## Appendix A

## **Established Risk guidelines and Other Financial Management Information**

The Established Risk Guidelines and Other Financial Management Information is intended to be a guide for the ALCO on measuring different risks, their "tolerance ranges", and other key financial management information. These guidelines are NOT meant to be absolute – rather to help the ALCO and the Board of Directors in risk management and management of the Credit Union's financial position. There may be additional financial and risk measurements, as well as experienced judgment, which will be used, yet not listed here. These guidelines and targets may be amended from time to time.

**Key Financial Management Targets:** 

	Minimum	Maximum	Long Term	Frequently of
Ratio	Guidelines	Guidelines	Target	Measurement
Net Worth Ratio	10.00%	N/A	15% or greater	Monthly
Annual Return on Assets (ROA)	0.50%	N/A	1.0% or greater	Monthly (progress toward annual goal)
Annual Return on Equity	3.25%	N/A	7.0% or greater	Monthly (progress toward annual goal)
Liquidity	15.00%	N/A	20%	Monthly
Fixed Assets to Total Assets	N/A	5.00%	5.0% or less (7.0% with approval)	Monthly
Fixed Rate Assets to Total Assets	N/A	90.00%	90% or less	Monthly
Loans with maturity dates beyond 15 years to Total Assets	N/A	20.00%	20% or less	Monthly
Unsecured Loans to Total Assets	N/A	20.00%	20% or less	Monthly
CASD SERP/Net Worth	N/A	25.00%	25% or less	Monthly

## **Key Risks, their Measurements, and their Established Guidelines:**

Credit Risk  1. Delinquent Loans to Total Loans 2. Delinquent Loans to Total Assets 3. Delinquent Loans to Total Assets 4. Review listing of top 20% of past due loans  Interest Rate Risk 12-month cumulative % effect on Net Interest Income dollars. (Rate shock is an immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 7. +200 basis point shock % change 8. N/A 815.0% 9. Quarterly 9200 basis point shock % change 1. +100 basis point shock % change 1. +100 basis point shock % change 2200 basis point shock % change 3. +300 basis point shock % change 410.0% 6300 basis point shock % change 715.0% 9200 basis point shock % change 9. N/A 1-15.0% 9. Quarterly 9200 basis point shock % change 1. +100 basis point shock % change 1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4. 0% 9. N/A 9. 0WA Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 basis point shock % change 9200 basis point shock % change 9. A.0% 9. N/A Monthly 9200 b	Guidelines:	1	1	
Credit Risk  1. Delinquent Loans to Total Loans 2. Delinquent Loans to Total Assets 3. Delinquent Loans to Total Assets 4. Review listing of top 20% of past due loans  Interest Rate Risk  12-month cumulative % effect on Net Interest Income dollars. (Rate shock is an immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND  ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 1. +100 basis point shock % change 7200 basis point shock % change 8. N/A 815.0% 9. Quarterly 9300 basis point shock % change 9. N/A 915.0% 9. Quarterly 915.0% 9. Quarterly 915.0% 9. Quarterly 9100 basis point shock % change 9. N/A 9. N/A 9. N/A 9. Monthly 9200 basis point shock % change 9. N/A 9. N/A 9. Monthly 9200 basis point shock % change 9. N/A 9. 0. Monthly 9200 basis point shock % change 9. N/A 9. 0. Monthly 9200 basis point shock % change 9. N/A 9. 0. Monthly 9200 basis point shock % change 9. N/A 9. 0. Monthly 9200 basis point shock % change 9. N/A 9. 0. Monthly 9200 basis point shock % change 9. N/A 9. 0. Monthly 9. N/A 9. Monthly		Minimum	Maximum	Frequency of
1. Delinquent Loans to Total Loans 2. Delinquent Loans to Total Assets 3. Delinquent Loans to Total Assets 4. Review listing of top 20% of past due loans 5. Interest Rate Risk 12-month cumulative % effect on Net Interest Income dollars. (Rate shock is an immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here. 1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 7200 basis point shock % change 8. N/A 715.0% 9. Quarterly 9200 basis point shock % change 9. N/A 715.0% 9. Quarterly 915.0% 9. Quarterly 910.0% 9. Quarterly 9. Quarterl		Guideline	Guideline	Measurement
