Trusted Insight, Effective Solutions

CREDITINATE SURVEY

Business & Industry Consulting

Market Analysis

Strategic Solutions

Financial Investments

nent Regulatory Expert

										30 A	pril 202
	Classic	Unsec	New Veh	New Veh	New Veh	Used Veh	Used Veh	HE	HE	FRM	FRM
	CCd	36mo	<b>48mo</b>	60mo	72mo	48mo	60mo	LOC	10yr	15yr	30yr
Inited States-											
National Average	10.95%	9.19%	3.22%	3.33%	3.65%	3.43%	3.54%	4.12%	5.09%	3.24%	3.59%
Mid-South-	10.81%	9.27%	3.22%	3.34%	3.65%	3.55%	3.69%	4.37%	5.33%	3.27%	3.67%
Texas Oklahoma	11.05% 9.98%	8.80% 9.67%	3.11% 3.27%	3.25% 3.31%	3.56% 3.57%	3.32% 3.35%	3.43% 3.40%	4.23% 4.66%	5.06% 5.08%	3.37% 3.07%	3.77% 3.45%
Louisiana Arkansas	11.36% 9.08%	9.32% 8.86%	3.03% 3.51%	3.22% 3.64%	3.54% 3.86%	3.36% 4.36%	3.51% 4.61%	4.22% 4.43%	5.83% 5.63%	3.40% 3.33%	3.68% 3.85%
Missouri	12.56%	9.71%	3.17%	3.30%	3.73%	3.36%	4.01%	4.32%	5.07%	3.19%	3.63%
Mountain West-	10.55%	9.50%	3.36%	3.43%	3.68%	3.49%	3.57%	4.37%	5.47%	3.28%	3.33%
		9.95%		3.34%				4.48%	5.45%	3.25%	3.62%
Arizona	9.24%		3.22%		3.62%	3.37%	3.52%				
New Mexico Utah	12.56% 9.53%	9.55% 9.11%	3.21% 3.35%	3.32% 3.39%	3.56% 3.62%	3.50% 3.40%	3.63% 3.40%	4.58%	5.36% 5.17%	3.47% 3.21%	3.44%
					3.90%	3.69%		4.15%		3.32%	3.73%
Colorado	11.12%	9.21%	3.56%	3.63%			3.79%	4.28%	5.46%		
Idaho	10.29%	9.69%	3.45%	3.49%	3.70%	3.47%	3.52%	4.37%	5.89%	3.16%	3.48%
Vest-	11.42%	8.83%	3.23%	3.35%	3.65%	3.43%	3.56%	4.39%	5.51%	3.20%	3.56%
California	11.63%	9.44%	3.18%	3.31%	3.56%	3.36%	3.49%	4.30%	5.37%	3.33%	3.68%
Oregon	11.18%	10.05%	3.55%	3.65%	3.83%	3.73%	3.85%	4.36%	5.00%	3.18%	3.59%
