

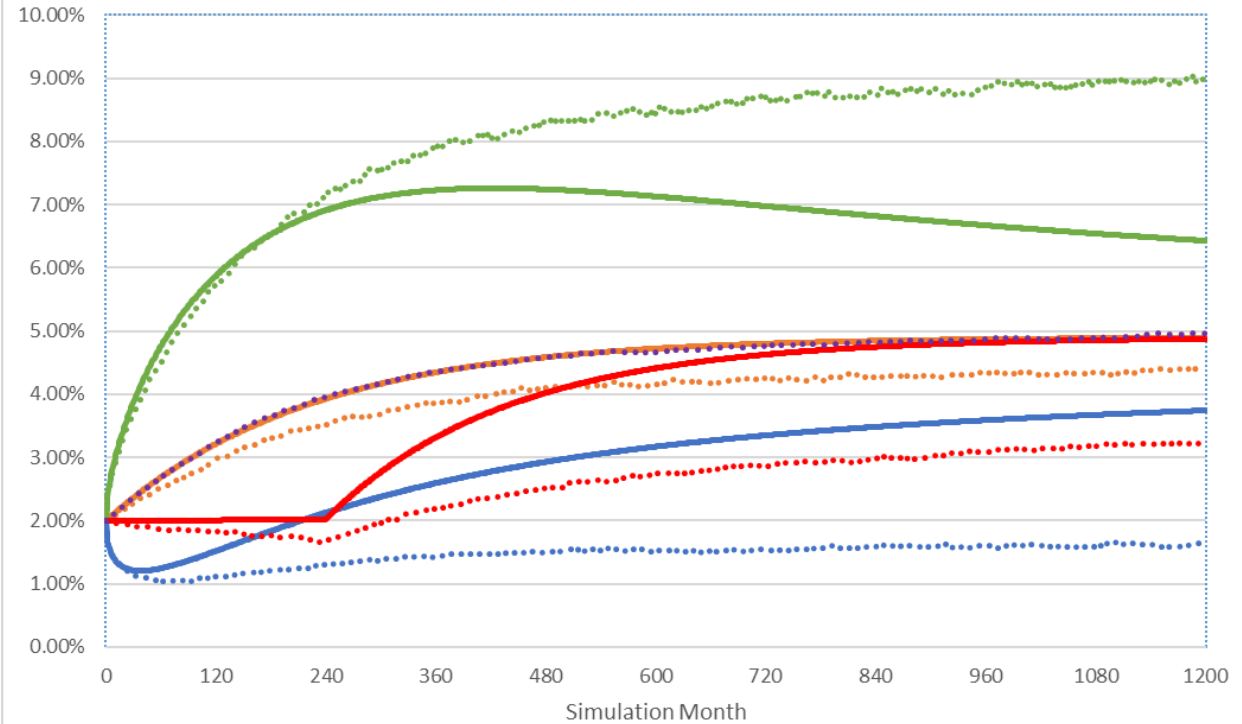
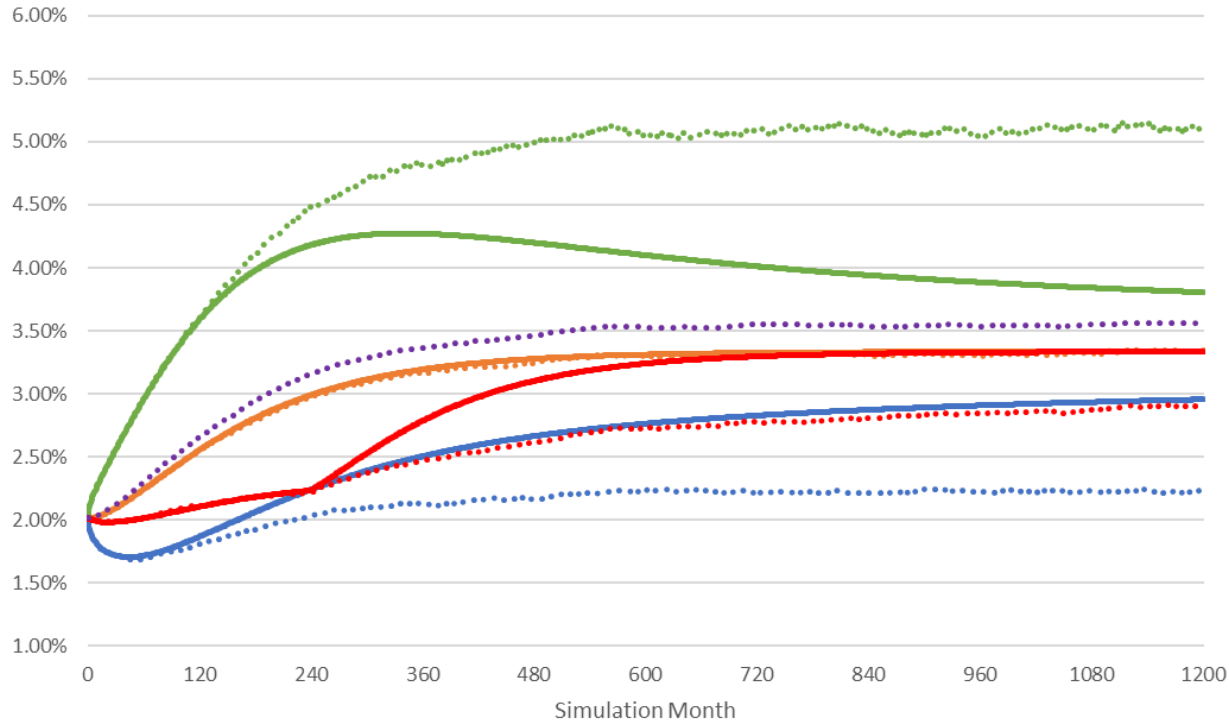
20 Year Treasury SERT Charts (Dec 2021)

The **solid** lines below reflect the existing SERT methodology

The **dotted** lines below reflect the methodology used in the field test

20 Year Treasury Spot Rate, AIRG model

20 Year Treasury Spot Rate, 3-factor CIR model w/ GFF (Field Test 1A)



- 50th percentile from 10,000 scenarios
- 90th percentile from 10,000 scenarios
- 10th percentile from 10,000 scenarios
- Deterministic targeted percentile
- Mean from 10,000 scenarios
- Baseline (zero) shocks
- 90% level of shocks
- 10% level of shocks
- Deterministic scenario shocks