2. Delinquent Loans to Total Assets 3. Delinquent Loans to Total Capital 4. Review listing of top 20% of past due loans  Interest Rate Risk 12-month cumulative % effect on Net Interest Income dollars. (Rate shock is an immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here. 1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 8. N/A 1-15.0%	Credit Risk			
2. Delinquent Loans to Total Assets 3. Delinquent Loans to Total Capital 4. Review listing of top 20% of past due loans  Interest Rate Risk 12-month cumulative % effect on Net Interest Income dollars. (Rate shock is an immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here. 1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 8. N/A 1-15.0%	1. Delinquent Loans to Total Loans	0.2%	2.2%	Monthly
3. Delinquent Loans to Total Capital 4. Review listing of top 20% of past due loans  Interest Rate Risk 12-month cumulative % effect on Net Interest Income dollars. (Rate shock is an immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 7. +100 basis point shock % change 8. N/A 715.0% 9. Quarterly 9200 basis point shock % change 9. N/A 715.0% 9. Quarterly 9200 basis point shock % change 9. N/A 715.0% 9. Quarterly 9200 basis point shock % change 9. N/A 9. N/A 9. Monthly 9200 basis point shock % change 9. 4.0% 9. N/A 9. Monthly 9200 basis point shock % change 9. 4.0% 9. N/A 9. Monthly 9. Monthly 9300 basis point shock % change 9. 4.0% 9. N/A 9. Monthly 9. Monthly 9. N/A 9. Monthly		0.1%	1.5%	Monthly
4. Review listing of top 20% of past due loans    N/A	· ·	1.0%	10.0%	3
due loans    Collection staff	·			_
Interest Rate Risk  12-month cumulative % effect on Net Interest Income dollars. (Rate shock is an immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change N/A -10.0% Quarterly 2. +200 basis point shock % change N/A -15.0% Quarterly 3. +300 basis point shock % change N/A -15.0% Quarterly 5200 basis point shock % change N/A -10.0% Quarterly 6300 basis point shock % change N/A -15.0% Quarterly 715.0% Quarterly 815.0% Quarterly 915.0% Quarterly 9				3 3
12-month cumulative % effect on Net Interest Income dollars. (Rate shock is an immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change N/A -15.0% Quarterly 2. +200 basis point shock % change N/A -15.0% Quarterly 3. +300 basis point shock % change N/A -15.0% Quarterly 4100 basis point shock % change N/A -15.0% Quarterly 5200 basis point shock % change N/A -15.0% Quarterly 6300 basis point shock % change N/A -15.0% Quarterly N/A -100 basis point shock % change N/A -15.0% Quarterly N/A Monthly 3. +300 basis point shock % change A.0% N/A Monthly 4100 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 6300 basis point shock % change A.0% N/A Monthly 6300 basis point shock % change A.0% N/A Monthly 6300 basis point shock % change A.0% N/A Monthly 6300 basis point shock % change A.0% N/A Monthly 90.0% Monthly 90.0% Monthly 90.0% Monthly 90.0%	330 103110			concomon oran
12-month cumulative % effect on Net Interest Income dollars. (Rate shock is an immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change N/A -15.0% Quarterly 2. +200 basis point shock % change N/A -15.0% Quarterly 3. +300 basis point shock % change N/A -15.0% Quarterly 4100 basis point shock % change N/A -15.0% Quarterly 5200 basis point shock % change N/A -15.0% Quarterly 6300 basis point shock % change N/A -15.0% Quarterly N/A -100 basis point shock % change N/A -15.0% Quarterly N/A Monthly 3. +300 basis point shock % change A.0% N/A Monthly 4100 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 5200 basis point shock % change A.0% N/A Monthly 6300 basis point shock % change A.0% N/A Monthly 6300 basis point shock % change A.0% N/A Monthly 6300 basis point shock % change A.0% N/A Monthly 6300 basis point shock % change A.0% N/A Monthly 90.0% Monthly 90.0% Monthly 90.0% Monthly 90.0%	Interest Rate Risk			
