

Banking/Treasury Management For Today and Tomorrow

Easier. Optimized. More efficient.

Elyse Trout Steve Broerman

usbank.

Evolution of traditional electronic payments

Address end users' needs for efficiency and speed

ISO20022 Fedwire	Same Day ACH
 Improve efficiency and promote interoperability among high-value payment systems Federal Reserve migrating to the ISO 20022 standard To be completed by late 2023 	 Increase speed of ACH payments Sign up required for origination service

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Real-Time Payments (RTP)

First new U.S. payment infrastructure in over 40 years

- Supports extensive messaging
 - Request for Payment
 - Request for Information
 - Payee Payment Acknowledgement
- U.S. Bank participated in 1st Real-Time Payment
- Potential use cases include expedited vendor payments



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Real-Time Payments (RTP)

Enhance payment efficiency and control

- Supports extensive messaging to reduce manual exception handling
- U.S. Bank is one of first banks in nation to support this new payment option



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Disbursements via Zelle

Increase electronic payment usage

- Send payments using email or mobile number
 - Next-day and real-time payments
- Potential use case includes one-time payments such as refunds



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Disbursements via Zelle

Increase electronic payment adoption

- Uses payees' email and mobile information
- · Payments can be next-day or real-time
- · Available for direct transmission
 - Additional delivery channels to follow



Innovate Payments



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Put your liquid assets to work

- If you hold significant cash balances in deposit accounts
 - Due to regulatory or investment policy restrictions
 - Because you need daily access to funds
 - As an easy and safe way to manage your liquidity
- You can leverage our Liquidity Advantage solutions
 - Gain a better return
 - Simplify your reporting



Help optimize your working capital



- Increase the power of your checking or money market deposit accounts
- Earn a competitive rate on your deposit relationships
- · Retain daily access to funds
 - Leverage the flexibility of checking or money market deposit account transactions while earning interest

Benefit from maximized earnings

- Earn a competitive rate on liquid balances without increased risk when you commit to holding a balance for a specified period of time
- Aggregate your account balances to help gain an advantage you wouldn't receive for an individual/smaller account



Earnings credit offset is applied

- · Earnings credit can be used to offset fees
- · Total amount of interest paid is subtracted from earnings credit before it's used to offset fees
- If interest paid is greater than earnings credit, there will be \$0 in net earnings credit to offset analysis fees

Example:	
Earnings Credit Based Service Charges	\$30,000.00
Earnings Credit Eligible Balances	\$100,000,000.00
Earnings Credit @ 0.35%	\$29,726.23
Minus Interest Paid on Balances	(\$88,161.24)
Net Earnings Credit	\$0.00

Rates and terms are used for illustration purposes only.

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Sample customer analysis statement

Consolidated Analysis S	Summary					
SAMPLE CUSTOMER A			Lead Account Number Negative Collected Rate Reserve Adjustment Rate † Settlement Frequency Settlement Period REVISED: Jun. 4, 201X	7.2 0.0 Qu	134-5678-9012 15% 10% arterly 1e 201X	_
Balance Summary				2		
Average Ledger Balance Average Float Average Collected Balance	\$ - =	14,760,748.65 0.00 14,760,748.65				
Interest Payment Detail				s	14,760,770.42	
Avg Committed Balance Portion of				s	9,999,999,00	
Avg Committed Balance Portion of Interest Calculated for Committed I	Collected Bala			-		
Interest Calculated for Committed I	Collected Bala Balances	ances		s	9,999,999.00	
	Collected Bala Balances f Collected Bal	ances		s	9,999,999.00 11,635.61	
Interest Calculated for Committed I Avg Daily Liquid Balance Portion o Interest Calculated for Daily Liquid	Collected Bala Balances f Collected Bal Balances @ 0	ances Jances J.24999%		s	9,999,999.00 11,635.61 4,760,771.42	
Interest Calculated for Committed I Avg Daily Liquid Balance Portion o	Collected Bala Balances f Collected Bal Balances @ 0	ances Jances J.24999%		s s s	0.000.000.00 11.835.81 4.760.771.42 1.010.84	
Interest Calculated for Committed I Avg Daily Liquid Balance Portion o Interest Calculated for Daily Liquid Gross Interest Calculated at Aggre	Collected Bala Balances f Collected Bal Balances @ 0 gate Level @	ances Jances J.24999%		s s s	9,999,999.00 11,835.61 4,760,771.42 1,010.84	
Interest Calculated for Committed I Avg Daily Liquid Balance Portion o Interest Calculated for Daily Liquid Gross Interest Calculated at Aggre Interest Paid to Related Accounts	Collected Bala Balances f Collected Bal Balances @ 0 gate Level @	ances Jances J.24999%		s s s	9,999,999.00 11,835.61 4,760,771.42 1,010.84 12,848.46 874.50	
Interest Calculated for Committed May Daily Liquid Bahnee Portion on Interest Calculated for Daily Liquid Gross Interest Calculated at Aggre Interest Paid to Related Accounts Net Interest Paid at Aggregate Lev Settlement Analysis Collegate Balance Acadibite for Ea	Collected Bala Balances f Collected Bal Balances @ 0 gate Level @ el	ances lances 1.24999%		s s s	0,000,000,00 11,035,01 4,760,771,42 1,010,84 12,040,46 074,50 11,071,98 14,760,748,65	
Interest Calculated for Committed Any Daily Liquid Bannee Perion on Interest Calculated for Daily Liquid Gross Interest Calculated at Aggre Interest Paid to Related Accounts Net Interest Paid at Aggregate Lev Settlement Analysis	Collected Bala Balances f Collected Bal Balances @ 0 gate Level @ el	ances lances 1.24999%		\$ \$ \$ \$	0.000.000.00 11.035.61 4.760,771.42 1.010.84 12.046.48 674.50 11.071.90	