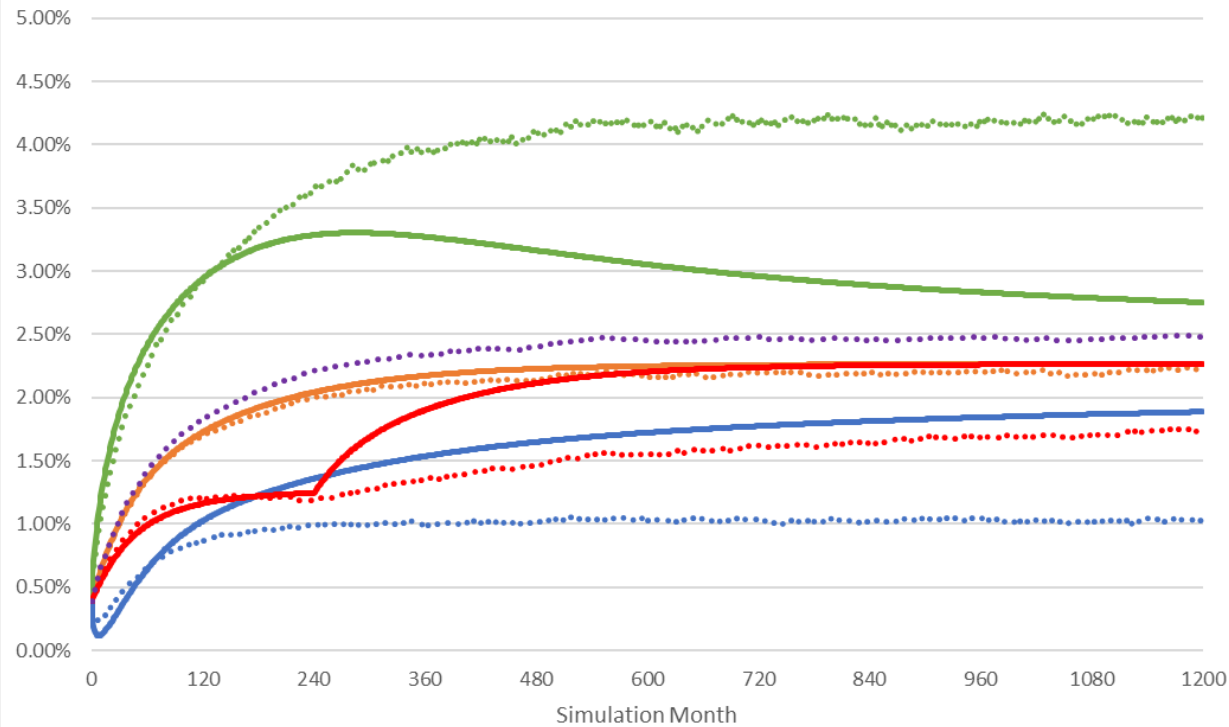
- 50th percentile from 10,000 scenarios
- 90th percentile from 10,000 scenarios
- 10th percentile from 10,000 scenarios
- Deterministic targeted percentile
- Mean from 10,000 scenarios
- Baseline (zero) shocks
- 90% level of shocks
- 10% level of shocks
- Deterministic scenario shocks

1 Year Treasury SERT Charts (Dec 2021)

The **solid** lines below reflect the existing SERT methodology

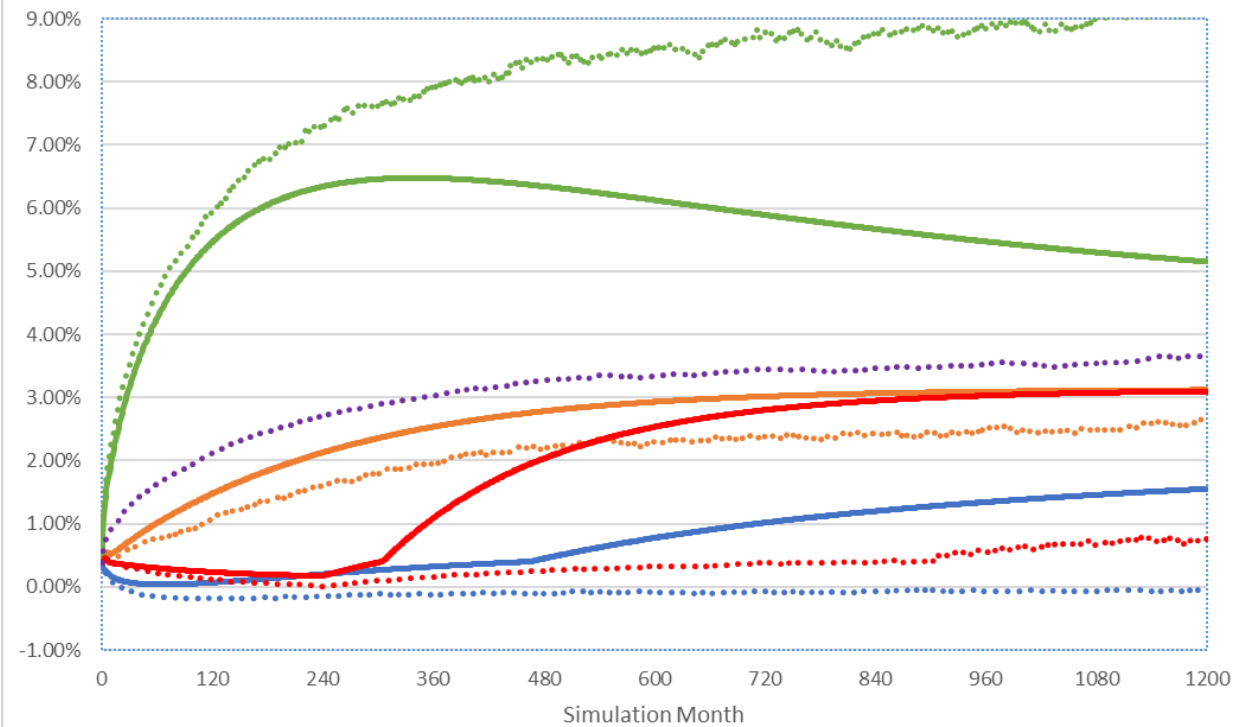
The **dotted** lines below reflect the methodology used in the field test

1 Year Treasury Spot Rate, AIRG model



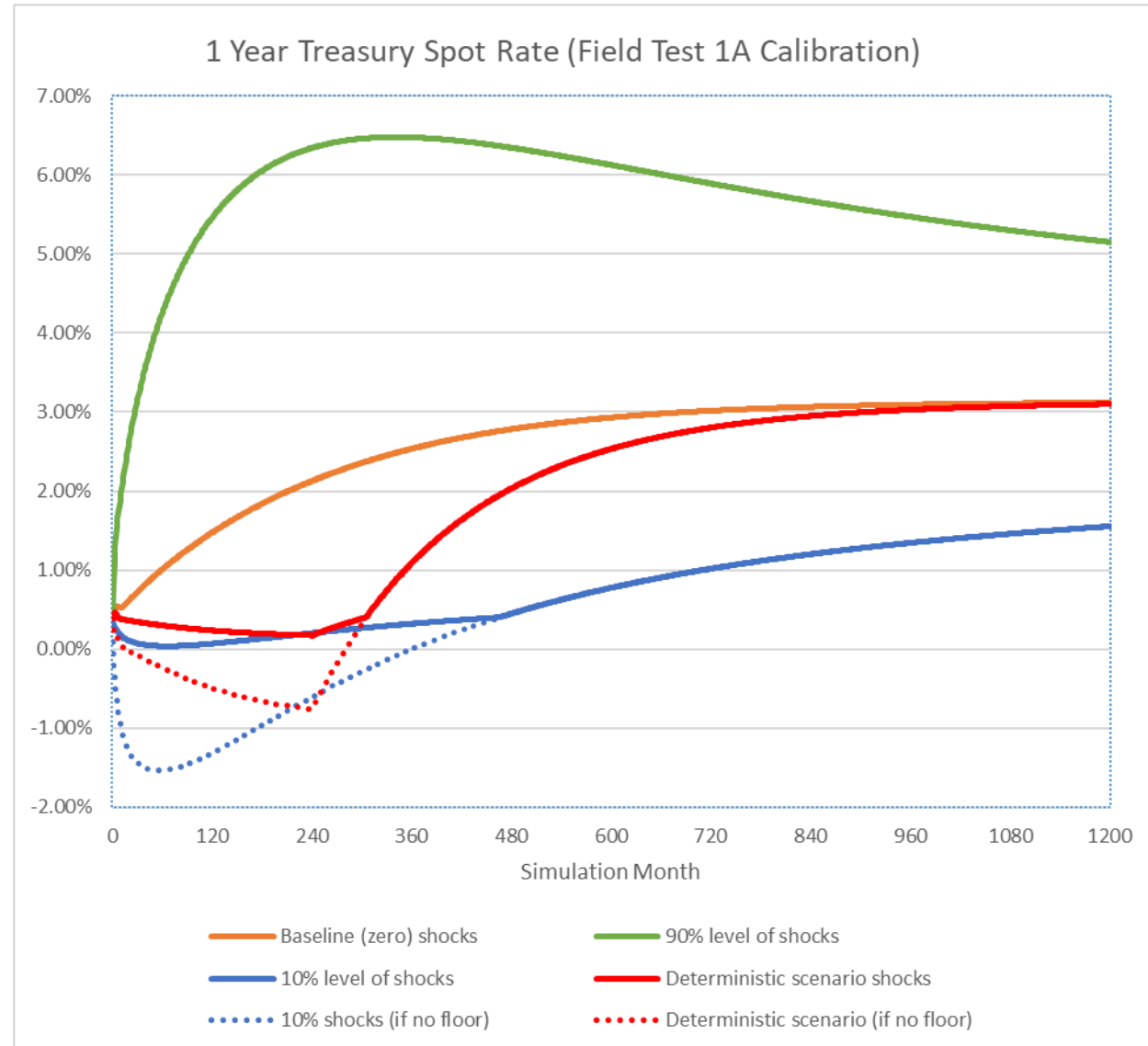
- 50th percentile from 10,000 scenarios
- 90th percentile from 10,000 scenarios
- 10th percentile from 10,000 scenarios
- Deterministic targeted percentile
- Mean from 10,000 scenarios
- Baseline (zero) shocks
- 90% level of shocks
- 10% level of shocks
- Deterministic scenario shocks

