

Wharton

Financial
Institutions
Center

*Wharton's FDIC Research
Database*

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THE WHARTON FINANCIAL INSTITUTIONS CENTER

The Wharton Financial Institutions Center provides a multi-disciplinary research approach to the problems and opportunities facing the financial services industry in its search for competitive excellence. The Center's research focuses on the issues related to managing risk at the firm level as well as ways to improve productivity and performance.

The Center fosters the development of a community of faculty, visiting scholars and Ph.D. candidates whose research interests complement and support the mission of the Center. The Center works closely with industry executives and practitioners to ensure that its research is informed by the operating realities and competitive demands facing industry participants as they pursue competitive excellence.

Copies of the working papers summarized here are available from the Center. If you would like to learn more about the Center or become a member of our research community, please let us know of your interest.

Anthony M. Santomero
Director

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Wharton's FDIC Research Database

INTRODUCTION

- ◆ The Federal Deposit Insurance Company (FDIC) Research Database is used by the FDIC's Division of Research and Statistics for policy analysis as well as producing quarterly statistics for *The FDIC Quarterly Banking Profile* and *Graph Book*. It is also used to compile statistics for the *Historical Statistics on Banking*, a series of tables and graphs that are accessible via FTP or Gopher (see appendix C).
- ◆ The FDIC Research Database contains financial data and history of all entities filing the Report of Condition and Income (Call Report) and most savings institutions filing the OTS Thrift Financial Report (TFR). These entities include commercial banks, savings banks, or savings and loans. (*An example Call Report is included as Appendix D*)
- ◆ The FDIC data is available quarterly from December 1984 to the present in SAS format *only*.
- ◆ The Wharton Financial Institutions Center (WFIC) makes the FDIC data available to faculty and students through the Wharton Research Data System (WRDS). WFIC can provide advice and counsel on use of the data.

THE FDIC RESEARCH DATA - OVERVIEW

- ◆ FDIC data contains five SAS files for each time period. They are: STRU, FTS, CDI, RAT, and MERG. (*See Appendix A for details*)

- ◆ **STRU - Structure Data:**

STRU contains structure and demographic information for each entity (bank, S&Ls, etc). This includes entity name, address, type, the entity's primary regulator, the date it was established, its charter class, etc.

- ◆ **FTS - Financial Time Series Data:**

FTS contains balance sheet and income statement data for all entities.

- ◆ **CDI & RAT - Complex Derived Integers & Ratio Data:**

The CDI & RAT data contain derived items and ratios based on the FTS data. These include annualized data, 2 and 5 quarterly period averages, growth rates

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for various items, and ratio data such as ROA, ROE, and risk-based capital ratios. *It is important to note that all derived items like 2 and 5 quarterly averages are merger adjusted.*

◆ **MERG - Merger History Data:**

This data contains information on the merger or acquisition activities of all entities in the FDIC database. It includes the date of merger (or acquisition), the name of the merging partner, and the name of the resulting firm.

ACCESSIBILITY

- ◆ For more information on how to access the FDIC data at The Wharton School of the University of Pennsylvania please see the Wharton Computing and Information Technology's (WCIT's) *TechBrief* 'WRDS: The Wharton Research Data System.' (See Appendix B for details on WCIT)

OTHER RESOURCES AVAILABLE TO UNDERSTAND THE FDIC DATABASE

- ◆ The FDIC database is accompanied by a data dictionary disk which can be used with any IBM compatible machine (MS-DOS based). The dictionary allows the researcher to search by various fields such as the name of the variable and call report schedules (e.g. RC-A). It also contains definitions of all variables on FDIC.

The dictionary can be used to create a mapping between the naming convention of the Call Report and the naming convention of the FDIC database. (For example, the item *Total Assets* is called *RCFD2170* on the Call Report, and *ASSET* on the FDIC database. If a researcher were interested in a particular line item on the Call Report, say *RCFD2170*, they would go to the data dictionary and search by *RCFD2170*, the dictionary would then give them the FDIC equivalent name, *ASSET*.)

