

# DEFAULT RATE REPORT

AS OF  
DECEMBER 2014



FISCAL YEAR 2014 DEFAULT EXPERIENCE  
EXPORT-IMPORT BANK OF THE UNITED STATES

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# Executive Summary

## MISSION

The mission of the Export-Import Bank (“Ex-Im Bank” or “Bank”) is to enable U.S. companies – large and small – to turn export opportunities into sales that maintain and create U.S. jobs and contribute to a stronger national economy. The Bank achieves this mission by providing export financing through its loan, guarantee, and insurance programs in cases where the private sector is unable or unwilling to provide financing. Ex-Im Bank also steps in when financing support is necessary to level the playing field for U.S. exporters that are in competition with foreign companies supported by financing from their official foreign export credit agencies (ECA).

## REAUTHORIZATION

On May 30, 2012, the President signed Public Law 122-122, an Act to Reauthorize the Export-Import Bank of the United States. Section 6 of the Reauthorization Act requires:

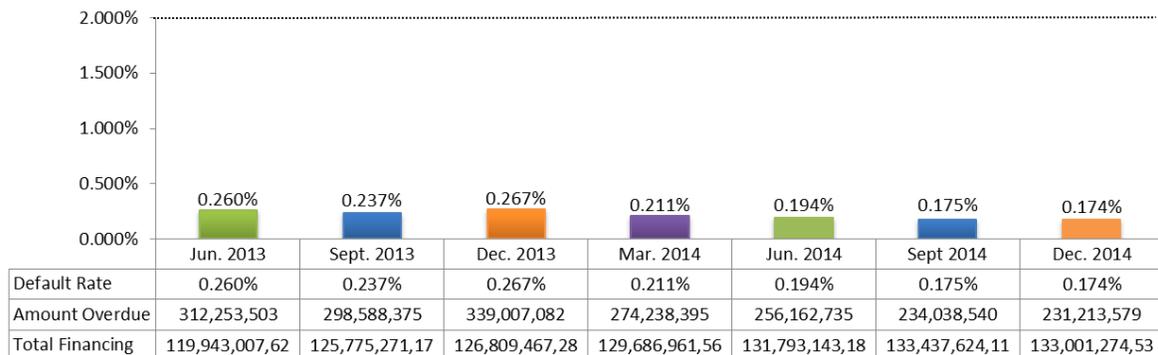
*“(1) MONITORING OF DEFAULT RATES.—Not less frequently than quarterly, the Bank shall calculate the rate at which the entities to which the Bank has provided short-, medium-, or long-term financing are in default on a payment obligation under the financing, by dividing the total amount of the required payments that are overdue by the total amount of the financing involved.”*

As mandated, Ex-Im Bank will report on its default rate, as defined in the section above, on a quarterly basis corresponding to the quarters of the fiscal year. This report is as of December 2014 and is based on annually audited financial data.<sup>1</sup>

## DEFAULT RATE

The default rate<sup>2</sup> of the Export-Import Bank through December 31, 2014 is 0.174 percent as shown in Exhibit 1. This rate reflects a “total amount of required payments that are overdue” (claims paid on guarantees and insurance transactions plus loans past due) equal to \$231.2 million divided by a “total amount of financing involved” (disbursements)<sup>3</sup> equal to \$133.0 billion. This financing amount is different from Ex-Im Bank’s current exposure because it includes repayments and excludes authorized amounts that have yet to disburse.

**Exhibit 1: Default Rate**



<sup>1</sup> The data used to produce this report is generated from a new financial management system and from the same source accounting systems that produced the Bank’s previous annual audited financial statements. Although the auditors do not express an opinion on the effectiveness of the Bank’s systems, the data used to support the financial statements is tested for accuracy on a sample basis. The Bank has received an unqualified opinion since 1989 regarding the presentation of the Bank’s financial statements.

<sup>2</sup> This default rate is different than the default rates published in the annual Budget Appendix due to differing definitions. The reported rate in the Budget Appendix reflects projected defaults over the life of the loan while the default rate in this report reflects actual defaults at a particular point in time.

<sup>3</sup> The default rate is based on disbursements (not authorized amounts) as a default cannot occur on a transaction that has been authorized but not yet disbursed.

# Default Rate

## CONGRESSIONAL INTENT

In discussions with the House Financial Service Committee (HFSC) related to the reauthorization requirement on the monitoring of the default rate, the committee members cited Chairman Hochberg's testimony as the type of information required by this authorization language. In his testimony on May 24, 2011 before the HFSC, the Chairman stated "as a result of our diligent review and management of credit, the Bank has a loan loss rate<sup>4</sup> [default rate] of roughly 1.5 percent – well below most commercial banks." That testimony is based on the Bank's historical experience on overall financed disbursements compared to net claims which included both recoveries as well as expenses. This report is consistent with the Chairman's testimony as it related to the default rate.

## DEFINED

Section 6 of the Reauthorization Act mandates Ex-Im Bank to calculate the "default on a payment obligation... by dividing the total amount of the required payments that are overdue by the total amount of the financing involved." The "total amount of required payments that are overdue",

$$\text{Overdue Payments} = \text{Defaults Paid} + \text{Expenses} - \text{Recoveries}$$

$$\text{Total Financing} = \text{Disbursements (Active)}$$

representing the numerator, is defined as claims paid on guarantees and insurance transactions as well as unpaid past due installments on loans in the Bank's active portfolio. For guarantees and insurance transactions, upon default of a payment obligation<sup>5</sup>, Ex-Im Bank pays a claim to the guarantors or the insured parties. As this report is based on the Bank's portfolio through December 2014, all expenses incurred related to the Bank's recovery efforts are added to the amount overdue. Recoveries to that point reduce the amount overdue in connection to the specific claim paid or the loan in arrears. All recovered amounts are discounted to the time of claim payment or when the direct loan went into arrears. The "total amount of financing involved," the denominator, is defined as the disbursed<sup>6</sup> financing under the Bank's programs to support U.S. exports. Ex-Im Bank provides financing to foreign buyers of U.S. goods and services. After a credit is approved, the value of the goods and services financed by Ex-Im Bank is recorded once they are delivered (or disbursed) to the buyer. Depending on the type of goods and services financed, the delivery (or disbursement) can occur over a period of years.

## ACTIVE PORTFOLIO

Ex-Im Bank's credits have a defined repayment schedule that generally ranges from one year to fifteen years or more. Most credits have quarterly or semi-annual repayment terms; however, repayment terms can vary among Ex-Im Bank's programs and products. A disbursed loan, guarantee or insurance policy that has a repayment schedule where the date of this report is before the final repayment date of the schedule is part of the active portfolio. Any installment due

**Active Credit Example:** A long term guarantee authorized in FY 2007 with a 10 year repayment term (the deal matures in FY 2017)

**Inactive Credit Example:** A long term guarantee in FY 1994 with a 10 year repayment term (the deal matured in FY 2004).

<sup>4</sup> The loan loss rate does not include the fees that the Bank charges for the transaction that it finances.

<sup>5</sup> Upon receipt of request for a claim payment by the lending institution, Ex-Im Bank performs claim procession functions.

<sup>6</sup> Disbursements include loans, guarantees and insurance.

within that repayment schedule up to the date of this report that has not been paid is considered to be in default.

On the Bank's active portfolio, a total of \$133.0 billion of goods and services<sup>7</sup> have been delivered to foreign buyers of American made products. These products are supported by Ex-Im Bank's loan, guarantees and insurance programs. Of this amount, the Bank has gross defaults of \$251.9 million, incurred expenses related to those payments of \$2.5 million, and recovered \$23.1 million for net defaults of \$231.2 million. This results in a default rate through the time period ending December 2014 equal to 0.174 percent.

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<sup>7</sup> This includes local costs, capitalized interest during construction, and foreign content derived from co-financing and short-term commitments.