1 Year Treasury Spot Rate, 3-factor CIR model w/ GFF (Field Test 1A)

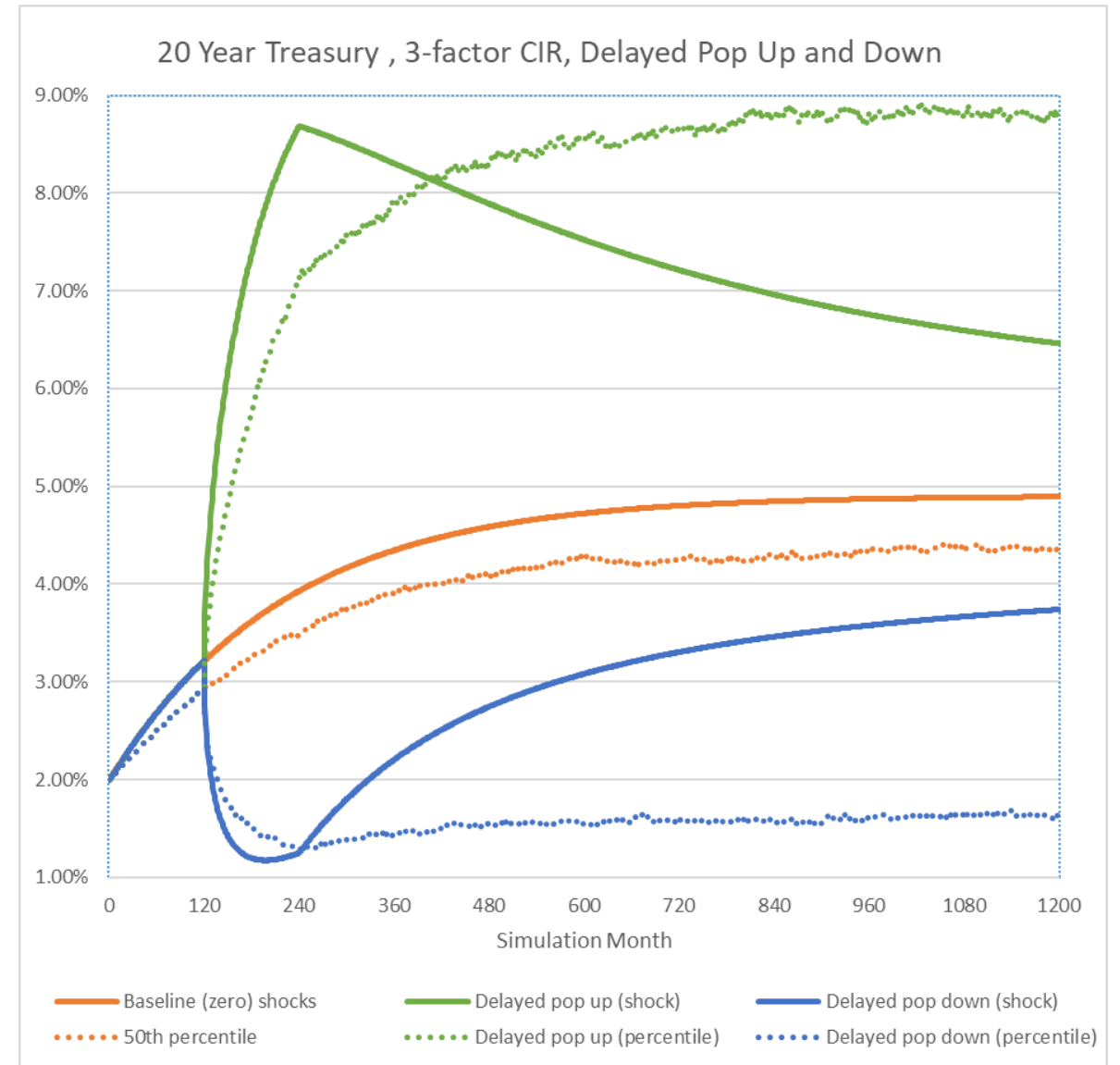
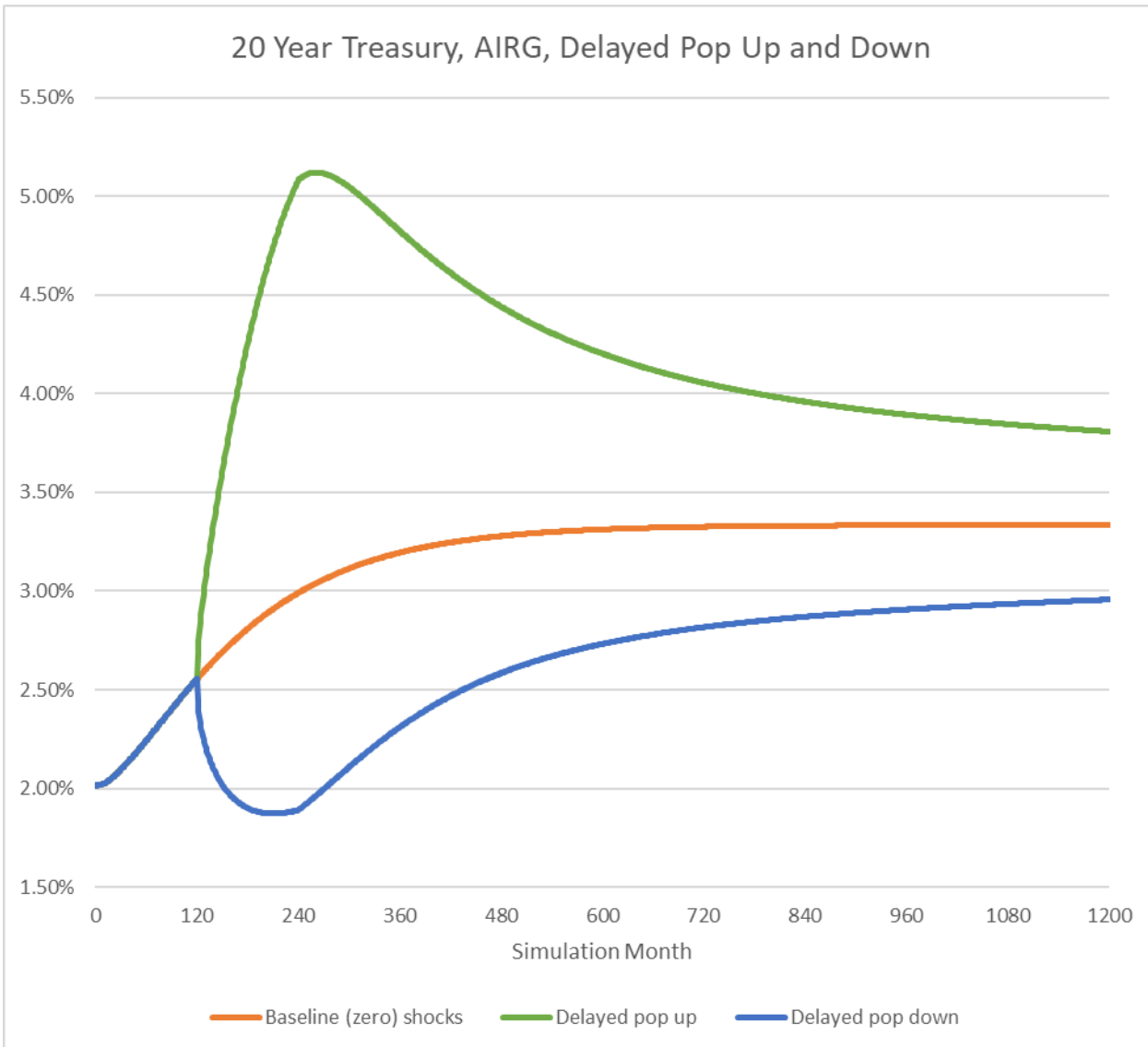