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QUESTION AND PROBLEMS

- ◆ If you have any questions about *SAS* please contact your local representative or write/call:

SAS Institute Inc.
SAS Campus Drive
Cary, NC 27513

(919) 677-8008

- ◆ If you have any questions about the informational content of FDIC or you have problems accessing or using the FDIC data files provided by WRDS, please contact:

Consultant
Wharton Computing
212 Vance Hall
University of Pennsylvania
Philadelphia, PA 19104-6301

(215) 898-8600
(215) 898-1395 (fax)
consultant@wharton.upenn.edu

<http://wrds.wharton.upenn.edu/>

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CONTENT AND ORGANIZATION

◆ DATA ISSUES

- ◆ FDIC-FTS will include “derived” items whenever possible in order to “normalize” the data over time and over different form types.
- ◆ Savings Institutions filing the OTS Thrift Financial Report (TFR) will appear wherever possible; however, this data will follow the Call Report format and footnoted whenever definitions vary.
- ◆ FDIC insured savings banks prior to March 1989 will be included on an as available basis and footnoted whenever definitions vary.

◆ ACCOUNTING ISSUES

- ◆ **FASB Statement 115** ~ *Accounting for certain investments in debt and equity* securities requires securities that are not held in trading accounts be measured at either amortized cost or fair (market) value, depending on their classification category. Securities classified at held-to-maturity are to be measured on an amortized cost basis; securities classified as available-for-sale are to be measured at fair value with any unrealized appreciation or depreciation, net of tax effects, reported in a separate component of equity capital. FASB 115 must be adopted for Call Report purposes for fiscal years beginning after December 15, 1993, with earlier application permitted in certain circumstances. It is noted, that some institutions chose to adopt FASB 115 at an earlier date. Prior to the adoption of FASB 115 securities not held in trading accounts were measured at, amortized cost if classified as held-to-maturity, or lower of cost or market if classified as held-for-sale.
- ◆ **FASB Statement 39** ~ *Offsetting of amounts related to certain contracts* covers fair value amounts recognized as assets and liabilities on the balance sheet for off-balance sheet derivative contracts under which the amounts to be received or paid or items to be exchanged depend on future events or other factors (e.g., future and forward contracts, interest rate swaps, exchange rate swaps, and other conditional and exchange contracts). FASB Interpretation 39 specifies that for these types of contracts it is improper to net related assets and liabilities on financial statements, unless a right of setoff exists. A list of specific criteria must be met for the right of setoff to exist. FASB interpretation 39 must be adopted for fiscal years beginning after December 15, 1993. Prior to adoption of FASB Interpretation 39, asset and liability amounts for these types

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of contracts were typically reported as net amounts of the Call Report without regard to setoff.

◆ NAMING CONVENTION

- ◆ The FDIC data uses a prefix (maximum of eight characters) to differentiate between various data “types” (e.g., STRU, FTS, CDI, RAT, MERG). The naming convention appears below.

AA	securities available-for-sale at amortized cost basis (if data name ends with “AA”)
AF	securities available-for-sale at fair value basis (if data name ends with “AF”)
AG	agricultural
AV	average
AVD	average deposits
BAL	balance
CAP	capital (if data name begins with “CAP”)
CD	certificate of deposit (if data name begins with “CD”)
CH	cash
CI	commercial and industrial loans
COM	commercial loans
COMPAP	commercial paper
CON	consumer
CONS	construction and land development
CR	credit (if data name begins with “CR” - as in a loan recovery)
CRCD	credit card

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D	domestic (toward the end of the data name)
DB	debt
DD	demand deposits
DDT	demand deposits - transaction (if data name begins with "DDT")
DEP	deposit
DEP	depository institution
DR	debit (if data name begins with "DR" - as in a loan charge-off)
DOM	domestic (if room does not permit a "D" is used toward the end of the data name)
E	expense (if data name begins with "E" - as in the Report of Income)
EQ	equity
EXP	expense
F	foreign (toward the end of the data name)
FF	federal funds
FFC	futures and forward contracts (if data name ends with "FFC")
FL	floating rate
FOR	foreign (if room does not permit an "F" is used toward the end of the data name)
FORX	foreign exchange (if data name begins with "FOR")
FREPO	federal funds sold and securities purchased under agreements to resell
FREPP	federal funds purchased and securities sold under agreements to repurchase

