Morgan Stanley



2025 Dodd-Frank Act Stress Test (DFAST)

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Disclaimer

The results summarized in section D herein contain forward-looking projections based on the hypothetical, severely adverse economic scenario as prescribed by the Board of Governors of the Federal Reserve System (the "Federal Reserve") and documented in section C. The estimates also reflect certain required assumptions regarding Morgan Stanley's (the "Firm's") capital actions, which are described in section B. The quantitative outputs and qualitative discussion herein should not be viewed as forecasts of expected outcomes or capital ratios or as a measure of the solvency or actual financial performance or condition of the Firm. Instead, the outputs and discussions are estimates from forward-looking exercises that consider possible outcomes based on hypothetical, highly adverse economic scenarios.

The outputs of the analyses and the discussion contained herein may not align with those produced by the Federal Reserve or other financial institutions conducting similar exercises, even if similar hypothetical stress scenarios were used, due to differences in methodologies and assumptions used to produce those outputs. In addition, the results contained herein may not be comparable to results of prior stress tests conducted by the Firm, the Federal Reserve or other financial institutions due to the evolving regulatory framework, evolving macroeconomic and market environment and other factors.

B Requirements for Annual Dodd-Frank Act Stress Test (1 of 2)

- Federal Reserve regulations apply capital planning and stress testing standards to certain large Bank Holding Companies
 ("BHCs"; each such BHC, a "Covered Company"), including the Firm. Covered Companies must submit, each year, capital
 plans to the Federal Reserve that include an assessment of the expected uses and sources of capital over a prescribed
 planning horizon. Covered Companies must also comply with Supervisory and Company-Run Stress Test Requirements.
- Covered Companies are required to disclose publicly the results of their run of the Federal Reserve's Supervisory Severely
 Adverse scenario, which describes the hypothetical evolution of certain specific macroeconomic and market variables consistent
 with a severely adverse recession.
- The planning horizon begins with actual results as of December 31, 2024 and includes a nine-quarter forecast beginning with the first quarter of 2025 and ending with the first quarter of 2027.
- The Firm is required to employ the following assumptions regarding its capital actions over the planning horizon:
 - No payment of any dividends on any instruments that qualify as common equity tier 1 capital;
 - Payments on instruments that qualify as additional tier 1 capital or tier 2 capital equal to the stated dividend, interest, or principal due on such instrument;
 - No redemptions or repurchases of any capital instrument that is eligible for inclusion in the numerator of a regulatory capital ratio; and
 - No issuances of common stock or preferred stock.
- Results calculated herein for the Firm's run of the 2025 Supervisory Severely Adverse scenario reflect the capital action
 assumptions summarized above and exclude the impact of material business plan changes, consistent with the stress test rules
 (12 CFR § 252.56).

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B Requirements for Annual Dodd-Frank Act Stress Test (2 of 2)

- Additionally, as one of eight firms with substantial trading and counterparty exposures, the Firm was required to apply a hypothetical, instantaneous global market shock to its trading book positions and counterparty credit exposures as of the market close on October 9, 2024⁽¹⁾.
- As one of ten firms with substantial trading or custodial operations, the Firm was also required to incorporate the hypothetical, instantaneous and unexpected default of its largest counterparty across its derivatives and securities financing transaction activities into the supervisory stress scenarios. The as-of date for the counterparty default scenario component was also October 9, 2024⁽¹⁾.
- The results of the Firm's stress test under the Supervisory Severely Adverse Stress Scenario are documented under section D
 "Company-Run Dodd-Frank Act Stress Test Holding Company" included herein.

1. Consistent with the Federal Reserve requirement to use a business day during the week of October 7-11, 2024 that corresponds to a BHC's weekly internal risk reporting cycle.

© Description of the Supervisory Severely Adverse Scenario

- The Supervisory Severely Adverse scenario is a hypothetical scenario designed to assess the strength of the banking organizations and their resilience to unfavorable economic conditions.
- The 2025 Supervisory Severely Adverse Scenario is characterized by a severe global recession, including prolonged declines
 in both residential and commercial real estate prices, which spill over into the corporate sector and affect investment
 sentiment.
- Further description of the Supervisory Severely Adverse Scenario can be found on the Federal Reserve Board's website at (https://www.federalreserve.gov) in the publication 2025 Stress Test Scenarios.