# Default Rate

## DEFAULT RATE: BY SUB CATEGORY

Section 6 of the Reauthorization Act requires:

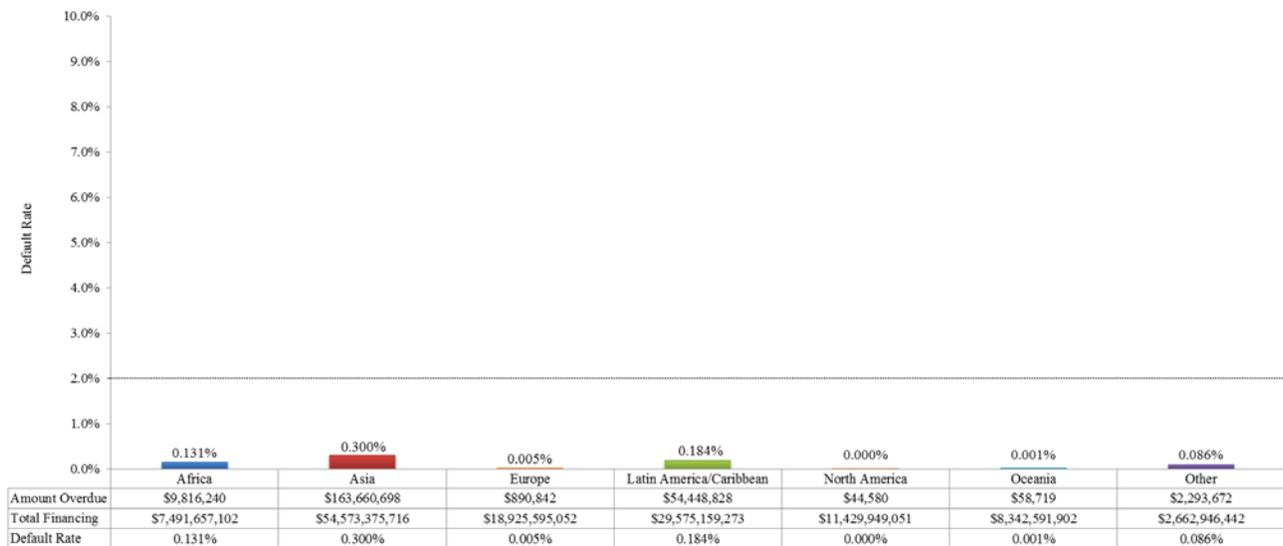
“(2) ADDITIONAL CALCULATION BY TYPE OF PRODUCT, BY KEY MARKET, AND BY INDUSTRY SECTOR; REPORT TO CONGRESS.—“

As mandated by the Reauthorization Act and defined above, Ex-Im Bank has calculated default rates based on each sub category as of December 31, 2014.

### BY REGION

Ex-Im Bank breaks out its transactions into six regions: Africa, Asia, Europe, Latin America/Caribbean, North America, Oceania, and other. As shown in Exhibit 2, Ex-Im Bank’s default rate is well below 2 percent within each of these regions.

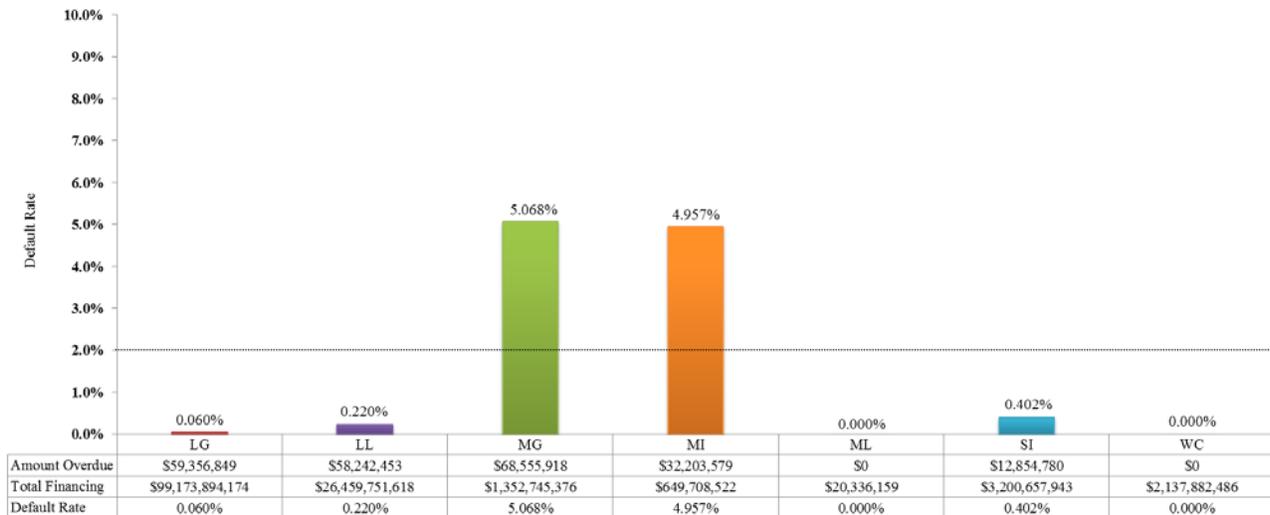
Exhibit 2: By Region



### BY PRODUCT LINE

Ex-Im Bank’s loans, guarantees and insurance, are broken out by separate products: Long Term Guarantees (LG), Long Term Loans (LL), Medium Term Guarantees (MG), Medium Term Insurance (MI), Medium Term Loans (ML), Short Term Insurance (SI) and Working Capital Guarantees (WC). In general, Short Term Insurance and Working Capital Guarantees transactions are less than 1 year, Medium Term Loan and Guarantee transactions are between 1 and 7 years and under \$10 million and finally, Long Term Loan and Guarantee transactions are over 7 years or over \$10 million.

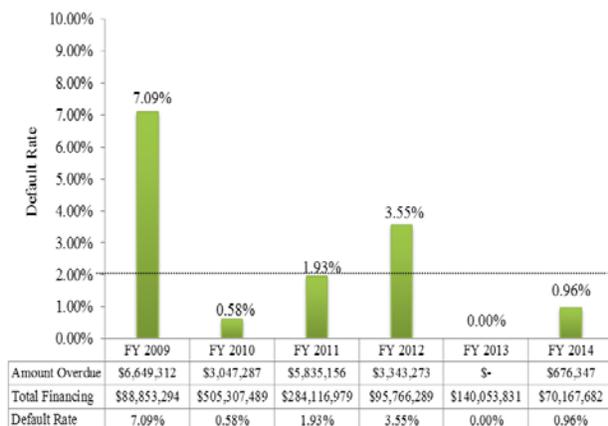
Exhibit 3: By Product Line



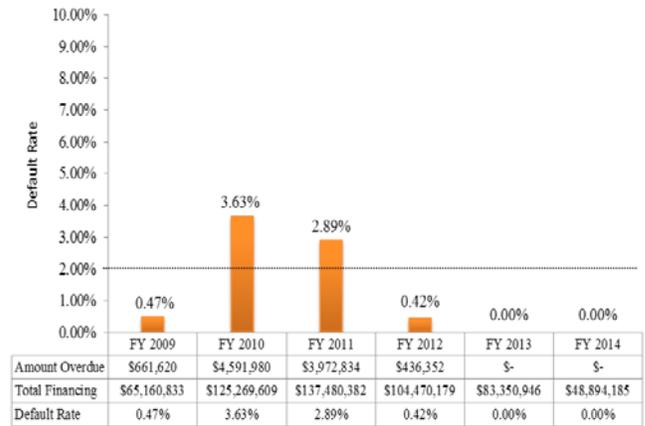
As shown in Exhibit 3, all products except the Medium Term Guarantee and Medium Term Insurance have a default rate below 2 percent. As a result, the Bank has taken steps to improve the medium term portfolio. First, the Bank has moved to using underwriting standards similar to those of the long term portfolio, which includes but is not limited to requiring collateral. The Bank has also established a monitoring group for this portfolio to proactively restructure distressed deals and prevent defaults or enhance recoveries. Finally, the Inspector General has significantly increased actions against fraudulent cases. As a result of the Bank's actions, the default rates for both Medium Term Guarantee and Medium Term Insurance products have declined from 7.13 percent and 9.40 percent, respectively, in June 2012, to 5.07 percent and 4.96 percent, respectively, as of December 31, 2014. It should also be noted that Medium Term Guarantees and Insurance represent 1.51 percent of the total amount of Ex-Im Bank financing.