- 50th percentile from 10,000 scenarios
- 90th percentile from 10,000 scenarios
- 10th percentile from 10,000 scenarios
- Deterministic targeted percentile
- Mean from 10,000 scenarios
- Baseline (zero) shocks
- 90% level of shocks
- 10% level of shocks
- Deterministic scenario shocks

1 Year Treasury without GFF (Dec 2021)

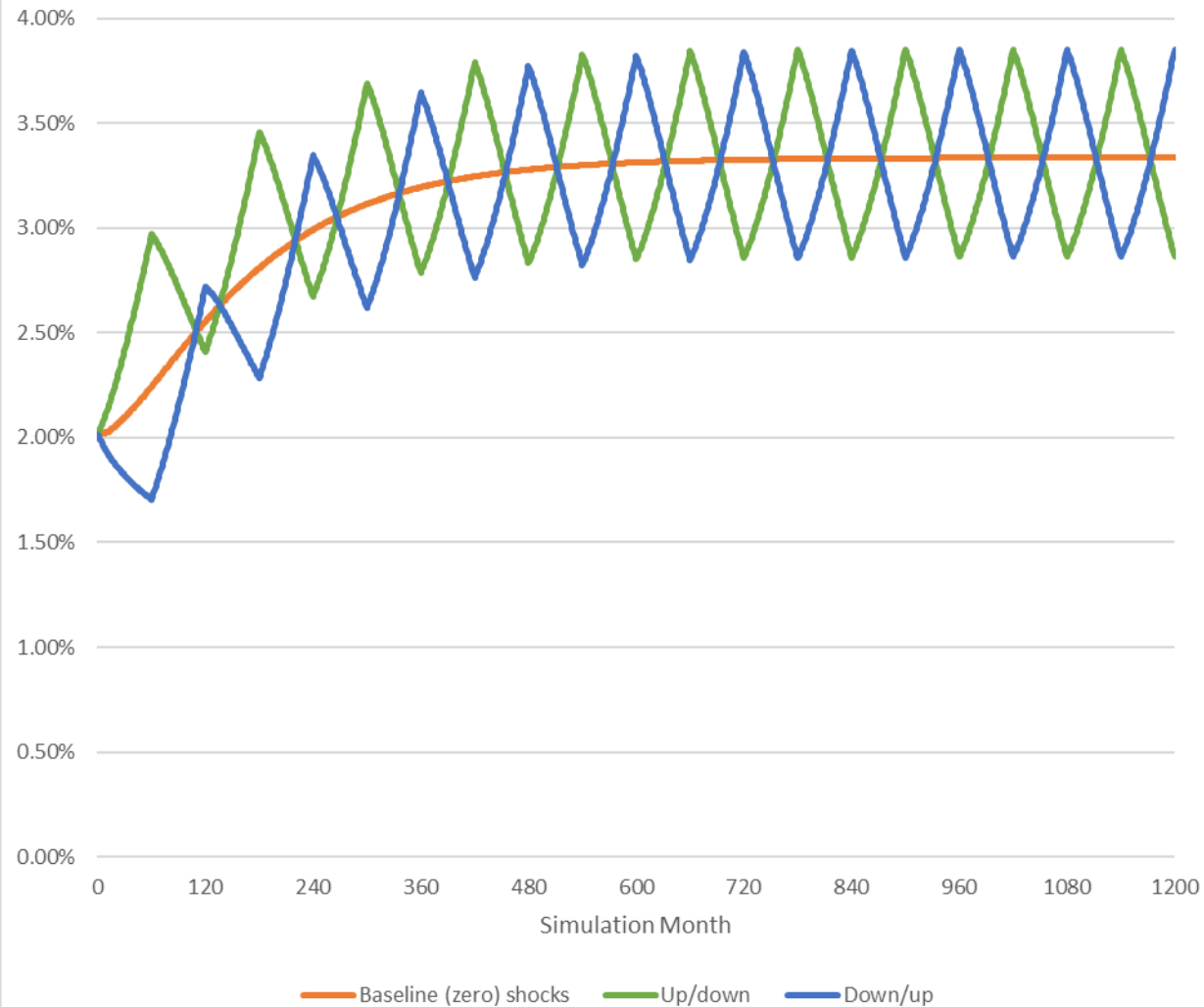


20 Year Treasury Delayed Pop Up/Down (Dec 2021)

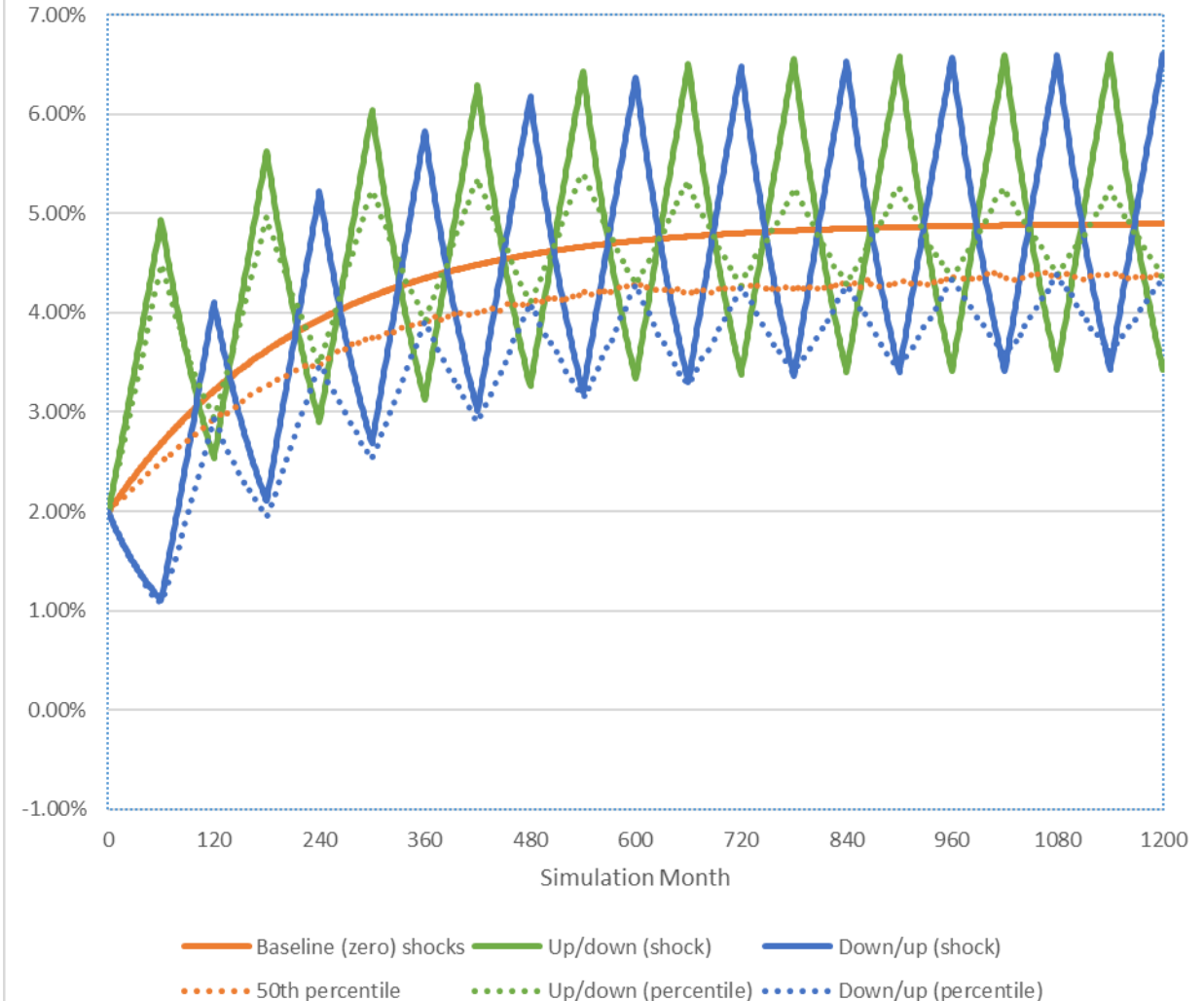


20 Year Treasury Up/Down Scenarios(Dec 2021)

20 Year Treasury, AIRG, Up/Down and Down/Up

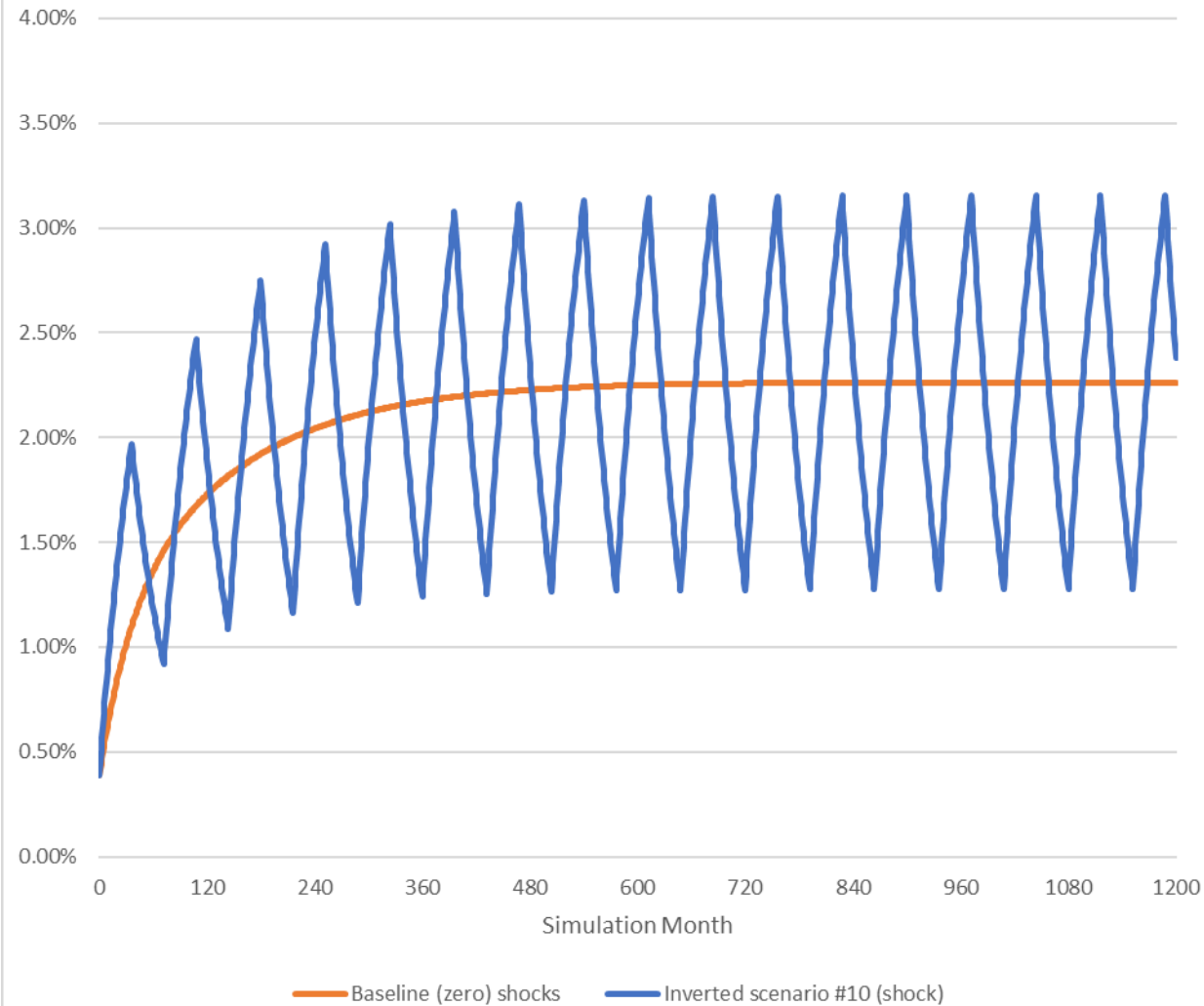