Washington	11.03%	9.08%	3.55%	3.68%	3.86%	3.60%	3.72%	4.47%	5.45%	3.28%	3.719
Hawaii	12.64%	6.27%	2.77%	2.93%	3.53%	3.10%	3.31%	4.48%	5.98%	3.10%	3.43%
Nevada	10.60%	9.33%	3.08%	3.18%	3.45%	3.34%	3.45%	4.33%	5.77%	3.12%	3.39%
Midwest-	11.37%	9.31%	3.26%	3.35%	3.68%	3.45%	3.53%	4.08%	5.08%	3.18%	3.58%
Illinois	11.30%	8.97%	2.88%	2.95%	3.38%	3.17%	3.24%	4.23%	5.43%	3.19%	3.62%
Ohio	11.01%	9.30%	3.45%	3.51%	3.76%	3.61%	3.66%	4.05%	4.95%	3.21%	3.70%
Michigan	11.81%	9.17%	3.20%	3.31%	3.61%	3.34%	3.43%	4.20%	5.01%	3.01%	3.36%
Wisconsin	10.62%	9.54%	3.44%	3.56%	3.86%	3.59%	3.70%	3.83%	4.73%	3.35%	3.63%
Indiana	12.13%	9.57%	3.33%	3.44%	3.80%	3.54%	3.62%	4.07%	5.29%	3.14%	3.59%
South-	11.17%	9.10%	2.98%	3.11%	3.43%	3.29%	3.41%	4.31%	5.36%	3.32%	3.65%
Florida	11.59%	9.28%	3.05%	3.22%	3.58%	3.29%	3.50%	4.08%	5.19%	3.31%	3.68%
Georgia	12.15%	8.34%	3.02%	3.12%	3.45%	3.27%	3.28%	4.35%	5.33%	3.33%	3.56%
South Carolina	11.33%	9.66%	2.97%	3.03%	3.36%	3.41%	3.48%	4.32%	5.44%	3.25%	3.67%
Alabama	10.97%	8.96%	2.80%	3.05%	3.47%	3.02%	3.24%	4.26%	5.50%	3.38%	3.62%
North Carolina	9.81%	9.24%	3.08%	3.13%	3.29%	3.48%	3.54%	4.52%	5.36%	3.32%	3.71%
Northeast-	10.92%	8.98%	3.14%	3.24%	3.65%	3.39%	3.51%	3.85%	4.74%	3.24%	3.63%
New York	10.92%	8.51%	3.12%	3.25%	3.61%	3.49%	3.60%	3.72%	4.70%	3.21%	3.58%
Massachusetts	10.67%	9.86%	3.33%	3.43%	3.89%	3.46%	3.57%	3.68%	4.48%	3.28%	3.68%
Pennsylvania	10.41%	8.48%	3.32%	3.32%	3.72%	3.47%	3.57%	3.87%	4.39%	3.29%	3.63%
New Jersey	11.39%	8.78%	3.08%	3.22%	3.69%	3.45%	3.58%	4.12%	4.99%	3.23%	3.61%
Maryland	11.22%	9.26%	2.83%	2.99%	3.33%	3.06%	3.22%	3.85%	5.16%	3.19%	3.66%