Interest Income dollars. (Rate shock is an immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change N/A -15.0% Quarterly 2. +200 basis point shock % change N/A -15.0% Quarterly 3. +300 basis point shock % change N/A -10.0% Quarterly 4100 basis point shock % change N/A -10.0% Quarterly 5200 basis point shock % change N/A -15.0% Quarterly 6300 basis point shock % change N/A -15.0% Quarterly 7. +100 basis point shock % change N/A -15.0% Quarterly 8. +200 basis point shock % change N/A -15.0% Quarterly 9. Net Interest Margin N/A -15.0% N/A Monthly 9. +200 basis point shock % change N/A Monthly 9. +200 basis point shock % change N/A Monthly 9. +200 basis point shock % change N/A Monthly 9200 basis point shock % change N/A N/A Monthly 9200 basis point shock % change N/A N/A Monthly				
immediate and sustained parallel shift in the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change N/A 1-5.0% Quarterly 4100 basis point shock % change N/A 1-5.0% Quarterly 5200 basis point shock % change N/A 1-5.0% Quarterly 6300 basis point shock % change N/A 1-5.0% Quarterly 715.0% Quarterly 815.0% Quarterly 915.0% Quarterly 915.0% Quarterly 915.0% N/A Monthly 9. +200 basis point shock % change N/A 1-100 basis point sho				
the yield curve.) Note: If the Credit Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 8300 basis point shock % change 9. N/A 100 basis point shock % change 100 basis point shock % change 100 basis point shock % chan	•			
Union's Net Interest Margin Dollars AND ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 7. +100 basis point shock % change 8. N/A 815.0% 9. Quarterly 9200 basis point shock % change 9. N/A 915.0% 9. Quarterly 915.0%  Ouarterly 915.0%	•			
ROA are ABOVE the financial targets, then the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change N/A -15.0% Quarterly 2. +200 basis point shock % change N/A -15.0% Quarterly 3. +300 basis point shock % change N/A -15.0% Quarterly 4100 basis point shock % change N/A -10.0% Quarterly 5200 basis point shock % change N/A -15.0% Quarterly 6300 basis point shock % change N/A -15.0% Quarterly  Net Interest Margin 1. +100 basis point shock % change 4.0% N/A Monthly 2. +200 basis point shock % change 4.0% N/A Monthly 3. +300 basis point shock % change 4.0% N/A Monthly 4100 basis point shock % change 4.0% N/A Monthly 5200 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly 1. +100 basis point shock % change 4.0% N/A Monthly 2. +200 basis point shock % change 4.0% N/A Monthly 3. +300 basis point shock % change 4.0% N/A Monthly 4100 basis point shock % change 4.0% N/A Monthly 5200 basis point shock % change 4.0% N/A Monthly 5200 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly 7. Net Loans to Deposits N/A 95.0% Monthly 7. Net Loans to Assets N/A 90.0% Monthly				
the Maximum Guidelines may be more liberal than shown here.  1. +100 basis point shock % change N/A -10.0% Quarterly 2. +200 basis point shock % change N/A -15.0% Quarterly 3. +300 basis point shock % change N/A -15.0% Quarterly 4100 basis point shock % change N/A -10.0% Quarterly 5200 basis point shock % change N/A -15.0% Quarterly 6300 basis point shock % change N/A -15.0% Quarterly 715.0% Quarterly 815.0% Quarterly 915.0% Quarterly 915.0% Quarterly 915.0% Quarterly 915.0% Quarterly 915.0% N/A Monthly 9. +200 basis point shock % change A.0% N/A Monthly 9. +200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly 9200 basis point shock % change A.0% N/A Monthly	S			
liberal than shown here.  1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 7. +100 basis point shock % change 8. N/A 815.0% 9. Quarterly 9200 basis point shock % change 9. N/A 915.0% 9. Quarterly 9. Quarterly 915.0%  1. +100 basis point shock % change 9. N/A 9. N/A 9. Monthly 9200 basis point shock % change 9. N/A 9. N/A 9. Monthly 9200 basis point shock % change 9. N/A 9. N/A 9. Monthly 9200 basis point shock % change 9. N/A 9. N/A 9. Monthly 9. N/A 9. Monthly 9. N/A Monthly				
