## MERIDIAN ECONOMICS Trusted Insight, Effective Solutions



NCUA Q4-2017	<\$2M	\$2-10M	\$10-\$50M	\$50-100M	\$100-500M	\$500M+	TOTAL	<10M	<\$50M	<\$100M	<\$500M
DEMOGRAPHICS											
No. of Credit Unions	478	1,055	1,774	709	1,026	531	5,573	1,533	3,307	4,016	5,042
Avg Asset Size (\$Mil)	\$1.0	\$6.1	\$25.8	\$72.7	\$227.8	\$1,797.9	\$231.9	\$4.5	\$15.9	\$25.9	\$67.0
Pct of Credit Unions	9%	19%	32%	13%	18%	10%	100%	28%	59%	72%	90%
Pct of Industry Assets	0%	0%	3%	4%	17%	76%	100%	0%	4%	7%	24%
GROWTH RATES Total Assets	-6.6%	-6.8%	-3.4%	-1.7%	-1.9%	9.8%	6.7%	-6.8%	-3.9%	-2.8%	-2.2%
Total Loans	-6.0%	-5.5%	-3.4%	-0.1%	1.0%	13.1%	10.1%	-5.5%	-3.5% -1.5%	-2.8%	0.5%
Total Shares	-5.7%	-6.0%	-3.1%	-1.7%	-1.9%	7.8%	5.2%	-6.0%	-3.5%	-2.6%	-2.1%
Net Worth	-5.1%	-5.1%	-2.8%	-0.7%	-0.9%	10.5%	7.3%	-5.1%	-3.2%	-2.0%	-1.3%
BALANCE SHEET ALLOCA	TION AND QU	IALITY									
Net Worth Ratio	18.1%	15.2%	12.4%	11.6%	11.0%	10.8%	11.0%	15.4%	12.8%	12.2%	11.4%
Cash & Inv-to-Assets	52%	49%	45%	38%	29%	24%	26%	49%	46%	42%	33%
Loans-to-Total Assets	48%	50%	52%	57%	66%	72%	69%	50%	51%	54%	62%
Vehicle-to-Total Loans	56%	59%	46%	41%	38%	33%	35%	59%	47%	44%	40%
RELoans-to-Total Loans	2%	10%	32%	39%	45%	51%	49%	9%	29%	35%	42%
RELoans-to-Net Worth	4%	31%	134%	192%	269%	340%	313%	29%	118%	153%	231%
Indirect-to-Total Loans	0%	0%	5%	12%	18%	22%	20%	0%	4%	8%	16%
Loans-to-Shares	59%	59%	59%	65%	76%	86%	83%	59%	59%	62%	72%
Pct of Non-term-Shares	91%	84%	80%	78%	75%	72%	73%	85%	81%	79%	76%
ST Funding Ratio	38.1%	29.3%	23.4%	19.0%	14.0%	11.2%	12.4%	24.1%	21.6%	16.3%	12.5%
Net LT Assets Ratio	5%	10%	20%	26%	32%	35%	34%	19%	22%	29%	34%
LOAN QUALITY  Loan Delinguency Rate	2.260/	1.69%	1.17%	1.03%	0.036/	0.760/	0.010/	1.220/	1 120/	0.98%	0.81%
Net Charge-off Rate	3.26% 0.92%	0.62%	0.51%	0.50%	0.93% 0.60%	0.76% 0.60%	0.81% 0.60%	1.23% 0.52%	1.13% 0.51%	0.58%	0.81%
"Misery" Index	4.18%	2.31%	1.68%	1.53%	1.53%	1.36%	1.41%	1.76%	1.64%	1.56%	1.41%
RE Loan Delinquency	2.36%	1.57%	1.09%	0.96%	0.75%	0.57%	0.61%	1.58%	1.11%	1.02%	0.81%
Veh Loan Delinquency	2.69%	1.62%	1.13%	0.93%	0.81%	0.63%	0.70%	1.69%	1.21%	1.07%	0.89%
Direct Delinquency	2.69%	1.61%	1.11%	0.88%	0.73%	0.56%	0.67%	1.68%	1.20%	1.06%	0.86%
Indirect Delinquency	0.00%	2.84%	1.33%	1.05%	0.90%	0.67%	0.72%	2.84%	1.34%	1.12%	0.93%
Loss Allowance Ratio	2.55%	1.29%	0.90%	0.84%	0.95%	0.91%	0.92%	1.37%	0.96%	0.89%	0.93%
EARNINGS:											
