

# SITES PROJECT JOINT AQUATICS WORKSHOP

OCTOBER 26, 2020



# Agenda

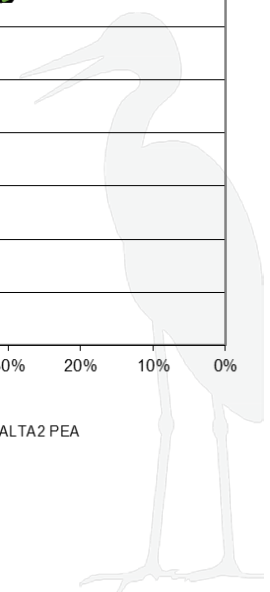
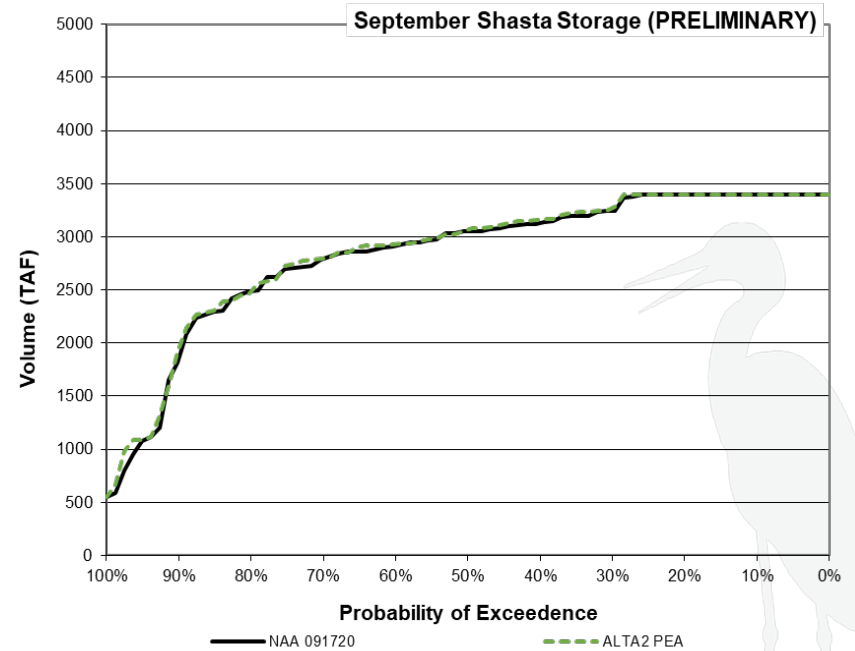
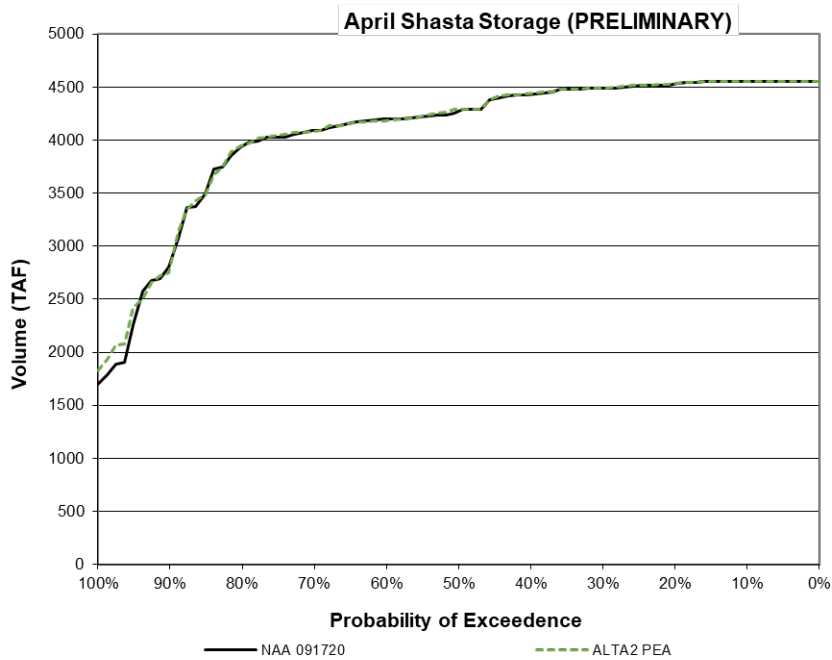
1. Overview and Introductions
2. Objective of the workshop (Jim L)
  - a. Review purpose of meeting (Jim L, Rob L)
  - b. Analytical Tools (Rick W, Marin G)
  - c. ICF's initial review of modeling output (Rick W)
  - d. OBAN Model Update (Noble H, Doug J)
3. Science Review
  - a. Russell Perry (Reverse flows)
  - b. Cyril Michel (Wilkins Slough/Pulse Flows)
4. Discussion of model adjustments for new iteration
5. Action Items and Next Steps – Workshop #2