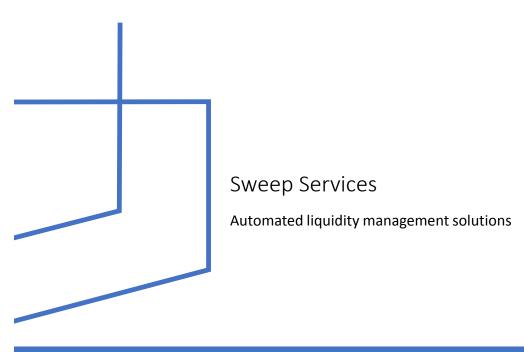
- Statement section to show interest payment summary information for balance tranches
- Settlement Analysis section includes interest payment information

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Sample Depository Account Statement

Account Su	ummary							
Beginning Ba Other Deposi	lance on May 1 Its	# Items 1	\$	11,971.96 0.01	Interest Paid th Number of Day	nis Year /s in Statement Period		\$11,971.97 31
Ending	Balance on May	31, 201X	\$	11,971.97				
Other De	posits Description of Tr	ansaction				Ref Number		Amount
May 1	Payment			Aggregate Level		01000000		11,971.96
May 29	Interest Paid					0		0.01
					То	tal Other Deposits	\$	11,971.9
Balance S		Balance	Date	F	nding Balance			
May 1	11,971,96		May 29		.971.97			
	only appear for da							
Γ	let interest	paid at				Interest paid a	it the inc	dividual
	e relationsh					related ac		

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How Sweep Services work

- Automatically:
 - Moves excess balances between deposit and investment or savings accounts
 - Transfers between deposit account and loan
- Transfers occur after all transactions have posted to deposit account



Questions to help identify your needs:



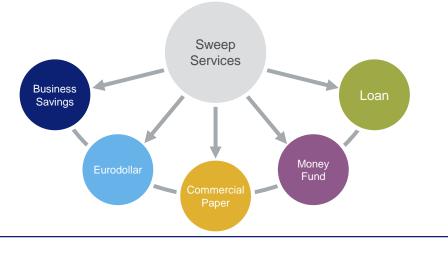
- Do you have an automated approach to meeting your liquidity needs?
- Do you transfer your excess cash to an investment account outside of U.S. Bank?
- Do you want to reduce the deposit coverage fee assessed to your checking account?
- If you have a credit relationship with U.S. Bank...
 - Do you want to ensure your operations are appropriately funded?

Primary features and benefits

- Optimize your working capital
 - Put excess cash to work
 - Ensure operations are appropriately funded
- Save time with automatic transfers
- Streamline by consolidating your investment dollars



Automated liquidity solutions to fit your needs





Prevent, detect and uncover check fraud

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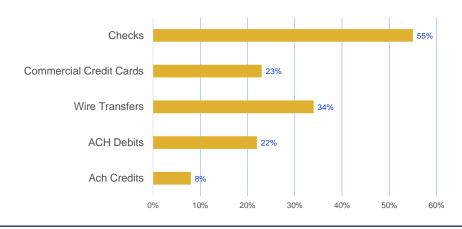
How check fraud impacts us

- U.S. businesses loss an estimated \$18.7 billion annually*
- Restitution is unlikely
- Recovery may be possible



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Attempted or actual payment fraud



Percent of all organizations by payment method | 2016

Source: 2017 AFP Payments Fraud and Control Survey

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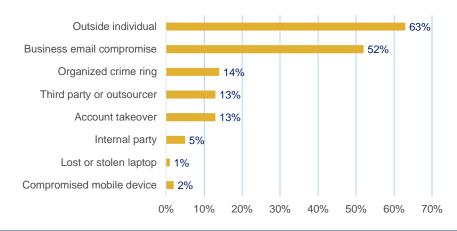
Why is there so much check fraud?

