

Students' ECONOMIC FORUM

A monthly publication from South Indian Bank

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"The key is not to eliminate risk, but to manage it."

- Peter Bernstein

The 'SIB Students' Economic Forum' is designed to kindle interest in the minds of the younger generation. We highlight one theme in every monthly publication. Topics of discussion for this month is 'Risk-Weighted Asset Density'.

Introduction

Capital in banks play an important function in absorption of unanticipated losses. Generally, banks are expected to absorb the losses from the normal earnings. But there may be some unanticipated losses which cannot be absorbed by normal earnings. Capital comes in handy in such abnormal loss situations to cushion off the losses. In this way, capital plays the role of an insurance.

Capital Risk Adequacy Ratio (CRAR) signifies the proportion of capital funds of banks in relation to Risk Weighted Assets (RWAs). Risk Weighted Assets constitute the risk profile of banks assets portfolio. By multiplying each asset value by its respective risk weight and summing the results, we arrive at the RWAs, an accurate representation of the potential losses a bank might face on its portfolio. RWAs are a measure of the potential loss that a bank could face on its assets, taking into account the creditworthiness of the borrower and the type of asset.

In the convoluted world of finance, understanding the nuances of risk is very important. Risk-weighted asset density (RWAD) – a potent metric that shines a light on the riskiness lurking within a bank's balance sheet. The ratio of RWAs to total asset exposure provides a measure of riskiness of assets. The ratio has come to be known as RWA density.

How is Risk Weighted Asset Density Calculated?

RWAD = (Total Risk Weighted Assets) / (Total Assets)

The Basel III capital regulations continue to be based on three-mutually reinforcing Pillars, viz. minimum capital requirements, supervisory review of capital adequacy, and market discipline of the Basel II capital adequacy framework. Pillar 1 requires the banks to compute risk weighted assets. Total Risk weighted assets is the sum of total credit risk weighted assets, market risk weighted assets and operational risk weighted assets, computed in accordance to the norms prescribed by RBI Master circular on Capital Regulations.

Total Risk Weighted Assets = (Credit Risk Weighted Assets) + (Market Risk Weighted Assets) + (Operational Risk Weighted Assets).

Risk weighted assets for credit risk is computed using standardized approach wherein risk weight is assigned based on the category in which the borrower falls. For example, a borrower falling under the category commercial real estate will attract a risk weight of 100%, whereas an exposure to central government will attract a risk weight of 0%. A borrower classified as corporate will be risk weighted based on what is the external rating of the borrower.

The Reserve Bank has identified the external credit rating agencies that meet the eligibility criteria specified under the revised Framework. Banks shall rely upon the ratings assigned by the external credit rating agencies chosen by the Reserve Bank for assigning risk weights for capital adequacy. Market risk is defined as the risk of losses in, on-balance sheet and off-balance sheet positions arising from movements in market prices. Risk weighted assets for market risk is computed using standardized duration approach. Operational risk is defined as the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events. This definition includes legal risk, but excludes strategic and reputational risk. Legal risk includes, but is not limited to, exposure to fines, penalties, or punitive damages resulting from supervisory actions, as well as private settlements. Risk weighted assets for operational risk is computed using Basic Indicator approach.



What does RWAD tells?

Risk Weighted Assets Density (RWAD) is an analytical metric that serves a critical function in the evaluation of a bank's overall risk profile, offering insights that other financial ratios may not adequately capture. At its core, RWAD measures the proportion of assets held by a bank that are considered risky, after adjusting for their respective risk weights as determined by regulatory requirements. This ratio is instrumental in understanding how a bank's asset allocation decisions reflect its appetite for risk and its potential vulnerability to financial stress.

A higher RWAD value suggests that a bank has a significant portion of its assets allocated to riskier investments. Such investments, while potentially offering higher returns, carry increased risk of losses, particularly in volatile or declining economic conditions. This implies that a bank with a high RWAD is operating with a strategy that leans towards aggressive risk-taking. This approach can enhance profitability during stable or booming economic times but can also expose the bank to considerable financial strain during downturns. The high RWAD essentially signals a bank that might be on the brink of experiencing significant losses if the economic environment sours, underscoring a precarious balancing act between pursuing high returns and managing the inherent risks.