20 Year Treasury , 3-factor CIR, Up/Down and Down/Up

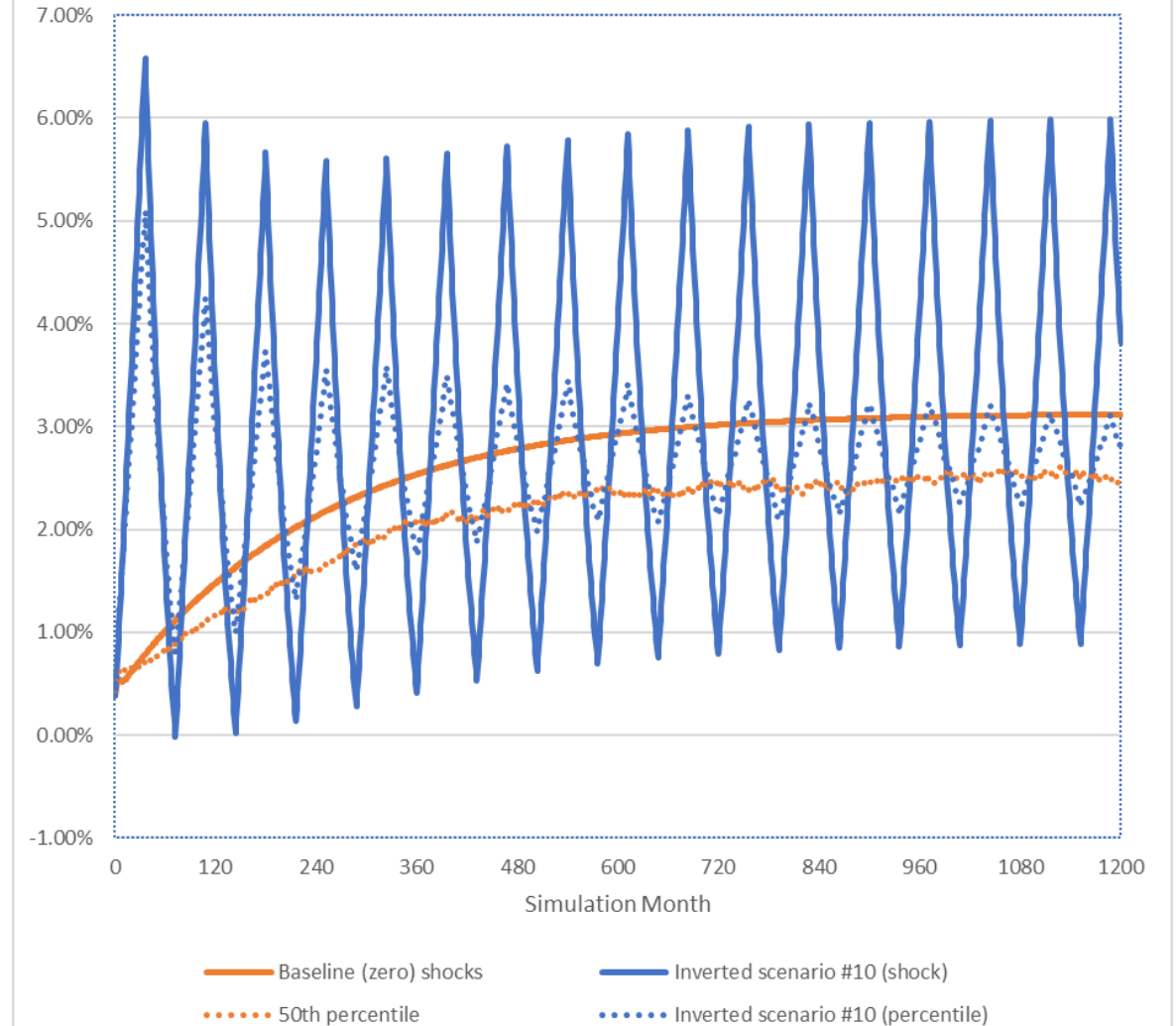


1 Year Treasury Inverted Scenario #10 (Dec 2021)

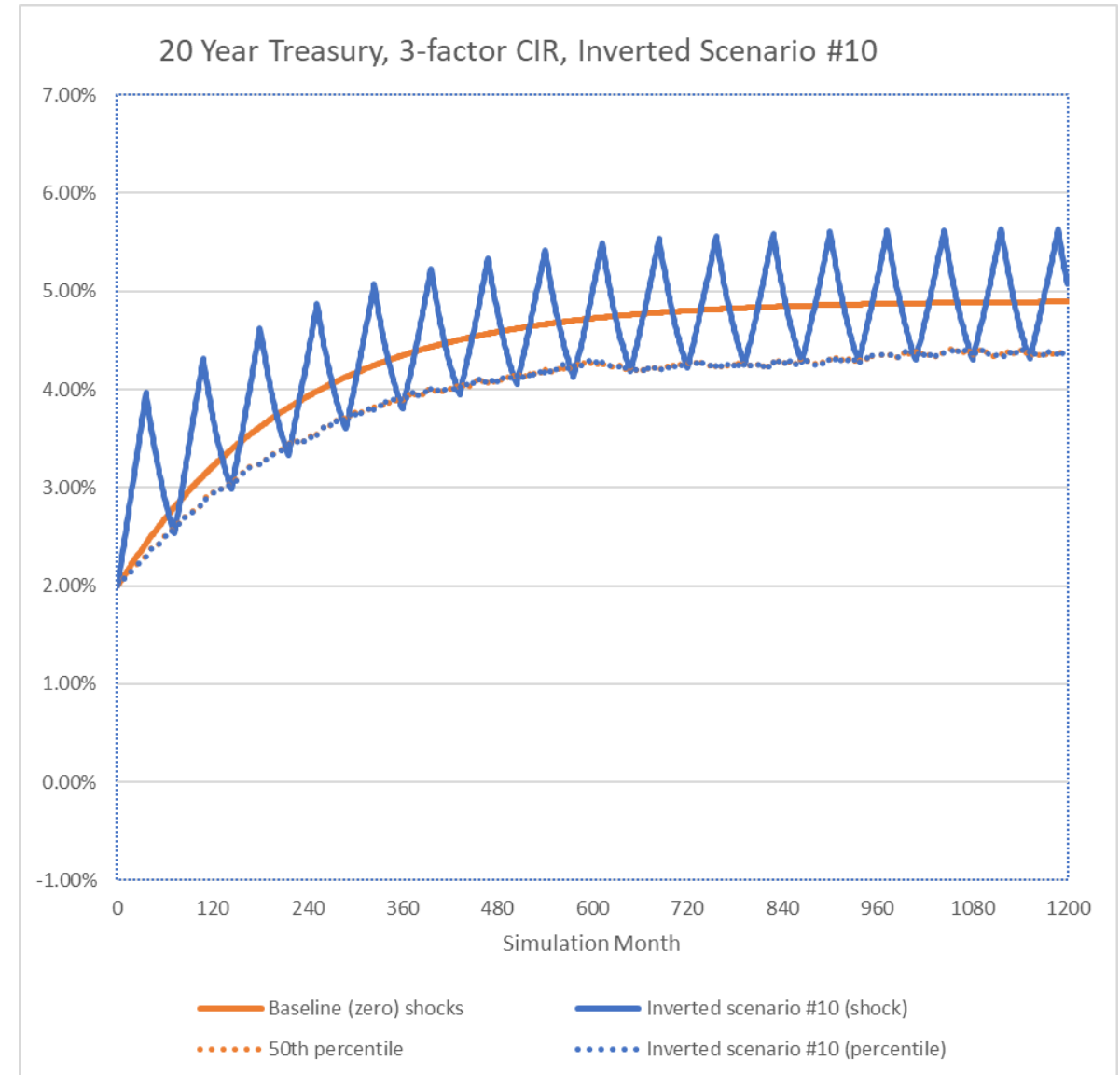
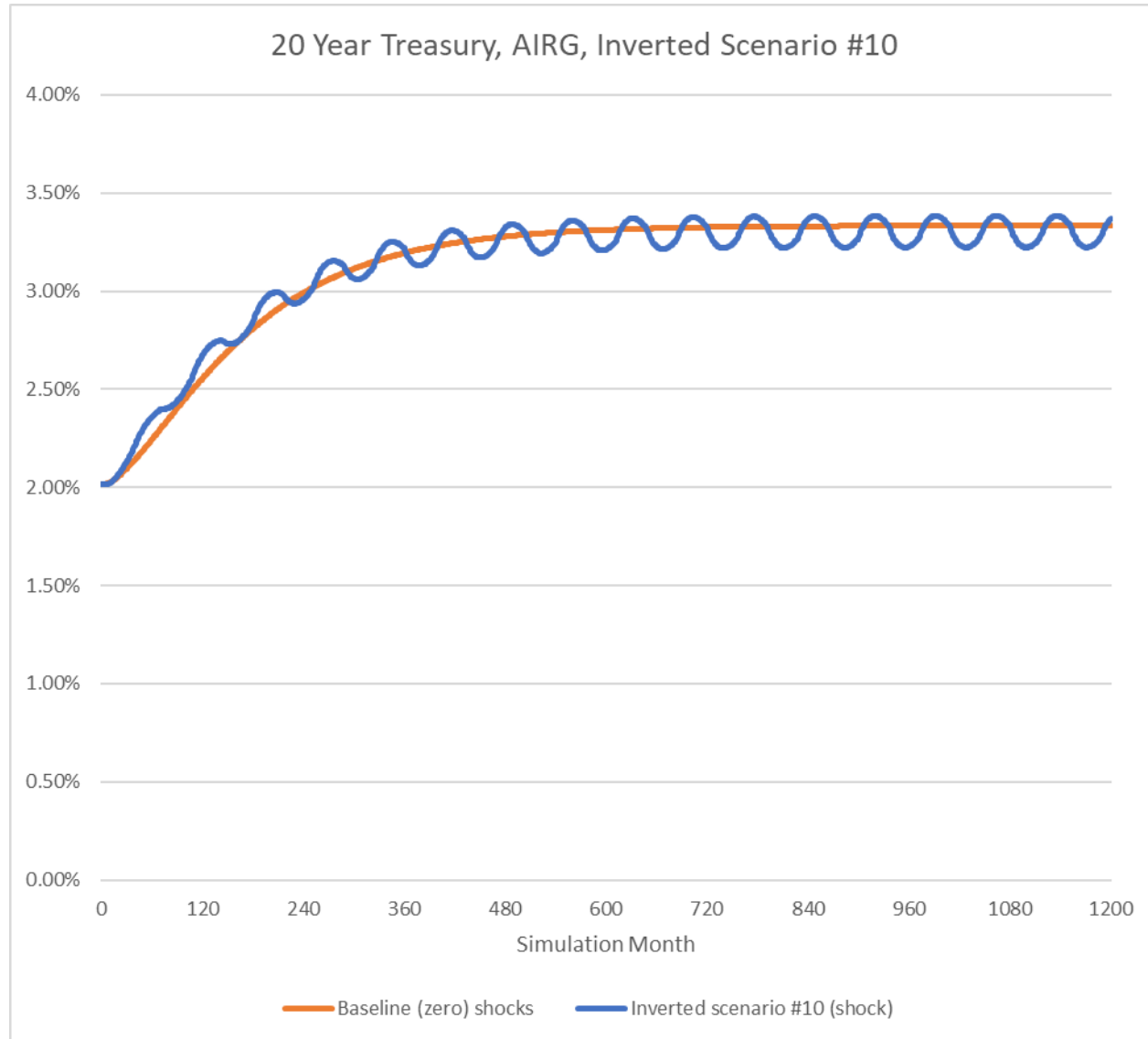
1 Year Treasury, AIRG, Inverted Scenario #10