D Company-Run Dodd-Frank Act Stress Test – Holding Company (1 of 4)

Capital Ratios and Risk-Weighted Assets, Actual 4Q 2024 and Projected 1Q 2025 – 1Q 2027, under the Supervisory Severely Adverse Scenario

Regulatory Ratio	Actual Q4 2024	Projected Stressed Capital Ratios (1) (2)		Regulatory
g ,		Ending	Minimum	- Minimum
Common Equity Tier 1 Capital Ratio	15.9%	15.5%	13.7%	4.5%
Tier 1 Risk-Based Capital Ratio	18.0%	17.4%	15.6%	6.0%
Total Risk-Based Capital Ratio	20.3%	19.5%	18.1%	8.0%
Tier 1 Leverage Ratio	6.9%	7.0%	6.5%	4.0%
Supplementary Leverage Ratio	5.6%	5.8%	5.3%	3.0%

Billions of dollars	Actual 4Q 2024 ⁽³⁾	Projected 1Q 2027 ⁽³⁾
Risk-Weighted Assets	\$472	\$516

^{1.} The capital ratios are calculated based on the Capital Actions described on page 4. The minimum capital ratios do not necessarily occur in the same quarter of the planning horizon.

^{2.} With respect to the Common Equity Tier 1, Tier 1 and Total Risk-based Capital ratios, the U.S. Basel III Standardized approach is used to calculate Risk-Weighted Assets (RWA) for credit risk and market risk.

^{3.} Actual and projected RWAs are calculated using the Basel III Standardized approach.

D Company-Run Dodd-Frank Act Stress Test – Holding Company (2 of 4)

Projected Revenues, Losses, and Net Income before Taxes through 1Q 2027 under the Supervisory Severely Adverse Scenario

Item	Billions of Dollars	Percent of Average Assets ⁽¹⁾
Pre-Provision Net Revenue	\$23.3	1.9%
Equals		
Net interest income	\$15.1	1.2%
Noninterest income	\$92.1	7.3%
Less		
Noninterest expense	\$83.9	6.7%
Other Revenue ⁽²⁾	N/A	
Less		
Provisions for Loan and Lease Losses	\$6.4	
Credit Losses on Investment Securities (AFS / HTM)(3)	\$0.0	
Trading and Counterparty Losses ⁽⁴⁾	\$5.3	
Other Losses/Gains ⁽⁵⁾	\$5.8	
Equals		
Net Income before Taxes	\$5.7	0.5%
Memo Items		
Other Comprehensive Income ⁽⁶⁾	\$2.2	
Other Effects on Capital	Q4 2024	Q1 2027
AOCI Included in Capital (in Billion Dollars)(7)	(\$6.8)	(\$4.6)

[.] Average assets reflect the nine-quarter average of total assets.

^{2.} Other revenue includes one-time income and (expense) items not included in pre-provision net revenue.

^{3.} Represents credit losses on available-for-sale ("AFS") securities and held-to-maturity ("HTM") securities.

^{4.} Trading and counterparty losses include mark-to-market and credit valuation adjustment ("CVA") losses and losses arising from the counterparty default scenario component applied to derivatives, securities lending, and repurchase agreement activities.

^{5.} Other losses/gains include projected change in fair value of loans held for sale or held for investment and measured under the fair-value option, losses/gains on hedges on loans measured at fair value or amortized cost, and certain losses on private equity investments.

^{6.} Represents changes over the forecast horizon. Other comprehensive income primarily includes net unrealized losses/gains on AFS securities, defined benefit pension plan, cash flow hedges and foreign currency translation adjustments.

^{7.} Represents the inception-to-date balance of other comprehensive income, excluding cash flow hedges, as of 4Q 2024 and 1Q 2027.

© Company-Run Dodd-Frank Act Stress Test – Holding Company (3 of 4)

Projected Loan Losses, by Type of Loan, 1Q 2025 – 1Q 2027 under the Supervisory Severely Adverse Scenario