The performance of the medium term products can be attributed to high defaults three to seven years ago. After implementing the above-referenced changes in underwriting and monitoring practices, Ex-Im Bank has begun to see its medium term portfolio's default rate improve dramatically. For medium term products, defaults normally occur by the third year. This means FY 2011 authorizations act as a good proxy for future trends in the medium term products. As shown in Exhibit 4, for all transactions approved since FY 2011, the medium term portfolio, including both active and matured transactions, default rates have, on average, dropped below 2 percent except for a few cohorts slightly above the threshold.

Exhibit 4: Medium Term Guarantees (Recent Cohorts)



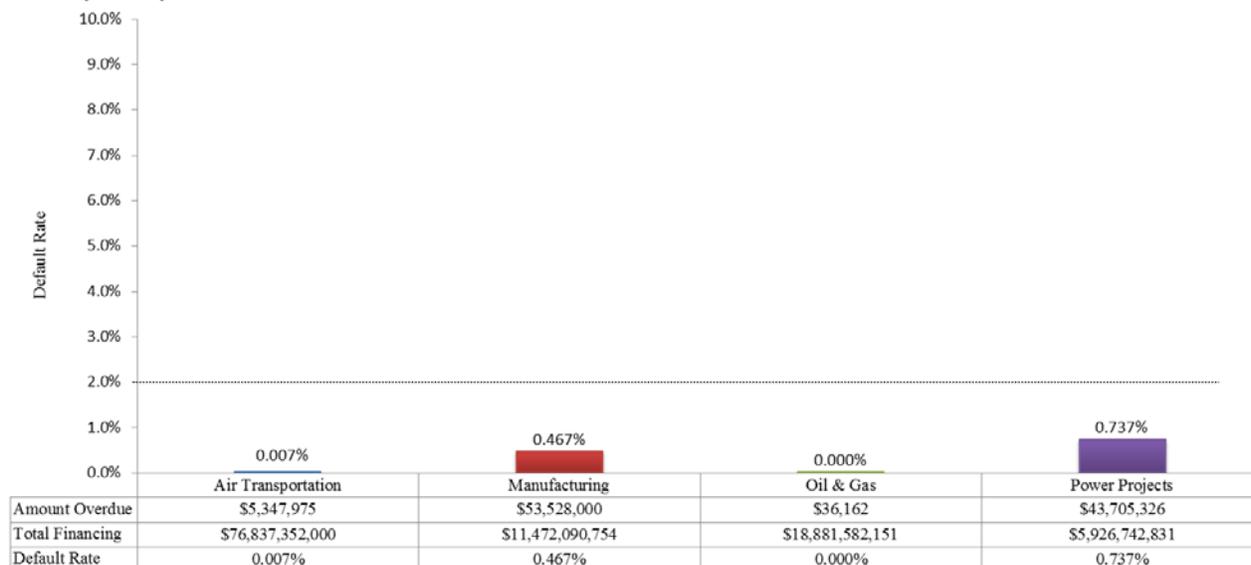
Medium Term Insurance (Recent Cohorts)



## BY INDUSTRY

Ex-Im Bank's four largest industries are: Air Transportation, Manufacturing, Oil & Gas, and Power Projects<sup>8</sup>. Although these sectors account for 85.1 percent of the total amount of Ex-Im Bank financing, they have experienced a default rate well below 2 percent as shown in Exhibit 5.

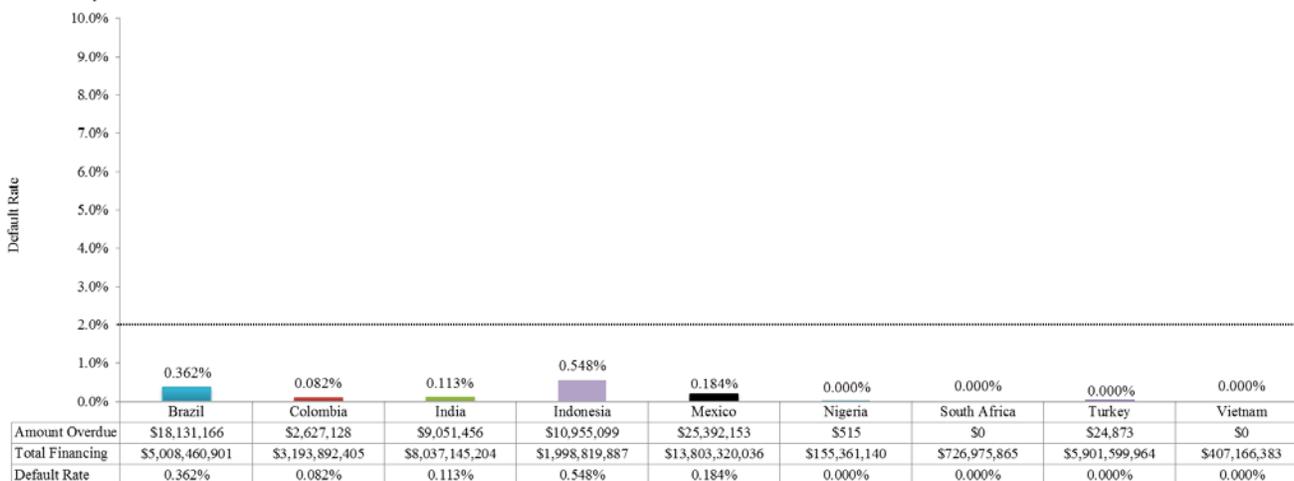
Exhibit 5: By Industry



## BY KEY MARKETS

Ex-Im Bank has exposure in more than 175 countries as of December 31, 2014. In FY 2010, Ex-Im Bank launched a strategic review to determine the countries where Ex-Im Bank financing could be particularly effective for American companies. Given limited business development resources, the Bank focused outreach efforts to parts of the world with the greatest potential to support U.S. exports. The Bank identified nine high potential countries: Mexico, Brazil, Colombia, Turkey, India, Indonesia, Vietnam, Nigeria and South Africa.<sup>9</sup> As shown in Exhibit 6, all nine key markets have experienced a default rate well below 2 percent.

Exhibit 6: Key Markets

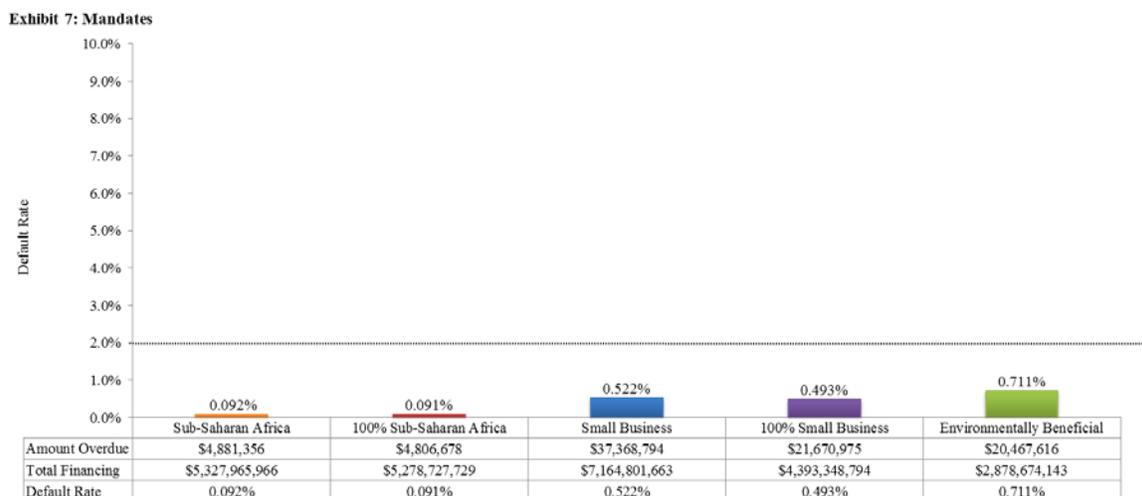


<sup>8</sup> Formally named "Aircraft", "Mining – Oil & Gas" and "Utilities – Power Projects" respectively.