Low risk method	Low barriers to entry	Access to account information	Check fraud schemes
• Too many check fraud reports make it hard to follow up on all of them	 Readily available scanners, printers and software Relatively easy access to the banking system 	 Online auctions, classified ads and dating services Mail theft and phishing 	 International aspects of some schemes increase the complexity and severity of fraud

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When financial loss occurred

Sources of attempted/actual payments fraud | 2016

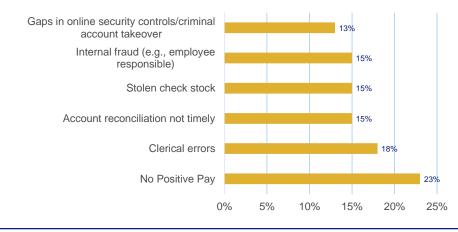


Source: 2017 AFP Payments Fraud and Control Survey

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Reasons for financial loss due to check fraud

Results | 2016

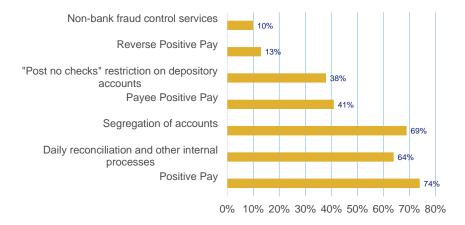


Source: 2017 AFP Payments Fraud and Control Survey



Procedures used to guard against check fraud

Results | 2016



Source: 2017 AFP Payments Fraud and Control Survey

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Use bank fraud prevention services



- Positive Pay
 - Payee verification
 - Issue maintenance
- Reverse Positive Pay
- Check filter
- ACH blocks and filters
- ACH Positive Pay
- Electronic alternatives

