

# Recovery Planning Advisory Group Update



PROTECTING ARIZONA'S  
WATER SUPPLIES  
for ITS NEXT CENTURY

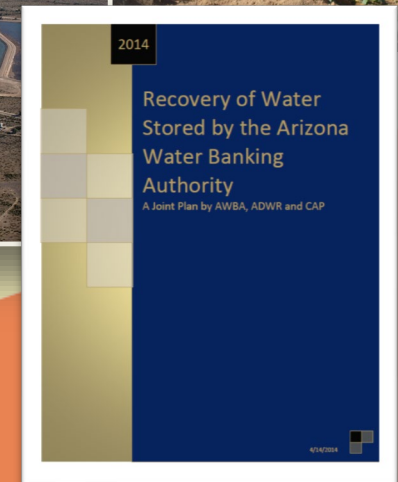
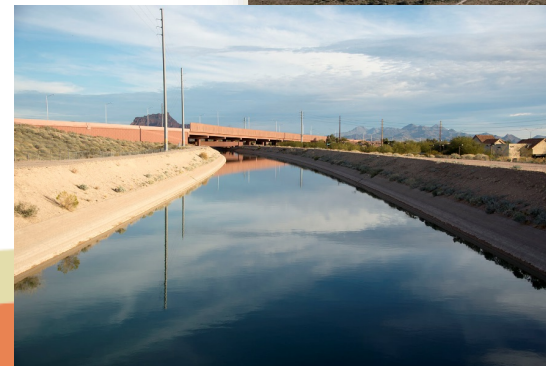


Banking Water Now  
for Arizona's Future



YOUR WATER. YOUR FUTURE.

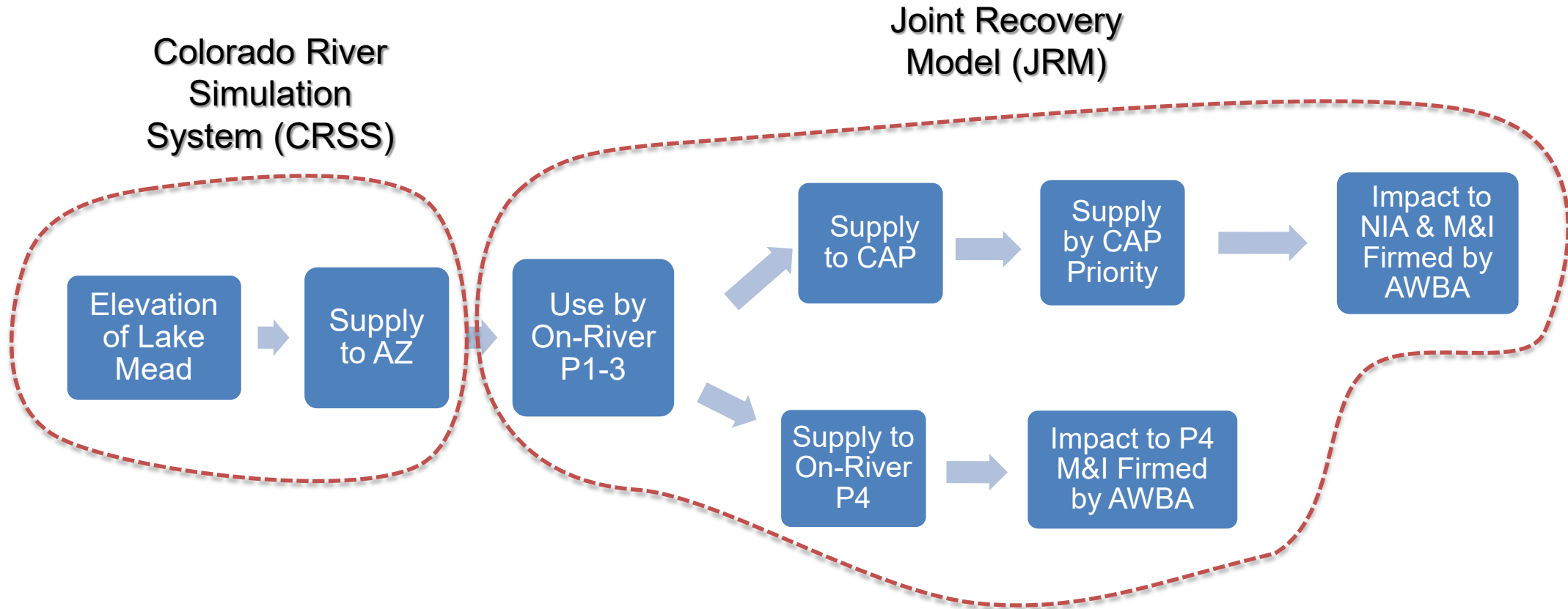
*AWBA*  
*June 17, 2020*



# RPAG Update

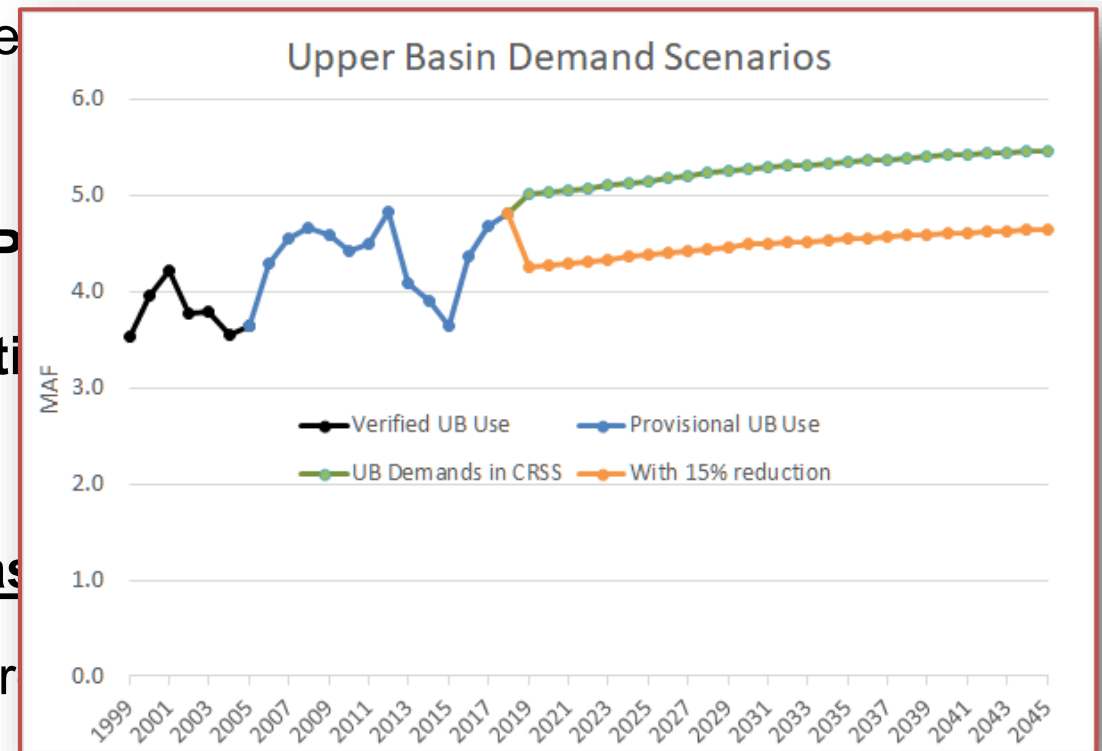
- Sections 1-4 of the Update to the 2014 Recovery Plan posted on the RPAG webpage
- RPAG met on May 19, 2020
  - Focused on “Timing and Magnitude of Recovery”
    - Draft Section 5 distributed to the RPAG
    - Reviewed modeling methods, assumptions and results

