



Draft Scenario Assumptions and Preliminary Analysis

Integrated Resources Plan Special Committee

Item 6a

October 27, 2020

Overview

- Recent Activity
- Scenario Development Update
 - Assumptions and quantification will be an iterative process
 - Feedback requested for preliminary assumptions and analysis
- Schedule and Next Steps
 - Refinement of scenarios and policy discussion

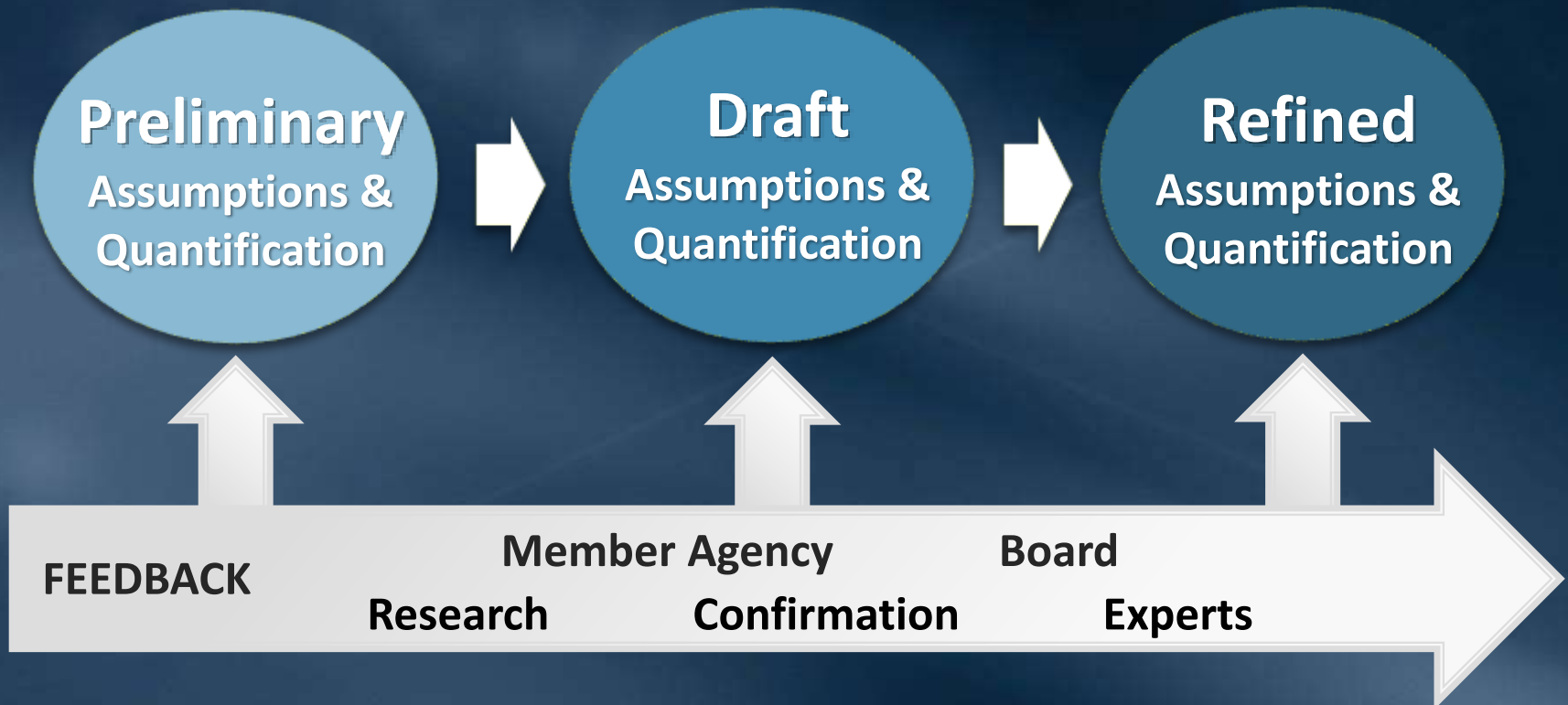
Recap of Activities

- Member Agency Collaboration
 - October 14 - Member Agency Technical Workgroup
 - October 16 – Member Agency Managers Meeting
 - Preliminary assumptions and quantification for two of the scenarios
- 2015 IRP Retrospective Report

Outreach

- Timing for Next Stakeholder Outreach
 - Provide time to develop and refine scenarios with member agencies and Board
 - First quarter 2021
- Objectives
 - Obtain feedback on scenarios that have been reviewed by Member Agencies and Board
 - Relay stakeholder feedback to Board