Gross Asset Yield	3.80%	3.57%	3.30%	3.36%	3.44%	3.60%	3.55%	3.59%	3.34%	3.35%	3.41%
Cost of Funds	0.42%	0.34%	0.29%	0.31%	0.39%	0.63%	0.57%	0.34%	0.30%	0.30%	0.36%
Gross Margin	3.38%	3.24%	3.01%	3.05%	3.05%	2.97%	2.99%	3.25%	3.04%	3.04%	3.05%
Provision Expense	0.49%	0.32%	0.27%	0.30%	0.46%	0.50%	0.48%	0.33%	0.28%	0.29%	0.41%
Net Margin	2.89%	2.92%	2.73%	2.74%	2.59%	2.46%	2.51%	2.92%	2.76%	2.75%	2.64%
Non-Interest Income	0.56%	0.64%	0.99%	1.22%	1.40%	1.34%	1.33%	0.64%	0.95%	1.08%	1.30%
Non-Interest Expense	4.07%	3.54%	3.44%	3.55%	3.55%	2.93%	3.08%	3.58%	3.46%	3.50%	3.54%
Net Operating Exp	3.52%	2.90%	2.45%	2.33%	2.15%	1.59%	1.75%	2.94%	2.51%	2.42%	2.23%
Non-recurring Inc(Exp)	0.30%	0.07%	0.02%	0.03%	0.03%	0.02%	0.02%	0.09%	0.03%	0.03%	0.03%
Net Income (ROA)	-0.32%	0.09%	0.31%	0.44%	0.47%	0.89%	0.78%	0.07%	0.28%	0.36%	0.44%
Return on Net Worth	-1.8%	0.6%	2.5%	3.8%	4.3%	7.9%	6.9%	0.4%	2.2%	3.0%	3.9%
COST EFFICIENCIES:											
	400/	4501	2221	2701	2021	2701	2701	450/	2001	2.01	2021
Non-Int Inc-to-Total Rev Avg Revenue per FTE	13% \$44,647	15% \$73,910	23% \$146,927	27% \$159,181	29% \$176,865	27% \$255,508	27% \$225,888	15% \$70,665	22% \$129,274	24% \$143,095	28% \$165,578
Ava Loop Pol	¢4.533	¢6.007	¢0.000	¢10.003	Ć12 07F	Ć1F 004	¢14.007	Ċ6 742	ć0 C20	Ć0 34C	Ć11 034
Avg Loan Balance Avg Loan Rate	\$4,533 7.08%	\$6,867 6.11%	\$8,908 5.31%	\$10,002 4.99%	\$12,875 4.62%	\$15,991 4.49%	\$14,807 4.56%	\$6,713 6.17%	\$8,629 5.42%	\$9,346 5.19%	\$11,924 4.77%
Avg Loan Yield, net	6.59%	5.79%	5.04%	4.99%	4.62%	3.99%	4.08%	5.84%	5.42%	4.90%	4.77%
Avg Share Balance	\$2,215	\$4,658	\$7,047	\$8,084	\$9,110	\$11,285	\$10,415	\$4,343	\$6,548	\$7,239	\$8,441
•			0.240/	0.35%	0.44%	0.76%	0.67%	0.41%	0.34%	0.35%	0.42%
Avg Share Rate	0.52%	0.40%	0.34%					1.2%			0.00/
•		0.40% 1.09%	0.83%	0.82%	0.99%	0.86%	0.88%	1.2/0	0.9%	0.8%	0.9%
Avg Share Rate	0.52%	1.09%		0.82%		0.86%	0.88%		17,106		
Avg Share Rate NM Deposit Ratio	0.52% 2.64%		0.83%		63,346	193,741	288,889	3,960 38%		0.8% 31,802 17%	95,148 12%
Avg Share Rate NM Deposit Ratio Full-time Equivalents	0.52% 2.64% 439	1.09% 3,521	0.83% 13,146	0.82% 14,697				3,960	17,106	31,802	95,148
Avg Share Rate NM Deposit Ratio Full-time Equivalents Pct PT Employees FTE-to-Ops (Staffing)	0.52% 2.64% 439 78% 2.08	1.09% 3,521 31% 1.07	0.83% 13,146 16% 0.46	0.82% 14,697 12% 0.40	63,346 9% 0.34	193,741 7% 0.22	288,889 9% 0.26	3,960 38% 1.13	17,106 22% 0.54	31,802 17% 0.47	95,148 12% 0.37