# Overview of Recovery Modeling



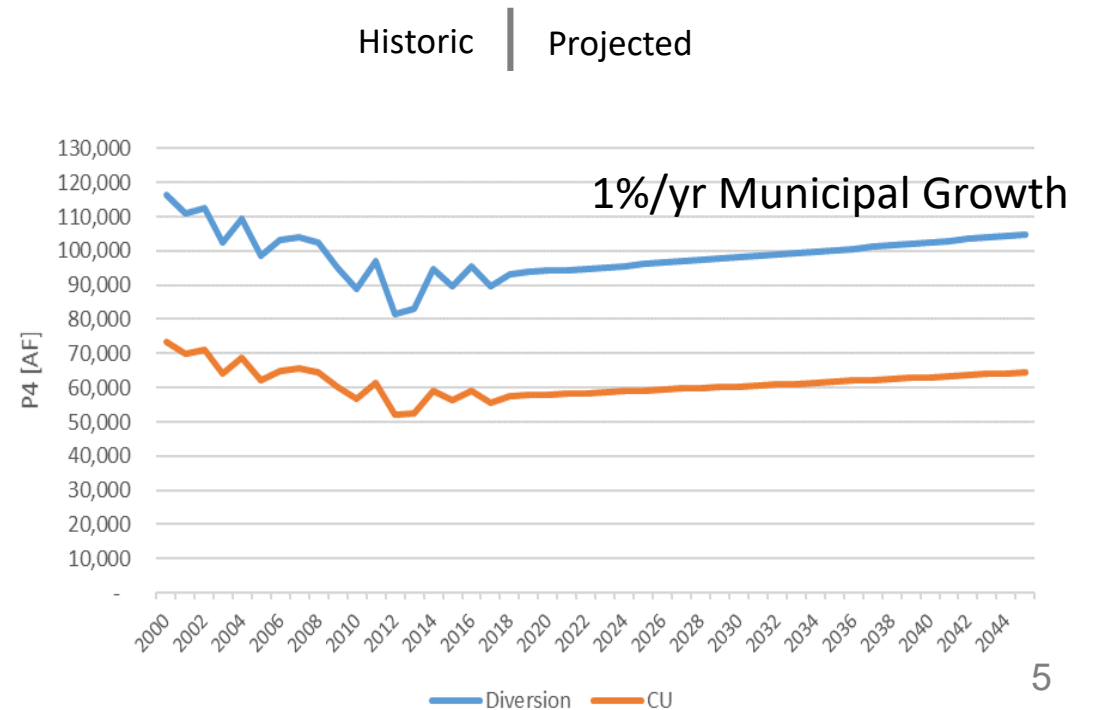
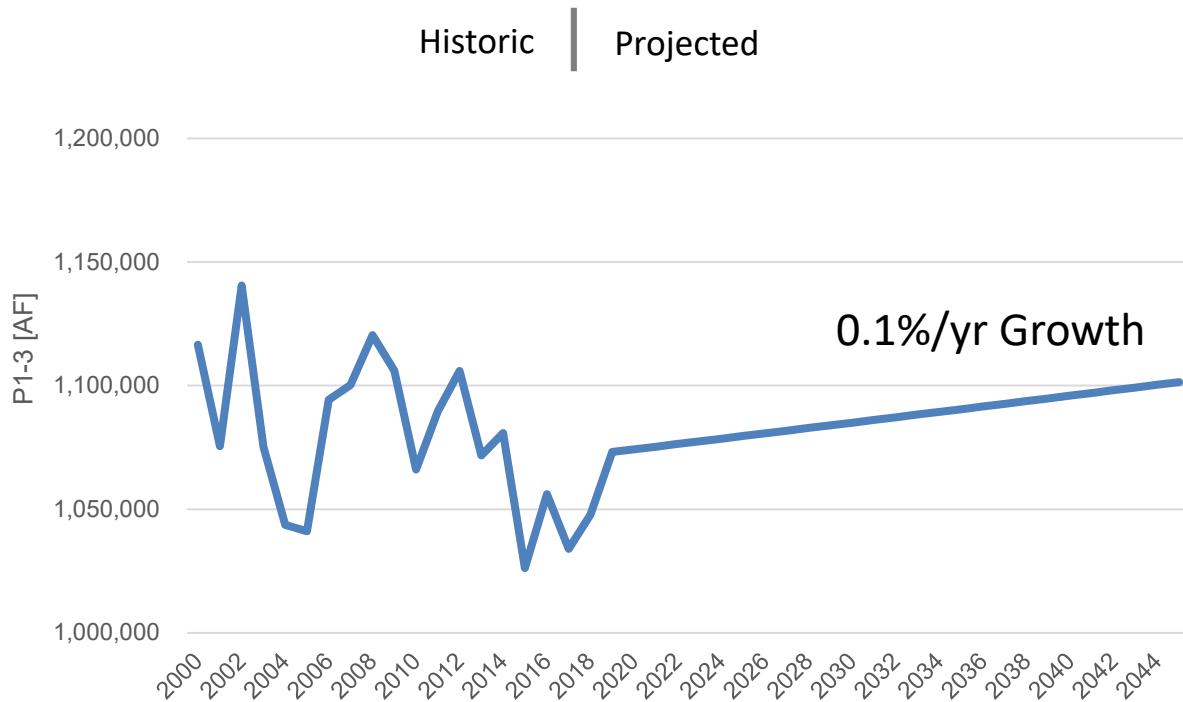
# Colorado River Supply Assumptions

- **CRSS Model Version**
  - August 2019 version (updated December 2019)
- **Hydrology**
  - “Direct Natural Flows” (1906—2017) 112 years
  - “Stress Test” (1988—2017) 30 years
- **Operational Rules include Guidelines & DCP**
- **Minute 323 – Binational Water Scarcity Contingency Plan**
- **Upper Basin Demand**
  - BOR assumptions in “as-is” model – Baseline
  - Scenario 1 -15% reduction to projected increase