Scenario Assumptions and Quantification Iterative Approach



IRP Schedule



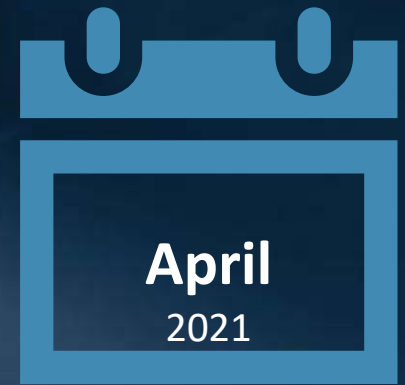
STEP 2
Construct
Scenarios



STEP 3
Develop
Resource Mix



STEP 4
Develop
Adaptive
Management
Approach



Draft IRP
Report

IRP Schedule



STEP 2 Construct Scenarios

MEMBER AGENCIES

October

- Focus on Local Supplies and Retail Demand assumptions

November

- Imported Supply assumptions
- Feedback on Draft Gap Analysis

December

- Feedback on Refined Gap Analysis
- Engage with Experts

MWD BOARD

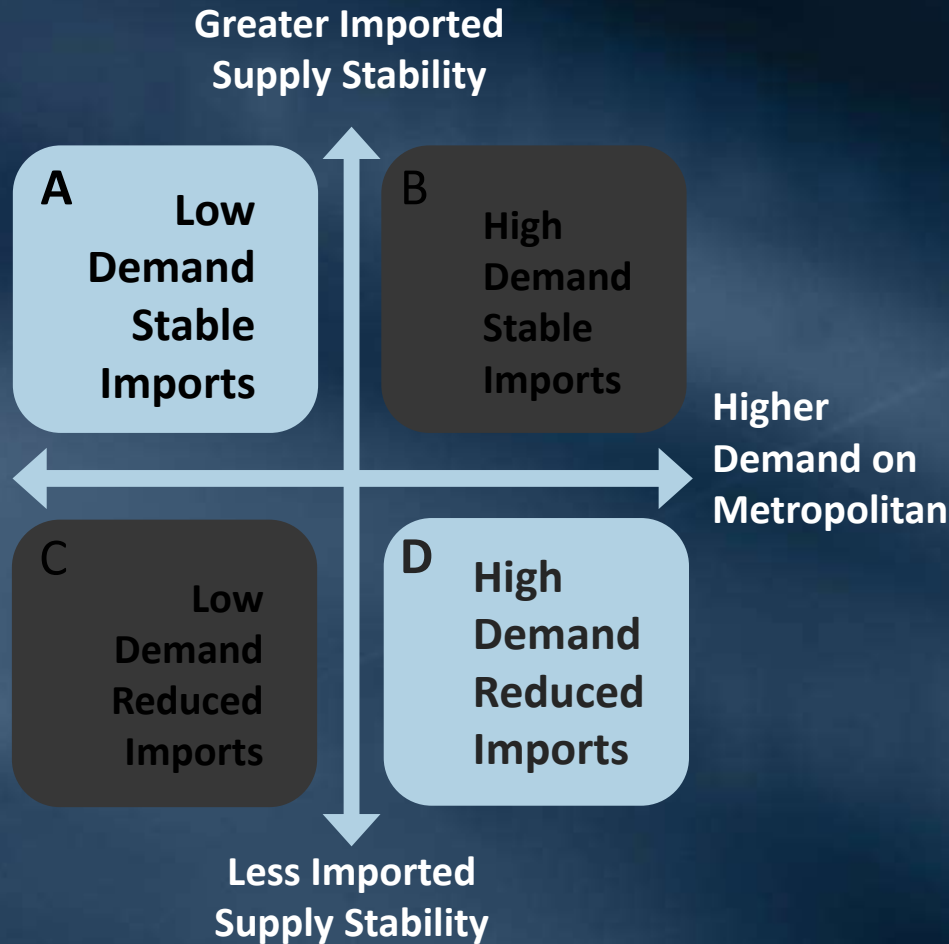
December

- Review Draft Scenarios and Gap Analysis
- Review proposed policy questions

January

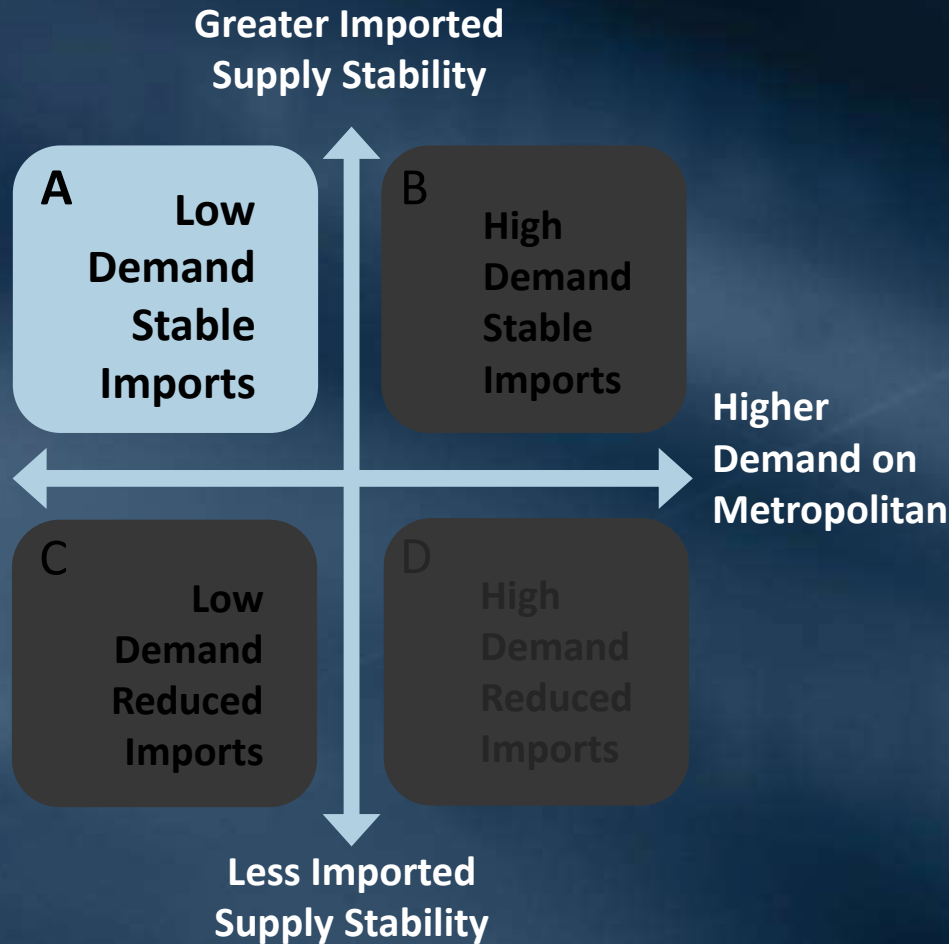
- Continue policy discussion based on Refined Gap Analyses
- Engage with Experts