Avg Share Rate NM Deposit Ratio Full-time Equivalents Pct PT Employees FTE-to-Ops (Staffing) C&B Expense Ratio	0.52% 2.64% 439 78% 2.08	1.09% 3,521 31% 1.07	0.83% 13,146 16% 0.46	0.82% 14,697 12% 0.40 1.70%	63,346 9% 0.34 1.79%	193,741 7% 0.22 1.52%	288,889 9% 0.26	3,960 38% 1.13 1.89%	17,106 22% 0.54 1.68%	31,802 17% 0.47 1.69%	95,148 12% 0.37 1.76%
Avg Share Rate NM Deposit Ratio Full-time Equivalents Pct PT Employees FTE-to-Ops (Staffing) C&B Expense Ratio Pct of Total Op Exp	0.52% 2.64% 439 78% 2.08 2.00% 49%	1.09% 3,521 31% 1.07 1.88% 53%	0.83% 13,146 16% 0.46 1.65% 48%	0.82% 14,697 12% 0.40 1.70% 48%	63,346 9% 0.34 1.79% 50%	193,741 7% 0.22 1.52% 52%	288,889 9% 0.26 1.58% 51%	3,960 38% 1.13 1.89% 53%	17,106 22% 0.54 1.68% 49%	31,802 17% 0.47 1.69% 48%	95,148 12% 0.37 1.76% 50%
Avg Share Rate NM Deposit Ratio Full-time Equivalents Pct PT Employees FTE-to-Ops (Staffing) C&B Expense Ratio	0.52% 2.64% 439 78% 2.08	1.09% 3,521 31% 1.07	0.83% 13,146 16% 0.46	0.82% 14,697 12% 0.40 1.70%	63,346 9% 0.34 1.79%	193,741 7% 0.22 1.52%	288,889 9% 0.26	3,960 38% 1.13 1.89%	17,106 22% 0.54 1.68%	31,802 17% 0.47 1.69%	95,148 12% 0.37 1.76%
Avg Share Rate NM Deposit Ratio Full-time Equivalents Pct PT Employees FTE-to-Ops (Staffing) C&B Expense Ratio Pct of Total Op Exp Avg C&B per FTE Occ & Ops Exp Ratio	0.52% 2.64% 439 78% 2.08 2.00% 49% \$20,501 1.29%	1.09% 3,521 31% 1.07 1.88% 53% \$32,893 0.95%	0.83% 13,146 16% 0.46 1.65% 48% \$56,504 0.92%	0.82% 14,697 12% 0.40 1.70% 48% \$59,177 0.89%	63,346 9% 0.34 1.79% 50% \$65,274 0.93%	193,741 7% 0.22 1.52% 52% \$78,383 0.72%	288,889 9% 0.26 1.58% 51% \$72,887	3,960 38% 1.13 1.89% 53% \$31,519 0.97%	17,106 22% 0.54 1.68% 49% \$50,721	31,802 17% 0.47 1.69% 48% \$54,629 0.91%	95,148 12% 0.37 1.76% 50% \$61,716 0.92%
Avg Share Rate NM Deposit Ratio Full-time Equivalents Pct PT Employees FTE-to-Ops (Staffing) C&B Expense Ratio Pct of Total Op Exp Avg C&B per FTE	0.52% 2.64% 439 78% 2.08 2.00% 49% \$20,501	1.09% 3,521 31% 1.07 1.88% 53% \$32,893	0.83% 13,146 16% 0.46 1.65% 48% \$56,504	0.82% 14,697 12% 0.40 1.70% 48% \$59,177	63,346 9% 0.34 1.79% 50% \$65,274	193,741 7% 0.22 1.52% 52% \$78,383	288,889 9% 0.26 1.58% 51% \$72,887	3,960 38% 1.13 1.89% 53% \$31,519	17,106 22% 0.54 1.68% 49% \$50,721	31,802 17% 0.47 1.69% 48% \$54,629	95,148 12% 0.37 1.76% 50% \$61,716

## MERIDIAN ECONOMICS Trusted Insight, Effective Solutions



Historical Year-End	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