# On-River Demand Assumptions

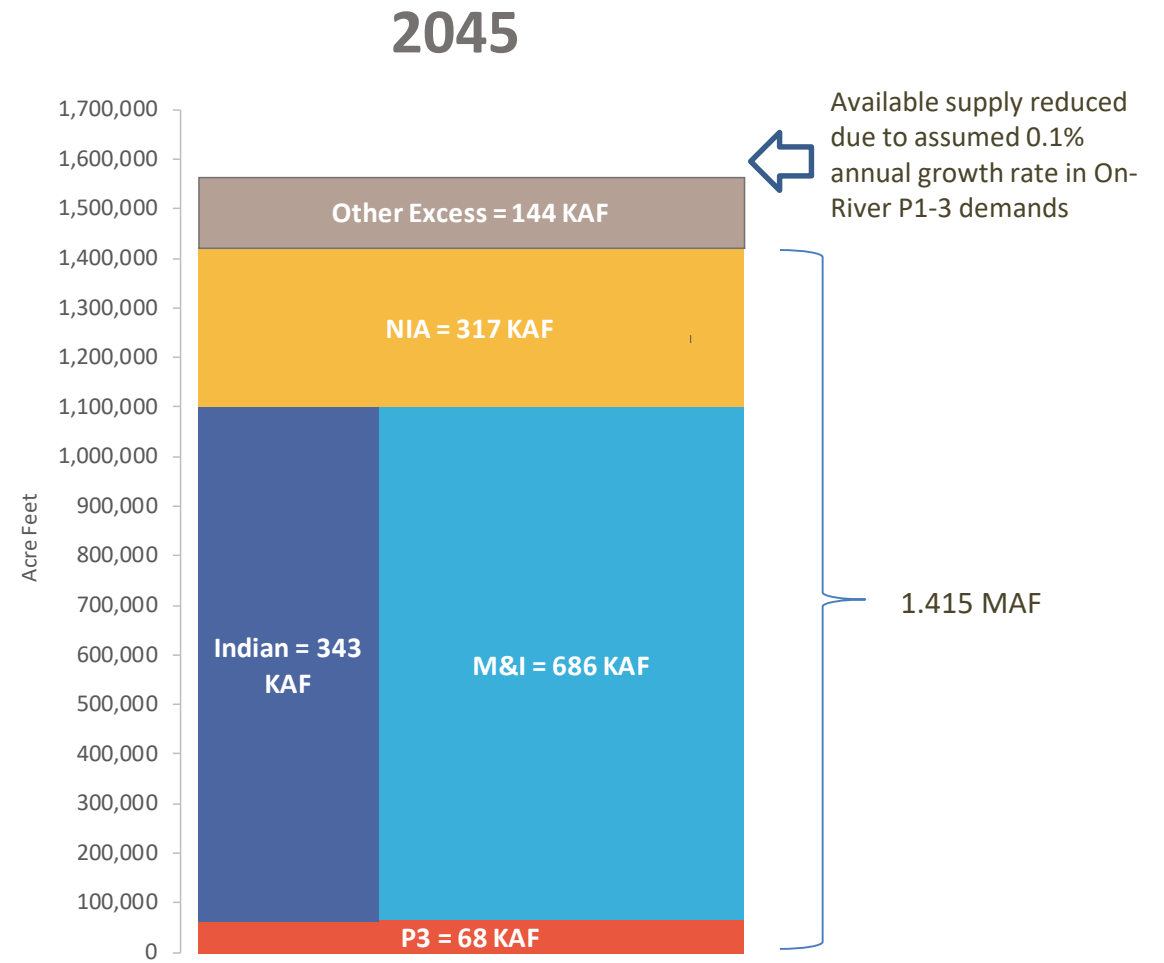
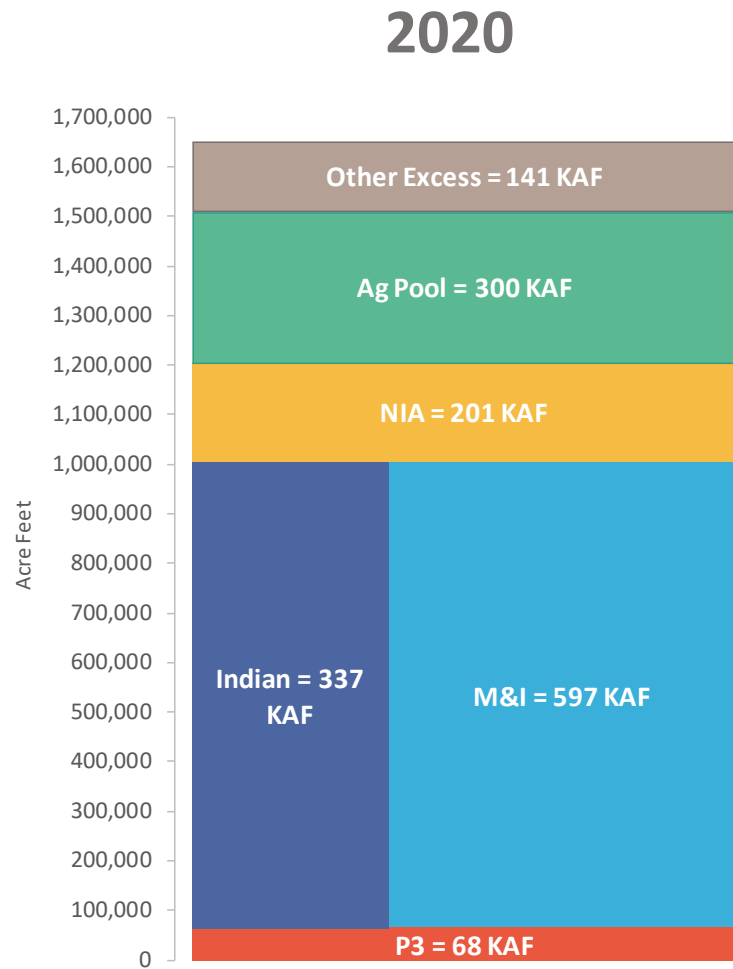
P1-3 Demand Assumptions	P4 Demand Assumptions
Primarily agricultural	Agricultural and M&I
<b>Baseline – 0.1% growth</b> Scenario 1 – P1-3 demands remain constant Scenario 2 – 0.5% growth	P4 Ag – remains constant P4 M&I – 1% growth



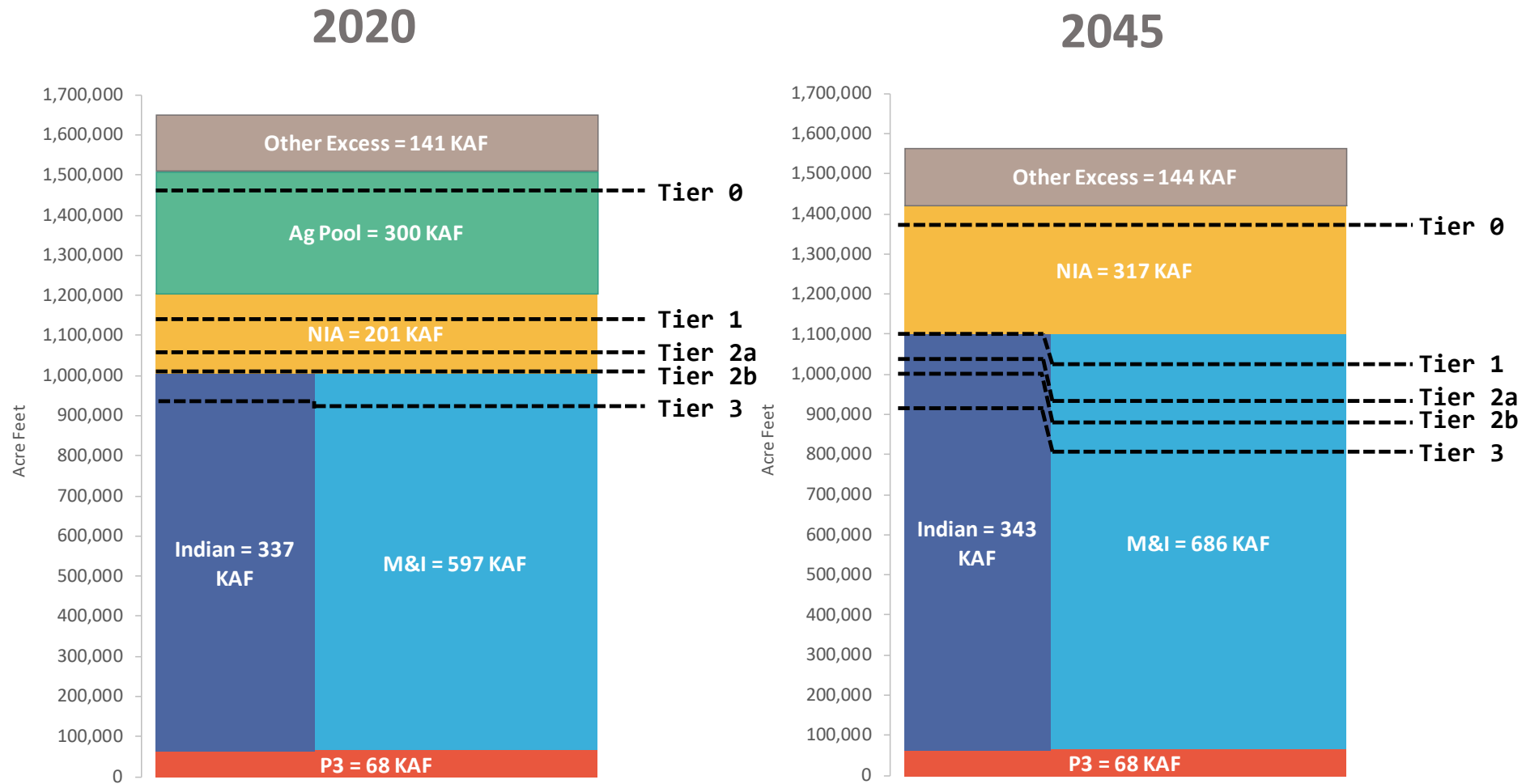
# CAP Supply and Demand Assumptions

- Starting point is current (2020) usage levels
  - Alternate scenario evaluated with reduced Long-Term Storage Credit accrual during shortage
- Long-Term contracts fully allocated and used by 2045
  - Three rounds of NIA reallocation (2022, 2025 & 2030)
  - White Mountain Apache Tribe settlement (2023) and Hualapai settlement (2025)
  - Future Indian settlements phased-in over time
- 2007 Guideline reductions and mandatory DCP contributions modeled as cuts to available supply, in priority-order
- AWBA firms M&I at 100% through 2026; 20% thereafter