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Investments Risk Management

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									30 Aj	oril 20
	Share Draft	Regular Savings	\$10K MMkt	\$50K MMkt	3MO CD	6MO CD	1YR CD	2YR CD	3YR CD	4YR CD
United States-										
National Average	0.12%	0.15%	0.31%	0.42%	0.34%	0.56%	0.81%	0.99%	1.23%	1.35%
Mid-South-	0.21%	0.19%	0.37%	0.47%	0.43%	0.67%	0.92%	1.08%	1.19%	1.30%
Texas	0.12%	0.18%	0.34%	0.43%	0.40%	0.68%	0.98%	1.17%	1.30%	1.389
Oklahoma	0.23%	0.26%	0.42%	0.56%	0.61%	0.77%	0.92%	1.07%	1.17%	1.279
Louisiana	0.18%	0.21%	0.37%	0.45%	0.45%	0.71%	1.01%	1.17%	1.31%	1.439
Arkansas	0.31%	0.12%	0.38%	0.44%	0.26%	0.52%	0.77%	0.92%	1.00%	1.119
Missouri	0.20%	0.18%	0.32%	0.48%	0.42%	0.65%	0.91%	1.06%	1.19%	1.309
Mountain West-	0.11%	0.14%	0.28%	0.40%	0.35%	0.60%	0.84%	1.06%	1.20%	1.329
Arizona	0.12%	0.16%	0.31%	0.42%	0.31%	0.63%	0.86%	1.09%	1.23%	1.359
New Mexico	0.12%	0.10%	0.26%	0.42%	0.40%	0.60%	0.95%	1.24%	1.35%	1.479
Utah	0.10%	0.15%	0.32%	0.47%	0.48%	0.63%	0.86%	1.08%	1.24%	1.359
Colorado	0.10%	0.13%	0.32%	0.40%	0.31%	0.64%	0.85%	0.99%	1.09%	1.219
Idaho	0.16%	0.12%	0.22%	0.32%	0.26%	0.50%	0.69%	0.92%	1.09%	1.209
	0.10/5	0.12/0	0.22/0	0.5270	0.2070	0.5070	0.0370	0.5270	1.0570	1.20
West-	0.09%	0.13%	0.26%	0.35%	0.34%	0.56%	0.82%	1.02%	1.17%	1.27
California	0.10%	0.16%	0.28%	0.38%	0.37%	0.63%	0.90%	1.08%	1.23%	1.33
Oregon	0.06%	0.08%	0.24%	0.33%	0.28%	0.47%	0.72%	0.92%	1.14%	1.239
Washington	0.11%	0.12%	0.25%	0.34%	0.29%	0.47%	0.76%	0.95%	1.11%	1.179
Hawaii	0.11%	0.12%	0.26%	0.35%	0.42%	0.70%	0.92%	1.10%	1.23%	1.399
Nevada	0.08%	0.17%	0.27%	0.37%	0.33%	0.54%	0.80%	1.03%	1.16%	1.259
Midwest-	0.14%	0.14%	0.29%	0.42%	0.32%	0.50%	0.70%	0.88%	1.01%	1.159
Illinois	0.19%	0.19%	0.29%	0.43%	0.33%	0.53%	0.73%	0.91%	1.01%	1.159
Ohio	0.12%	0.09%	0.30%	0.42%	0.30%	0.46%	0.66%	0.82%	0.94%	1.069
Michigan	0.09%	0.11%	0.22%	0.33%	0.28%	0.47%	0.70%	0.89%	1.04%	1.199
Wisconsin	0.15%	0.14%	0.33%	0.51%	0.37%	0.57%	0.78%	0.98%	1.11%	1.259
Indiana	0.14%	0.15%	0.30%	0.43%	0.30%	0.45%	0.63%	0.81%	0.95%	1.089
South-	0.13%	0.19%	0.36%	0.48%	0.35%	0.60%	0.86%	1.06%	1.19%	1.329
Florida	0.13%	0.17%	0.29%	0.40%	0.33%	0.59%	0.83%	1.02%	1.19%	1.289
Georgia	0.10%	0.17%	0.35%	0.47%	0.32%	0.63%	0.92%	1.08%	1.19%	1.289
South Carolina	0.10%	0.17%	0.33%	0.47%	0.32%	0.52%	0.92%	0.96%	1.19%	1.20
Alabama	0.20%	0.12%	0.40%	0.50%	0.41%	0.64%	0.90%	1.16%	1.28%	1.459
North Carolina	0.11%	0.17%	0.38%	0.45%	0.27%	0.55%	0.78%	0.97%	1.07%	1.209
Northeast-	0.13%	0.14%	0.27%	0.38%	0.29%	0.53%	0.77%	0.94%	1.09%	1.209
New York	0.09%	0.13%	0.29%	0.40%	0.32%	0.52%	0.77%	0.93%	1.17%	1.319
Massachusetts	0.11%	0.12%	0.23%	0.37%	0.29%	0.44%	0.70%	0.94%	1.07%	1.219
Pennsylvania	0.11%	0.14%	0.28%	0.37%	0.26%	0.53%	0.75%	0.93%	1.06%	1.159
New Jersey	0.13%	0.15%	0.27%	0.38%	0.29%	0.51%	0.71%	0.86%	0.98%	1.069
Maryland	0.22%	0.14%	0.27%	0.37%	0.30%	0.64%	0.94%	1.05%	1.17%	1.279