1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 7. +100 basis point shock % change 8. N/A 815.0% 9. Quarterly 915.0% 9. Quarterly 915.0% 9. Quarterly 9. Quarte	,			
2. +200 basis point shock % change 3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 7. +100 basis point shock % change 8. N/A 815.0% 9. Quarterly 9200 basis point shock % change 9. N/A 915.0% 9. Quarterly		NI/A	10.00/	Quartarly
3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 7. +100 basis point shock % change 8. N/A 815.0% 9. Quarterly 9. Quarterly 1. +100 basis point shock % change 9. N/A 115.0% 9. Quarterly  Net Interest Margin 1. +100 basis point shock % change 1. +200 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4. 0% 1. N/A 1. Monthly 4100 basis point shock % change 4. 0% 1. N/A 1. Monthly 5200 basis point shock % change 4. 0% 1. N/A 1. Monthly 1. Auguidity Risk 1. Net Loans to Deposits 2. Net Loans to Assets 3. Liquid Assets (investments available for sale, cash and cash equivalents) 15. 0% 1				_
4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change N/A -15.0% Quarterly  Net Interest Margin 1. +100 basis point shock % change 4.0% N/A Monthly 3. +300 basis point shock % change 4.0% N/A Monthly 4100 basis point shock % change 4.0% N/A Monthly 5200 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly 5200 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly Monthly  Liquidity Risk 1. Net Loans to Deposits N/A N/A Significant of the property of the pro		_		•
5200 basis point shock % change  N/A -15.0% Quarterly  Net Interest Margin 1. +100 basis point shock % change 4.0% N/A Monthly 3. +300 basis point shock % change 4.0% N/A Monthly 4100 basis point shock % change 4.0% N/A Monthly 5200 basis point shock % change 4.0% N/A Monthly 5200 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change N/A Monthly Monthly Monthly Monthly Monthly Monthly Monthly  Liquidity Risk 1. Net Loans to Deposits N/A N/A Nonthly N/A Monthly  N/A Monthly  Liquid Assets (investments available for sale, cash and cash equivalents)  N/A N/A Monthly  N/A Monthly  N/A Monthly  N/A Monthly		· ·		•
6300 basis point shock % change  N/A  -15.0%  Quarterly  Net Interest Margin  1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4.0% 4.0% N/A Monthly 4100 basis point shock % change 4.0% N/A Monthly 5200 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly  Liquidity Risk 1. Net Loans to Deposits 2. Net Loans to Assets N/A 95.0% Monthly 3. Liquid Assets (investments available for sale, cash and cash equivalents)  15.0% N/A Monthly Monthly		_		_
Net Interest Margin  1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4.0% 4.0% N/A Monthly 4100 basis point shock % change 4.0% N/A Monthly 5200 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly  Liquidity Risk 1. Net Loans to Deposits N/A 95.0% Monthly 2. Net Loans to Assets N/A 90.0% Monthly 3. Liquid Assets (investments available for sale, cash and cash equivalents)  N/A Monthly N/A Monthly				3
1. +100 basis point shock % change 2. +200 basis point shock % change 3. +300 basis point shock % change 4.0% 4100 basis point shock % change 4.0% 5200 basis point shock % change 6300 basis point shock % change 7200 basis point shock % change 8200 basis point shock % change 9200 basis point shock % change	6300 basis point shock % change	N/A	-15.0%	Quarterly
2. +200 basis point shock % change 4.0% N/A Monthly 3. +300 basis point shock % change 4.0% N/A Monthly 4100 basis point shock % change 4.0% N/A Monthly 5200 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly  Liquidity Risk 1. Net Loans to Deposits N/A 95.0% Monthly 2. Net Loans to Assets N/A 90.0% Monthly 3. Liquid Assets (investments available for sale, cash and cash equivalents) 15.0% N/A Monthly	Net Interest Margin			