<sup>9</sup> In FY 2014, Ex-Im Bank revised outreach efforts to focus on key sectors.

## DEFAULT RATE: BY MANDATE

Ex-Im Bank has congressional mandates to support Small Business, Environmentally Beneficial, and Sub-Saharan Africa transactions. These mandates account for 11.56 percent of the total amount of Ex-Im Bank financing and have experienced a default rate well below 2 percent as shown in Exhibit 7.



Note: "Sub-Saharan Africa" and "Small Business" categories includes all transactions up to and including 100 percent while the "100% Sub-Saharan Africa" and "100% Small Business" categories only include transactions that are 100 percent.

## RISK RATING: BY MANDATE

Ex-Im Bank risk rates its portfolio using a 1 – 11 budget cost level (BCL) scale. The ratings are based, in general, on a borrower's (1) ability to make payments, as indicated by relevant economic factors and (2) willingness to pay, as indicated by payment record and political and social factors. Four categories, ratings 1 through 4, are roughly equivalent to "creditworthy" or "investment grade" private bond ratings. Three categories, ratings 9 to 11, are for countries either unable to pay fully, even with extended repayment periods, or currently unwilling to make a good faith effort. Ex-Im Bank does not use the BCL scale for the working capital and multi-buyer products as the Bank uses a portfolio analysis approach to evaluate these programs.

Using the BCL at time of authorization and the authorized amount, Ex-Im Bank's active portfolio's weighted average risk rating is 3.52, corresponding to an investment grade portfolio. In the chart below are the weighted average BCL for the various Bank mandates.

| Category                   | Budget Cost Level |
|----------------------------|-------------------|
| Sub-Saharan Africa         | 5.57              |
| 100% Sub-Saharan Africa    | 5.57              |
| Small Business             | 3.84              |
| 100% Small Business        | 3.75              |
| Environmentally Beneficial | 5.23              |
| <b>Active Portfolio</b>    | <b>3.52</b>       |

# Aging Report

## AGING REPORT: SUMMARY

The Aging Report covers medium- and long-term credits that have principal payments in arrears that are not otherwise covered in the default rate. For insurance and guarantees, the aging report captures overdue principal payments for which the Bank has not paid a claim. Loan arrears account for principal payments that have been in arrears for less than 30 days. Principal payments that have been in arrears for more than 30 days are captured in the default rate. As of December 31, 2014, a total of approximately \$2.8 million in principal payments for medium- and long-term credits are in arrears. Of that total, \$65,024 of loan principal payments have been in arrears for less than 30 days.

**74% of Insurance &  
Guarantee Arrears  
are Cured**

Historically, a large majority of principal arrears are eventually cured (i.e. payment is received.) For each of the two previous fiscal years, approximately 74 percent of insurance and guarantee arrears have been cured.

## CREDITS IN ARREARS

| <b>Insurance &amp; Guarantees in Arrears</b> |                       | <b>Loans in Arrears</b> |                       |
|--|-----------------------|-------------------------|-----------------------|
| <b>Days Overdue</b>                          | <b>Amount Overdue</b> | <b>Days Overdue</b>     | <b>Amount Overdue</b> |
| Less Than 30 Days                            | 675,914               | Less Than 30 Days       | 65,024                |
| 30 to 60 Days                                | 788,687               | 30 to 60 Days           | N/A                   |
| 60 to 90 Days                                | 215,532               | 60 to 90 Days           | N/A                   |
| 90 to 150 Days                               | 1,082,684             | 90 Days or More         | N/A                   |
| <b>Total</b>                                 | <b>2,762,817</b>      | <b>Total</b>            | <b>65,024</b>         |

## INSURANCE & GUARANTEES

As of December 31, 2014, \$2.8 million in principal payments for medium- and long-term insurance and guarantees are in arrears, and \$675,914 worth of principal payments (or 24.5 percent of total arrears) is less than 30 days overdue.

## DIRECT LOANS

As of December 31, 2014, approximately \$65,024 in principal in principal installments for active direct loans were in arrears for less than 30 days.

# Historical Default Rates

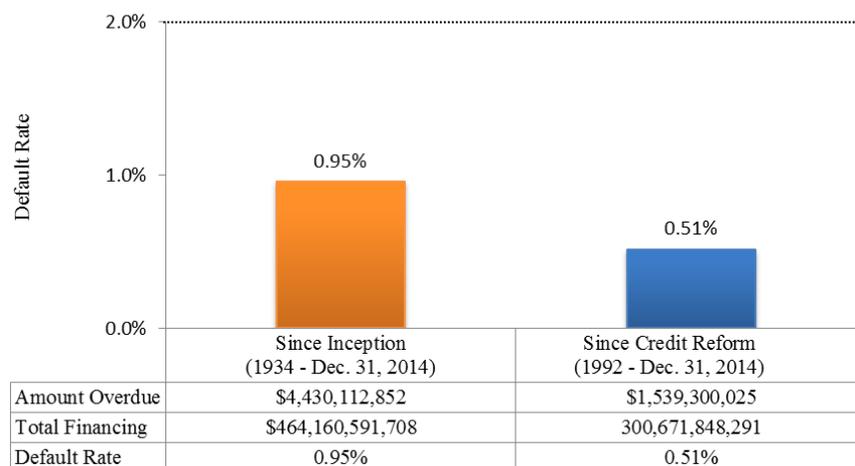
## HISTORICAL DEFAULT RATE

Ex-Im Bank was established in 1934. Since then, the Bank has disbursed \$464.2 billion in guarantees, insurance and direct loans. On all of Ex-Im Bank's disbursements, the Bank has defaults<sup>10</sup> of \$12.7 billion and recoveries of \$8.3 billion, resulting in a historical default rate of 0.95 percent.

Looking at more recent experience, on credits authorized since 1992, the start of Federal Credit Reform Act

(FCRA), the Bank has defaults of \$5.8 billion and recoveries of \$4.3 billion, resulting in a default rate of 0.51 percent. The Bank has historically collected more than 50 cents on the dollar for claims paid. Ex-Im Bank's historical default rates since 1934 and since 1992 are highlighted in Exhibit 8.

**Exhibit 8: Historical Default Rate**



## COMPONENTS OF HISTORICAL DEFAULT RATE: CALCULATION

|   | Since Inception<br>(1934 - Dec. 31, 2014) | Since Credit Reform<br>(1992 - Dec. 31, 2014) |
|---|---|---|
| <b>Total amount of required payments that are overdue</b> | <b>\$4,430,112,852</b>                    | <b>\$1,539,300,025</b>                        |
| Defaults  | 12,716,650,398                            | 5,814,177,727                                 |
| Less Recoveries   | 8,286,537,546                             | 4,274,877,702                                 |
| <b>Total amount of financing involved</b>                 | <b>\$464,160,591,708</b>                  | <b>\$300,671,848,291</b>                      |
| Disbursements   | 464,160,591,708                           | 300,671,848,291                               |
| <b>Default Rate</b>                                       | <b>0.95%</b>                              | <b>0.51%</b>                                  |

<sup>10</sup> This includes claims paid on guarantees and insurance transactions as well as direct loans in arrears and write-offs. It also includes non-discounted recovery amounts but does not include any recovery expenses as that data was not available for this time frame.

# Stress Tests

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In addition to measuring the current default rate, Ex-Im Bank also examined the current portfolio to measure the future default rate under stressed scenarios. Ex-Im Bank performs regular stress testing of its portfolio to identify how the current portfolio may perform in the future under stressed scenarios. As the Basel Committee on Banking Supervision states, “Stress testing is an important risk management tool that is used by banks as part of their internal risk management.” The following section describes what stress testing is, why it is important, how to do stress testing, Ex-Im Bank stress test protocol, and recent results from Ex-Im Bank’s stress tests.