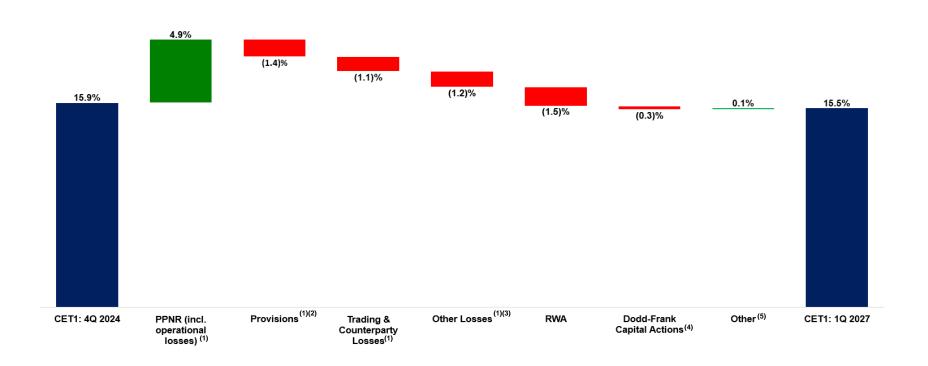
Loan Type	Billions of Dollars	Portfolio Loss Rates (Percent) ⁽¹⁾
First-Lien Mortgages, Domestic	\$0.6	0.9%
Junior Liens and HELOCs, Domestic	\$0.0	3.8%
Commercial and Industrial	\$2.3	13.0%
Commercial Real Estate, Domestic	\$0.9	6.6%
Credit Cards	N/A	N/A
Other Consumer	\$0.0	0.2%
Other Loans ⁽²⁾	\$1.6	1.2%
Total Projected Loan Losses	\$5.4	2.1%

^{1.} Average loan balances used to calculate portfolio loss rates exclude loans held for sale and loans measured at fair value and are calculated over nine quarters. Portfolio loss rates represent cumulative portfolio losses as a percentage of the average loan portfolio balance.

^{2.} Other loans include loans to depositories and other financial institutions, loans for purchasing or carrying securities, and all other loans and leases.

D Company-Run Dodd-Frank Act Stress Test – Holding Company (4 of 4)

Key Drivers of Common Equity Tier 1 Capital Ratio ("CET1") under the Supervisory Severely Adverse Scenario



Reflects pre-tax impact.

Includes provisions on loans, held-to-maturity securities and available-for-sale securities.

^{3.} Other losses/gains include projected change in fair value of loans held for sale or held for investment and measured under the fair-value option, losses/gains on hedges on loans measured at fair value or amortized cost, and certain losses on private equity investments.

^{4.} Reflects Dodd Frank Act Stress Testing Capital Actions, which are discussed on page 4.

Other includes changes in Common Equity Tier 1 deductions over the forecast horizon, AOCI, tax provisions, and Earnings attributable to Non-Controlling Interests.

Key Risks Captured in Dodd-Frank Act Stress Test (1 of 2)

The below risks are those inherent in the Firm's business activities and included in the Supervisory Severely Adverse scenario.

Credit Risk

Risk of loss arising when a borrower, counterparty or issuer does not meet its financial obligations to the Firm. This risk arises from a variety of business activities, including but not limited to lending commitments, over-the-counter derivatives, securities financing transactions, listed derivatives, and prime brokerage margin lending.

Market Risk

Risk that a change in the level of one or more market prices, rates, spreads, indices, volatilities, correlations or other market factors, such as market liquidity, will result in losses for a position or portfolio owned by the Firm. Market risks impacting the Firm include the level and volatility of equity prices, debt and commodity prices, interest rates, currency values and other market indices.

Operational Risk

Risk of loss, or of damage to the Firm's reputation, resulting from inadequate or failed processes or systems, from human factors or from external events (e.g., fraud, theft, legal and compliance risks, cyber-attacks or damage to physical assets).

■ Key Risks Captured in Dodd-Frank Act Stress Test (2 of 2)

Earnings at Risk

Risks to baseline earnings that can arise from stressed macroeconomic conditions, departure of key revenue generators, significant loss of customer base, reduced standing amongst competitors, idiosyncratic or industrywide factors, significant changes to expected expenses and shifting of business/product mix.

Reputation Risk

Risk of baseline earnings degradation due to change in the Firm's perception in the marketplace driven by activities of third parties affiliated with the Firm or by actions of the Firm, its officers or employees, creating negative publicity and damage to the Firm's reputation.

Strategic Risk

Risk to baseline earnings from misaligned design and implementation of the Firm's overall strategic objectives and the associated business unit strategic initiatives required to enable them, and any threat to the effective and efficient execution of the Firm's strategic business initiatives. It also includes the risk of lack of timely responsiveness to industry, regulatory and geopolitical changes.

Capital and RWA Risk

Risks to the Firm's spot or projected capital ratios due to adverse movement in the drivers of capital (numerator) and RWA, balance sheet or off-balance sheet items (denominator).