# Current and Projected Demand

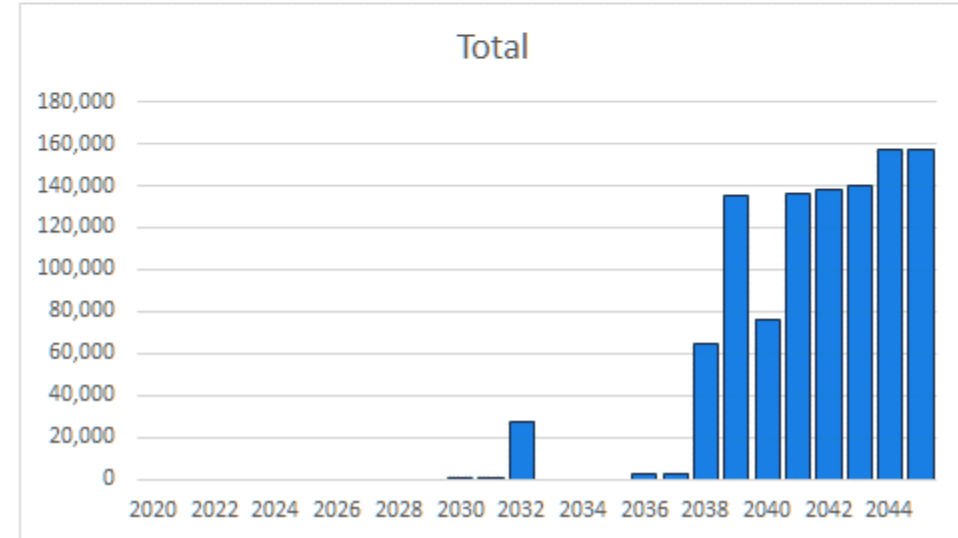
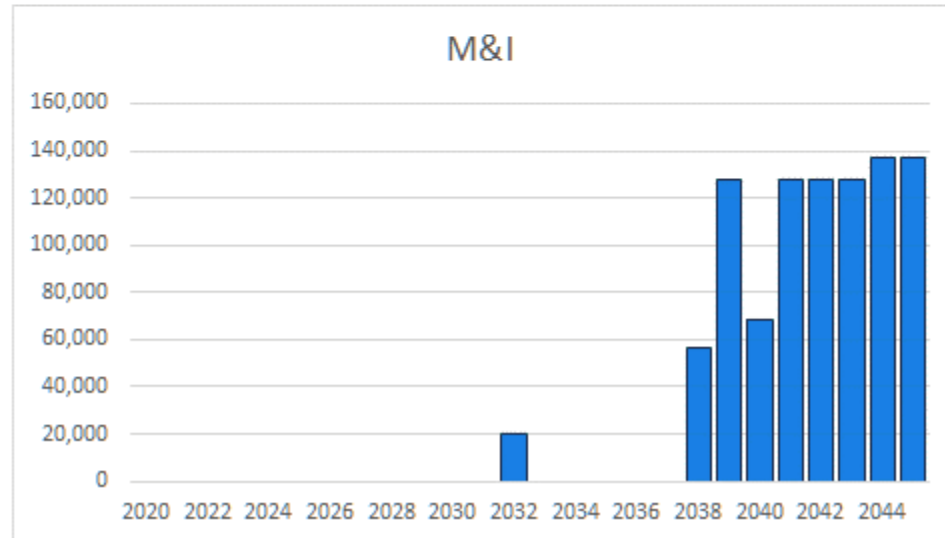
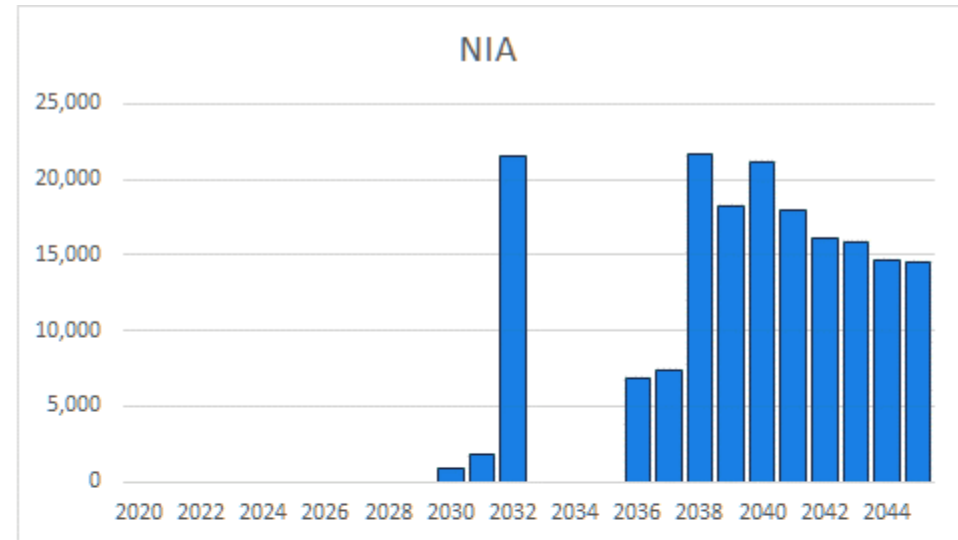
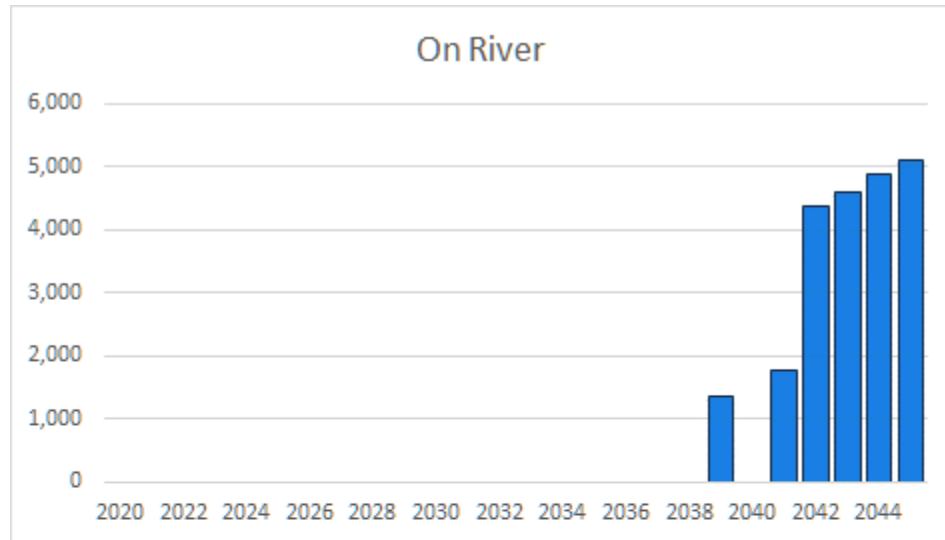