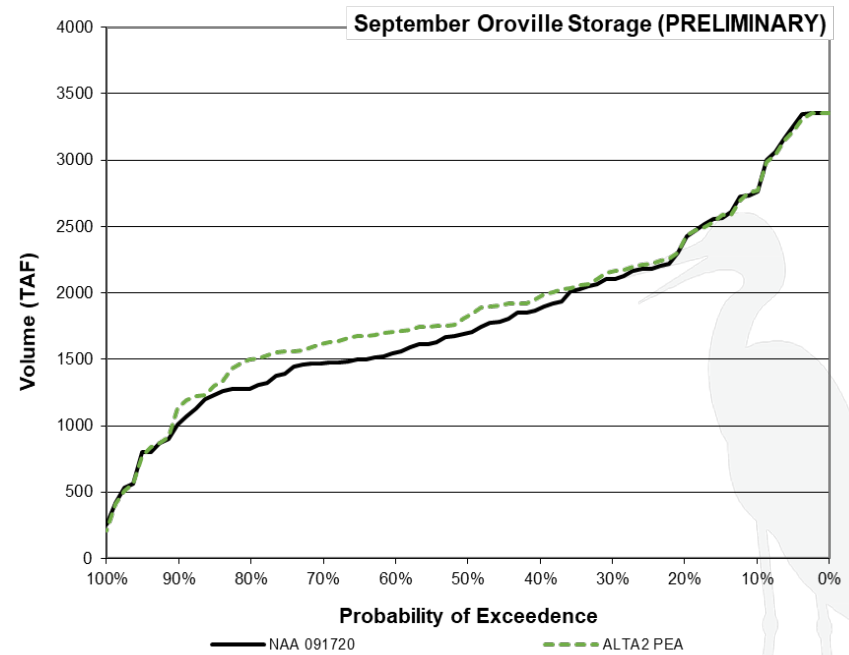
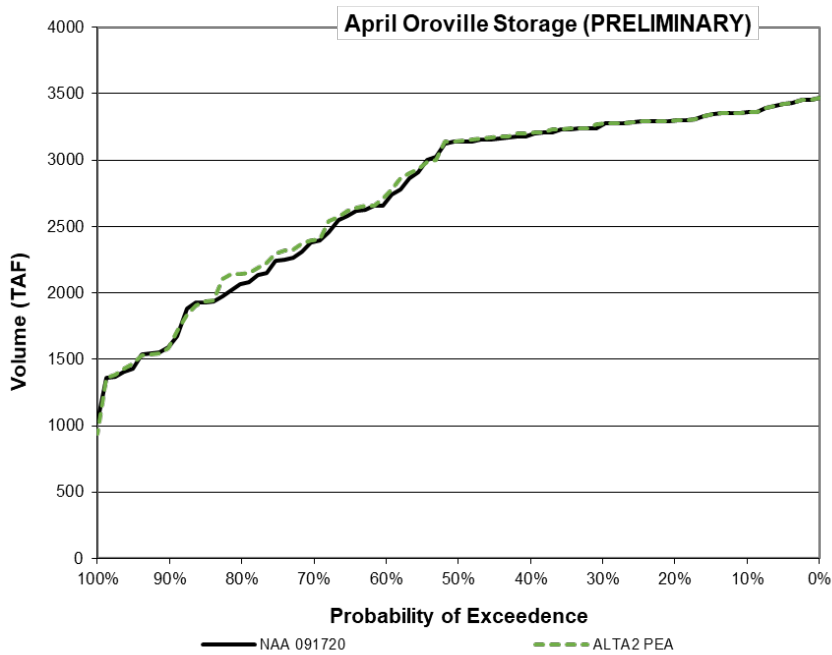
# CalSim Results