1 Year Treasury, 3-factor CIR, Inverted Scenario #10

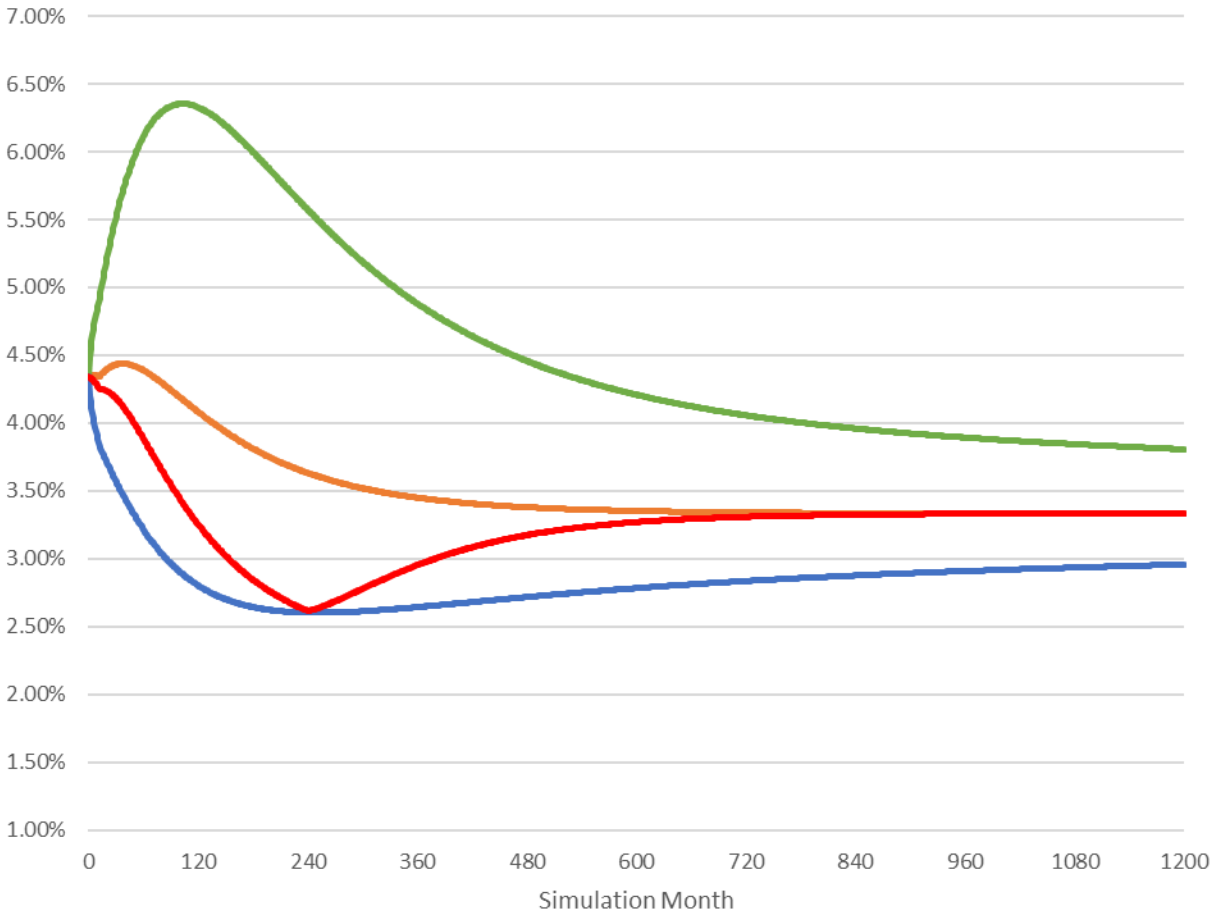


20 Year Treasury Inverted Scenario #10 (Dec 2021)



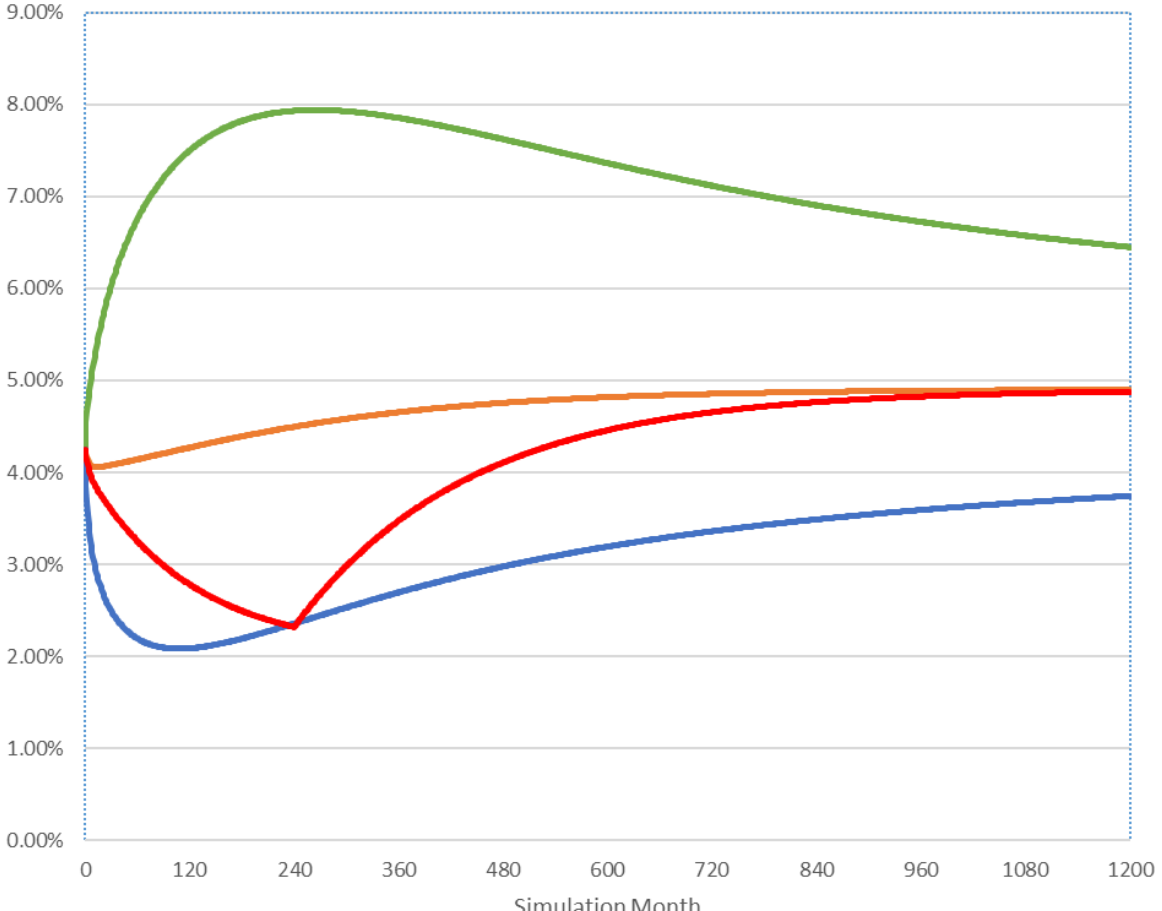
20 Year Treasury SERT Charts (Dec 2023)

20 Year Treasury Spot Rate, AIRG model



- Baseline (zero) shocks
- 10% level of shocks
- 90% level of shocks
- Deterministic scenario shocks