Progress to date



- Draft Scenario Assumptions
- Focus on Retail Demand and Local Supply

Assumptions for Scenario A



Key Assumptions *

- Slow economic growth
- Low population growth
- Low employment rate
- Densification, multi-family dwellings
- Gradual climate impacts
- Water use ethic continues
- Local project production with stable basins

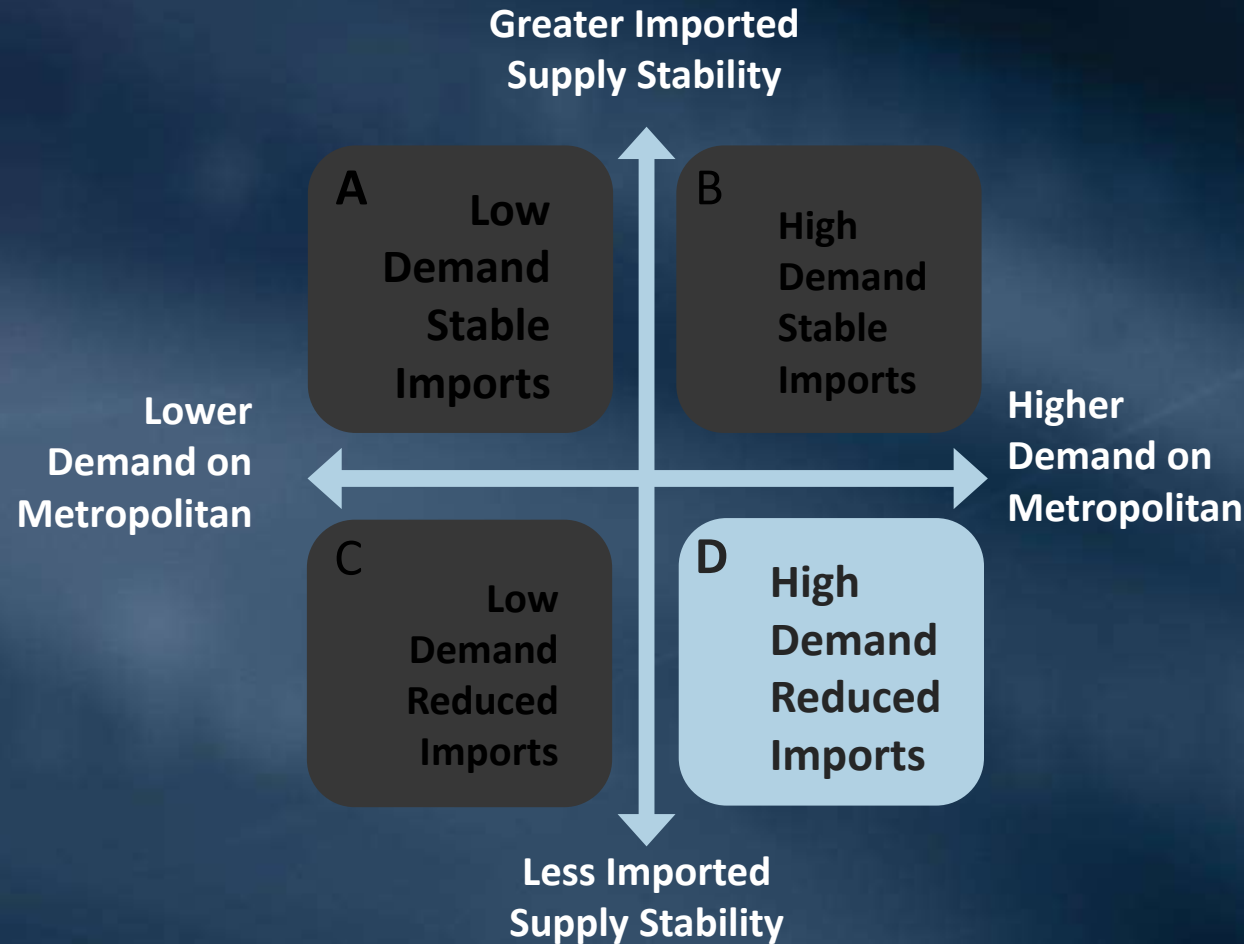
* *Before Metropolitan actions*

Assumptions for Scenario D

Key Assumptions *







- Robust economic growth
- Population growth
- High employment rate
- Sprawl, single and multi-family units
- Severe climate impacts
- Water use ethic wanes
- New projects are being developed
- Lower local project yield due to climate impacts, regulations and institutional barriers

* *Before Metropolitan actions*



Relative Impacts of Assumptions

Relative to each scenario

	SCENARIO A	SCENARIO D
Retail Demands		
Local Supply		
Imported Supply	STABLE	LESS STABLE
Demands on MWD		