Preliminary Effects Analysis

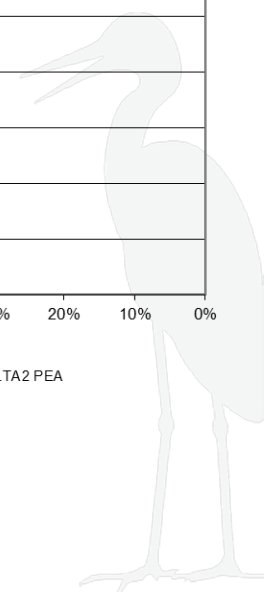
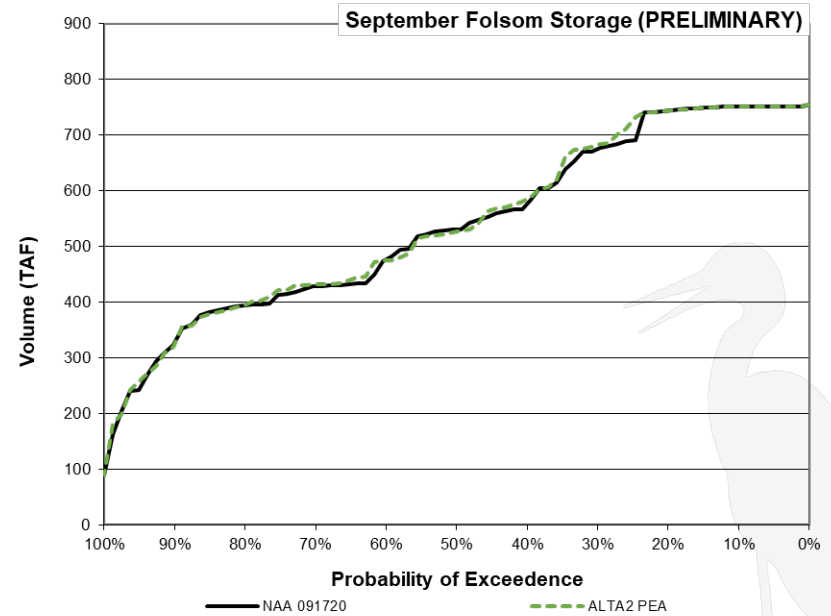
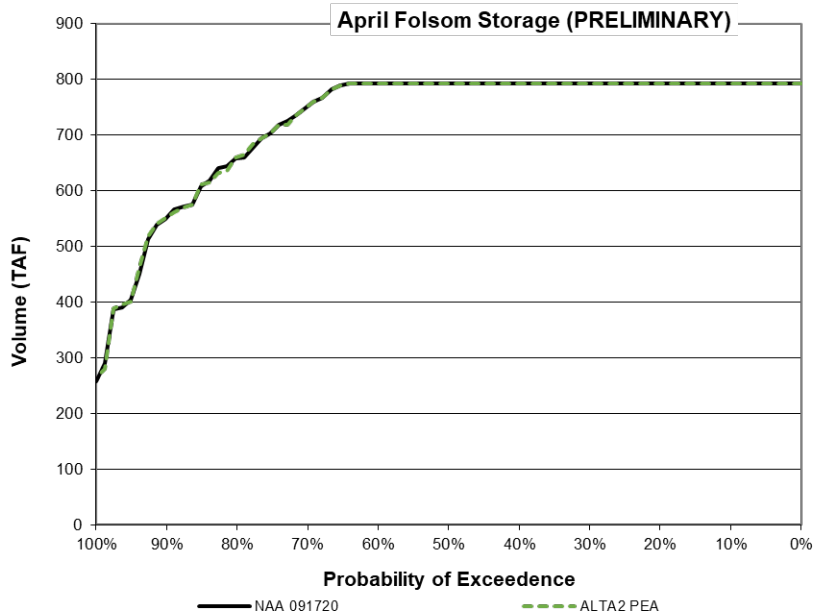
# Shasta Lake storage