# Current and Projected Demand

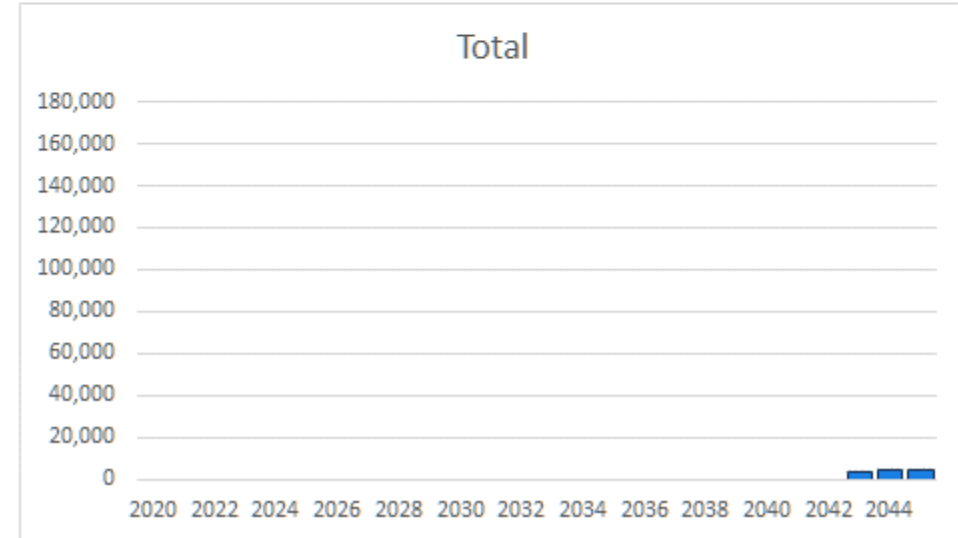
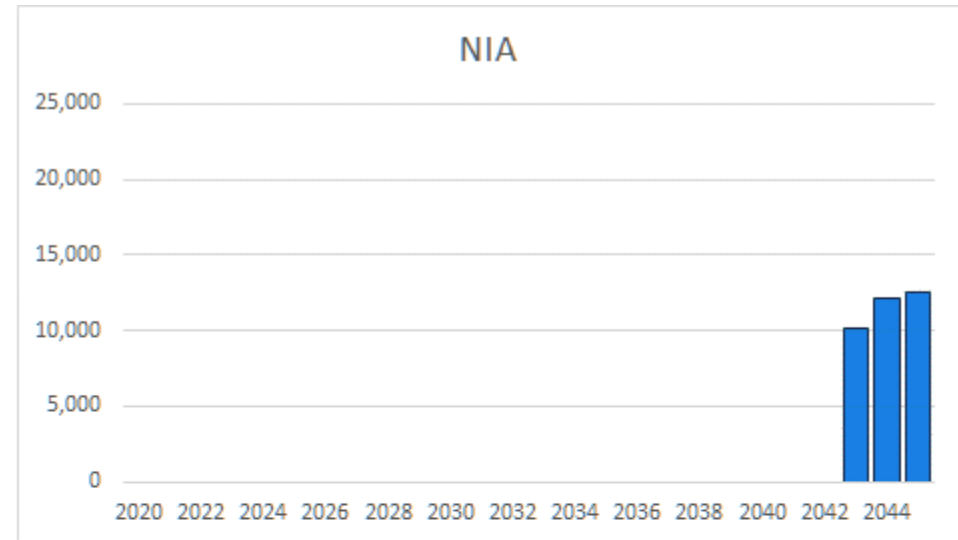




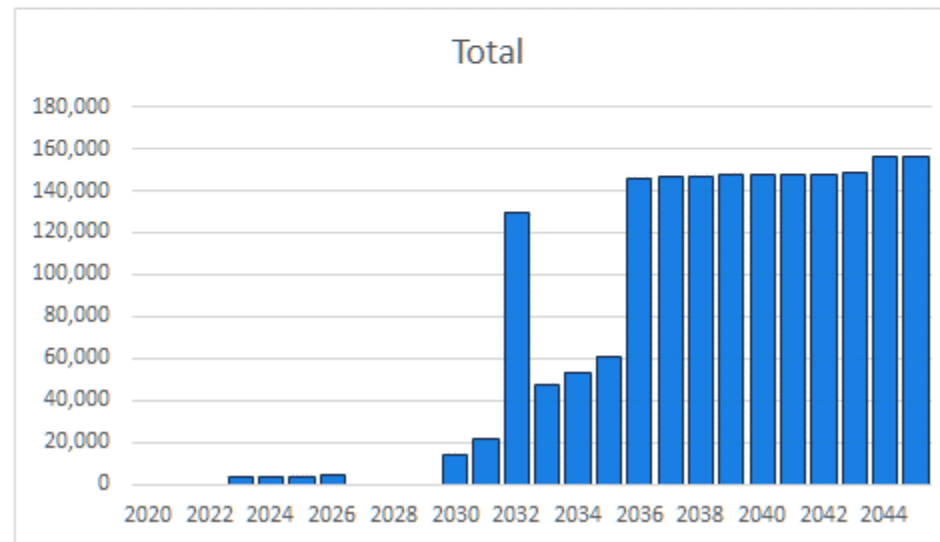
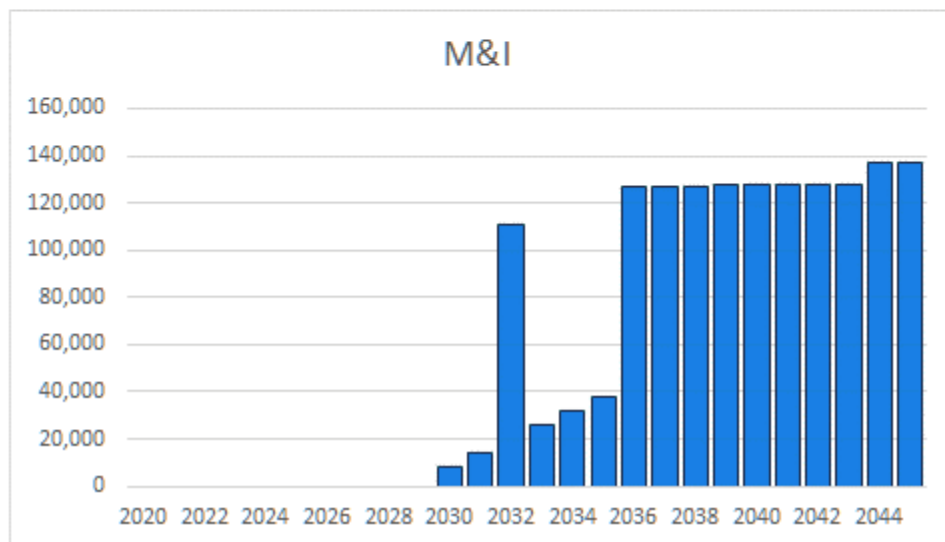
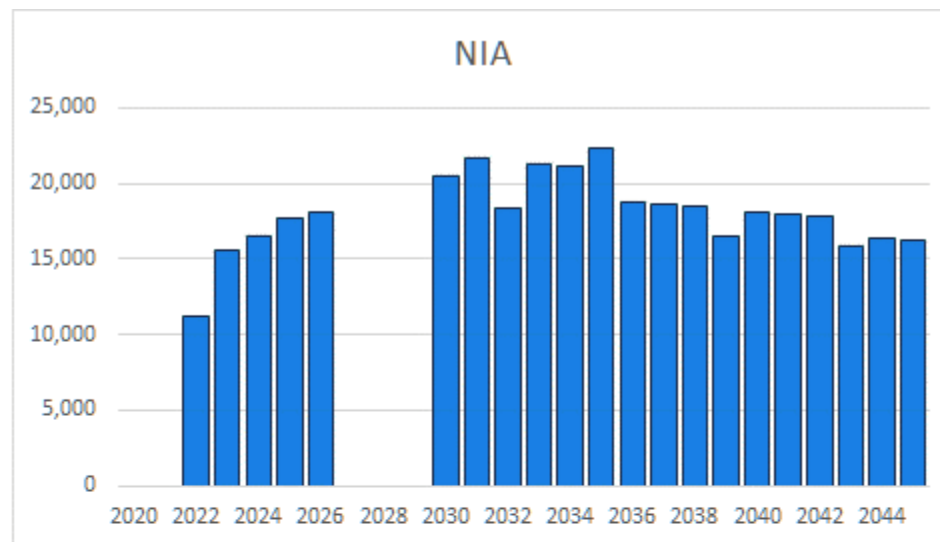
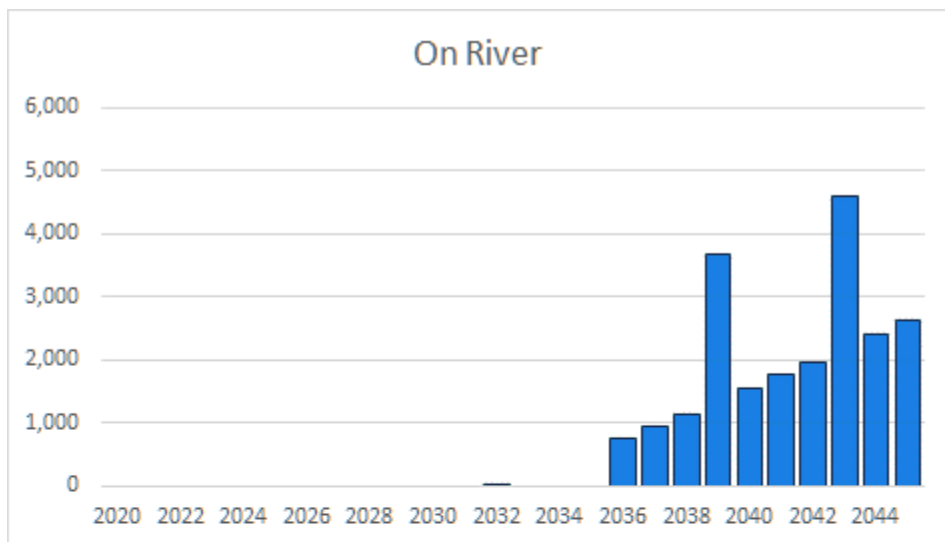
# Recovery Volumes: Trace 80



