Debt Management Modeling: Update

U.S. Department of the Treasury Office of Debt Management August 1, 2006



Debt Management Model: Update

- Key Inputs:
 - Macro Variables: GDP, CPI, Deficits
 - Yields: Nominal and Real Yield Curves, Volatilities
 - Auction Calendar
- Key Policy Instrument
 - Issuance Strategy
- Key Outputs: Steady State Portfolio Characteristics
 - Mean and Variance of Interest Costs
 - Debt Turnover
 - Other portfolio characteristics
- Have developed a "beta test version" of the model



Outputs: Scenario Analysis

- Develop a baseline scenario
- Use baseline as a benchmark in consideration of alternatives
- Key parameters set to roughly match current portfolio
 - Debt/GDP ratio
 - Portfolio Composition
 - Maturity
 - Nominal versus inflation-indexed



A Few Sample Outputs from the Baseline

- Debt to GDP Ratio
- Mean Interest Cost
- Interest Cost "Smoothness"
- Interest Cost Uncertainty
- Deficit Uncertainty
- Cash Balance Uncertainty

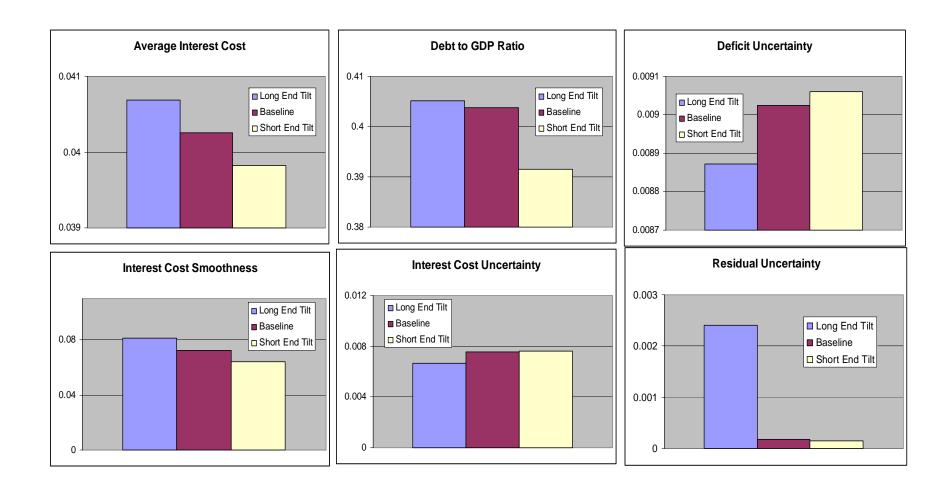


Evaluation of Alternatives

- Consider implications of alternative maturity composition of portfolio
- Hypothetical Alternative 1: Short End Tilt
- Hypothetical Alternative 2: Long End Tilt



Examples of Possible Evaluation Criteria





Other Types of Analysis

- New securities
- Changes in auction schedule
- Changes in economic parameters
- Tail Risks



Comments/Next Steps

- Continue to develop model
 - Still very preliminary
 - Consult with Board and FRBNY
 - Consult with Other Debt Issuers
- Develop standard charts for Committee's consideration

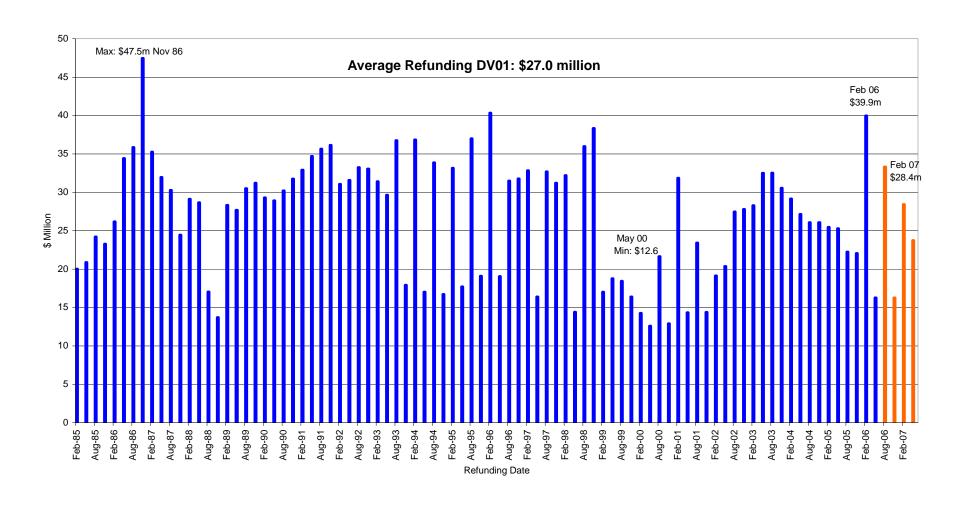


Proposal for 30-year Bond Issuance

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Interest Rate Risk (DV01 Risk) Adjusted for Inflation





Average Maturity of Issuance and Average Maturity of Treasury Outstanding Debt Assuming Quarterly 30-year Bond Issuance