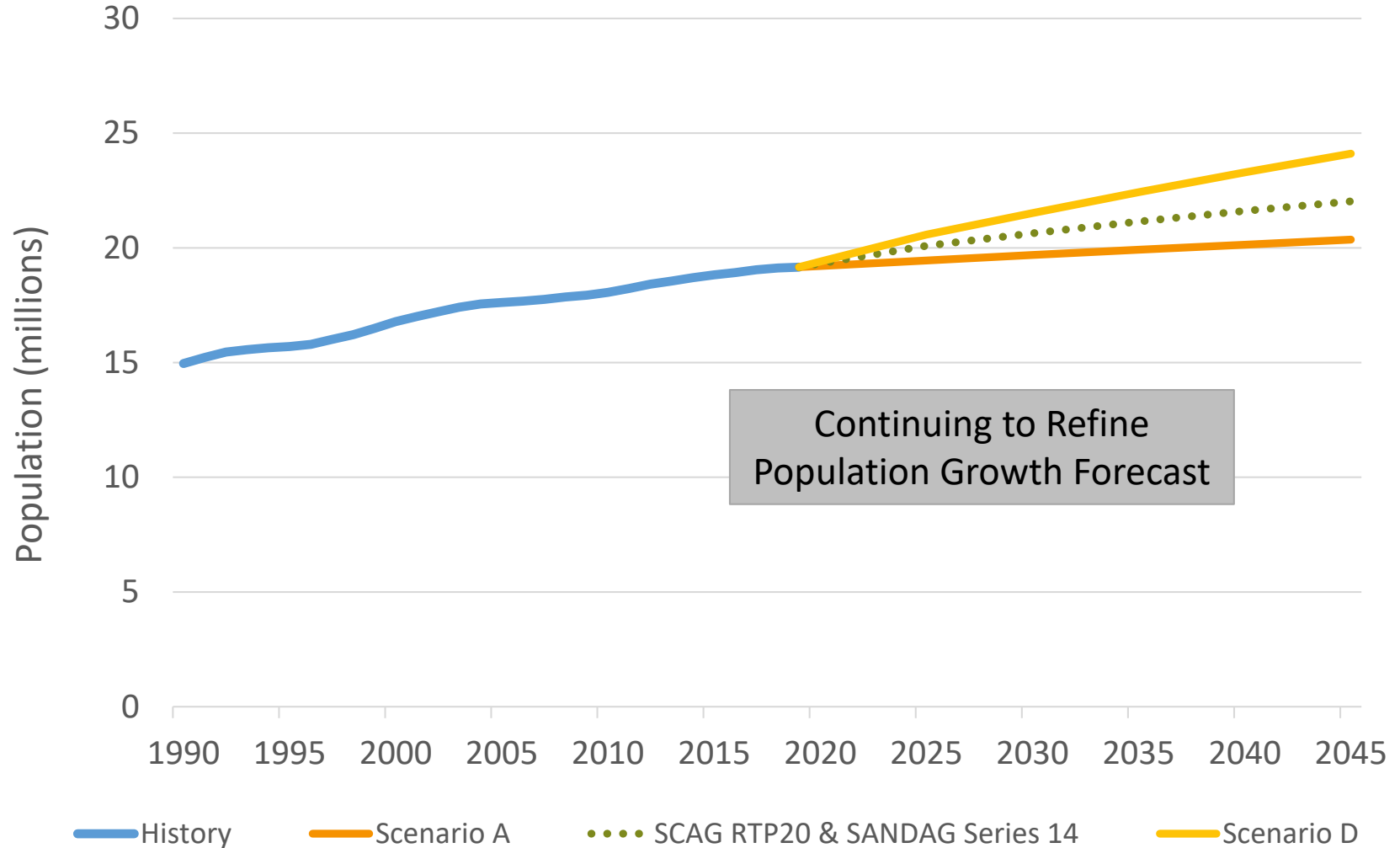
Preliminary Analysis

Quantification of Supply/Demand Links

*Results will change with input and further
refinement of assumptions*

Preliminary Analysis Results

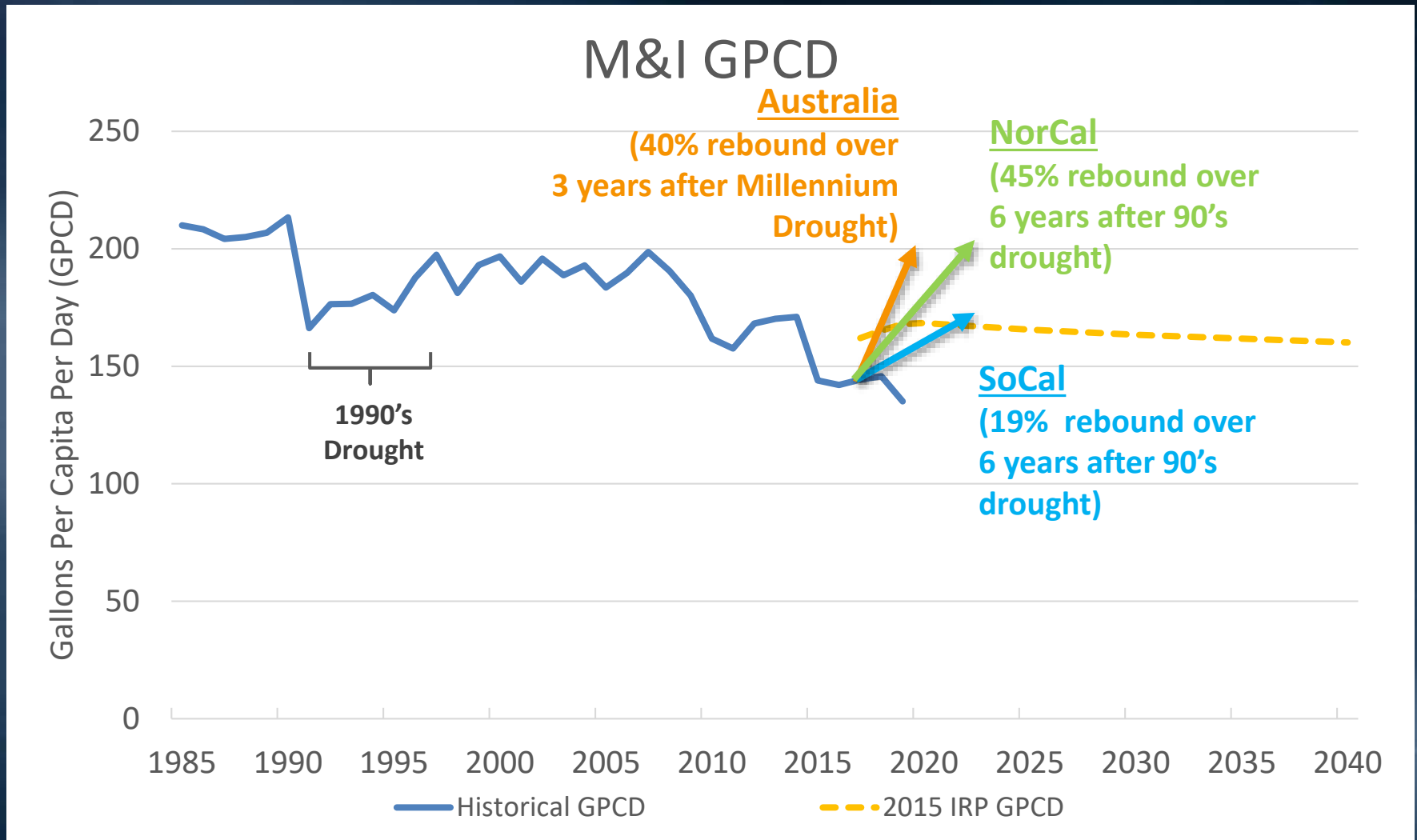
Total Population



Results will change with input and further analysis