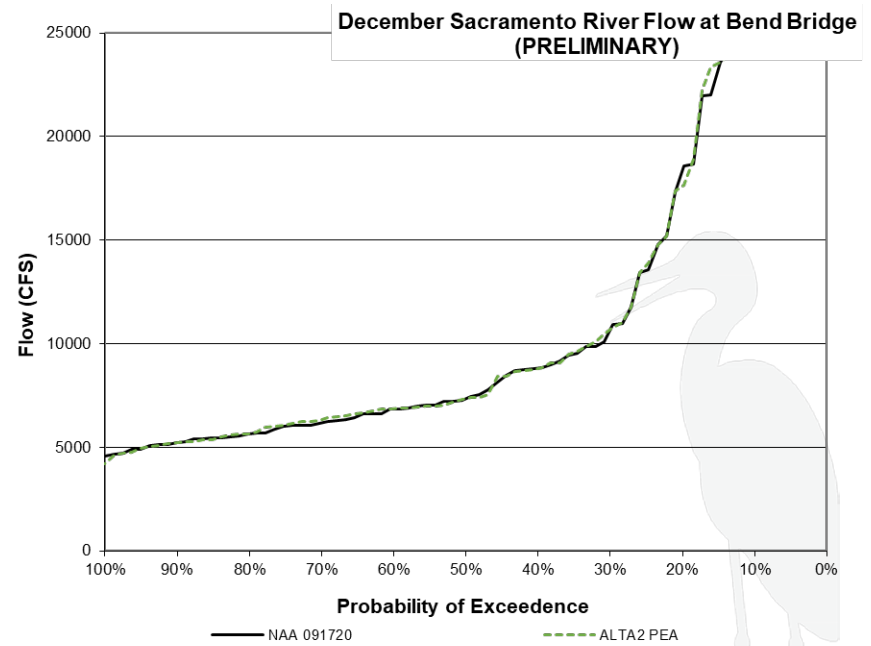
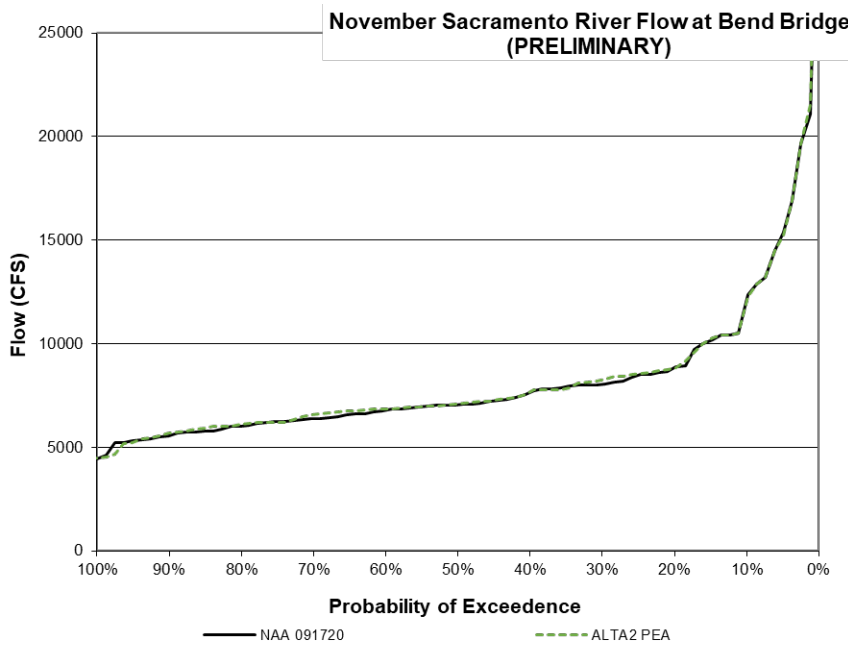
# Lake Oroville storage