00) Identifier 250 912828SH 250 912828D8 250 912828VV 250 912828RC 250 912828L2 250 912828MB 500 250 3133EGBG	ISSUEY NAME UNITED STATES TREAS NTS UNITED STATES TREAS NTS	Mdys TSY TSY TSY TSY TSY TSY	S&P TSY TSY TSY TSY TSY	Coupon 1.375 1.625 2.125 2.125	08/31/2019 08/31/2020	99.176	YTW 2.111 2.215		Dur (Par) Sector 0.911 TSY 1.402 TSY	Avg Life 0.917 1.417	(Par) 0.008 0.013	% Held (MV) 5.01	Mod Dur 0.914	Call Date N/A	Mkt Val (000) 249
250 912828D8 250 912828VV 250 912828RC 250 912828RC 250 912828L2 250 912828MB 500	UNITED STATES TREAS NTS UNITED STATES TREAS NTS UNITED STATES TREAS NTS UNITED STATES TREAS NTS	TSY TSY TSY TSY	TSY TSY TSY	1.625 2.125	08/31/2019 08/31/2020	99.176								N/A	
250 912828VV 250 912828RC 250 912828L2 250 912828M8 500	UNITED STATES TREAS NTS UNITED STATES TREAS NTS UNITED STATES TREAS NTS	TSY TSY TSY	TSY TSY	2.125	08/31/2020		2.215	2.215	1 402 TSY		0.040				
250 912828RC 250 912828L2 250 912828M8 500	UNITED STATES TREAS NTS UNITED STATES TREAS NTS	TSY TSY	TSY			00 453						5.01	1.399	N/A	248
250 912828L2 250 912828M8 500	UNITED STATES TREAS NTS	TSY		2.125			2.358	2.358	2.354 TSY	2.417	0.035		2.347	N/A	249
250 912828MB 500			TSY		08/15/2021	98.859	2.478	2.478	3.247 TSY	3.417	0.064	5.00		N/A	248
500	UNITED STATES TREAS NTS	TSY		1.875	08/31/2022	97,176	2.554		4.227 TSY	4.417	0.103	4.91	4.206	N/A	240
			TSY	2.000	11/30/2022	97.520	2.566		4.421 TSY	4.667	0.112		4.401	N/A	245
250 3133EGBG		Aaa	AA+	1.854	2.871	98.593		2.379		2.866	0.056		2.742	in A	1.482
	FEDERAL FARM CR BKS	AGY	AA+	1.000	08/23/2018	99.677	1.801		0.366 AGY	0.417	-0.028	5.03	0.402	11/23/2017	249
250 3134G3K7	FEDERAL HOME LN MTG CORP	AGY	AA+	1.200	09/24/2018	99.641	1.937		0.486 AGY	0.500	0.008	5.02	0.487	N/A	249
250 3137EADG	FEDERAL HOME LN MTG CORP	AGY	AA+	1.750	05/30/2019	99.473	2.206		1.149 AGY	1.167	0.010	5.04	1.152	N/A	249
250 3133EJDA	FEDERAL FARM CR BKS	AGY	AA+	2.940	02/15/2023										250
250 3137EAEK	FEDERAL HOME LN MTG CORP	AGY	AA+	1.875											248
250 3135G0K6	FEDERAL NATL MTG ASSN	AGY	AA+												248
250 3130AABG	FEDERAL HOME LOAN BANKS	AGY	AA+												
250 3135G0T4	FEDERAL NATL MTG ASSN	AGY	AA+												246
000		Aaa	AA+											N/A	246
250 83172HDR	SMARTBANK PIGEON FORGE TENN	N/A	N/A											b1/A	1,981 249
250 55266CYJ	MB FINL BK NA CHIC. IL	N/A	N/A	2.250											249
250 85916VCH	STERLING BK POPLAR BLUFF MO	N/A	N/A	2.200											249
250 61747MK7	MORGAN STANLEY BK N A UTAH	N/A	N/A												
250 254673MG	DISCOVER BK														250
250 795450K9	SALLIE MAE BK SLT LAKE CITY														250
500		N/A	N/A											N/A	249 1,496
			AA+		1.001	00.041									
	50 3137EAEK 50 3135G0K6 50 3135G0T4 00 50 83172HDR 50 83172HDR 50 85266CYJ 50 85916VCH 50 61747MK7 50 254673MG 50 795450K9	50 31372-AEK FEDERAL HOME LIMITG CORP 50 3132630K5 FEDERAL NATL MITG ASSN 50 3130A365 FEDERAL INATL MITG ASSN 50 50 3130A367 50 3130A367 FEDERAL INATL MITG ASSN 50 50 31374DR 50 31374DR SMARTBANK PIGEON FORGE TENN 50 55286CYJ MB FINL BK NA CHIC, IL 50 5614707MK7 MORGAN STANLEY BK N A UTAH 50 35436XK9 SALUE MAE BK SLT LAKE CITY 50 35436XK9 SALUE MAE BK SLT LAKE CITY 50 361 SALUE MAE BK SLT LAKE CITY	50 3137EAEK FEDERAL HOME LINITG CORP AGY 50 3136500K6 FEDERAL HOME LOAN BANKS AGY 50 3136400K6 FEDERAL HOME LOAN BANKS AGY 50 3136400K7 FEDERAL HOME LOAN BANKS AGY 50 3136400K7 FEDERAL NATL MTG ASSN AGY 50 3120A80 FEDERAL NATL MTG ASSN AGY 50 35127HDR SMARTBANK PIGEON FORGE TENN N/A N/A 50 55286CYJ MB FINL BK NA CHIC IL N/A 50 56149/CH STERLING BK POPLAR BLUFF MO N/A 50 56149/CH STERLING BK POPLAR BLUFF MO N/A 50 562466/CYJ OBCOVER BK N/A 50 562466/CYJ SALLIE MAE BK SLT LAKE CITY N/A 50 784630K8 SALLIE MAE BK SLT LAKE CITY N/A 50 786430K8 SALLIE MAE BK SLT LAKE CITY N/A	50 3137EAEK FEDERAL NOME LN MTG CORP AGY AA+ 50 3136G0K5 FEDERAL NATL MTG ASSN AGY AA+ 50 3136G0K5 FEDERAL NATL MTG ASSN AGY AA+ 50 3136AG0K5 FEDERAL NATL MTG ASSN AGY AA+ 50 3136G0T4 FEDERAL NATL MTG ASSN AGY AA+ 50 50 50 AGY AA+ 50 50 50 AGY AA+ 50 50 50 AGY AA+ 50 50 5173/MK7 MARTBANK PIGEON FORGE TENN N/A N/A 50 558172/HDR