

Corporate Loans: Challenges in modeling heterogeneity

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Stress Testing Modeling Symposium

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What are corporate loans?

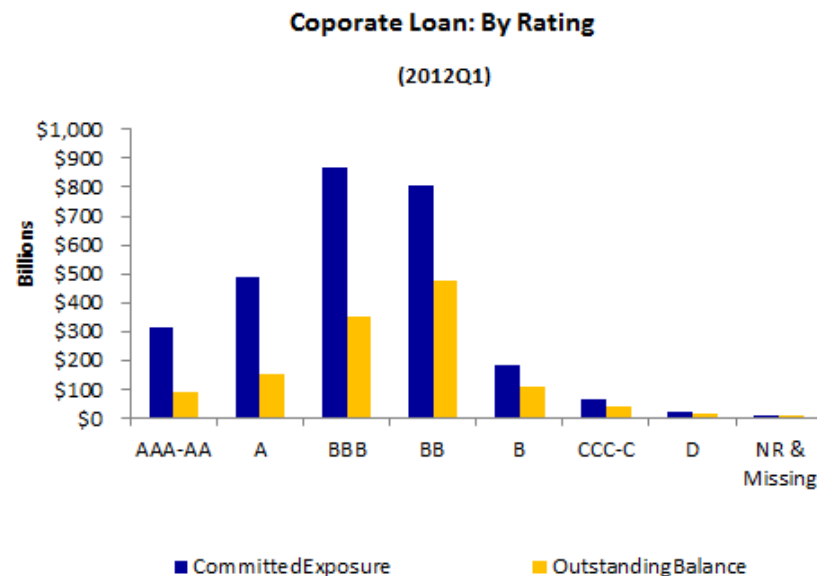
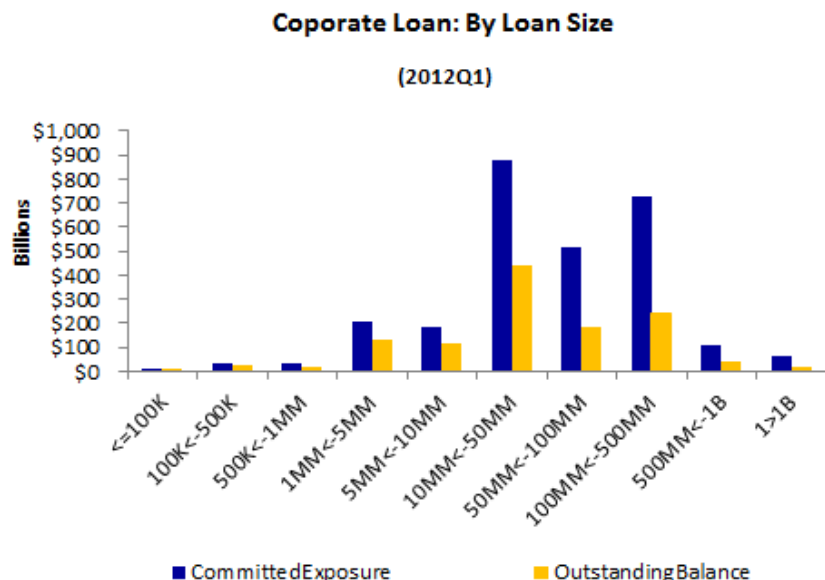
- Commercial and Industrial Loans
 - Only loans over \$1 million are reported on the Y-14Q
 - Graded, using the bank's commercial rating system in its normal BAU
 - Excludes securities held for investment and trading assets
 - Excludes small business loans and some corporate cards
- Other Commercial Loans
 - Loans to US and foreign banks
 - Loans to finance agriculture and farmland
 - Commercial capital leases, but not operating leases
 - Loans to purchase securities that are not in the trading book
 - Loans to governments and official institutions
 - All Other Commercial Loans

What are C&I loans?

- Large Corporate Loans
 - Includes syndicated credits, bought and sold
 - Includes loans valued using the Fair Value Option
 - Includes some investment banking / capital markets activities
- Middle Market Loans
 - The “meat and potatoes” of large bank C&I portfolios
 - Includes a wide range of lines of business
- International Loans
 - Large global customers
 - Trade finance
 - Foreign banks

Commercial & Industrial Loans			68%
	Large Corporate Loans	Domestic	45%
	Large Corporate Loans	International	16%
	Corporate Cards	Domestic	4%
	Corporate Cards	International	0%
	Small Business Loans	Domestic	3%
	Small Business Loans	International	1%
Other Loans			32%

Corporate Loan Facts



Note that the ratings groupings above do not represent actual ratings from any ratings agency and instead are groupings of loans by similar characteristics labeled using a commonly employed nomenclature.

- 44% are secured
- 75% have floating interest rates
- 2.92% average coupon as of 3/31/12
- Average utilization of domestic loans = 37%, international = 51%

What are Middle Market loans?

- The Fed has no standard definition of middle market loans. We use whatever the bank's BAU definition is.
- Includes: term loans, revolving loans, standby letters of credit, trade LCs, equipment leases, asset based loans, etc.
- Common lines of business include:
 - Asset based loans and cash flow based loans
 - Floorplan / dealer finance
 - Private wealth management
 - Owner occupied CRE
 - Regionally based lending
 - Treasury services / asset management
 - Other specialized “niche” lines of business

Regional Business Banking	24%
Asset Based Lending	5%
Equipment Leasing	2%
Floorplan lending	4%
Other Specialty Businesses	10%

Some Other loans look like C&I loans

- Most banks manage their customers by line of business and not by Y-9C category. Most bankers have only a vague notion of what Y-9C category a loan is in.
 - Since banks use LOBs for categorization, so do we from a risk perspective.
 - But we use Y-9C categories for balancing.
- Other loans that look like C&I loans
 - Loans to banks (US and foreign)
 - Equipment leases
 - Municipal loans
- Other loan categories that do not look like C&I loans
 - Loans to purchase securities
 - Farmland and agriculture
 - Unplanned overdrafts

International Loans

- Largest exposures concentrated in a relatively small number of banks.
 - A representative sample of large regional banks shows that international loans are only about 3.5% of their portfolio.
- Mostly global Fortune 1000-type companies
 - Major banks follow their relationships around the world.
- Lots of term exposures to foreign banks
- Lots of trade finance
- All other factors held equal, these loans have an additional element of risk because of currency issues and workout processes subject to foreign jurisdictions.

Loans to Financial Institutions

- Includes US and foreign banks and non-bank finance companies
- Many of these facilities are short term (i.e. 90 days), secured and fairly highly rated.
- Most banks, in their CCAR submissions treat these loans as a very low loss category.
 - Even after controlling for rating and security.
 - But few have a separate estimation methodology.
- Historically, these loss rates have been quite volatile, raising the question of whether they are capturing a downturn in their estimated losses.

What's in the “all other” category?

- A grab bag of stuff that does not fit anywhere else.
 - Loans to special purposes entities
 - Warehouse lines
 - Liquidity facilities
 - ABCP seller specific financing vehicles
 - Some loans to municipalities
 - Includes credit enhancements for municipal issuers
 - Some of these loans look like they might meet the definition of another loan classification. Banks should check to see if these are being accurately categorized.