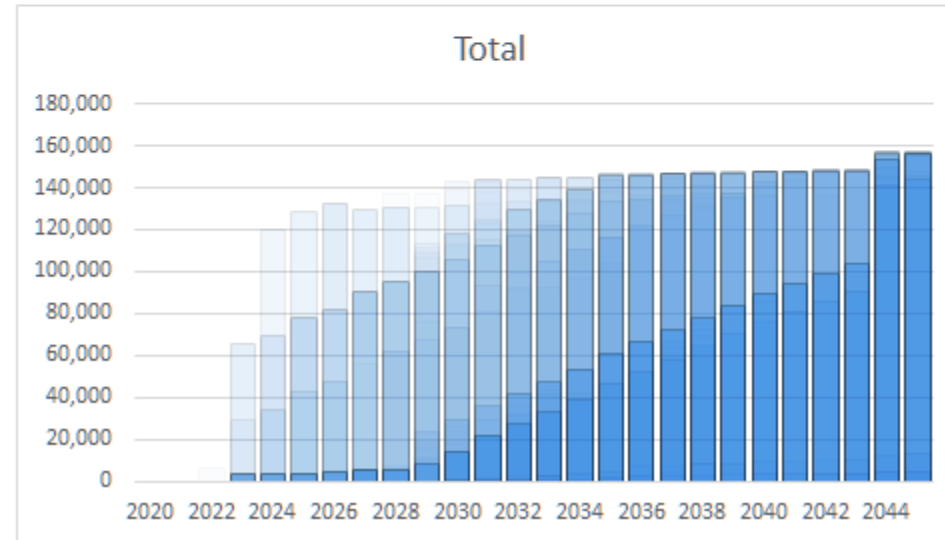
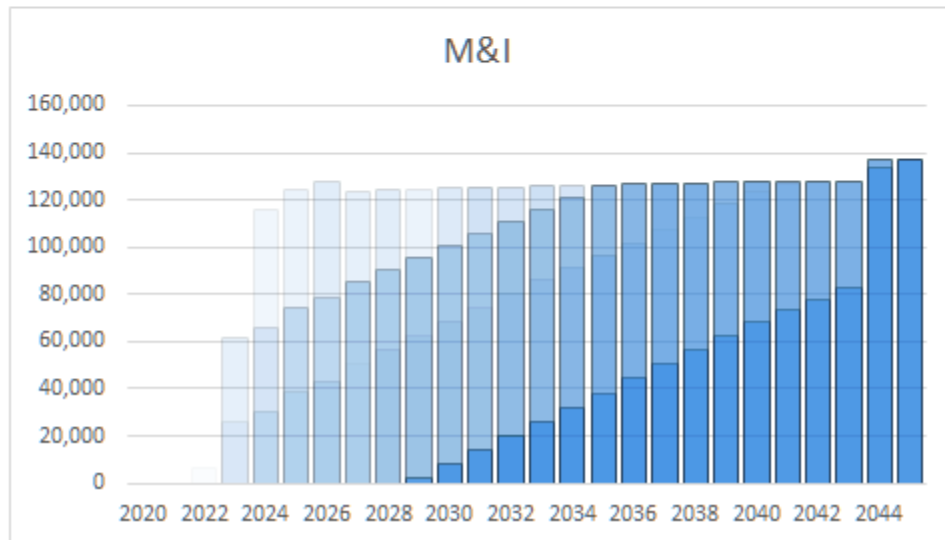
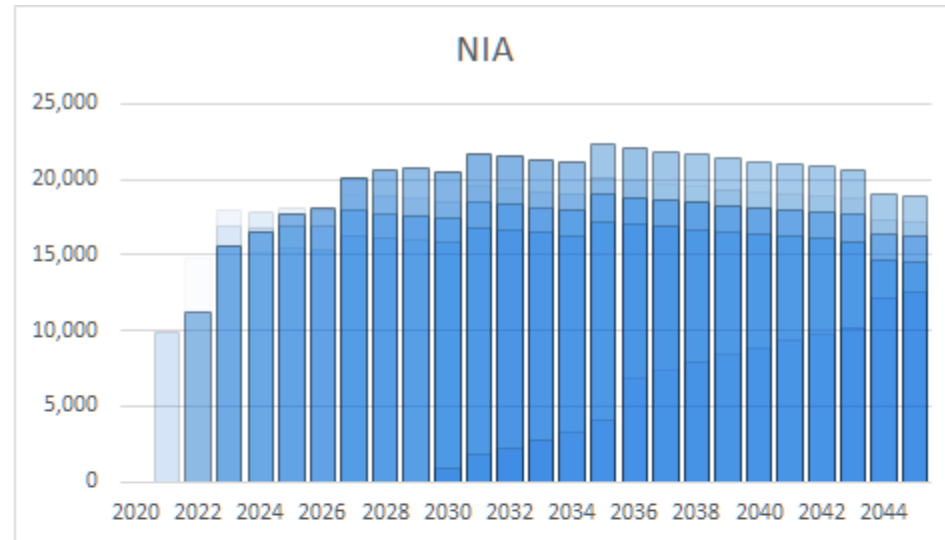
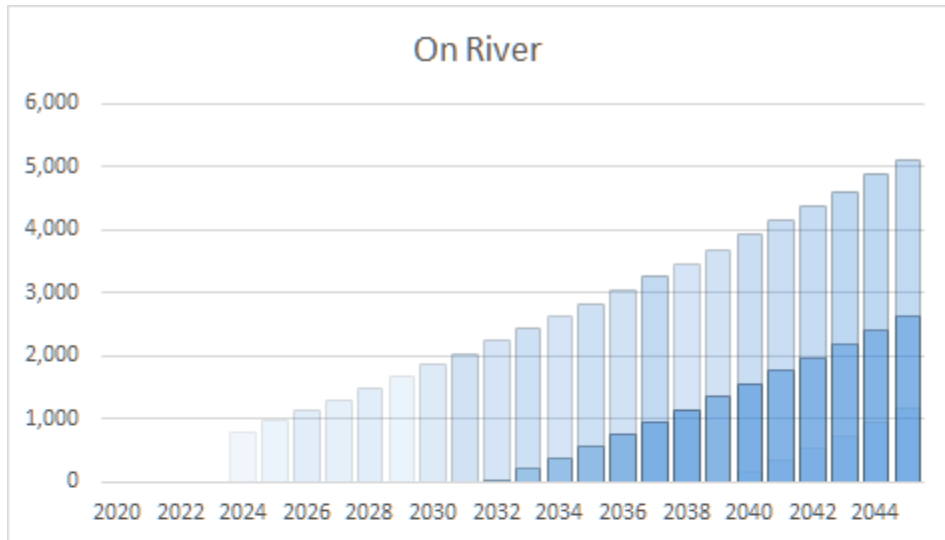
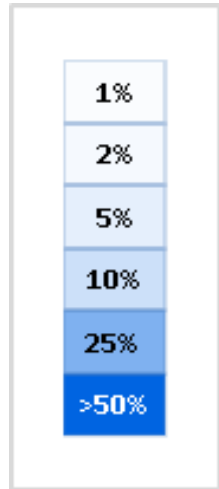
# Recovery Volumes: Trace 10