On the other end of the spectrum, a lower RWAD indicates a more conservative asset allocation, with a bank holding a larger share of its assets in lower-risk categories. Such a stance suggests that the bank prioritizes stability and is less likely to incur substantial losses from its investment portfolio. This conservative approach may limit potential earnings during periods of economic growth but provides a buffer against losses when the economy falters. Therefore, a low RWAD is indicative of a bank that is better insulated against the vicissitudes of economic cycles, reflecting a deliberate choice to safeguard against financial distress.

Furthermore, tracking the RWAD over time offers valuable insights into how a bank's risk profile and asset strategy evolve. An increasing RWAD over consecutive periods might signal that the bank is gradually shifting its portfolio towards higher-risk assets, potentially in pursuit of greater returns. This shift could result from decreasing the proportion of assets that carry lower risk weights in favor of those with higher risk weights, indicating a strategic realignment towards more aggressive risk-taking. Such a trend warrants close monitoring, as it could imply a deterioration in the bank's overall risk stance, making it more susceptible to adverse economic impacts.

Conversely, a decreasing trend in RWAD suggests an improvement in the bank's asset risk quality. This improvement could be attributed to a strategic shift towards safer assets, reducing the bank's exposure to highrisk investments. This change in asset composition demonstrates a bank's commitment to strengthening its financial resilience by enhancing the quality of its asset portfolio. This strategic shift not only mitigates the potential for losses but also aligns with a prudent approach to asset management, emphasizing stability and risk aversion.

In essence, RWAD is a nuanced and dynamic measure that provides a comprehensive view of a bank's risk exposure and asset management strategy. It highlights the bank's risk tolerance and its capacity to navigate financial challenges. By examining RWAD in conjunction with other financial ratios and metrics, stakeholders can gain a deeper understanding of a bank's financial health, strategic direction, and readiness to withstand economic fluctuations.

Why is RWAD important?

The significance of Risk Weighted Asset Density (RWAD) transcends its role as a mere statistical figure, embodying a critical gauge of a bank's financial health and strategic positioning within the broader financial ecosystem. This metric is pivotal for both regulators and investors, each utilizing RWAD to inform decisions that have far-reaching implications for the stability and transparency of the banking sector.



For regulators, RWAD serves as an indispensable tool within the regulatory framework, enabling a more nuanced and informed approach to maintaining financial stability. By assessing the proportion of a bank's assets that are deemed risky-adjusted for their respective risk weights-regulators can determine the appropriate level of capital that banks should maintain. This determination is crucial for several reasons. Firstly, it ensures that banks have a sufficient capital buffer to absorb potential losses, a fundamental aspect of risk management that protects the bank's solvency and shields the broader financial system from the domino effect of a bank failure. Secondly, by setting capital requirements based on RWAD, regulators can tailor these requirements to the specific risk profile of each bank, promoting a more resilient banking sector that is better equipped to withstand financial shocks. This tailored approach encourages banks to manage their risk exposures proactively, aligning their asset portfolios with prudent risk-taking practices.

Investors, on the other hand, utilize RWAD as a lens through which the riskiness of their investment in banks can be evaluated. In an environment where investment decisions are increasingly complex and information-rich, RWAD offers a concise yet comprehensive overview of a bank's risk exposure. Investors are particularly interested in how a bank manages its asset allocation to balance risk and return. A higher RWAD may signal to investors that a bank has a higher appetite for risk, which could translate into higher potential returns but also increased vulnerability to losses. Conversely, a lower RWAD suggests a conservative asset allocation strategy, possibly indicating a lower risk of loss but also potentially lower returns. By analyzing RWAD in conjunction with other financial metrics and indicators, investors can make more informed decisions regarding the risk-reward profile of their investments in banks.

Moreover, RWAD's importance is amplified in periods of economic uncertainty or financial turmoil. During such times, both regulators and investors pay closer attention to RWAD as an early warning signal of potential vulnerabilities within banks' portfolios. An uptick in RWAD across the banking sector could prompt regulatory actions aimed at reinforcing capital buffers, while investors might reassess their investment positions based on perceived risk exposures.