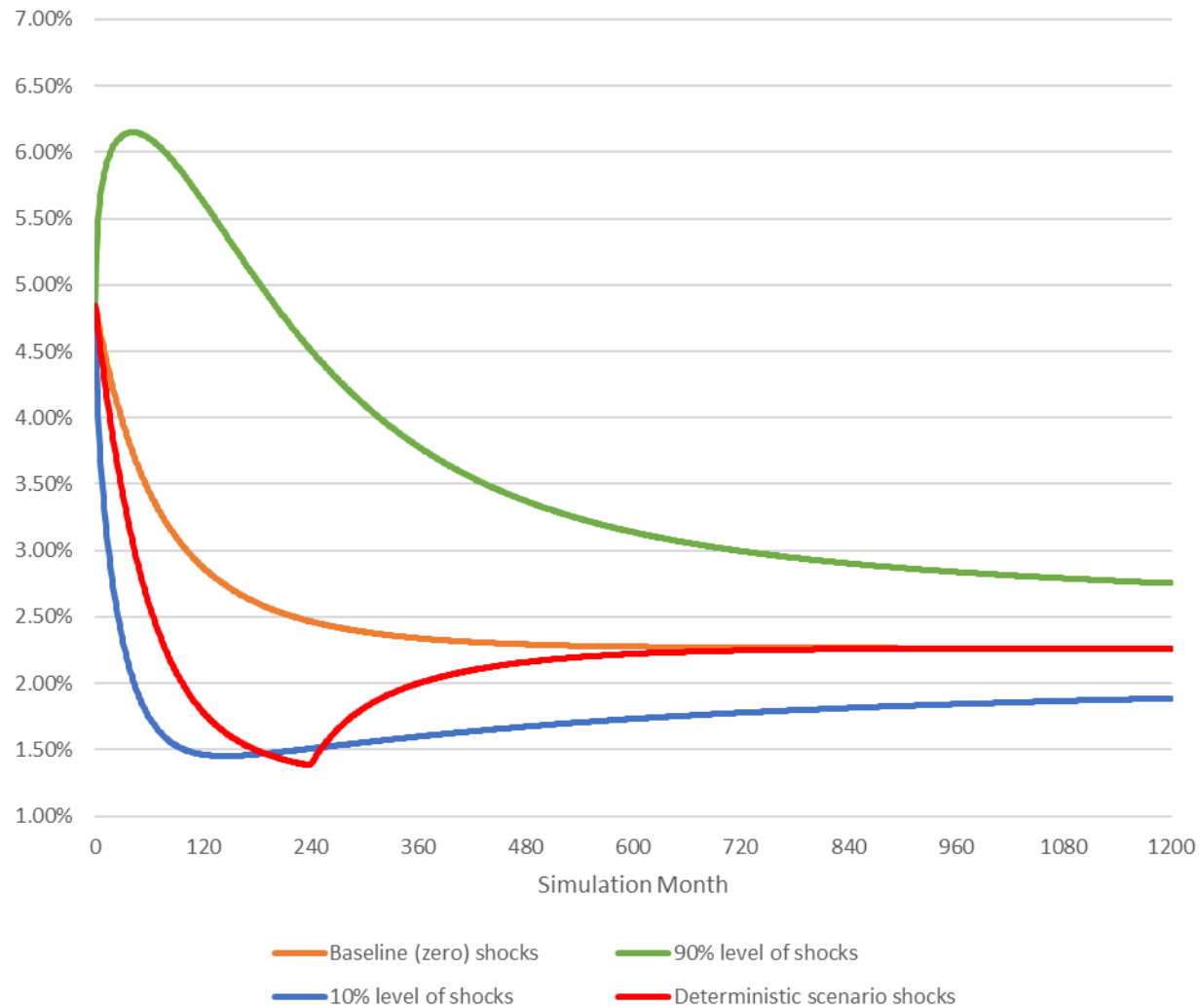
20 Year Treasury Spot Rate, 3-factor CIR w/ GFF (Field Test 1A)



- Baseline (zero) shocks
- 10% level of shocks
- 90% level of shocks
- Deterministic scenario shocks

1 Year Treasury SERT Charts (Dec 2023)

1 Year Treasury Spot Rate, AIRG model



1 Year Treasury Spot Rate, 3-factor CIR w/ GFF (Field Test 1A)