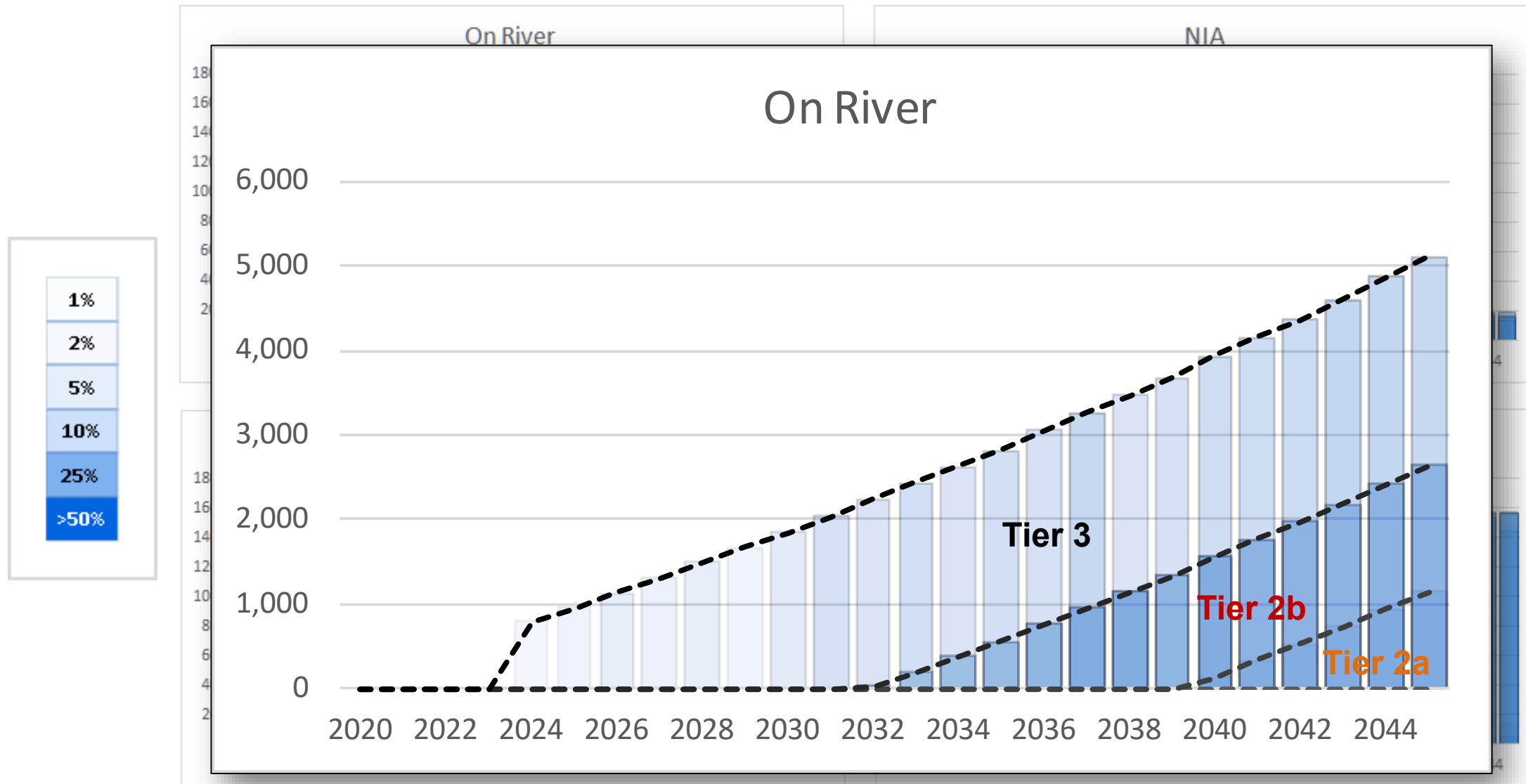
# Recovery Volumes: Trace 40



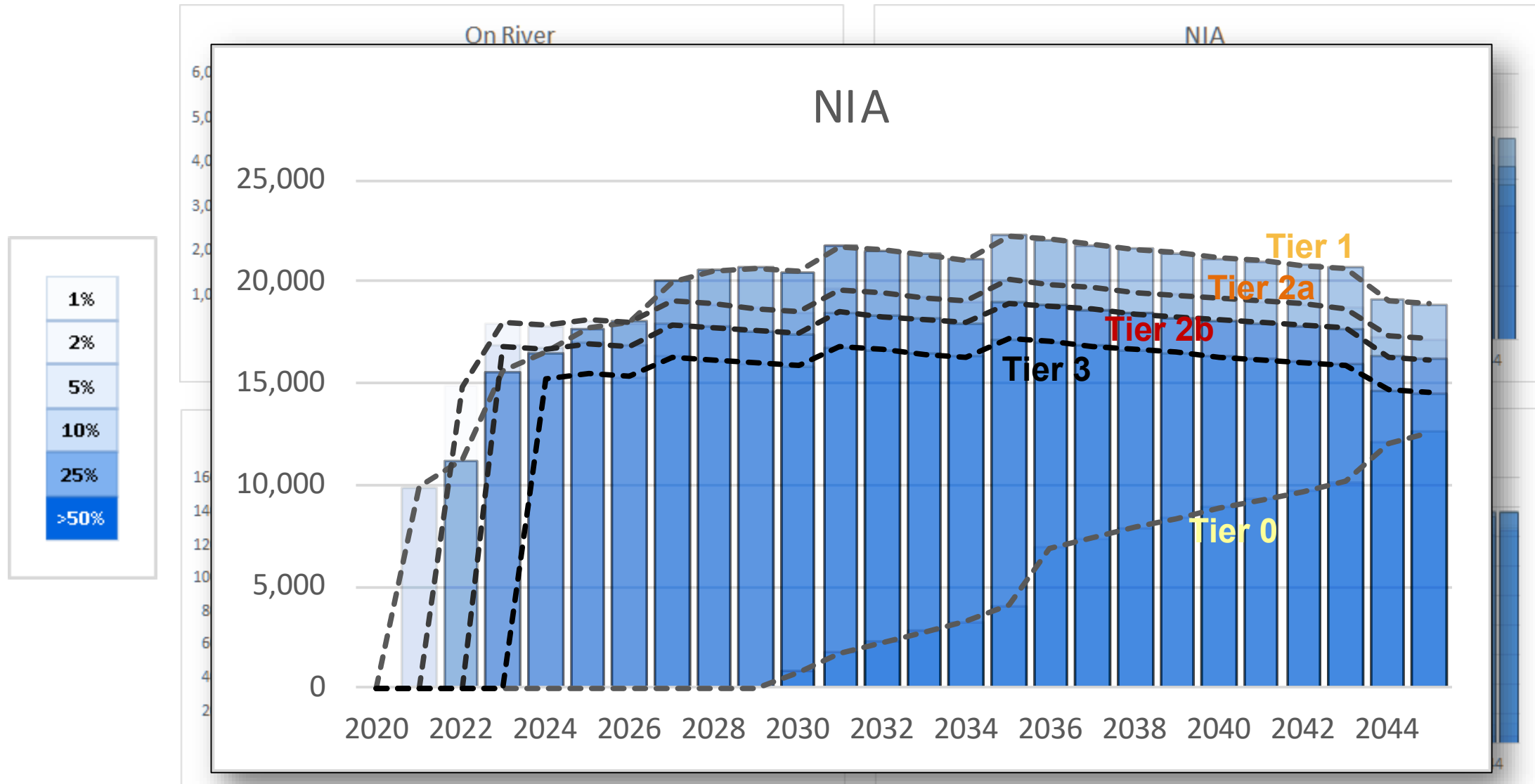
# Recovery Volumes: All Traces



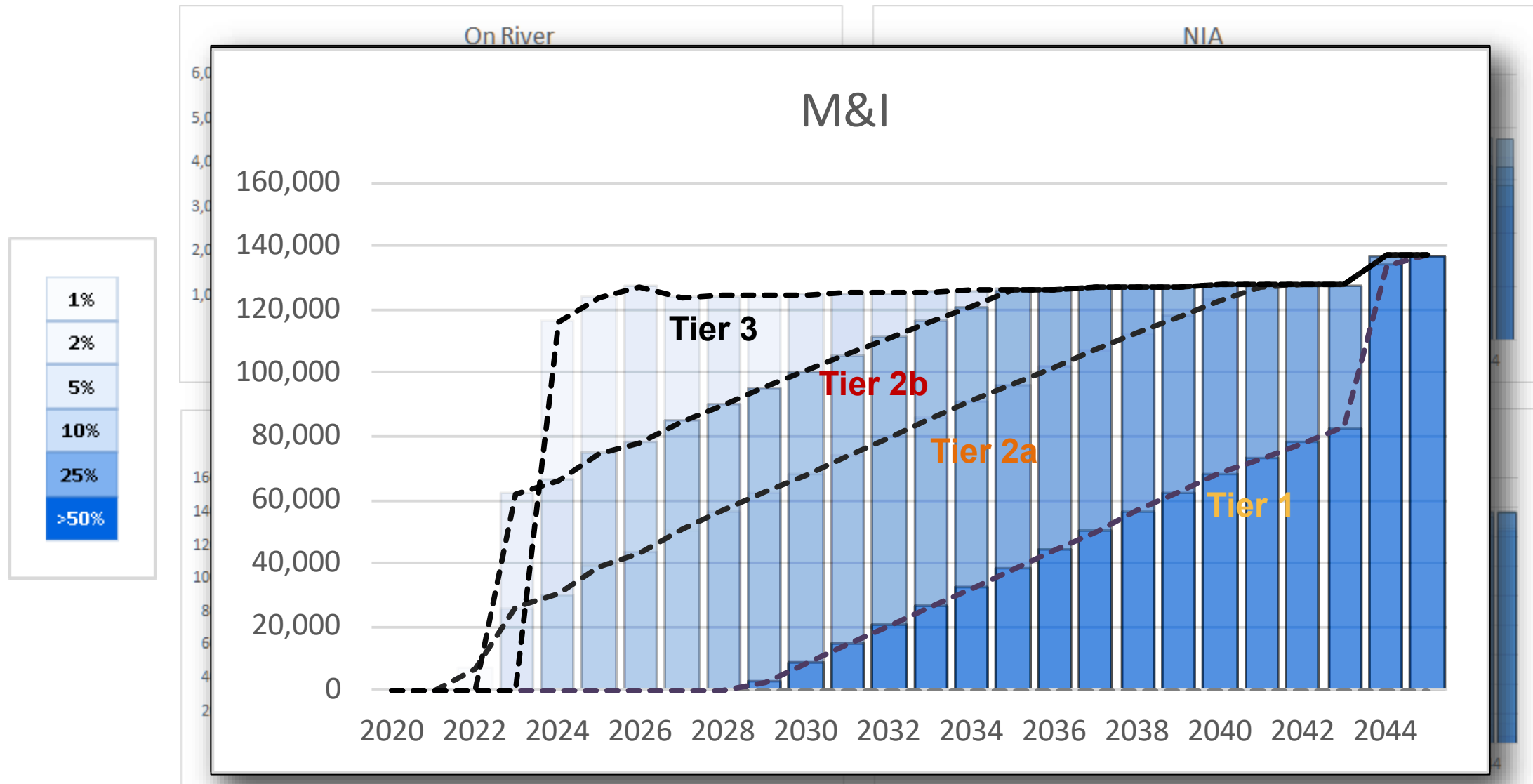
# Recovery Volumes: All Traces



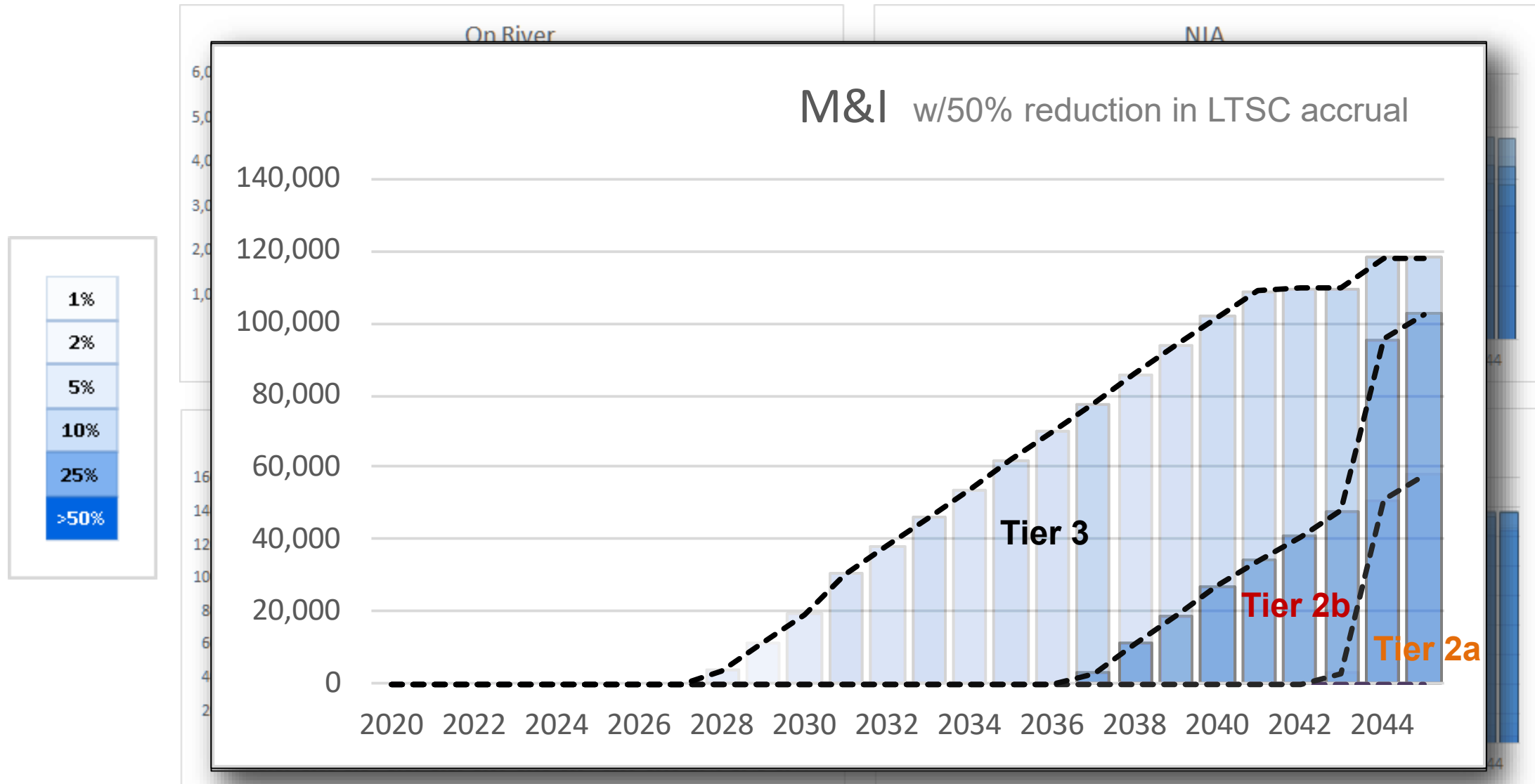
# Recovery Volumes: All Traces



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# Recovery Volumes: All Traces





# Conclusions

- Primary Factors Affecting Recovery
  - Reductions and contributions required under Guidelines & DCP
    - Post-2026 rules and policies
  - Projected on-River consumptive uses
  - CAP contract and subcontract use
    - Long-term storage credit accrual
    - Demand management/conservation
- Potentially large recovery volumes, but at low probabilities

# Questions