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FX	fixed rate
GL	gain or loss
GR	gross
HA	securities held-to-maturity at amortized cost basis (if data name ends with "HA")
HF	securities held-to-maturity at fair value basis (if data name ends with "HF")
HLT	highly-leveraged transactions
I	income (if the data name begins with an "I" - as in report of Income)
I	interest bearing (on the Report of Condition)
IBF	international banking facility
INC	income
INT	interest
K	conveyed (if the data name ends with "K")
LN	loans
LOC	letters of credit (if data name begins with "LOC")
LOC	lines of credit (toward the end of the data name)
LS	lease financing receivables
MTG	mortgage
MUNI	obligations of state and political subdivisions
MULT	multifamily
NA	nonaccrual (if data name begins with "NA")

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NC	noncurrent - 90 days or more past due plus nonaccrual (if data name begins with "NC")
NET	net (if room does not permit a "NT" is also used)
NIM	net interest income
NI	noninterest bearing (on the Report of Condition)
NII	noninterest income
NIX	noninterest expense
NRES	nonresidential
NT	net (if data name begins with "NT" - as in a net loan charge-off debit minus credit)
NTR	nontransaction amount (if data name begins with "NT")
NUS	non U.S. addressees
NVS	notional value swaps (if data name ends with "NVS")
OTH	other
P3	past due 30 to 89 days and still accruing interest (if data name begins with "P3")
P9	past due 90 or more days and still accruing interest (if data name begins with "P9")
POC	purchase option contracts (if data name ends with "POC")
PUR	purchase
R	recourse (if data name ends with "R")
RE	real estate
REPO	securities purchased/sold under agreements to resell/repurchase
RES	reserve

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RES	residential
RS	restructured (if data name begins with "RS")
RT	interest rate (if data name begins with "RT")
SC	securities
T	taxable status (if data name has a "T" toward the end of a data name)
TR	trading accounts (if data name begins with "TR")
TRN	transaction account (if data name begins with "TRN")
TS	time and savings
UC	unused commitments (if data name begins with "UC")
UNINC	unearned income
UP	unposted (if data name begins with "UP")
US	U.S. addressees
WOC	written option contracts (if data name ends with "WOC")
X	tax-exempt status (if data name has a "X" toward the end of a data name)
Z	derived summation (if data name has a "Z" at the end of the data name)

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- ◆ CDI & RAT - Create a data name (maximum of eight characters) to identify the variable.
 - A annualized figures (if data name ends with "A")
 - J adjusted figures (if data name has a "J" toward the end of a data name)
 - PCA prompt corrective action
 - Q quarterly (90 days) income/expense figures (if data name has a "Q" toward the end of a data name)
 - R ratio calculation (if data name ends with "R")
 - RBC risk-based capital (if data name begins with "RBC")
 - RBP risk-based premium
 - RWA risk-weighted assets (if data name begins with "RWA")
 - V divided by assets (if data name ends with "V")
 - W force a 0 when data does not exist (if data name has a "W" at the end of the data name)
 - Y yield calculation (if data name ends with "Y")
 - Y1 one-year growth rate (if data name ends with "Y1")
 - 2 two-period average (if data name ends with "2")
 - 4 four-period average (if data name ends with "4")
 - 5 five-period average (if data name ends with "5")

WHARTON'S FDIC RESEARCH DATABASE

APPENDIX A

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APPENDIX A

Outline of Available Variables on FDIC

FDIC STRUCTURE (STRU) DATA

◆ Structure Fields

- *Address*
- *Direct Bank Holding Company*
- *Top Bank Holding Company*
- *Institution Class*
- *Branching*
- *Report Date*
- *Certification Number*
- *Charter Agent*
- *City*
- *Class Code*
- *Closed Institution Flag*
- *FIPS CMSA Code*
- *FIPS Country Code*
- *FIPS County Code*
- *RTC Conservatorship Flag*
- *New Brick and Mortar Flag*
- *Docket Number*
- *International Activity Flag*
- *Entity Type*
- *Established Date*
- *Failed Institution Flag*
- *FDIC Region*
- *FED District*
- *Federal Charter Flag*
- *Federal Reserve ID Number*
- *Foreign Charter Flag*
- *Commercial Financial Report Flag*
- *Thrift Financial Report Flag*
- *Federal Reserve System Member Flag*
- *International Banking Act Entity Flag*
- *Primary Insurer*
- *Secondary Insurer*
- *Insured Institution Flag*
- *Not Federally Insured Flag*
- *Savings Insurance Fund Flag*
- *Total Number of Mergers*
- *Merger Code*
- *FIPS MSA Code*
- *Domestic Offices*
- *Foreign Offices*