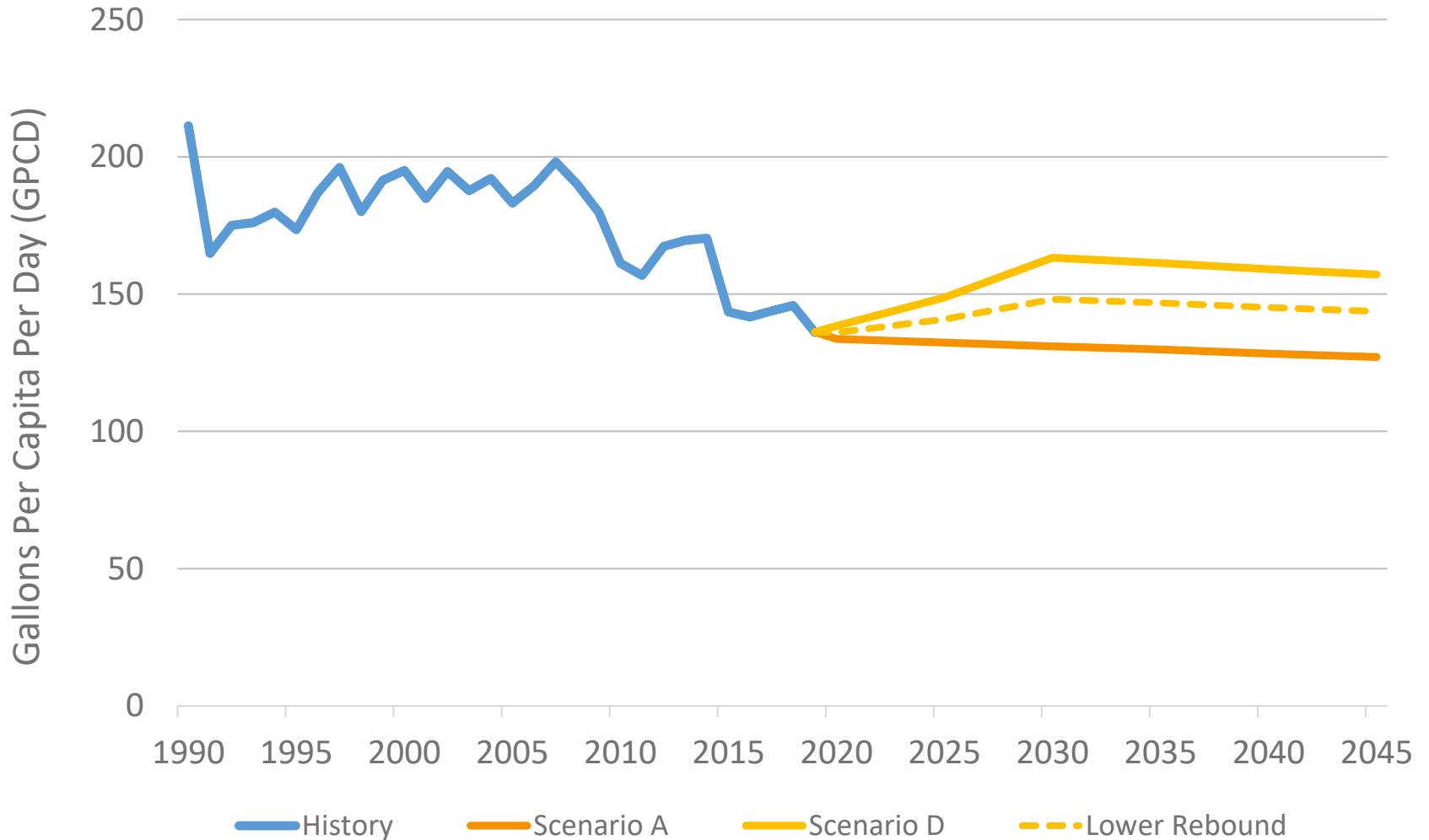
Retrospective Report

Analysis of Rebound Effect



Preliminary Analysis Results

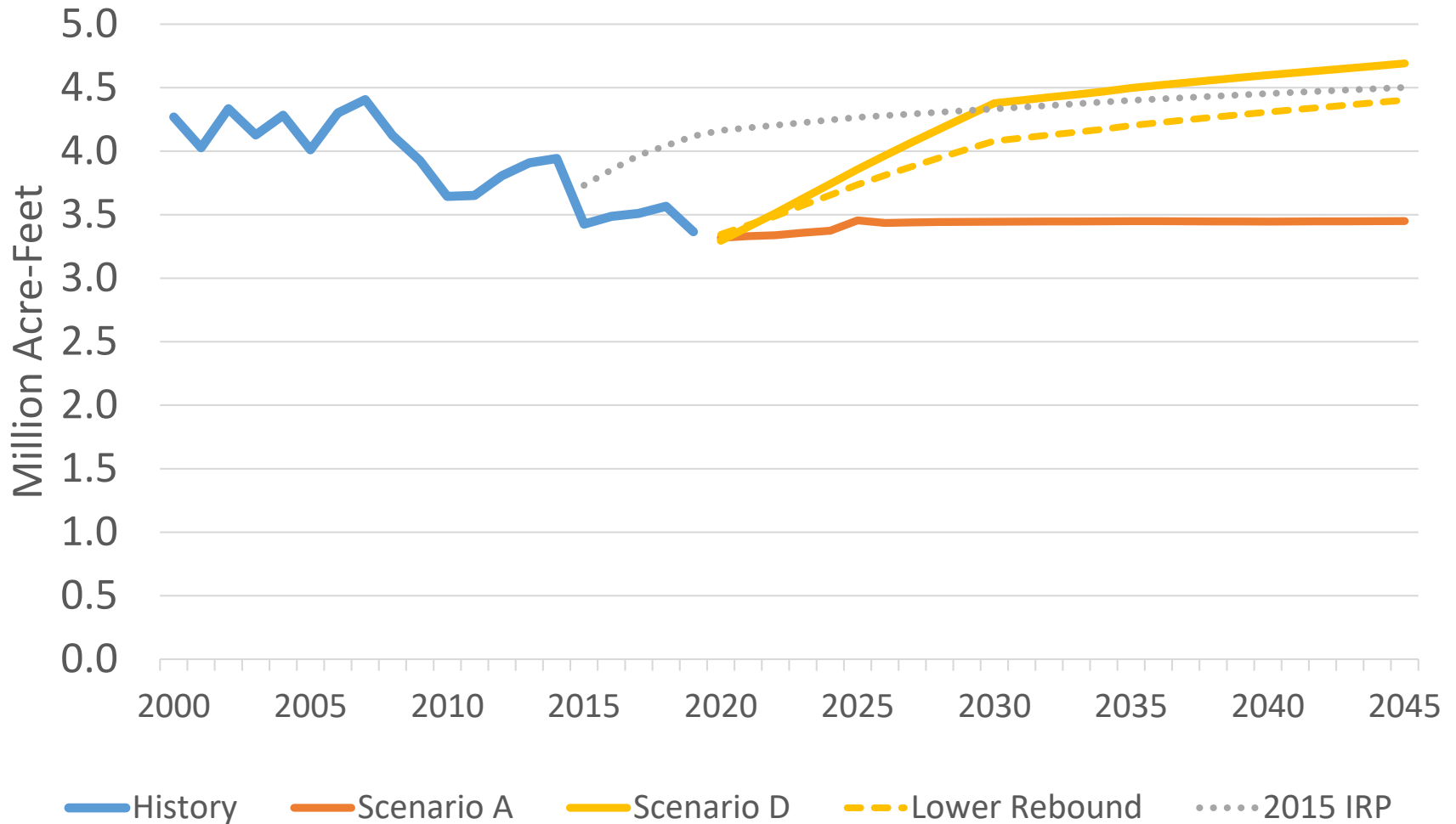
Retail M&I GPCD



Results will change with input and further analysis

Preliminary Analysis Results

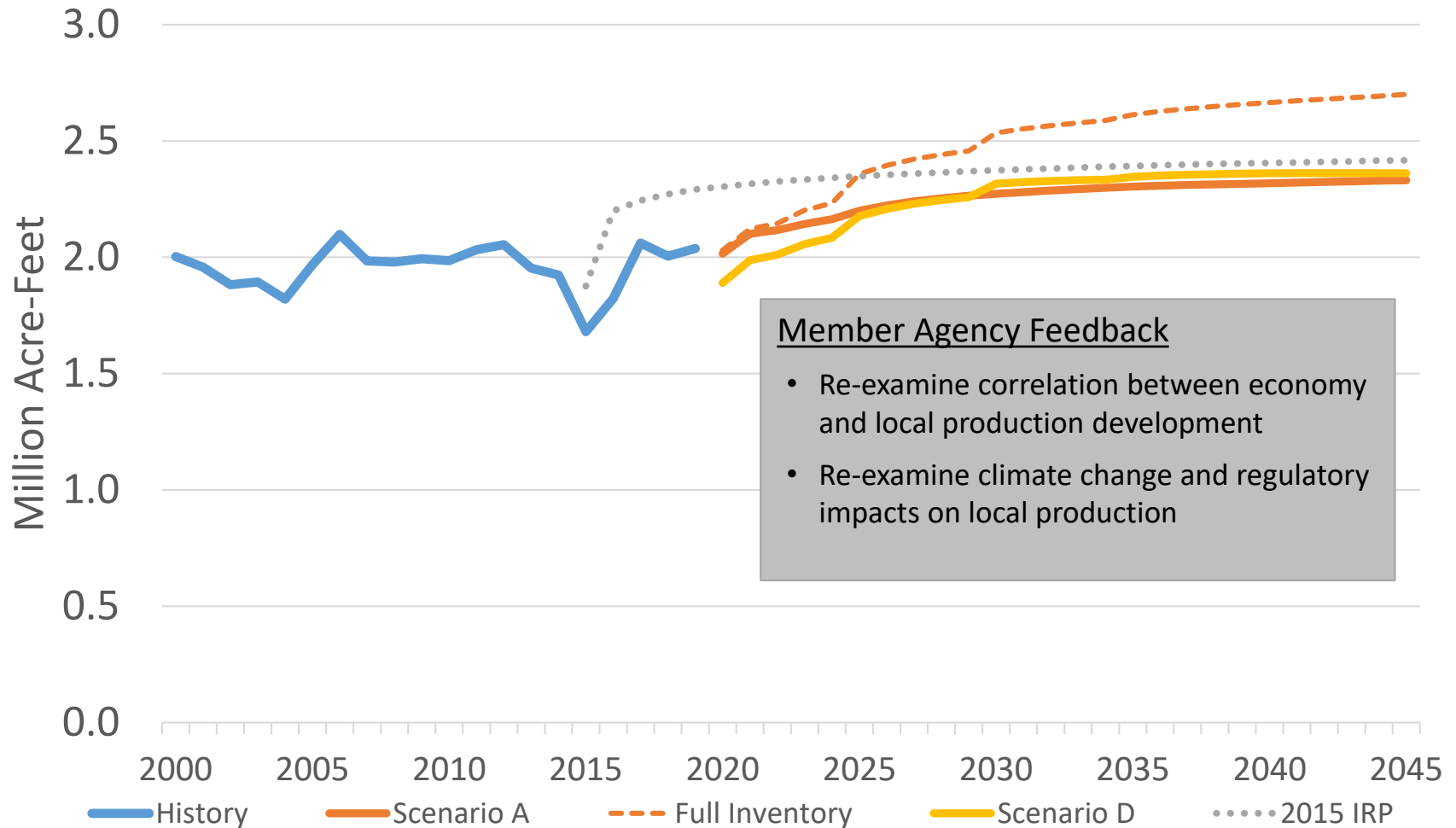
Total Demand