DEMOGRAPHICS											
No. of Credit Unions Avg Asset Size (\$Mil)	8,101 \$93.2	7,806 \$103.9	7,554 \$117.1	7,339 \$124.6	7,094 \$135.6	6,819 \$149.8	6,554 \$162.0	6,273 \$178.9	6,021 \$200.0	5,785 \$223.4	5,573 \$231.9
GROWTH RATES	5.00/	7.40/	2.40/	2.40/	5.00/	6.004	2.20/	5.70/	<b>-</b> 00/	= 00/	6.704
Total Assets Total Loans	6.2% 6.7%	7.4% 7.1%	9.1% 1.1%	3.4% -1.4%	5.2% 1.2%	6.2% 4.6%	3.9% 8.0%	5.7% 10.4%	7.3% 10.5%	7.3% 10.4%	6.7% 10.1%
Total Shares	5.2%	7.7%	10.5%	4.5%	5.2%	6.1%	3.7%	4.5%	6.9%	7.5%	5.2%
Net Worth	5.2%	-0.1%	1.7%	5.1%	6.8%	8.5%	7.4%	7.5%	6.9%	7.1%	7.3%
BALANCE SHEET ALLOCA	TION AND QU	ALITY									
Net Worth Ratio	11.4%	10.6%	9.9%	10.1%	10.2%	10.4%	10.8%	11.0%	10.9%	10.9%	11.0%
Cash & Inv-to-Assets	26%	27%	32%	35%	37%	38%	35%	32%	31%	28%	26%
Loans-to-Total Assets Vehicle-to-Total Loans	70% 33%	70% 31%	65% 30%	62% 11%	59% 29%	58% 30%	61% 31%	63% 32%	65% 33%	67% 34%	69% 35%
RELoans-to-Total Loans	52%	54%	54%	55%	55%	54%	53%	51%	50%	50%	49%
RELoans-to-Net Worth	317%	354%	354%	337%	319%	300%	296%	296%	302%	306%	313%
Indirect-to-Total Loans	13%	13%	13%	13%	12%	13%	14%	16%	17%	19%	20%
Loans-to-Shares Pct of Non-term-Shares	84% 56%	83% 56%	76% 59%	72% 62%	69% 65%	68% 67%	71% 69%	75% 71%	77% 72%	80% 73%	83% 73%
ST Funding Ratio	15.7%	14.7%	16.8%	16.1%	17.3%	17.5%	14.9%	13.7%	13.5%	13.4%	12.4%
Net LT Assets Ratio	30%	32%	32%	33%	32%	33%	36%	34%	33%	33%	34%
LOAN QUALITY	0.0001	4.3007	4.6464	4.7001	4.6001	4.4501	4.0401	0.0501	0.0464	0.0001	0.040/
Loan Delinquency Rate Net Charge-off Rate	0.93% 0.51%	1.38% 0.85%	1.64% 1.21%	1.76% 1.13%	1.60% 0.91%	1.16% 0.73%	1.01% 0.57%	0.85% 0.50%	0.81% 0.48%	0.83% 0.55%	0.81% 0.60%
"Misery" Index	1.44%	2.23%	2.85%	2.89%	2.51%	1.89%	1.58%	1.35%	1.29%	1.38%	1.41%
RE Loan Delinguency	0.67%	1.20%	2.00%	2.10%	2.00%	1.38%	1.15%	0.89%	0.75%	0.63%	0.61%
Veh Loan Delinquency	-	-	-	-	-	-	0.69%	0.67%	0.68%	0.72%	0.70%
Direct Delinquency Indirect Delinquency	- 1.16%	- 1.56%	- 1.47%	- 1.17%	- 0.97%	- 0.77%	0.60% 0.79%	0.60% 0.74%	0.64% 0.72%	0.67% 0.76%	0.67% 0.72%
Loss Allowance Ratio	0.73%	1.10%	1.51%	1.67%	1.55%	1.36%	1.13%	0.98%	0.72%	0.90%	0.72%
EARNINGS:	F 000/	F 640/	4.050/	4.450/	4.040/	2.650/	2.200/	2.200/	2.270/	2.440/	2.550/
Gross Asset Yield Cost of Funds	5.89% 2.79%	5.61% 2.44%	4.95% 1.74%	4.46% 1.21%	4.04% 0.93%	3.65% 0.73%	3.39% 0.59%	3.38% 0.54%	3.37% 0.52%	3.41% 0.53%	3.55% 0.57%