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APPENDIX A

Outline of Available Variables on FDIC

- *OTS District*
- *Primary Regulating Agent*
- *Savings and Loan Flag*
- *State Member Flag*
- *State Charter Flag*
- *State Name*
- *State Number*
- *Zip Code*

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Outline of Available Variables on FDIC

FDIC-FINANCIAL TIME SERIES (FTS) DATA

REPORT OF INCOME

- ◆ Schedule RI-Income Statement
includes the following Call Report Schedules:
 - ◆ *Schedule RI-D - Income from International Operations*
 - ◆ *Schedule RI-E - All other noninterest income and expenses*

- *Interest Income*
- *Interest Expense*
- *Net Interest Income*
- *Provision for Losses*
- *Noninterest Income*
- *Securities Gains and Losses*
- *Noninterest Expense*
- *Net Noninterest Expense*
- *Net Income*

- ◆ Schedule RI-A - *Changes in Equity Capital*

- ◆ Schedule RI-B - *Charge-offs and Recoveries and Changes in Allowance for Loan and Lease Losses*
 - Charge-offs and Recoveries by Loan and Lease Type
 - ◆ *Charge-offs*
 - ◆ *Recoveries*
 - ◆ *Net Charge-offs*
 - Changes in Allowance for Loan and Lease Losses

- ◆ Schedule RI-C - *Applicable Income Taxes by Taxing Authority*

REPORT OF CONDITION

- ◆ Schedule RC - Balance Sheet
includes the following Call Report Schedules:
 - ◆ *Schedule RC-F - Other Assets*
 - ◆ *Schedule RC-G - Other Liabilities*
 - ◆ *Schedule RC-H - Selected Balance Sheet Items for Domestic Offices*
 - ◆ *Schedule RC-I - Selected Assets and Liabilities of IBF'S*
 - ◆ *Schedule RC-M - Memoranda Items*

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APPENDIX A

Outline of Available Variables on FDIC

- *Assets*
- *Liabilities*
- *Capital*

- ◆ *Schedule RC-A - Cash and Balances Due from Depository Institutions*

- ◆ *Schedule RC-B - Securities*
 - *U.S. Treasury & Agencies*
 - *Municipal*
 - *Other Domestic Debt*
 - *Foreign Debt*
 - *Equity*
 - *Totals*
 - *Memoranda*
 - *Repricing Opportunities*

- ◆ *Schedule RC-C - Loans and Lease Financing Receivables*
 - *Real Estate*
 - *Depository Institutions*
 - *Agricultural*
 - *Commercial and Industrial*
 - *Acceptances of Other Banks*
 - *Loans to Individuals*
 - *Foreign Loans*
 - *Municipal Loans*
 - *All Other Loans*
 - *Leases*
 - *Unearned Income*
 - *Totals*
 - *Memoranda..*
 - *Repricing Opportunities*

- ◆ *Schedule RC-D - Assets Held in Trading Accounts in Domestic Offices*

- ◆ *Schedule RC-E - Deposit Liabilities*
 - *Transaction Accounts*
 - *Demand Deposits included in Transaction Accounts*
 - *Nontransaction Accounts*
 - *Memoranda*
 - *Repricing Opportunities*
 - *Foreign Office*
 - *Totals*

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Outline of Available Variables on FDIC

- ◆ Schedule RC-K - *Quarterly Averages*
- ◆ Schedule RC-L - *Off-Balance Sheet Items*
- ◆ Schedule RC-N - *Past Due and Nonaccrual Loans, Leases, and Other Assets*
 - *Past due 30-89 days*
 - *Past due 90 or more days*
 - *Noncurrent - Past due 90 more days plus nonaccrual*
 - *Nonaccrual*
- ◆ Schedule RC-O - *Other Data for Deposit Insurance Assessments*
- ◆ Schedule RC-R - *Risk-Based Capital*
- ◆ Schedule RC-T - *Highly-Leveraged Transactions*