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Market Analysis

Regulatory Expert

CREDITUNION RATE SURVEY

### 30 April 2020

#### RATE SENSITIVITY AND PRICING SPREAD ANALYSIS

Business & Industry Consulting

				YTD CH	ANGE	CYCLICAL	CHANGE	RATE SE	NSITIVITY		Yiel	d Cu
	Peak	Dec	Current	Current	Pricing	Current	Pricing	Chg in	Rate			C
	2019	2019	Avg Rate	Rate	Spread	Rate	Spread	Benchmk	Sensitivity			Ben
oan Rates-												
48Mo Vehicle Loan	3.66%	3.45%	3.22%	-0.23%	1.16%	-0.44%	2.24%	-2.68%	16%	Pri	me	
60Mo Vehicle Loan	3.78%	3.57%	3.33%	-0.24%	1.14%	-0.45%	2.24%	-2.69%	17%	FF	ds	
15Yr FR Mortgage	4.58%	3.55%	3.24%	-0.31%	1.00%	-1.34%	1.21%	-2.55%	53%	1	m	
30Yr FR Mortgage	5.06%	4.00%	3.59%	-0.41%	0.87%	-1.47%	1.04%	-2.51%	58%	3	m	(
										6	m	(
hare Rates-										12	2m	(
Share Draft	0.14%	0.16%	0.12%	-0.04%	1.46%	-0.02%	2.36%	-2.38%	1%	2	yr	
Regular Savings	0.19%	0.19%	0.15%	-0.04%	1.46%	-0.04%	2.34%	-2.38%	2%	3	yr	(
Money Mkt Shares	0.65%	0.62%	0.42%	-0.20%	1.30%	-0.23%	2.15%	-2.38%	10%	4	yr	(
										5	yr	(
6Mo Certificate	1.05%	0.98%	0.56%	-0.42%	1.04%	-0.49%	1.91%	-2.40%	20%	7	yr	(
1Yr Certificate	1.53%	1.39%	0.81%	-0.58%	0.85%	-0.72%	1.84%	-2.56%	28%	10	)yr	(
2Yr Certificate	1.86%	1.62%	0.99%	-0.63%	0.76%	-0.87%	1.81%	-2.68%	32%	30	)yr	
3Yr Certificate	2.25%	1.92%	1.23%	-0.69%	0.69%	-1.02%	1.67%	-2.69%	38%			

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#### **12 MONTH NATIONAL MARKET RATE HISTORY**

	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20
Fed Funds	2.43%	2.40%	2.40%	2.40%	2.12%	1.83%	1.58%	1.56%	1.55%	1.59%	1.58%	0.08%	0.05%
1yr UST	2.40%	2.21%	1.92%	2.10%	1.78%	1.75%	1.53%	1.60%	1.59%	1.48%	0.97%	0.17%	0.16%
2yr UST	2.27%	1.95%	1.75%	2.00%	1.50%	1.63%	1.52%	1.61%	1.58%	1.44%	0.86%	0.23%	0.19%
3yr UST	2.21%	1.90%	1.71%	1.89%	1.42%	1.56%	1.52%	1.61%	1.62%	1.42%	0.85%	0.29%	0.24%
7yr UST	2.31%	2.03%	1.76%	1.91%	1.45%	1.62%	1.60%	1.73%	1.83%	1.53%	1.03%	0.51%	0.52%
10yr UST	2.41%	2.14%	2.00%	2.02%	1.50%	1.68%	1.69%	1.78%	1.92%	1.61%	1.13%	0.62%	0.64%
5yr Vehicle	3.78%	3.76%	3.75%	3.72%	3.69%	3.66%	3.62%	3.61%	3.57%	3.55%	3.53%	3.43%	3.33%
15yr FLM	4.10%	3.90%	3.75%	3.66%	3.54%	3.58%	3.56%	3.57%	3.55%	3.45%	3.38%	3.43%	3.24%
30yr FLM	4.53%	4.33%	4.18%	4.12%	3.96%	3.99%	4.01%	4.01%	4.00%	3.86%	3.77%	3.84%	3.59%
Reg Savings	0.19%	0.19%	0.19%	0.19%	0.19%	0.19%	0.18%	0.19%	0.19%	0.18%	0.18%	0.17%	0.15%
MoneyMkt	0.66%	0.67%	0.67%	0.67%	0.66%	0.65%	0.63%	0.62%	0.62%	0.61%	0.61%	0.52%	0.42%
1yr CD	1.52%	1.53%	1.53%	1.51%	1.49%	1.47%	1.43%	1.41%	1.39%	1.37%	1.36%	0.96%	0.81%
2yr CD	1.85%	1.86%	1.85%	1.82%	1.78%	1.74%	1.68%	1.65%	1.62%	1.59%	1.59%	1.16%	0.99%