Liquidity Risk

Risk that the Firm will be unable to finance its operations due to a loss of access to the capital markets or difficulty in liquidating its assets. Liquidity risk also encompasses the Firm's ability (or perceived ability) to meet its financial obligations without experiencing significant business disruption or reputational damage that may threaten its viability as a going concern as well as the associated funding risks triggered by the market or idiosyncratic stress events that may negatively affect the Firm's liquidity and may impact its ability to raise new funding.



Forecasting Methodologies – Supervisory Severely Adverse Scenario (1 of 3)

Overview

- The Firm's capital ratios under the Company-Run Supervisory Severely Adverse Scenario reflect the effect of the hypothetical macroeconomic and market environment on the revenues, expenses and the resources (e.g., assets and headcount) available to the Firm's business segments as well as market, credit and operational risk loss projections.
- Under the Company-Run Supervisory Severely Adverse Scenario, the Firm employs appropriate forecast methodologies to project the impact of the hypothetical assumptions over the forecast time horizon.
- Several of these forecast methodologies are partially regression driven, with certain limitations that are inherent in all types of regression models. The models contain various assumptions such as the historical relationships between Firm performance and relevant macroeconomic and market variables, as well as expectations of customer behavior. Changes to these assumptions can materially affect forecast results.

Pre-Provision Net Revenue ("PPNR")

- The Firm's PPNR forecast reflects a detailed process in which each major business develops a nine-quarter projection. The projection considers:
 - Key macroeconomic and market variables that historically demonstrate the highest correlation to the level and growth rate
 of industry and Firm business volumes and net revenues;
 - Expectations of industry dynamics under the scenario; and
 - The impact of market activity levels on operating costs and operational risk losses.

Forecasting Methodologies – Supervisory Severely Adverse Scenario (2 of 3)

- Operational Risk's Methodology is comprised of Baseline Loss & Stress Loss:
 - Baseline Loss, the run-rate of operational risk losses, is calculated through: (1) regression model output based on the correlation of internal loss data to select macroeconomic variables for macro-sensitive risk segments and (2) historical loss based estimation for non-macro-sensitive risk segments which reflects the Firm's nine-quarter average realized losses over the Firm's loss data collection history.
 - Stress Loss, the historical run-rate and large idiosyncratic losses, is calculated through: (1) regression model output for macro-sensitive risk segments based on the correlation of internal loss data to select macroeconomic variables; (2) historical loss based estimation for non-macro-sensitive risk segments which reflects the Firm's nine-quarter average realized losses over the Firm's loss data collection history; (3) scenario analysis by aggregating the severities of a chosen set of idiosyncratic scenarios designed to stress material risks; and (4) aggregating stressed outcomes of material pending litigation matters in the Firm's Litigation Docket net of any legal reserves taken.

On and Off-Balance Sheet Exposures

- Balance sheet forecasts are developed with each of the business segments and are driven by multiple factors, including the prescribed macroeconomic and market variable paths, historical data and the Firm's balance sheet limits.
- Off-balance sheet forecasts are driven by multiple factors including the prescribed macroeconomic and market variable paths, reflecting the application of the U.S. Basel III rules.

Risk-Weighted Assets

- The Firm's RWA forecast reflects the application of the Standardized Approach under U.S. Basel III for the Common Equity Tier 1, Tier 1 Capital and Total Capital Ratios.
- The Firm's methodology aligns projections of standardized market and credit risk calculations to projected movements in the balance sheet and ties projections of model-driven market RWAs to the macroeconomic and market variables included in the forecast.



Forecasting Methodologies – Supervisory Severely Adverse Scenario (3 of 3)

Market and Credit Risk Stress Losses

- Stress losses on the Firm's mark-to-market trading and counterparty risk portfolios are estimated by applying the Supervisory Severely Adverse Scenario global market shock.
- Losses for counterparty default are computed by applying the prescribed shocks and internally modeled recovery rate to the
 prescribed set of exposures, and assuming the default of the largest counterparty. Additionally, losses arising from the impact
 of issuer defaults on trading positions are also captured.
- Default losses on corporate, commercial and residential real estate and securities-based loans are estimated using stressed
 probability-of-default, loss-given-default and exposure-at-default under the Supervisory Severely Adverse Scenario.
 Additionally, mark-to-market stress losses are calculated on loans held for sale and loans carried at fair value, and changes in
 allowance for credit loss are projected under the CECL standard for loans held for investment.

Capital Position

• The Firm's capital position is projected by aggregating revenue and loss estimates as outlined above and deriving their respective impacts on the levels of Common Equity Tier 1 Capital, Tier 1 Capital and Total Capital on a quarterly basis over the nine-quarter forecast horizon.