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APPENDIX A

Outline of Available Variables on FDIC

FDIC-COMPLEX DERIVED INTEGER (CDI) & RATIO (RAT) DATA

REPORT OF INCOME

- ◆ Schedule RI-Income Statement
 - *Interest Income annualized*
 - *Interest Expense annualized*
 - *Noninterest income and expense items annualized*
 - *Quarterly Income and Expense (90 day)*
 - *Quarterly Income and Expense (90 day) annualized*
 - *Growth Rates*
- ◆ Schedule RI-A - *Changes in Equity Capital*
- ◆ Schedule RI-B - *Charge-offs and Recoveries and Changes in Allowance for Loan and Lease Losses*
 - *Quarterly Charge-offs and Recoveries*
 - *Growth Rates*

REPORT OF CONDITION

- ◆ Schedule RC - Balance Sheet
 - *Assets*
 - *Liabilities*
 - *Equity*
 - *Ratios*
 - *Growth Rates*
- ◆ Schedule RC-B - *Securities*
- ◆ Schedule RC-C - *Loans and Lease Financing Receivables*
 - *Averages*
 - *Growth Rates*
 - *Size & Dollar Amounts*
- ◆ Schedule RC-E - *Deposit Liabilities Averages*
- ◆ Schedule RC-L - *Off Balance Sheet Items*
- ◆ Schedule RC-N - *Past Due and Nonaccrual Loans, Leases, and Other Assets*
 - *Ratios*

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Outline of Available Variables on FDIC

- *Growth Rates*

- ◆ Schedule RC-O - *Other Data for Deposit Insurance Assessments*
 - *Certified Statement Information*
 - *Growth Rates*

- ◆ Schedule RC-R - *Risk-Based Capital*
 - *Risk-Based Capital*
 - *Ratios*

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APPENDIX A

Outline of Available Variables on FDIC

FDIC MERGER HISTORY (MERG) DATA

- ◆ Merger History Fields
 - *Assisted By Flag*
 - *Closed Institution Flag*
 - *Closed Institution Class*
 - *Closed Institution*
 - *Closed Charter Agent*
 - *Closed Entity Type*
 - *Closed Bank Insurance Fund Flag*
 - *Closed Saving Insurance Fund Flag*
 - *Closed Institution Name*
 - *Closed Regulating Agency*
 - *Certificate Number*
 - *Merging Transaction Code*
 - *Effective Date*
 - *Failed Institution Flag*
 - *Merger Method Flag*
 - *Acquiring Institution Flag*
 - *Acquiring Institution Class*
 - *Acquiring Institution*
 - *Acquiring Charter Agent*
 - *Acquiring Entity Type*
 - *Acquiring Bank Insurance Fund Flag*
 - *Acquiring Saving Insurance Fund Flag*
 - *Acquiring Institution Name*
 - *Acquiring Regulating Agency*
 - *New Certificate Number*
 - *Year*

WHARTON'S FDIC RESEARCH DATABASE

APPENDIX B

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Wharton Computing and Information Technology (WCIT)

- ◆ WCIT provides technical assistance and documentation for all computing service at The Wharton School of the University of Pennsylvania.

WCIT
The Wharton School
400 Steinberg Hall- Dietrich Hall
Philadelphia, PA 19104

(215) 898-8600

- ◆ WCIT can also be accessed through The Wharton home page on the world wide web. All documentation can also be downloaded through this site. The address is the following:

<http://www.wharton.upenn.edu/>

Once at the home page, the information can be found by moving to *Computing Information*, and then to *Wharton's Research Data System*.

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APPENDIX C

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APPENDIX C**

The FDIC's Internet addresses are:

ftp -- ftp.sura.net, login as anonymous, then cd/pub/fdic
Don't forget to type bin if you are getting binary files
such as spreadsheets.

gopher - fdic.sura.net 71

WWW -- www.fdic.gov