STERLING BK POPLAR BLUFF MO N/A N/A N/A 50 51747/MK7 MORGAN STANLEY BK N A UTAH N/A N/A N/A 50 54747/MK7 MORGAN STANLEY BK N A UTAH N/A N/A N/A 50 54747/MK7 MORGAN STANLEY BK N/A N/A N/A 50 5954500K9 SLLIE MAE BK SLT LAKE C	50 3137EAEK FEDERAL HOME LN MTG CORP AGY AA+ 1.875 50 3133G0K5 FEDERAL NATL MTG ASSN AGY AA+ 1.280 50 3130AGK5 FEDERAL NATL MTG ASSN AGY AA+ 1.875 50 3130S014 FEDERAL NATL MTG ASSN AGY AA+ 1.875 50 313SG014 FEDERAL NATL MTG ASSN AGY AA+ 1.875 50 50 50 S0 AA+ 1.875 50 50 S0 NA N/A 2.100 50 558172HDR SMARTBANK PIGEON FORGE TENN N/A N/A 2.250 50 565163VCH STERLING BK POPLAR BLUFF MO N/A N/A 2.500 50 514747MK7 MORGAN STANLEY BK N A UTAH N/A N/A 2.600 50 5475450K9 SALLIE MAE BK SLT LAKE CITY N/A N/A 2.400 50 50 SALSOK9 SALLIE MAE BK SLT LAKE CITY N/A N/A 2.400	50 3137EAEK FEDERAL HOME LN MTG CORP AGY AA+ 1.875 11/17/2020 50 3136GK6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/17/2020 50 3136GK6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/17/2020 50 3135G014 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/21/2012 50 3135G014 FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2022 60 50 50 50 AA+ 1.875 04/05/2022 50 50 3172HDR SMARTBANK PIGEON FORGE TENN N/A N/A 2.260 02/14/2020 50 55856CYJ MB FINL BK NA CHIC. IL N/A N/A 2.260 02/14/2020 50 51477/MKT MGRGAN STANLEY BK NA UTAH N/A N/A 2.600 02/14/2022 50 53795450K9 SALLIE MAE BK SLT LAKE CITY N/A N/A 2.600 02/15/2023 50 50 <td< td=""><td>50 31374-EK FEDERAL HOME IN MITG CORP AGY AA+ 1.875 1/17/2020 96.526 50 3136/30K6 FEDERAL HOME ID ANTG CORP AGY AA+ 1.875 1/17/2020 96.526 50 3136/30K6 FEDERAL NATL MITG ASSN AGY AA+ 1.875 1/17/2020 96.526 50 3136/30G74 FEDERAL HOME ID AN BANKS AGY AA+ 1.875 1/12/3021 97.784 50 3136/30G74 FEDERAL NATL MITG ASSN AGY AA+ 1.875 1/12/3021 99.526 50 3137/2HDR SMARTBANK PIGEON FORGE TENN N/A N/A 2.400 1/12/2021 99.526 50 58266/CVJ MB FINL BK NCHCIL N/A N/A 2.200 05/28/2020 99.265 50 61470/MK7 MORGAN STANLEY BK N A UTAH N/A N/A 2.500 02/14/2021 99.265 50 7894630K9 SALLIE MAE BK SLT LAKE CITY N/A N/A 2.700 02/12/2022 99.265 50 7894630K9 SALLIE MAE BK SLT LAKE CITY N/A N/A 2.600 02/14/2022</td><td>50 31375AEK FEDERAL HOME LM NTG CORP AGY AA+ 1.875 11/17/2020 96.528 2.455 50 3135G0K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/17/2020 96.528 2.455 50 3135G0K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/17/2020 96.528 2.455 50 3135G0K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/07/2012 96.542 2.578 50 315GA8G FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2022 97.331 2.578 50 315GA9K MARTBANK PIGEON FORGETENN N/A N/A 2.400 05/23/2020 99.579 2.496 50 55286C7V, MB FINLE NK CHIC, IL N/A N/A 2.200 05/23/2020 99.572 2.496 50 51747/MK7 MORGAN STANLEY BK NA UTAH N/A 2.500 02/14/2022 99.562 2.546 50 5024673/MG DISCOVER BK N/A N</td><td>50 31374AEK FEDERAL HOME IN MITG CORP AGY AA+ 1.875 11/17/2020 96.526 2.455 2.455 2.455 2.455 2.455 2.455 2.452 2.578 2.578 2.578 2.578 2.578 2.578 2.578 2.578 2.578 2.578 2.578 2.558 55265(27) 99.582 2.382 2.362 2.362 2.365 55265(27) 99.575 2.490<!--</td--><td>50 31372AEK FEDERAL HOME LIN MTG CORP AGY AA+ 1.675 51/1/7/2020 96.525 2.455 2.456 2.456 3.634 AGY 50 3136G0K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/1/72020 96.525 2.455 2.456 3.616 AGY 50 3136G0K6 FEDERAL NOME LOAN BANKS AGY AA+ 1.875 11/1/72020 97.784 2.570 3.515 AGY 50 31363G0T4 FEDERAL NOME LOAN BANKS AGY AA+ 1.875 11/27/201 97.784 2.570 3.582 AGY 50 31372ME SMARTBANK PIGEON FORGE TENN N/A AA+ 1.875 11/27/2019 99.548 2.386 2.386 1.627 MM 50 53172HDR SMARTBANK PIGEON FORGE TENN N/A N/A 2.100 11/27/2019 99.548 2.386 1.825 MM 50 58916VCH STERLING RK POPLAR BLUFF MO N/A N/A 2.200 0/2/14/202 99.572 2.546 2.102 MM 50</td><td>50 3135GAGK FEDERAL HOME LIMING CORP AGY AA+ 1.875 11/17/2020 96.525 2.455 2.468 A.31 4.11 50 3135G0KG FEDERAL HOME LIMING SORP AGY AA+ 1.875 11/17/2020 96.525 2.455 2.468 A.31 3.063 50 3135G0KG FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2021 96.424 2.455 2.458 2.455 2.548 A.637 3.083 50 3153GAGKG FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2022 97.331 2.578 3.783 3.283 A4 50 3153GAGY FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2022 97.331 2.582 2.548 2.454 2.452 2.451 <t< td=""><td>50 31374-EK FEDERAL HOME IN MITG CORP AGY AA+ 1.875 11/17/2001 96.525 2.485</td><td>50 3135EJDA FEDERAL FARM CR BKS AGY AA+ 2.80 0.2152023 98.872 2.988 2.455 2.458 2.455 2.458 2.568 2.578 3.23 3.058 0.026 4.95 50 3.035004 FEDERAL NATL MTG ASSN AGY AA+ 1.875 0.4005 9.578 2.382 2.386 1.621 MM 5.05 5.05 5.05 2</td><td>50 3133EJDA FEDERAL FARM CR BKS AGY AA+ 2.940 02/15/2023 96.873 2.686 2.682 2.864 AGY 4.917 -1.511 5.05 4.503 50 3137EAEK FEDERAL NOME LINMTG ASSN AGY AA+ 1.875 11/17/2020 96.525 2.686 2.682 2.684 AGY 4.617 -1.511 5.05 4.503 50 313560K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/17/2020 96.424 2.452 3.016 AGY 3.083 0.005 4.863 3.095 50 31350GV4 FEDERAL HOME LOAN BANKS AGY AA+ 1.875 11/12/2020 97.341 2.510 2.515 3.623 0.066 4.963 3.880 0.005 4.683 3.806 0.005 4.683 3.806 0.006 4.963 4.900 0.006 4.953 3.806 3.651 4.000 0.006 4.953 3.806 3.650 1.161 0.174 4.963 4.900 0.005 4.93 4.900</td><td>50 3133EJLA FEDERAL FARM CR BKS AGY AA+ 2.940 02/15/2023 98.873 2.988</td></t<></td></td></td<>	50 31374-EK FEDERAL HOME IN MITG CORP AGY AA+ 1.875 1/17/2020 96.526 50 3136/30K6 FEDERAL HOME ID ANTG CORP AGY AA+ 1.875 1/17/2020 96.526 50 3136/30K6 FEDERAL NATL MITG ASSN AGY AA+ 1.875 1/17/2020 96.526 50 3136/30G74 FEDERAL HOME ID AN BANKS AGY AA+ 1.875 1/12/3021 97.784 50 3136/30G74 FEDERAL NATL MITG ASSN AGY AA+ 1.875 1/12/3021 99.526 50 3137/2HDR SMARTBANK PIGEON FORGE TENN N/A N/A 2.400 1/12/2021 99.526 50 58266/CVJ MB FINL BK NCHCIL N/A N/A 2.200 05/28/2020 99.265 50 61470/MK7 MORGAN STANLEY BK N A UTAH N/A N/A 2.500 02/14/2021 99.265 50 7894630K9 SALLIE MAE BK SLT LAKE CITY N/A N/A 2.700 02/12/2022 99.265 50 7894630K9 SALLIE MAE BK SLT LAKE CITY N/A N/A 2.600 02/14/2022	50 31375AEK FEDERAL HOME LM NTG CORP AGY AA+ 1.875 11/17/2020 96.528 2.455 50 3135G0K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/17/2020 96.528 2.455 50 3135G0K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/17/2020 96.528 2.455 50 3135G0K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/07/2012 96.542 2.578 50 315GA8G FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2022 97.331 2.578 50 315GA9K MARTBANK PIGEON FORGETENN N/A N/A 2.400 05/23/2020 99.579 2.496 50 55286C7V, MB FINLE NK CHIC, IL N/A N/A 2.200 05/23/2020 99.572 2.496 50 51747/MK7 MORGAN STANLEY BK NA UTAH N/A 2.500 02/14/2022 99.562 2.546 50 5024673/MG DISCOVER BK N/A N	50 31374AEK FEDERAL HOME IN MITG CORP AGY AA+ 1.875 11/17/2020 96.526 2.455 2.455 2.455 2.455 2.455 2.455 2.452 2.578 2.578 2.578 2.578 2.578 2.578 2.578 2.578 2.578 2.578 2.578 2.558 55265(27) 99.582 2.382 2.362 2.362 2.365 55265(27) 99.575 2.490 </td <td>50 31372AEK FEDERAL HOME LIN MTG CORP AGY AA+ 1.675 51/1/7/2020 96.525 2.455 2.456 2.456 3.634 AGY 50 3136G0K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/1/72020 96.525 2.455 2.456 3.616 AGY 50 3136G0K6 FEDERAL NOME LOAN BANKS AGY AA+ 1.875 11/1/72020 97.784 2.570 3.515 AGY 50 31363G0T4 FEDERAL NOME LOAN BANKS AGY AA+ 1.875 11/27/201 97.784 2.570 3.582 AGY 50 31372ME SMARTBANK PIGEON FORGE TENN N/A AA+ 1.875 11/27/2019 99.548 2.386 2.386 1.627 MM 50 53172HDR SMARTBANK PIGEON FORGE TENN N/A N/A 2.100 11/27/2019 99.548 2.386 1.825 MM 50 58916VCH STERLING RK POPLAR BLUFF MO N/A N/A 2.200 0/2/14/202 99.572 2.546 2.102 MM 50</td> <td>50 3135GAGK FEDERAL HOME LIMING CORP AGY AA+ 1.875 11/17/2020 96.525 2.455 2.468 A.31 4.11 50 3135G0KG FEDERAL HOME LIMING SORP AGY AA+ 1.875 11/17/2020 96.525 2.455 2.468 A.31 3.063 50 3135G0KG FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2021 96.424 2.455 2.458 2.455 2.548 A.637 3.083 50 3153GAGKG FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2022 97.331 2.578 3.783 3.283 A4 50 3153GAGY FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2022 97.331 2.582 2.548 2.454 2.452 2.451 <t< td=""><td>50 31374-EK FEDERAL HOME IN MITG CORP AGY AA+ 1.875 11/17/2001 