Limitation of RWAD:

The utility of Risk Weighted Asset Density (RWAD) as a metric for assessing the risk profile of banks, while significant, is not without its inherent limitations. A critical shortcoming of RWAD lies in its reliance on historical data to gauge the riskiness of a bank's asset portfolio. This dependence underscores a fundamental challenge in risk assessment: past performance is not necessarily indicative of future outcomes. The reliance on historical data means that RWAD might not fully capture the potential for unforeseen events or shifts in the economic landscape that can drastically alter the risk profile of a bank's assets. For instance, a bank that appears to have a low RWAD, suggesting a conservative risk posture, could still find itself facing substantial losses in the wake of an unexpected financial downturn or crisis. Such events can lead to a sudden and significant devaluation of assets that were previously considered low-risk, revealing the limitations of a purely historical and quantitative assessment of risk.

Moreover, the static nature of RWAD does not account for the dynamic and often volatile nature of financial markets. Assets that are deemed low-risk under current conditions may become high-risk in the future due to changes in market dynamics, regulatory environments, or macroeconomic factors. This limitation highlights the need for a more nuanced and forward-looking approach to risk assessment that can adapt to changing conditions and anticipate potential threats to financial stability.

Another limitation of RWAD is its potential to oversimplify the complexity of risk by focusing primarily on asset density and disregarding qualitative factors that can influence a bank's risk profile. Factors such as management quality, corporate governance and the broader economic and political environment can also play a critical role in a bank's ability to manage and mitigate risk. These elements are not directly captured by RWAD, suggesting that the metric should be used in conjunction with a broader set of tools and analyses to obtain a comprehensive view of a bank's risk exposure.

Furthermore, the methodology used to calculate risk weights for different asset classes under the Basel Accords can itself be a source of imperfection. The risk weights are based on standardized assessments that may not accurately reflect the actual risk of specific assets, leading to potential misrepresentations of a bank's true risk exposure. This can result in a false sense of security or, conversely, an exaggerated perception of risk, neither of which is conducive to effective risk management or regulatory oversight.

In conclusion, while RWAD is a valuable tool for understanding the risk profile of banks, its limitations, particularly the reliance on historical data and the potential for oversimplification, underscore the importance of adopting a multifaceted approach to risk assessment. Incorporating qualitative assessments, forward-looking analyses, and a broader array of financial metrics can provide a more accurate and comprehensive understanding of banking risks, enhancing the resilience of the financial system against future challenges.

Conclusion

RWAD is a valuable tool for measuring bank riskiness. It is a simple metric that is easy to understand and calculate. By delving into its composition, analyzing its limitations, and combining it with other metrics, we gain invaluable insights into a bank's financial health and its ability to withstand the inevitable storms of the financial world. RWAD can vary significantly from bank to bank as banks have different business models and risk profiles. RWAD can also vary over time. This is because the composition of a bank's balance sheet can change, and the Basel Accords are periodically updated. RWAD should not be used in isolation and it is important to consider other factors when assessing its riskiness.

Some of the other metrics that could be used are:

- Capital Risk Adequacy Ratio CRAR reflects the amount of capital a bank holds relative to its risk weighted assets, providing a more comprehensive picture of its ability to absorb losses.
- Profitability A consistently profitable bank, even with a higher RWAD, might be better positioned to handle risks due to its stronger financial metrics.
- Liquidity A banks ability to quickly access cash to meet its obligation is vital during time of stress. Net Stable Funding Ratio and Liquidity Coverage Ratio could be used to measure the banks liquidity risk. The Net Stable Funding Ratio (NSFR) is a regulatory requirement that aims to promote the long-term resilience of banks by ensuring they have a stable funding base to match their long-term assets. It does this by measuring the amount of available stable funding a bank has relative to the amount of required stable funding. The Liquidity Coverage Ratio (LCR) is another regulatory requirement that aims to ensure banks have enough high-quality liquid assets to meet their short-term funding needs. It does this by measuring the amount of high-quality liquid assets a bank has relative to its expected net cash outflows over a 30-day period.

A comprehensive approach using multiple tools, including RWAD, is key to unlocking the secrets of banking risk and ensuring a healthier, more resilient financial ecosystem.

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