-1.50%

-2.00%

-2.50%

Apr-19

-- RegSvg vs FF

Jun-19

Aug-19

Greater Negative = Greater Value of Funding

-- MMkt vs FF

Oct-19

Dec-19

-- 1yrCD vs 1yr -- 2yrCD vs 2yr

Feb-20

Apr-20

HISTORICAL MARGINAL NATIONAL PRICING SPREADS BETWEEN LOANS AND SHARES

Wider Pricing Spreads = Greater Value Given Credit Risk

Oct-19

----- 15yr FLM vs 7yr

Dec-19

----

Feb-20

--- 5yr Auto Loan vs 3yr

Apr-20

1.50%

1.00%

Apr-19

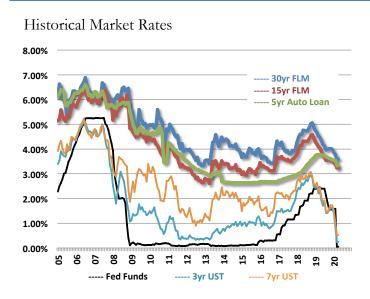
----- 30yr FLM vs 10yr

Jun-19

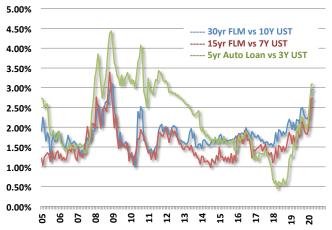
Aug-19

	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20
Historic	al Marg	gins - 5 Y	Year Vel	nicle									
vs Reg Svg:	3.59%	3.57%	3.56%	3.53%	3.50%	3.47%	3.44%	3.42%	3.38%	3.37%	3.35%	3.26%	3.18%
vs MMkt	3.12%	3.09%	3.08%	3.05%	3.03%	3.01%	2.99%	2.99%	2.95%	2.94%	2.92%	2.91%	2.91%
vs 1yr CD	2.26%	2.23%	2.22%	2.21%	2.20%	2.19%	2.19%	2.20%	2.18%	2.18%	2.17%	2.47%	2.52%
vs 2yr CD	1.93%	1.90%	1.90%	1.90%	1.91%	1.92%	1.94%	1.96%	1.95%	1.96%	1.94%	2.27%	2.34%
Historic	al Marg	gins - 15	Year M	ortgage									
vs Reg Svg:	3.91%	3.71%	3.56%	3.47%	3.35%	3.39%	3.38%	3.38%	3.36%	3.27%	3.20%	3.26%	3.09%
vs MMkt	3.44%	3.23%	3.08%	2.99%	2.88%	2.93%	2.93%	2.95%	2.93%	2.84%	2.77%	2.91%	2.82%
vs 1yr CD	2.58%	2.37%	2.22%	2.15%	2.05%	2.11%	2.13%	2.16%	2.16%	2.08%	2.02%	2.47%	2.43%
vs 2yr CD	2.25%	2.04%	1.90%	1.84%	1.76%	1.84%	1.88%	1.92%	1.93%	1.86%	1.79%	2.27%	2.25%
Historic	al Marg	gins - 30	Year M	ortgage									
vs Reg Svg:	4.34%	4.14%	3.99%	3.93%	3.77%	3.80%	3.83%	3.82%	3.81%	3.68%	3.59%	3.67%	3.44%
vs MMkt	3.87%	3.66%	3.51%	3.45%	3.30%	3.34%	3.38%	3.39%	3.38%	3.25%	3.16%	3.32%	3.17%
vs 1yr CD	3.01%	2.80%	2.65%	2.61%	2.47%	2.52%	2.58%	2.60%	2.61%	2.49%	2.41%	2.88%	2.78%
vs 2yr CD	2.68%	2.47%	2.33%	2.30%	2.18%	2.25%	2.33%	2.36%	2.38%	2.27%	2.18%	2.68%	2.60%

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## Historical Pricing Spreads



#### TOTAL RETURN ANALYSIS - 5-YEAR HORIZON

		After	For the		The Req	uired Rate of Return N	leeded to "Breakeven'	' Against:
	Rate	Term of	Next		30Yr FLM	15Yr FLM	5Yr Vehicle	4Yr MBS
2-year Agency Call	2.60%	2 Years	3 Years	Need to Yield at Least	4.26%	3.67%	4.79%	3.70%
3-year Agency Call	2.67%	3 Years	2 Years	Need to Yield at Least	4.98%	4.09%	-	-
4-year Agency Call	2.98%	4 Years	1 Year	Need to Yield at Least	6.05%	4.28%	-	-
3-year MBS/CMO	2.83%	3 Years	2 Years	Need to Yield at Least	4.74%	3.85%	-	-
4-year MBS/CMO	3.15%	4 Years	1 Year	Need to Yield at Least	5.37%	3.60%	-	-
	0.000/					a a		
5-year Vehicle Loan	3.33%	3 Years	2 Years	Need to Yield at Least	3.99%	3.10%	-	-
15-year FR FLM	3.24%	5 Years	-	Need to Yield at Least	-	-	-	-
30-year FR FLM	3.59%	5 Years	-	Need to Yield at Least	-	-	-	-