## WHAT IS STRESS TESTING?

A simple definition of stress testing comes from the Federal Deposit Insurance Corporation in a Supervisory Insights article, where they say, “Stress testing is a forward-looking quantitative evaluation of stress scenarios that could impact a banking institution’s financial condition and capital adequacy.” The Federal Reserve has a similar definition where they state in their Guidance on Stress Testing for Banking Organizations with Total Consolidated Assets of More Than \$10 Billion, “For purposes of this guidance, stress testing refers to exercises used to conduct a forward-looking assessment of the potential impact of various adverse events and circumstances on a banking organization.” There are two main points from these definitions. First is that stress testing is forward-looking and second is that there are multiple stressed scenarios that could impact the current portfolio and current default rates.

## WHY IS STRESS TESTING IMPORTANT?

Ex-Im Bank follows a formalized stress testing protocol. Consistent with Federal Reserve guidance, the Bank’s stress testing builds capacity to understand the Bank’s risks and the potential impact of stressful events and circumstances on the Bank’s financial condition. Stress testing is an important tool for portfolio management and risk mitigation. Furthermore, the International Monetary Fund in a paper about stress testing European banks, “Stress testing has become an essential and very prominent tool in the analysis of financial sector stability and development of financial sector policy.” The World Bank concurs with these other organizations when it states in a paper entitled Macroprudential Stress Testing of Credit Risk, “Regular stress testing of the financial system is the main tool of macroprudential monitoring.” Finally, Ex-Im Bank’s Inspector General has opined on this subject and recommended that “Ex-Im Bank should develop a systematic approach to stress testing and should conduct stress testing at least annually as part of its re-estimate process.” Based on industry best practices and Ex-Im’s commitment to a comprehensive risk management framework the Bank has implemented a stress testing protocol.

## HOW DOES STRESS TESTING WORK?

In a report by the International Association of Credit Portfolio Managers entitled, “Sound Practices in Credit Portfolio Management” there were two overarching recommendations for portfolio stress testing. The first was:

The institution should have a “top down” stress-testing process in place to analyze the impact of extreme economic events on the credit risk of the overall credit portfolio.

The second recommendation was:



The institution should supplement the “top down” approach with a “bottom up” stress-testing process to measure the impact of adverse events on obligors, or sets of obligors, with significant exposures in the credit portfolio.

This paper was also cited in Ex-Im Bank Inspector General’s report on the Bank’s portfolio risk as a model to follow.

## EX-IM BANK STRESS TESTING PROTOCOL

Ex-Im Bank looked at different ways to perform both a top down analysis on the entire portfolio as well as a bottom up approach on certain sets of obligors. For the top down stress test the Bank decided to use a monte-carlo simulation approach, consistent with best practice. This approach allows the Bank to look at numerous scenarios. The Society of Actuaries in a report entitled Effective Stress Testing in Enterprise Risk Management cited that “the Monte Carlo simulation is one of the most widely used methods of stress testing.” This allows the Bank to use a forward looking approach that looks at numerous scenarios. The simulation takes every transaction in the Bank’s exposure and simulates whether it defaulted or not during the remainder of its term, based on the Bank’s most current loss rate model. In the default simulation, the total default amount less recoveries is calculated. This loss rate model has been recently reviewed by the Government Accountability Office and the Office of Management and Budget, as well as audited by Deloitte & Touche and KPMG. Each portfolio simulation takes every transaction and sums their respective default amounts. The total is the Bank’s loss for that simulation. The Bank then runs this same simulation 20,000 times to create a distribution of possible losses. There are a variety of outcomes and by creating a distribution it allows the Bank to look at the extreme tails of the distribution to see how the portfolio performs at its worst. This basically means that the Bank looked at 20,000 different lives of the portfolio. In some lives perhaps many more defaults occur than expected, others have fewer defaults than expected. By running so many different lives of the portfolio the Bank can isolate those times where many more defaults occur and look at the impact. The Bank is also able to put probabilities around the chance that these events could occur. Furthermore, the Bank looked at the results of these scenarios if NO recoveries occur. This is an extreme scenario as the Bank regularly collects more than 50 cents on the dollar for claims paid. Recoveries do take time and this scenario can show what the stressed default rate could reach with no recoveries, albeit temporarily.

Next, for the bottom-up approach, the Bank looked at some of its largest obligors and using applicable data from the Federal Reserve’s Comprehensive Capital Analysis and Review (CCAR) adverse and severely adverse scenarios. These scenarios were applied to the particular obligors and for the adverse scenario the average risk rating, which measure the risk of each obligor similar to a Moody’s or S&P credit rating but using a 1-8 scale. The Bank measured the impact on these obligors under the adverse and severely adverse scenario, resulting in a 1.2 notch and 2.5 notch downgrades, respectively. In effect, this would increase the riskiness for a typical transaction by 30 percent for adverse scenarios and 63 percent for severely adverse scenarios.

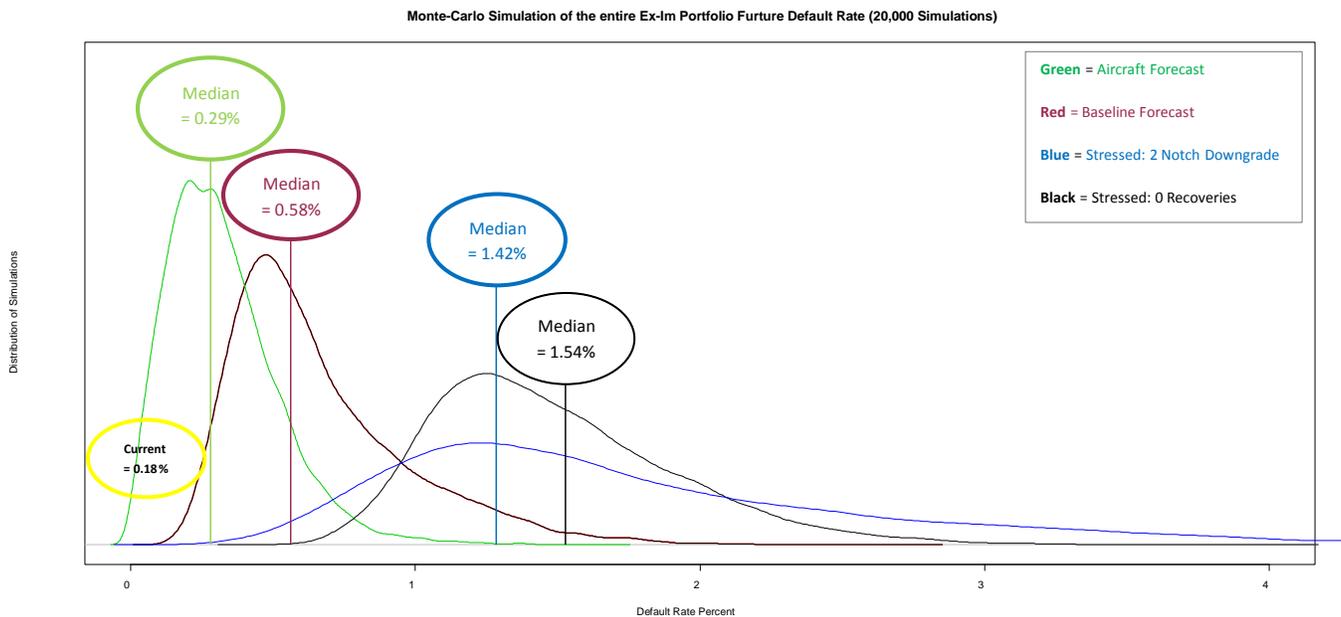
Next, the Bank ran another 20,000 trial simulations of the entire portfolio, but this time, based on the results of the obligor specific stress tests, each obligor was downgraded by two notches. This effectively moves an A1 rated credit to a Baa3 credit or a Baa3 to a Ba3 on the Moody’s scale. These various scenarios allow the Bank to look at its risk profile from a variety of perspectives and helps the Bank ascertain the current risk within the portfolio.