Results will change with input and further analysis

Preliminary Analysis Results

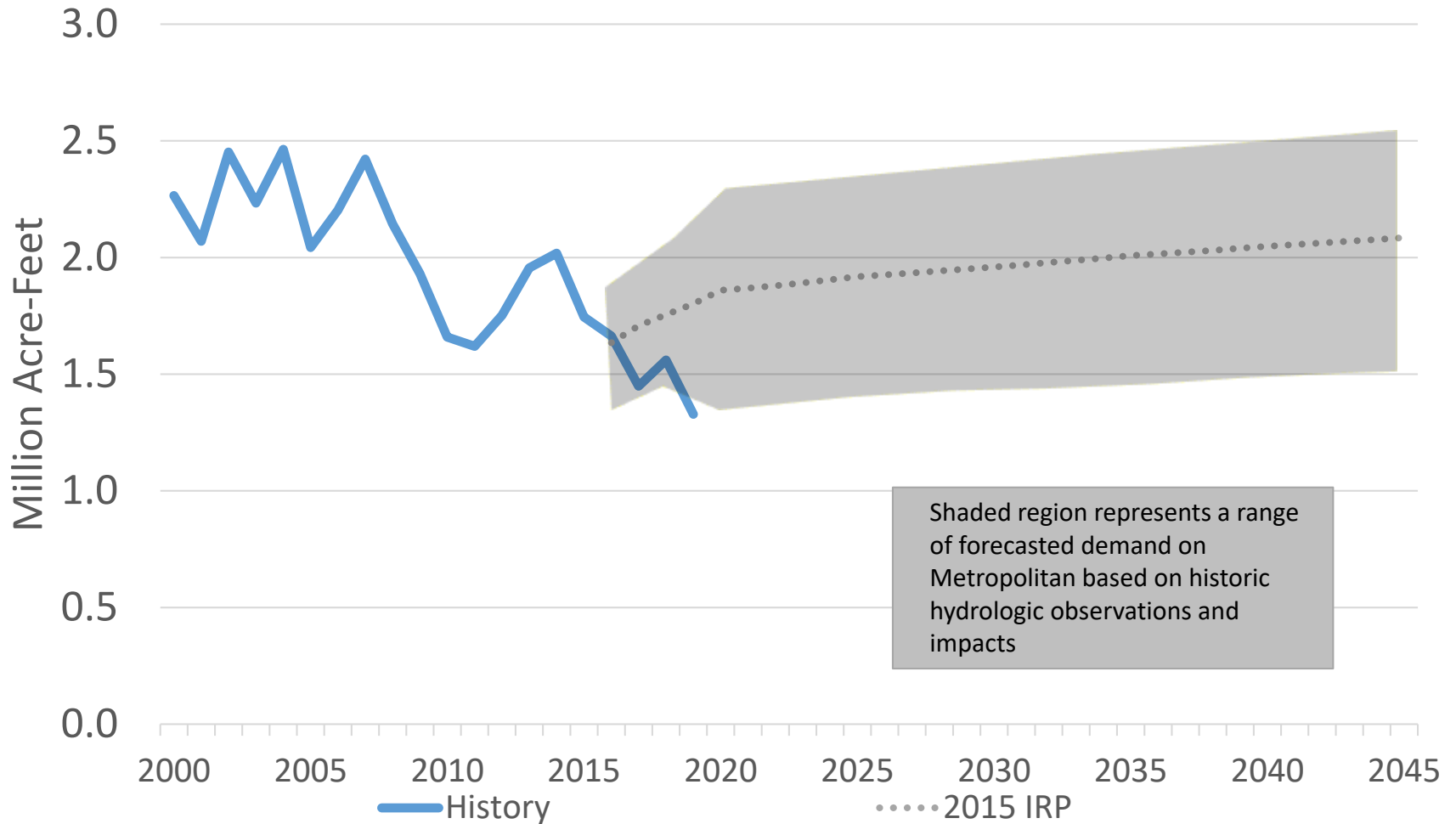
Total Local Supplies



Results will change with input and further analysis

Preliminary Analysis Results

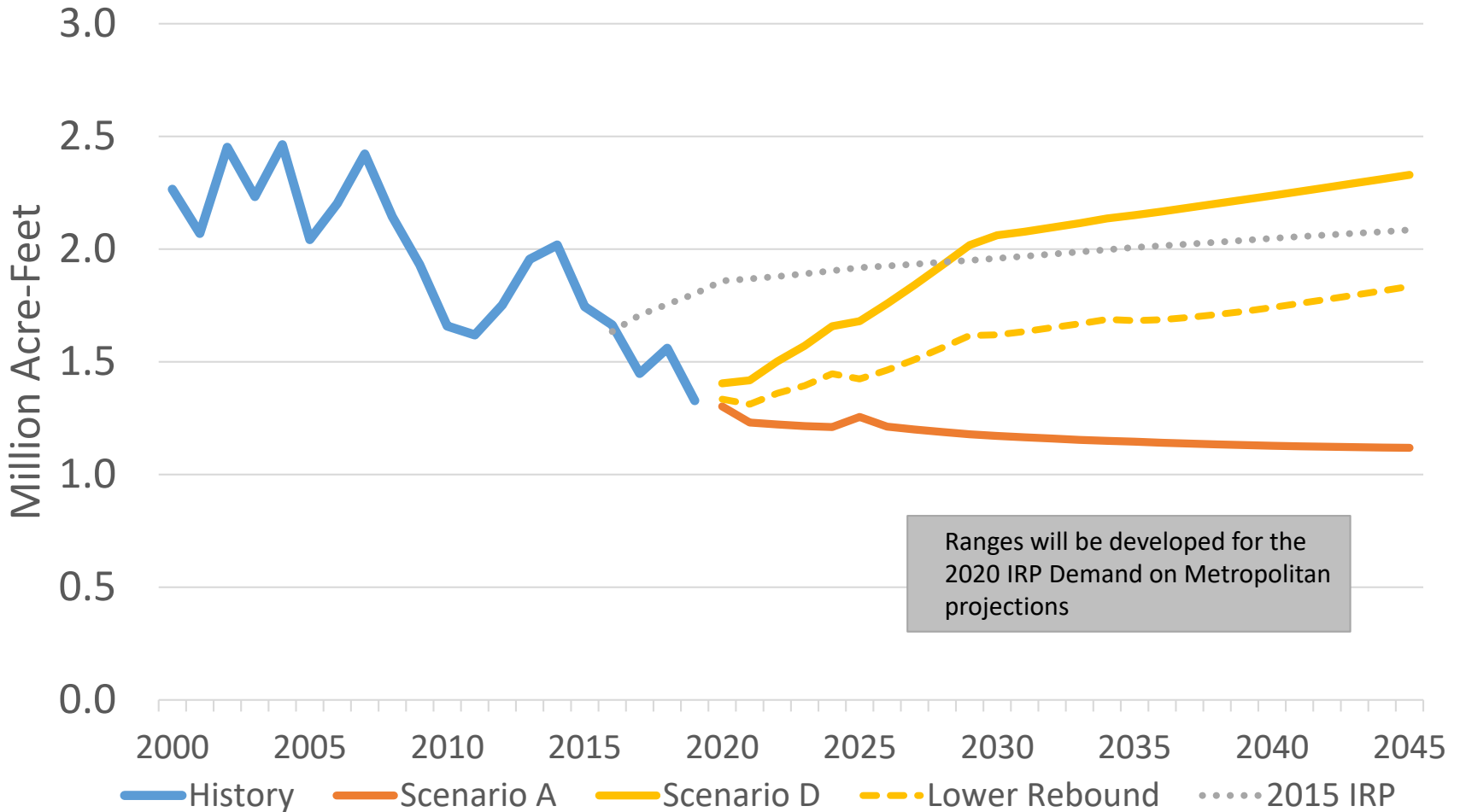
Total Net Demand on Metropolitan



Results will change with input and further analysis

Preliminary Analysis Results

Total Net Demand on Metropolitan



Results will change with input and further analysis

What's Next

- Committee Meetings for Remainder of Year
 - November: No Special IRP Committee Meeting
 - December: Special IRP Committee Meeting scheduled for second week - Review policy questions informed by Draft Gap Analysis
- Member Agency Collaboration
 - Monthly meetings as scheduled
 - Additional workgroup meetings to focus on scenario assumptions as needed
- Constructing Scenarios
 - Continue developing assumptions and conducting quantification for Member Agency review per schedule