96.525 2.485</td><td>50 3135EJDA FEDERAL FARM CR BKS AGY AA+ 2.80 0.2152023 98.872 2.988 2.455 2.458 2.455 2.458 2.568 2.578 3.23 3.058 0.026 4.95 50 3.035004 FEDERAL NATL MTG ASSN AGY AA+ 1.875 0.4005 9.578 2.382 2.386 1.621 MM 5.05 5.05 5.05 2</td><td>50 3133EJDA FEDERAL FARM CR BKS AGY AA+ 2.940 02/15/2023 96.873 2.686 2.682 2.864 AGY 4.917 -1.511 5.05 4.503 50 3137EAEK FEDERAL NOME LINMTG ASSN AGY AA+ 1.875 11/17/2020 96.525 2.686 2.682 2.684 AGY 4.617 -1.511 5.05 4.503 50 313560K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/17/2020 96.424 2.452 3.016 AGY 3.083 0.005 4.863 3.095 50 31350GV4 FEDERAL HOME LOAN BANKS AGY AA+ 1.875 11/12/2020 97.341 2.510 2.515 3.623 0.066 4.963 3.880 0.005 4.683 3.806 0.005 4.683 3.806 0.006 4.963 4.900 0.006 4.953 3.806 3.651 4.000 0.006 4.953 3.806 3.650 1.161 0.174 4.963 4.900 0.005 4.93 4.900</td><td>50 3133EJLA FEDERAL FARM CR BKS AGY AA+ 2.940 02/15/2023 98.873 2.988</td></t<></td>	50 31372AEK FEDERAL HOME LIN MTG CORP AGY AA+ 1.675 51/1/7/2020 96.525 2.455 2.456 2.456 3.634 AGY 50 3136G0K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/1/72020 96.525 2.455 2.456 3.616 AGY 50 3136G0K6 FEDERAL NOME LOAN BANKS AGY AA+ 1.875 11/1/72020 97.784 2.570 3.515 AGY 50 31363G0T4 FEDERAL NOME LOAN BANKS AGY AA+ 1.875 11/27/201 97.784 2.570 3.582 AGY 50 31372ME SMARTBANK PIGEON FORGE TENN N/A AA+ 1.875 11/27/2019 99.548 2.386 2.386 1.627 MM 50 53172HDR SMARTBANK PIGEON FORGE TENN N/A N/A 2.100 11/27/2019 99.548 2.386 1.825 MM 50 58916VCH STERLING RK POPLAR BLUFF MO N/A N/A 2.200 0/2/14/202 99.572 2.546 2.102 MM 50	50 3135GAGK FEDERAL HOME LIMING CORP AGY AA+ 1.875 11/17/2020 96.525 2.455 2.468 A.31 4.11 50 3135G0KG FEDERAL HOME LIMING SORP AGY AA+ 1.875 11/17/2020 96.525 2.455 2.468 A.31 3.063 50 3135G0KG FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2021 96.424 2.455 2.458 2.455 2.548 A.637 3.083 50 3153GAGKG FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2022 97.331 2.578 3.783 3.283 A4 50 3153GAGY FEDERAL NATL MTG ASSN AGY AA+ 1.875 04/05/2022 97.331 2.582 2.548 2.454 2.452 2.451 <t< td=""><td>50 31374-EK FEDERAL HOME IN MITG CORP AGY AA+ 1.875 11/17/2001 96.525 2.485</td><td>50 3135EJDA FEDERAL FARM CR BKS AGY AA+ 2.80 0.2152023 98.872 2.988 2.455 2.458 2.455 2.458 2.568 2.578 3.23 3.058 0.026 4.95 50 3.035004 FEDERAL NATL MTG ASSN AGY AA+ 1.875 0.4005 9.578 2.382 2.386 1.621 MM 5.05 5.05 5.05 2</td><td>50 3133EJDA FEDERAL FARM CR BKS AGY AA+ 2.940 02/15/2023 96.873 2.686 2.682 2.864 AGY 4.917 -1.511 5.05 4.503 50 3137EAEK FEDERAL NOME LINMTG ASSN AGY AA+ 1.875 11/17/2020 96.525 2.686 2.682 2.684 AGY 4.617 -1.511 5.05 4.503 50 313560K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/17/2020 96.424 2.452 3.016 AGY 3.083 0.005 4.863 3.095 50 31350GV4 FEDERAL HOME LOAN BANKS AGY AA+ 1.875 11/12/2020 97.341 2.510 2.515 3.623 0.066 4.963 3.880 0.005 4.683 3.806 0.005 4.683 3.806 0.006 4.963 4.900 0.006 4.953 3.806 3.651 4.000 0.006 4.953 3.806 3.650 1.161 0.174 4.963 4.900 0.005 4.93 4.900</td><td>50 3133EJLA FEDERAL FARM CR BKS AGY AA+ 2.940 02/15/2023 98.873 2.988</td></t<>	50 31374-EK FEDERAL HOME IN MITG CORP AGY AA+ 1.875 11/17/2001 96.525 2.485	50 3135EJDA FEDERAL FARM CR BKS AGY AA+ 2.80 0.2152023 98.872 2.988 2.455 2.458 2.455 2.458 2.568 2.578 3.23 3.058 0.026 4.95 50 3.035004 FEDERAL NATL MTG ASSN AGY AA+ 1.875 0.4005 9.578 2.382 2.386 1.621 MM 5.05 5.05 5.05 2	50 3133EJDA FEDERAL FARM CR BKS AGY AA+ 2.940 02/15/2023 96.873 2.686 2.682 2.864 AGY 4.917 -1.511 5.05 4.503 50 3137EAEK FEDERAL NOME LINMTG ASSN AGY AA+ 1.875 11/17/2020 96.525 2.686 2.682 2.684 AGY 4.617 -1.511 5.05 4.503 50 313560K6 FEDERAL NATL MTG ASSN AGY AA+ 1.875 11/17/2020 96.424 2.452 3.016 AGY 3.083 0.005 4.863 3.095 50 31350GV4 FEDERAL HOME LOAN BANKS AGY AA+ 1.875 11/12/2020 97.341 2.510 2.515 3.623 0.066 4.963 3.880 0.005 4.683 3.806 0.005 4.683 3.806 0.006 4.963 4.900 0.006 4.953 3.806 3.651 4.000 0.006 4.953 3.806 3.650 1.161 0.174 4.963 4.900 0.005 4.93 4.900	50 3133EJLA FEDERAL FARM CR BKS AGY AA+ 2.940 02/15/2023 98.873 2.988