Gross Margin	3.10%	3.17%	3.21%	3.25%	3.12%	2.92%	2.80%	2.84%	2.85%	2.88%	2.99%
Provision Expense	0.44%	0.90%	1.13%	0.78%	0.50%	0.36%	0.26%	0.28%	0.35%	0.41%	0.48%
Net Margin	2.67%	2.27%	2.08%	2.46%	2.62%	2.56%	2.53%	2.56%	2.50%	2.48%	2.51%
Non-Interest Income	1.35%	1.34%	1.36%	1.33%	1.30%	1.43%	1.38%	1.31%	1.34%	1.37%	1.33%
Non-Interest Expense  Net Operating Exp	3.38% <b>2.03%</b>	3.60% <b>2.25%</b>	3.18% <b>1.83%</b>	3.07% <b>1.74%</b>	3.06% <b>1.76%</b>	3.10% <b>1.67%</b>	3.10% <b>1.72%</b>	3.11% <b>1.80%</b>	3.12% <b>1.77%</b>	3.10% <b>1.73%</b>	3.08% <b>1.75%</b>
Non-recurring Inc(Exp)	0.00%	-0.07%	-0.08%	-0.22%	-0.19%	-0.04%	-0.04%	0.04%	0.02%	0.02%	0.02%
Net Income (ROA)	0.63%	-0.05%	0.18%	0.50%	0.67%	0.85%	0.78%	0.80%	0.75%	0.76%	0.78%
Return on Net Worth	5.5%	-0.5%	1.7%	5.1%	6.6%	8.3%	7.3%	7.3%	6.8%	7.0%	6.9%
	•										
COST EFFICIENCIES:											
Non-Int Inc-to-Total Rev Avg Revenue per FTE	19% \$228,884	19% \$229,198	21% \$227,759	23% \$221,213	24% \$212,014	28% \$206,435	29% \$198,240	28% \$199,065	29% \$205,357	29% \$215,151	27% \$225,888
Avg Loan Balance	\$11,987	\$12,575	\$12,487	\$12,483	\$12,565	\$12,565	\$12,795	\$13,203	\$13,707	\$14,246	\$14,807
Avg Loan Rate Avg Loan Yield, net	6.72%	6.61% 5.33%	6.28% 4.60%	6.06% 4.82%	5.76%	5.42%	5.01%	4.79%	4.64%	4.56%	4.56%
	6.10%				4.94%	4.81%	4.57%	4.33%	4.10%	3.95%	4.08%
Avg Share Balance	\$7,284	\$7,690	\$8,375	\$8,691	\$9,011	\$9,353	\$9,454	\$9,580	\$9,891	\$10,225	\$10,415
Avg Share Rate NM Deposit Ratio	3.32% 0.4%	2.91% 0.4%	2.06% 0.3%	1.41% 0.3%	1.08% 0.3%	0.85% 0.3%	0.69% 0.3%	0.63% 0.5%	0.61% 0.7%	0.62% 0.8%	0.67% 0.9%
Full-time Equivalents	232,008	237,655	234,915	235,312	236,282	244,232	250,570	257,263	267,023	277,354	\$288,889
Pct PT Employees FTE-to-Ops (Staffing)	14% 0.39	13% 0.37	12% 0.36	12% 0.36	12% 0.35	12% 0.34	12% 0.33	11% 0.30	10% 0.28	9% 0.27	9% 0.26
C&B Expense Ratio Pct of Total Op Exp	1.70% 50%	1.70% 47%	1.61% 51%	1.56% 51%	1.54% 50%	1.56% 50%	1.56% 51%	1.56% 50%	1.58% 51%	1.58% 51%	1.58% 51%
Avg C&B per FTE	\$53,640	\$55,892	\$58,264	\$59,466	\$61,304	\$63,493	\$65,040	\$66,286	\$68,882	\$70,992	\$72,887
Occ & Ops Exp Ratio	0.93%	0.92%	0.87%	0.83%	0.81%	0.81%	0.80%	0.81%	0.80%	0.79%	0.77%
Pct of Total Op Exp	27%	26%	27%	27%	27%	26%	26%	26%	26%	25%	25%
Avg O&O per FTE	\$29,236	\$30,283	\$31,403	\$31,673	\$32,254	\$32,739	\$33,137	\$34,226	\$34,697	\$35,356	\$30,847