



FINAL

# Thrift Industry Interest Rate Risk Measures Third Quarter 2003

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**Note: For this quarter, the IRR Measures downward shift uses 100 basis points and the upward shift uses 200 basis points.**

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The attached tables contain the most recent industry statistics for several measures of interest rate risk (IRR): the **Post-Shock Net Portfolio Value (NPV) Ratio**, the **Interest Rate Sensitivity Measure**, the **Pre-Shock NPV Ratio**, and the **Change in NPV Ratio**. The measures are defined in footnotes that are included with the tables. The tables can be used to assess an institution's level of IRR.

An institution can find its approximate **Post-Shock NPV Ratio** ranking by referring to Table 1. Assume XYZ Savings has a Post-Shock NPV Ratio of 7.6%. In the last column of the table, locate the first value that is larger than XYZ's post-shock ratio. For XYZ Savings, this corresponds to the second row of the table.

The first column of this row contains XYZ's overall ranking: XYZ's post-shock ratio places this institution in the first quintile (the worst 20%) of the industry. The second column shows an

institution's rank with greater precision. XYZ's post-shock ratio is actually among the bottom (worst) 15% of the industry.

This issue of the *Interest Rate Risk Measures* is available on the OTS Web page at <http://www.ots.treas.gov/docs/16330.pdf>. The preliminary measures for December (16341.pdf) should be available on the OTS Web page by February 23, 2004.

**Note: The IRR Measures are no longer available on the OTS PubliFax system. All documents previously available on PubliFax will be provided through the OTS Web site. We will continue to use the PubliFax document numbering convention. If you have any questions or comments, please call the Dissemination Branch at (202) 906-6000, or e-mail them at [public.info@ots.treas.gov](mailto:public.info@ots.treas.gov).**

**Table 1**  
**Post-Shock NPV Ratio\***  
**As of September 30, 2003**

Quintile	Percent of Industry	Post-Shock NPV Ratio Less Than:
1st	10	6.9 %
	15	7.7
	20	8.2
2nd	30	9.2
	40	10.0
3rd	50	10.9
	60	11.9
4th	70	13.2
	80	14.9
5th	85	16.2
	90	18.2

\* The Post-Shock NPV Ratio is defined as the Net Portfolio Value (NPV) ratio after a 200 basis points increase or 100 basis points decrease in rates, whichever produces the smaller ratio.

**Table 2**  
**Interest Rate Sensitivity Measure\***  
**As of September 30, 2003**

Quintile	Percent of Industry	Sensitivity Measure Greater Than:
1st	10	334 bp
	15	284
	20	258
2nd	30	207
	40	165
3rd	50	130
	60	90
4th	70	68
	80	49
5th	85	41
	90	30

\* The Interest Rate Sensitivity Measure is defined as the decline (in basis points) in the NPV ratio caused by a 200 basis points increase or 100 basis points decrease in rates, whichever produces the larger decline.

Note: The NPV ratio for any interest rate scenario is defined as the NPV in that rate scenario divided by the present value of assets in the same rate scenario. An institution's NPV is equal to the estimated present value of assets minus the present value of liabilities plus the net present value of off-balance sheet contracts.

Based on 875 OTS-regulated institutions for which the September 2003 Interest Rate Risk Exposure Reports are available.

Prepared by the Economic Analysis Division, OTS, Washington, D.C., December 16, 2003.

**Table 3**  
**Pre-Shock NPV Ratio\***  
**As of September 30, 2003**

Quintile	Percent of Industry	Pre-Shock NPV Ratio Less Than:
1st	10	8.6 %
	15	9.2
	20	9.7
2nd	30	10.6
	40	11.3
3rd	50	12.3
	60	13.5
4th	70	14.6
	80	16.7
5th	85	18.2
	90	20.7

\* The Pre-Shock NPV Ratio is defined as the base-case (pre-shock) NPV divided by the present value of assets in the same rate scenario.

**Table 4**  
**NPV Ratio by Interest Rate Scenario\***  
**As of September 30, 2003**

Quintile	Percent of Industry	NPV Ratio*	
		-100bp	+200bp
		Less Than:	
1st	10	8.4 %	7.0 %
	15	9.1	7.9
	20	9.5	8.5
2nd	30	10.4	9.6
	40	11.3	10.5
3rd	50	12.3	11.4
	60	13.5	12.4
4th	70	14.8	13.6
	80	16.8	15.3
5th	85	18.6	16.4
	90	20.7	18.7

\* The NPV ratio for any interest rate scenario is defined as the NPV in that rate scenario divided by the present value of assets in the same rate scenario.

Note: The NPV ratio for any interest rate scenario is defined as the NPV in that rate scenario divided by the present value of assets in the same rate scenario. An institution's NPV is equal to the estimated present value of assets minus the present value of liabilities plus the net present value of off-balance sheet contracts.

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**Table 5**  
**Change in NPV Ratio by Interest Rate Scenario\***  
**As of September 30, 2003**

Quintile	Percent of Industry	Change in NPV Ratio*	
		-100bp	+200bp
		Less Than:	
1st	10	-65 bp	-334 bp
	15	-52	-284
	20	-44	-258
2nd	30	-25	-207
	40	-14	-164
3rd	50	-3	-124
	60	11	-79
4th	70	24	-34
	80	41	11
5th	85	52	34
	90	63	71

\* The Change in NPV Ratio is defined as the change (in basis points) in the NPV ratio caused by an interest rate shock of either -100 or +200 basis points.

Note: The NPV ratio for any interest rate scenario is defined as the NPV in that rate scenario divided by the present value of assets in the same rate scenario. An institution's NPV is equal to the estimated present value of assets minus the present value of liabilities plus the net present value of off balance sheet contracts.

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