#### **RELATIVE VALUE OF REALLOCATION - PER \$100 MILLION IN ASSETS**

(000s)	Amount	Rate	\$ Impact on Income	Impact on ROA
Fed Funds (Assumes 12% Short-term Funding Ratio)	12,000	0.05%	6	0.00%
3 year Agency Callable	225	2.67%	6	0.00%
3 year Agency MBS	212	2.83%	6	0.00%
4 year Agency Callable	201	2.98%	6	0.00%
4 year Agency MBS	190	3.15%	6	0.00%
5 Year Vehicle Loan	180	3.33%	6	0.00%
15 Year FR FLM	185	3.24%	6	0.00%
30 Year FR FLM	167	3.59%	6	0.00%

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30 April 2020

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VION RATE SURVEY

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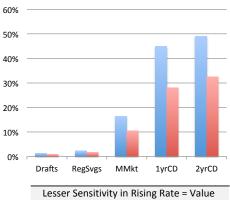
	Ben	chmark Ra	ates	M	arket Rate	s	Rate					
	Beginning	Ending	Change	Beginning	Ending	Change	Sensitivity					
EARNING ASSETS												
<u> 2016 - 2018 (Rising)</u>												
Credit Cards	3.50%	5.50%	2.00%	11.19%	11.71%	0.52%	26%	90%				
5yr Vehicle Loans	0.82%	2.93%	2.11%	2.68%	3.78%	1.10%	52%	80%				
HE LOC	3.50%	5.50%	2.00%	4.01%	5.57%	1.56%	78%	70%			_	_
15yr FR FLM	1.31%	3.07%	1.76%	3.14%	4.58%	1.44%	82%	60%			_	_
30yr FR FLM	1.52%	3.15%	1.63%	3.69%	5.06%	1.37%	84%	50%				
				-								
2018 - Present (Fallin	<u>ig)</u>							40%	_			
Credit Cards	5.50%	3.25%	-2.25%	11.71%	10.95%	-0.76%	34%	30%				
5yr Vehicle Loans	2.93%	0.24%	-2.69%	3.78%	3.33%	-0.45%	17%	20%	_			_
HE LOC	5.50%	3.25%	-2.25%	5.57%	4.12%	-1.45%	64%	10%		_		_
15yr FR FLM	3.07%	0.52%	-2.55%	4.58%	3.24%	-1.34%	53%	0%				
30yr FR FLM	3.15%	0.64%	-2.51%	5.06%	3.59%	-1.47%	58%	0%	CCds	5YVeh	HELOC	15YF

Strategic Solutions

# 'FLM 30YFLM Greater Sensitivity in Rising Rate = Value Lesser Sensitivity in Falling Rate = Value

#### FUNDING OBLIGATIONS

2016 - 2018 (Rising)							
Share Drafts	0.25%	2.43%	2.18%	0.11%	0.14%	0.03%	1%
Regular Savings	0.25%	2.43%	2.18%	0.14%	0.19%	0.05%	2%
Money Market	0.25%	2.43%	2.18%	0.31%	0.67%	0.36%	17%
1yr Certificate	0.50%	2.72%	2.22%	0.53%	1.53%	1.00%	45%
2yr Certificate	0.67%	2.87%	2.20%	0.78%	1.86%	1.08%	49%
2018 - Present (Fallin	ig)						
Share Drafts	2.43%	0.05%	-2.38%	0.14%	0.12%	-0.02%	1%
Regular Savings	2.43%	0.05%	-2.38%	0.19%	0.15%	-0.04%	2%
Money Market	2.43%	0.05%	-2.38%	0.67%	0.42%	-0.25%	11%
1yr Certificate	2.72%	0.16%	-2.56%	1.53%	0.81%	-0.72%	28%
2yr Certificate	2.87%	0.19%	-2.68%	1.86%	0.99%	-0.87%	32%



Greater Sensitivity in Falling Rate = Value

**BRIAN TURNER** 

President, Chief Economist

972.740.9531

bturner@Meridian-ally.com

www.Meridian-ally.com