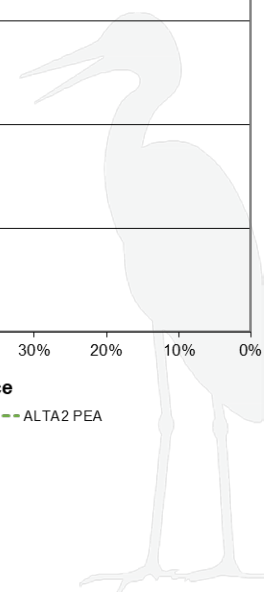
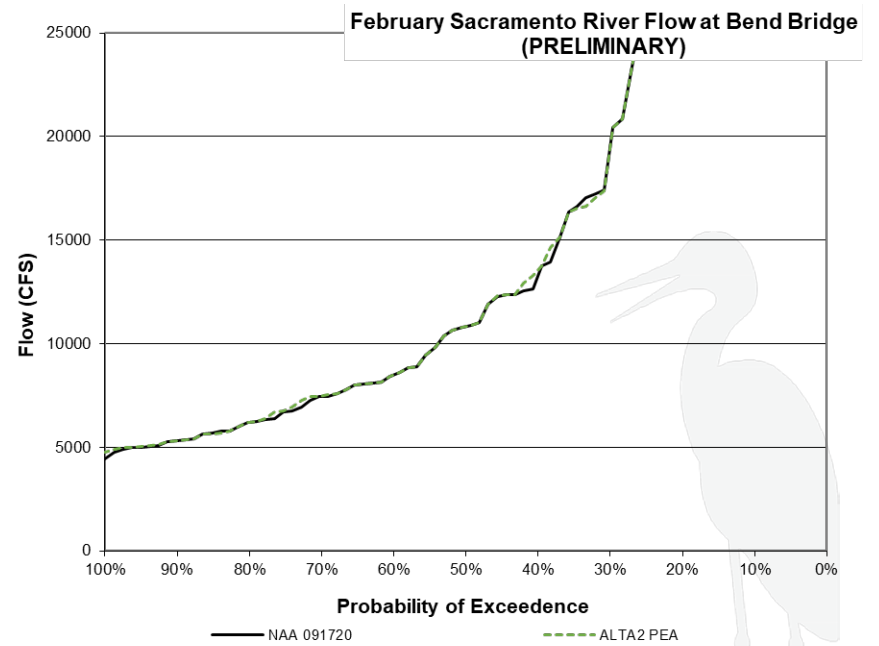
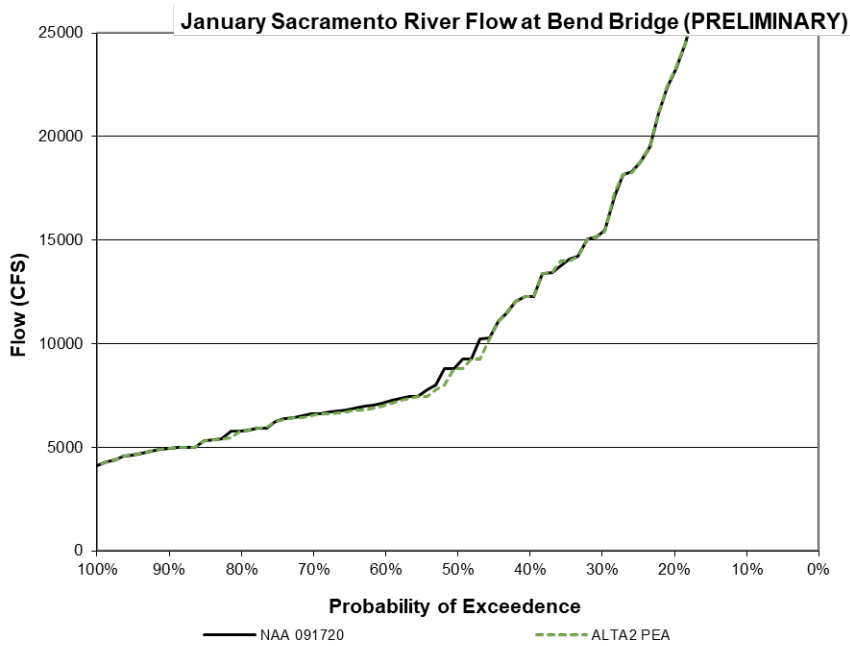
# Folsom Lake storage



