of this measure can range anywhere between negative and positive 1. A value of positive 1 indicates a perfect positive correlation, while a value of negative 1 indicates a perfect negative correlation.

Information Ratio: A measure of a manager's active return per unit of active risk. It is the ratio of a manager's excess return over the manager's tracking error of the benchmark. A higher Information Ratio implies greater manager efficiency.

Max Drawdown: This is the calculated return of the worst "peak to valley" period for a manager over a prescribed time period. A relatively high value is desirable as it indicates that the manager has generated less poor performance.

Sharpe Ratio: A measure of a manager's return per unit of risk. It is the ratio of a manager's excess return over the risk-free rate (ML 3m T-Bill Index) divided by the standard deviation. A higher Sharpe Ratio implies greater manager efficiency.

Glossary of Terms



Standard Deviation (or Risk): Standard Deviation is a measure of the extent to which observations in a series vary from the arithmetic mean of the series. This measure of volatility or risk allows the estimation of a range of values for a manager's returns. The wider the range, the more uncertainty, and therefore the riskier a manager is assumed to be.

Style Map: This illustrates the relationship that the style of a manager has with the style of different stated benchmarks. This is calculated by running regressions using different risk factors of the managers and indices to determine the most appropriate style fit.

Style R-Squared: A measure to show how closely the style of a manager follows the style of a stated benchmark. The closer the value of the Style R-Squared to 100% the more closely the manager follows the style of the index.

Total Annualized Return: A statistic to show the average annualized return that a manager generated over a prescribed period of time.

Tracking Error: A measure of the extent to which a manager's returns diverge from its benchmark's returns. It is the Standard Deviation of the excess return series. The lower the Tracking Error, the more closely a manager tracks its benchmark index.

Treynor Ratio: This ratio is calculated by dividing the manager's excess return over the risk-free rate (ML 3m T-Bill Index) divided by the manager's Beta. A higher value is desirable as it indicates that the manager generates better returns per unit of systematic risk.