## EX-IM BANK STRESS TESTING RESULTS

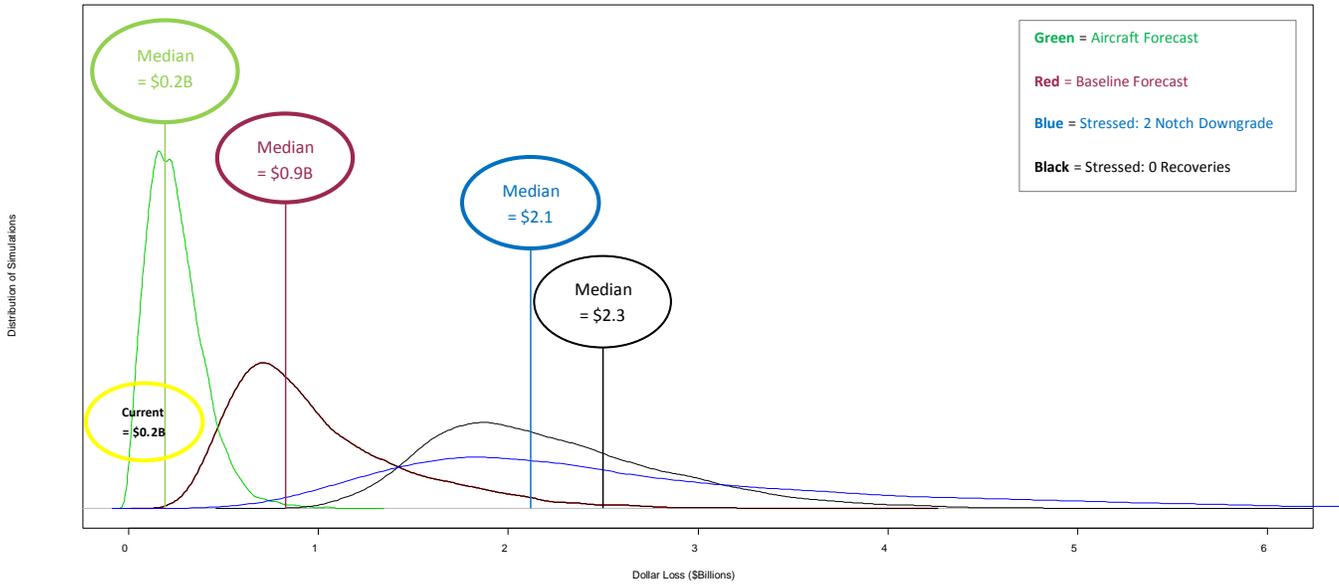
The results of the Bank's 20,000 trial monte-carlo simulation can be seen in the graph below. Under the baseline forecast the median default rate for the current portfolio is 0.58 percent with a 95 percent confidence level that it will be at 1.30 percent or lower. Under a stressed scenario where all of the ratings were downgraded by 2 notches, the median default rate would increase to 1.42 percent with a 95% confidence level that the default rate would be below 2.28 percent. Finally, under a stressed scenario where none of the defaults were ever recovered the median default rate would be 1.54 percent, with a 95 percent confidence level that it would be below 3.54 percent. The median values under each of the two stressed scenarios are still under 2 percent.

An addition to this year's stress test was the addition of stress testing the aircraft portfolio. The entire aircraft portfolio, which consists of commercial, agricultural, and corporate aircraft as well as helicopters, has a current default rate of 0.01 percent. Under the baseline forecast for the current aircraft portfolio the median default rate is 0.29 percent. This rate increases to 0.68 percent at the 95 percent confidence level.



In addition to calculating the percentages, which is on the same scale as the default rates discussed earlier in this report, the Bank calculated the total dollar loss of this distribution. The current amount overdue for the portfolio is \$0.2 billion. Under the baseline forecast the median loss amount for the current portfolio is \$0.9 billion. Under a stressed scenario where all of the ratings were downgraded by 2 notches, the median loss amount would increase to \$2.1 billion, and a stressed scenario where none of the defaults were ever recovered the median loss amount would be \$2.3 billion. For the aircraft portfolio, the median loss amount would be \$0.2 billion.

Monte-Carlo Simulation of the entire Ex-Im Portfolio Future Default Rate (20,000 Simulations)



These results are comparable to the results from last year’s stress test. The median under the baseline forecast last year was 0.59 percent which was one basis point above FY 2013. For FY 2014, the stress of the stressed zero recovery scenario at the 95 percent confidence level is 3.54 percent, which is nine basis points lower than the 3.63 percent calculated FY 2013. This is consistent with the Bank’s experience over the past year in which few defaults have occurred.

## EX-IM BANK FUTURE STRESS TESTING

Ex-Im Bank is committed to continuous improvement and is always looking to improve stress testing. The Bank stress tested the aircraft portfolio and will continue to look into other industries and regions where it has large exposures. The Bank used the definition of a large exposure from the Basel Committee’s Core Principles for Effective Banking Supervision. In those core principles the committee states, “ten per cent or more of a bank’s capital is defined as a large exposure.” The Bank will be able to see if certain industries or region have a higher risk profile in the tails of its distribution along with its expected default rate. The Bank is also looking into the impact of correlation within industries and regions it is concentrated. These tests will inform the Bank as to the extent of this impact on potential future losses. During the year the Bank will look for additional ways to improve its stress testing methodology. The Bank will continue to report the results of these future stress test scenarios to the U.S. Congress.

# Appendix

## COMPONENTS OF DEFAULT RATE: *DISBURSEMENTS*

Under the direct loan program the goods and services are financed directly by Ex-Im Bank. Funds are disbursed to the supplier to pay for the goods or services delivered to the buyer and a loan receivable with appropriate loss reserves are reflected on the Bank's books.

Under the guarantee and insurance programs, the private sector provides the financing and the transaction is guaranteed or insured by Ex-Im Bank. The guaranteed or insured party notifies Ex-Im Bank when a shipment of goods has occurred and Ex-Im Bank records a non-cash "disbursement" to reflect the value of the goods guaranteed by Ex-Im Bank. An appropriate loss reserve is also recorded on the Bank's books.

As of December 2014, on the Bank's active portfolio, a total of \$133.0 billion of goods and services have been delivered to foreign buyers and supported by Ex-Im Bank under the loan, guarantee and insurance programs.

## COMPONENTS OF DEFAULT RATE: *GROSS DEFAULTS*

Ex-Im Bank pays claims honoring the terms of either the guarantee or the insured transaction. On Ex-Im Bank's active portfolio, the Bank has paid out \$193.6 million in defaults. For loans, all monies past due are considered defaults. As of December 2014, for the active portfolio, \$58.2 million is past due. This totals \$251.9 million in claims paid and overdue loans.

The gross default rate is derived from the amounts paid on guarantees and insurance transactions as well as past due loan installments divided by the amount disbursed. This rate does not include the money recovered or related recovery expenses. On the \$133.0 billion of disbursements, the Bank has gross defaults of \$251.9 million, resulting in a default rate of 0.174 percent.

## COMPONENTS OF DEFAULT RATE: *RECOVERIES AND EXPENSES*

Ex-Im Bank has an active recovery group that seeks to recuperate on losses related to claim payments and non-performing loans. On Ex-Im Bank's active portfolio, the Bank has recovered \$23.1 million and incurred \$2.5 million of expenses related to the recovery process.<sup>11</sup> These recoveries, as well as fees collected from borrowers, are used to offset claims paid. The Bank expects to recover additional amounts on these transactions in future years.

## COMPONENTS OF DEFAULT RATE: *CALCULATION*

|   |                          |
|---|--------------------------|
| <b>Total amount of required payments that are overdue</b> | <b>\$231,213,579</b>     |
| Gross Defaults Paid                                       | 251,876,020              |
| Expenses  | 2,479,013                |
| Less Recoveries   | 23,141,453               |
| <b>Total amount of financing involved</b>                 | <b>\$133,001,274,538</b> |
| Disbursements   | 133,001,274,538          |
| <b>Default Rate</b>                                       | <b>0.174%</b>            |

<sup>11</sup> For the purpose of calculation of the default rate, the amounts recovered are discounted to the time of claim payment.