3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 7. N/A Monthly 8. Liquidity Risk 9. N/A 95.0% Monthly 9. Net Loans to Deposits 9. N/A 90.0% Monthly 15. O% N/A Monthly 15. Net Loans to Assets 16. Liquid Assets (investments available for sale, cash and cash equivalents) 15. O% N/A Monthly	1. +100 basis point shock % change	4.0%	N/A	Monthly
3. +300 basis point shock % change 4100 basis point shock % change 5200 basis point shock % change 6300 basis point shock % change 7. N/A Monthly 8. Liquidity Risk 9. N/A 95.0% Monthly 9. Net Loans to Deposits 9. N/A 90.0% Monthly 15. O% N/A Monthly 15. Net Loans to Assets 16. Liquid Assets (investments available for sale, cash and cash equivalents) 15. O% N/A Monthly	2. +200 basis point shock % change	4.0%	N/A	Monthly
4100 basis point shock % change 5200 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change  Liquidity Risk 1. Net Loans to Deposits 2. Net Loans to Assets 3. Liquid Assets (investments available for sale, cash and cash equivalents)  4.0% N/A N/A Monthly Monthly  95.0% Monthly N/A 90.0% Monthly  15.0% N/A Monthly	3. +300 basis point shock % change	4.0%	N/A	Monthly
5200 basis point shock % change 4.0% N/A Monthly 6300 basis point shock % change 4.0% N/A Monthly  Liquidity Risk 1. Net Loans to Deposits N/A 95.0% Monthly 2. Net Loans to Assets N/A 90.0% Monthly 3. Liquid Assets (investments available for sale, cash and cash equivalents) 15.0% N/A Monthly		4.0%	N/A	,
6300 basis point shock % change 4.0% N/A Monthly  Liquidity Risk 1. Net Loans to Deposits N/A 95.0% Monthly 2. Net Loans to Assets N/A 90.0% Monthly 3. Liquid Assets (investments available for sale, cash and cash equivalents) 15.0% N/A Monthly	,	4.0%	N/A	_
Liquidity Risk  1. Net Loans to Deposits 2. Net Loans to Assets 3. Liquid Assets (investments available for sale, cash and cash equivalents)  N/A 95.0% Monthly 90.0% Monthly	_	4.0%	N/A	_
1. Net Loans to Deposits 2. Net Loans to Assets 3. Liquid Assets (investments available for sale, cash and cash equivalents)  N/A 95.0% N/A 90.0% Monthly 15.0% N/A Monthly	J. J			,
1. Net Loans to Deposits 2. Net Loans to Assets 3. Liquid Assets (investments available for sale, cash and cash equivalents)  N/A 95.0% N/A 90.0% Monthly 15.0% N/A Monthly	Liquidity Risk			
2. Net Loans to Assets 3. Liquid Assets (investments available for sale, cash and cash equivalents)  N/A  90.0%  Monthly  15.0%  N/A  Monthly		N/A	95.0%	Monthly
3. Liquid Assets (investments available for sale, cash and cash equivalents)  15.0%  N/A  Monthly	·	N/A	90.0%	_
sale, cash and cash equivalents) 15.0% N/A Monthly				,
	•	15.0%	N/A	Monthly
				<b>,</b>
first mortgage loans) N/A 30.0% Monthly	`	N/A	30.0%	Monthly
				· ···· <i>y</i>

## Board Approved 08/21/2018

	Minimum	Maximum	Frequency of
	Guideline	Guideline	Measurement
Price Risk			
Cumulative % effect on Economic Value			
of			
Equity or Net Economic Value (NEV)			
1. +100 basis points shock % change	N/A	-10.0%	Quarterly
2. +200 basis points shock % change	N/A	-25.0%	Quarterly
3. +300 basis point shock % change	N/A	-25.0%	Quarterly
4100 basis point shock % change	N/A	-10.0%	Quarterly
5200 basis points shock % change	N/A	-25.0%	Quarterly
6300 basis point shock % change	N/A	-25.0%	Quarterly
7. +400 basis points shock % change	N/A	-40.0%	Quarterly
8. +500 basis point shock % change	N/A	-45.0%	Quarterly
9400 basis point shock % change	N/A	-40.0%	Quarterly
10500 basis point shock % change	N/A	-45.0%	Quarterly
NEV Ratio			
1. +100 basis points shock % change	10.0%	N/A	Quarterly
2. +200 basis points shock % change	10.0%	N/A	Quarterly
3. +300 basis point shock % change	10.0%	N/A	Quarterly
4100 basis point shock % change	10.0%	N/A	Quarterly
5200 basis point shock % change	10.0%	N/A	Quarterly
6300 basis point shock % change	10.0%	N/A	Quarterly
7400 basis point shock % change	7.0%	N/A	Quarterly
8500 basis point shock % change	7.0%	N/A	Quarterly
9. +400 basis point shock % change	7.0%	N/A	Quarterly
10. +500 basis point shock % change	7.0%	N/A	Quarterly