*Not A Deposit, Not FDIC Insured, May Lose Value, Not Bank Guaranteed, Not Insured By Any Federal Government Agency Past performance does not guarantee future results. Performance returns may not reflect the deduction of applicable fees, which would reduce returns. Information is deemed reliable but may be subject to change.

BondEdge

Sample Lawrence CO 3 Year Portfolio Pricing Date: 3/27/2018

	Par						Price			Eff	A	Com	% Held	Mod		Mkt Val
Sector	(000) Identifier	Issuer Name	Mdys	S&P	Coupon	Maturity	(Mkt)	YTW	YTM	(Par) Sector	Avg Life	(Par)	(MV)	Dur	Call Date	
	400 912828RE	UNITED STATES TREAS NTS	TSY	TSY	1.500	08/31/2018	99.816	1.933	1.933	0.421 TSY	0.417	0.007	8.04	0.423	N/A	400
	400 912828RT	UNITED STATES TREAS NTS	TSY	TSY	1.375	11/30/2018	99.559	2.031	2.031	0.664 TSY	0.667	0.009	8.04	0.668	N/A	400
	400 912828SH	UNITED STATES TREAS NTS	TSY	TSY	1.375	02/28/2019	99.328	2.111	2.111	0.911 TSY	0.917	0.008	8.00	0.914	N/A	398
	400 912828D8	UNITED STATES TREAS NTS	TSY	TSY	1.625	08/31/2019	99,176	2.215	2.215	1.402 TSY	1.417	0.013	7.99	1.399	N/A	397
TSY	1,600		Aaa	AA+	1.469	0.865	99.470	2.072	2.072	0.849	0.853	0.009	32.07	0.850		1,595
	400 3137EADG	FEDERAL HOME LN MTG CORP	AGY	AA+	1.750	05/30/2019	99,473	2.206	2.206	1.149 AGY	1.167	0.010	8.05	1.152	N/A	400
	500 3133EJCY	FEDERAL FARM CR BKS	AGY	AA+	2.500	02/16/2021	99.675	2.617	2.617	1.552 AGY	2.917	-1.035	10.05	2,759	05/16/2018	500
	150 3135G0ZY	FEDERAL NATL MTG ASSN	AGY	AA+	1.750	11/26/2019	99.213	2.234	2.234	1.623 AGY	1.667	0.017	3.01	1.620	N/A	150
	150 3137EADR	FEDERAL HOME LN MTG CORP	AGY	AA+	1.375	05/01/2020	98.011	2.354	2.354	2.040 AGY	2.083	0.026	2.97	2.036	N/A	148
	400 3137EAEK	FEDERAL HOME LN MTG CORP	AGY	AA+	1.875	11/17/2020	98.526	2,455	2.455	2.548 AGY	2.667	0.041	7.98	2.538	N/A	397
	400 3135G0K6	FEDERAL NATL MTG ASSN	AGY	AA+	1,250	05/06/2021	96,424	2.452	2.452	3.016 AGY	3.083	0.056	7.80		N/A	388
AGY	2,000		Aaa	AA+	1.834	2.387	98.609	2.421	2.421	1.998	2.389	-0.236	39.86	2.298		1,982
	250 83172HDR	SMARTBANK PIGEON FORGE TENN	N/A	N/A	2,100	11/27/2019	99,548	2.386	2.386	1.621 MM	1.671	0.017	5.01	1.617	N/A	249
	150 55266CYJ	MB FINL BK NA CHIC. IL	N/A	N/A	2.250	02/14/2020	99.579	2,490	2,490	1.825 MM	1.887	0.021	3.01	1.821	N/A	149
	250 02007GAZ	ALLY BK MIDVALE UTAH	N/A	N/A	2,300	02/18/2020	99.660	2.489	2.489	1.840 MM	1.898	0.022	5.02	1.838	N/A	250
	250 85916VCH	STERLING BK POPLAR BLUFF MO	N/A	N/A	2,200	05/28/2020	99.265	2.546	2.546	2.102 MM	2.171	0.028	5.00	2.089	N/A	249
	250 61747MK7	MORGAN STANLEY BK N A UTAH	N/A	N/A	2.550	02/16/2021	99,797	2.627	2.627	2.771 MM	2.893	0.049	5.03	2.762	N/A	250
	250 66612ACF	NORTHFIELD BK STATEN ISLAND	N/A	N/A	2.350	02/16/2021	99,243	2.627	2.627	2.777 MM	2.893	0.049	5.00		N/A	249
MM	1,400		N/A	N/A	2.295	2.261	99.511	2.530	2.530		2.261	0.032	28.07	2.173	1074	1,396
Total:	5,000		Aaa	AA+	1.846	1.864	99.139	2.340	2.340	1.680	1.861	-0.082	100.00	1.799		4,973

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