## DEFAULT RATE: BY COUNTRY

|                   | <u>Financing</u>      | <u>Claim Paid</u>  | <u>Recovery</u>   | <u>Expenses</u> | <u>Overdue</u>     | <u>Default</u> |
|-------------------|-----------------------|--------------------|-------------------|-----------------|--------------------|----------------|
| <b>Africa</b>     | <b>7,491,657,102</b>  | <b>10,391,652</b>  | <b>1,241,318</b>  | <b>665,906</b>  | <b>9,816,240</b>   | <b>0.13%</b>   |
| Algeria           | 227,172,784           | -                  | -                 | -               | -                  | 0.00%          |
| Angola            | 758,166,448           | -                  | -                 | 8,071           | 8,071              | 0.00%          |
| Cameroon          | 37,216,132            | -                  | -                 | -               | -                  | 0.00%          |
| Congo, Demo. Rep. | 1,278,536             | -                  | -                 | -               | -                  | 0.00%          |
| Cote D'Ivoire     | 377,486               | -                  | -                 | -               | -                  | 0.00%          |
| Egypt             | 693,288,079           | 4,933,602          | 25,558            | 101,518         | 5,009,562          | 0.72%          |
| Ethiopia          | 2,066,127,652         | -                  | -                 | -               | -                  | 0.00%          |
| Ghana             | 421,893,667           | -                  | -                 | 117,569         | 117,569            | 0.03%          |
| Kenya             | 1,440,142,705         | -                  | -                 | 46,458          | 46,458             | 0.00%          |
| Liberia           | 49,214                | -                  | -                 | -               | -                  | 0.00%          |
| Mauritius         | 4,315,810             | -                  | -                 | -               | -                  | 0.00%          |
| Morocco           | 916,580,902           | -                  | -                 | -               | -                  | 0.00%          |
| Mozambique        | 1,011,945             | -                  | -                 | -               | -                  | 0.00%          |
| Niger             | 746,688               | -                  | -                 | -               | -                  | 0.00%          |
| Nigeria           | 155,361,140           | -                  | -                 | 515             | 515                | 0.00%          |
| Senegal           | 34,937,108            | 5,379,146          | 1,215,760         | 391,775         | 4,555,161          | 13.04%         |
| Sierra Leone      | 34,493                | -                  | -                 | -               | -                  | 0.00%          |
| South Africa      | 726,975,865           | -                  | -                 | -               | -                  | 0.00%          |
| Tanzania          | 3,851,527             | -                  | -                 | -               | -                  | 0.00%          |
| Uganda            | 377,678               | 78,904             | -                 | -               | 78,904             | 20.89%         |
| Zambia            | 1,751,242             | -                  | -                 | -               | -                  | 0.00%          |
| <b>Asia</b>       | <b>54,573,375,716</b> | <b>180,701,718</b> | <b>18,007,013</b> | <b>965,993</b>  | <b>163,660,698</b> | <b>0.30%</b>   |
| Azerbaijan        | 131,030,841           | -                  | -                 | -               | -                  | 0.00%          |
| Bahrain           | 336,547,758           | -                  | -                 | -               | -                  | 0.00%          |
| Bangladesh        | 536,495,580           | -                  | -                 | -               | -                  | 0.00%          |
| China             | 4,196,376,885         | -                  | -                 | 2,359           | 2,359              | 0.00%          |
| Cyprus            | 540,000               | -                  | -                 | -               | -                  | 0.00%          |
| Hong Kong         | 3,861,604,471         | 73,308             | -                 | -               | 73,308             | 0.00%          |
| India             | 8,037,145,204         | 8,932,134          | -                 | 119,322         | 9,051,456          | 0.11%          |
| Indonesia         | 1,998,819,887         | 10,955,099         | -                 | -               | 10,955,099         | 0.55%          |
| Iraq              | 6,553,155             | -                  | -                 | -               | -                  | 0.00%          |
| Israel            | 792,434,737           | -                  | -                 | -               | -                  | 0.00%          |
| Japan             | 279,360,183           | 104,094            | -                 | -               | 104,094            | 0.04%          |
| Kazakhstan        | 312,313               | -                  | -                 | -               | -                  | 0.00%          |
| Korea, South      | 818,268,768           | 107,413,255        | 17,953,551        | 296,987         | 89,756,691         | 10.97%         |
| Kuwait            | 5,857,661,521         | -                  | -                 | 264,710         | 264,710            | 0.00%          |
| Lebanon           | 625,642,930           | -                  | -                 | -               | -                  | 0.00%          |
| Malaysia          | 529,217               | -                  | -                 | -               | -                  | 0.00%          |
| Mongolia          | 176,484,601           | -                  | -                 | -               | -                  | 0.00%          |
| Oman              | 77,451,941            | -                  | -                 | -               | -                  | 0.00%          |
| Pakistan          | 114,845,646           | -                  | -                 | -               | -                  | 0.00%          |
| Philippines       | 1,102,476,984         | 43,671,358         | -                 | 74,234          | 43,745,591         | 3.97%          |

|                         | <u>Financing</u>      | <u>Claim Paid</u> | <u>Recovery</u>  | <u>Expenses</u> | <u>Overdue</u>    | <u>Default</u> |
|-------------------------|-----------------------|-------------------|------------------|-----------------|-------------------|----------------|
| Qatar                   | 560,809,165           | 5,976,002         | 53,462           | 13,430          | 5,935,970         | 1.06%          |
| Saudi Arabia            | 1,008,000,000         | -                 | -                | 20,057          | 20,057            | 0.00%          |
| Singapore               | 5,767,237,937         | 3,576,469         | -                | 106,642         | 3,683,110         | 0.06%          |
| Sri Lanka               | 2,895,473,755         | -                 | -                | -               | -                 | 0.00%          |
| Taiwan                  | 35,940,110            | -                 | -                | -               | -                 | 0.00%          |
| Tajikistan              | 1,082,270,172         | -                 | -                | -               | -                 | 0.00%          |
| Thailand                | 80,000,000            | -                 | -                | -               | -                 | 0.00%          |
| Turkey                  | 1,027,225,068         | -                 | -                | -               | -                 | 0.00%          |
| United Arab Emirates    | 5,901,599,964         | -                 | -                | 24,873          | 24,873            | 0.00%          |
| Uzbekistan              | 6,704,134,416         | -                 | -                | -               | -                 | 0.00%          |
| Vietnam                 | 152,936,122           | -                 | -                | 43,379          | 43,379            | 0.03%          |
| <b>Europe</b>           | <b>18,925,595,052</b> | <b>791,144</b>    | <b>84,650</b>    | <b>184,348</b>  | <b>890,842</b>    | <b>0.00%</b>   |
| Albania                 | 36,737,164            | -                 | -                | 52,233          | 52,233            | 0.14%          |
| Austria                 | 427,363,471           | -                 | -                | -               | -                 | 0.00%          |
| Belgium                 | 12,444,153            | -                 | -                | -               | -                 | 0.00%          |
| Bulgaria                | 7,174,527             | -                 | -                | -               | -                 | 0.00%          |
| Czech Republic          | 76,818,942            | -                 | -                | -               | -                 | 0.00%          |
| Denmark                 | 177,467               | -                 | -                | -               | -                 | 0.00%          |
| Estonia                 | 195,572               | -                 | -                | -               | -                 | 0.00%          |
| France                  | 71,243,557            | -                 | -                | -               | -                 | 0.00%          |
| Germany                 | 1,208,016,844         | 138,899           | -                | -               | 138,899           | 0.01%          |
| Greece                  | 4,826,153             | -                 | -                | -               | -                 | 0.00%          |
| Hungary                 | 68,520,000            | 382,244           | 84,650           | 41,333          | 338,928           | 0.49%          |
| Iceland                 | 90,000                | -                 | -                | -               | -                 | 0.00%          |
| Ireland                 | 7,289,112,807         | -                 | -                | 49,148          | 49,148            | 0.00%          |
| Italy                   | 2,876,101             | -                 | -                | -               | -                 | 0.00%          |
| Luxembourg              | 1,948,763,429         | -                 | -                | -               | -                 | 0.00%          |
| Netherlands             | 2,264,121,372         | -                 | -                | -               | -                 | 0.00%          |
| Norway                  | 1,250,249,551         | -                 | -                | -               | -                 | 0.00%          |
| Poland                  | 480,381,558           | -                 | -                | -               | -                 | 0.00%          |
| Romania                 | 208,060,238           | -                 | -                | 41,634          | 41,634            | 0.02%          |
| Russia                  | 1,617,528,424         | 270,000           | -                | -               | 270,000           | 0.02%          |
| Serbia                  | 1,140,021             | -                 | -                | -               | -                 | 0.00%          |
| Slovak Republic         | 67,176,084            | -                 | -                | -               | -                 | 0.00%          |
| Slovenia                | 8,555,516             | -                 | -                | -               | -                 | 0.00%          |
| Spain                   | 555,984,585           | -                 | -                | -               | -                 | 0.00%          |
| Switzerland             | 77,971,103            | -                 | -                | -               | -                 | 0.00%          |
| Ukraine                 | 294,615,555           | -                 | -                | -               | -                 | 0.00%          |
| United Kingdom          | 945,450,859           | -                 | -                | -               | -                 | 0.00%          |
| <b>Latin Am./Carib.</b> | <b>28,951,167,954</b> | <b>47,401,001</b> | <b>3,284,916</b> | <b>674,432</b>  | <b>44,790,517</b> | <b>0.15%</b>   |
| Argentina               | 96,418,583            | 3,555             | -                | -               | 3,555             | 0.00%          |
| Barbados                | 4,718,306             | -                 | -                | -               | -                 | 0.00%          |

|                                 | <u>Financing</u>       | <u>Claim Paid</u>  | <u>Recovery</u>   | <u>Expenses</u>  | <u>Overdue</u>     | <u>Default</u> |
|---------------------------------|------------------------|--------------------|-------------------|------------------|--------------------|----------------|
| Belize                          | 9,584,602              | -                  | -                 | -                | -                  | 0.00%          |
| Bermuda                         | 441,988                | -                  | -                 | -                | -                  | 0.00%          |
| Brazil                          | 4,990,669,338          | 8,681,752          | 302,765           | 104,789          | 8,483,776          | 0.17%          |
| Cayman Islands                  | 80,312,097             | -                  | -                 | -                | -                  | 0.00%          |
| Chile                           | 3,065,906,594          | 324,704            | -                 | 27,452           | 352,155            | 0.01%          |
| Colombia                        | 3,193,627,299          | 2,627,990          | 2,309             | 1,446            | 2,627,128          | 0.08%          |
| Costa Rica                      | 112,677,206            | -                  | -                 | -                | -                  | 0.00%          |
| Dominican Republic              | 774,701,177            | 7,712,630          | 549,952           | 3,235            | 7,165,913          | 0.92%          |
| Ecuador                         | 63,887,506             | -                  | -                 | -                | -                  | 0.00%          |
| El Salvador                     | 28,565,438             | -                  | -                 | -                | -                  | 0.00%          |
| Guatemala                       | 32,575,411             | -                  | -                 | -                | -                  | 0.00%          |
| Honduras                        | 187,089,736            | 779,983            | 20,000            | 3,321            | 763,305            | 0.41%          |
| Jamaica                         | 60,739,383             | 39,528             | -                 | -                | 39,528             | 0.07%          |
| Mexico                          | 13,351,456,301         | 26,274,515         | 1,789,788         | 468,686          | 24,953,413         | 0.19%          |
| Nicaragua                       | 3,435,809              | -                  | -                 | -                | -                  | 0.00%          |
| Panama                          | 1,233,842,261          | -                  | -                 | 47,756           | 47,756             | 0.00%          |
| Paraguay                        | 13,797,123             | -                  | -                 | -                | -                  | 0.00%          |
| Peru                            | 753,279,511            | -                  | -                 | 9,608            | 9,608              | 0.00%          |
| St. Vincent And<br>Grenadines   | 3,334,391              | -                  | -                 | -                | -                  | 0.00%          |
| Trinidad And<br>Tobago          | 112,088,578            | -                  | -                 | -                | -                  | 0.00%          |
| Turks And Caicos                | 2,029,809              | 956,344            | 620,103           | -                | 336,241            | 16.57%         |
| Uruguay                         | 138,110,459            | -                  | -                 | -                | -                  | 0.00%          |
| Venezuela                       | 620,904,685            | -                  | -                 | 8,139            | 8,139              | 0.00%          |
| Virgin Islands (Br.)            | 16,930,561             | -                  | -                 | -                | -                  | 0.00%          |
| <b>North America</b>            | <b>11,429,949,051</b>  | <b>-</b>           | <b>-</b>          | <b>44,580</b>    | <b>44,580</b>      | <b>0.00%</b>   |
| Canada                          | 3,647,887,563          | -                  | -                 | 44,580           | 44,580             | 0.00%          |
| Private Export<br>Funding Corp. | 1,776,484,729          | -                  | -                 | -                | -                  | 0.00%          |
| United States                   | 6,005,576,759          | -                  | -                 | -                | -                  | 0.00%          |
| <b>Oceania</b>                  | <b>8,342,591,902</b>   | <b>-</b>           | <b>-</b>          | <b>58,719</b>    | <b>58,719</b>      | <b>0.00%</b>   |
| Australia                       | 5,053,970,258          | -                  | -                 | 58,719           | 58,719             | 0.00%          |
| New Zealand                     | 717,653,324            | -                  | -                 | -                | -                  | 0.00%          |
| Papua New Guinea                | 2,570,968,320          | -                  | -                 | -                | -                  | 0.00%          |
| <b>Other</b>                    | <b>2,662,946,442</b>   | <b>2,765,110</b>   | <b>471,438</b>    | <b>-</b>         | <b>2,293,672</b>   | <b>0.09%</b>   |
| Various - Insurance             | 2,153,568,287          | 2,765,110          | 471,438           | -                | 2,293,672          | 0.11%          |
| Various Unallocable             | 509,378,156            | -                  | -                 | -                | -                  | 0.00%          |
| <b>Grand Total</b>              | <b>133,001,274,538</b> | <b>251,876,020</b> | <b>23,141,453</b> | <b>2,479,013</b> | <b>231,213,579</b> | <b>0.174%</b>  |

# Definitions

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**Active Portfolio** – Maturity date is after the date of this report (transaction currently active)

**Administrative Expenses** – Expenses of the day-to-day operation of the Bank. Majority of expenses are compensation and benefits. Does not include program costs

**Allowances** – Accumulated provisions against which future loan write-offs would be made

**Defaults** – Payment from Ex-Im Bank to guaranteed or insured party plus unpaid past due loan installments

**Default Rate** – Defaults less recoveries plus expenses over total amount financed on active portfolio

**Disbursements** – Goods and services delivered to foreign buyers and supported by Ex-Im Bank under the loan, guarantee and insurance programs

**Loan Arrears** - Direct loan repayment currently overdue. For defaulted credits, this includes the entire amount outstanding. For rescheduled sovereign credits, this includes the underlying credits which are still active based upon the original payment terms

**Nominal Discount Rates** - A forecast of nominal or market interest rates for the current year based on the economic assumptions for the following Fiscal Year Budget as presented by the Office of Management and Budget in Circular A-94 Appendix C

**Recoveries** – Money recovered on guarantees and insurance that have defaulted and a claim has been paid out. For direct loans in arrears, this includes funds recovered after missed payments

**Program Costs** - Cost related to loan, guarantee, and insurance transactions where the fees are insufficient to cover prudent reserves

# Mandates

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**Environmentally Beneficial Mandate** - Congress states: “That not less than 10 percent of the aggregate loan, guarantee, and insurance authority available to the Export-Import Bank under this Act should be used for zero carbon renewable energy and energy efficient end – use technologies.”

**Small Business Mandate** - Congress states: “Ex-Im Bank shall make available, from the aggregate loan, guarantee, and insurance authority available to it, an amount to finance exports directly by small business concerns (as defined under section 3 of the Small Business Act) which shall be not less than 20 percent of such authority for each fiscal year.”

**Sub-Saharan Africa Mandate** - Congress states: “...take prompt measures, consistent with the credit standards otherwise required by law, to promote the expansion of the Bank’s financial commitments in sub-Saharan Africa...”