# Bend Bridge flow

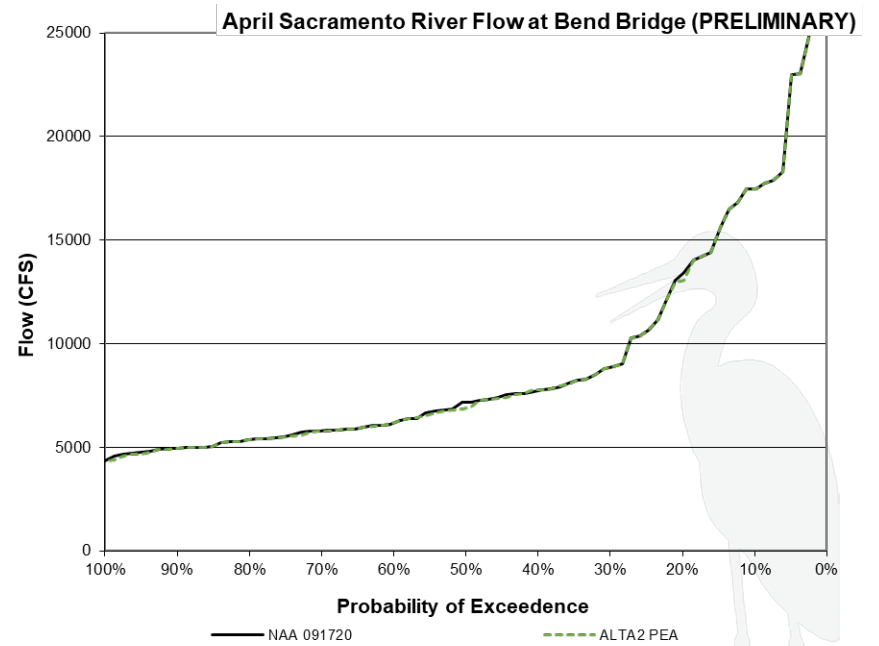
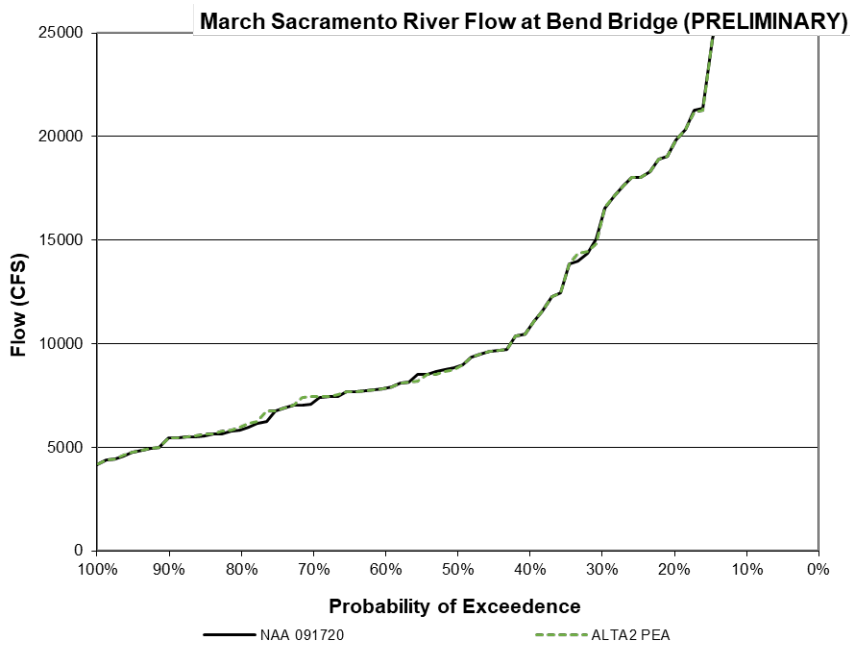


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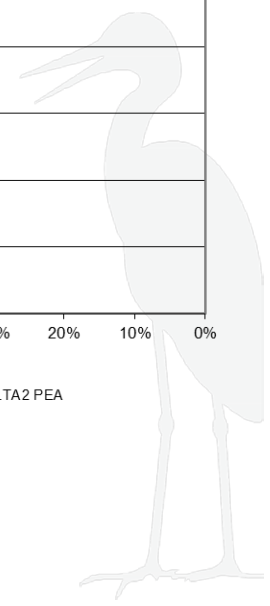
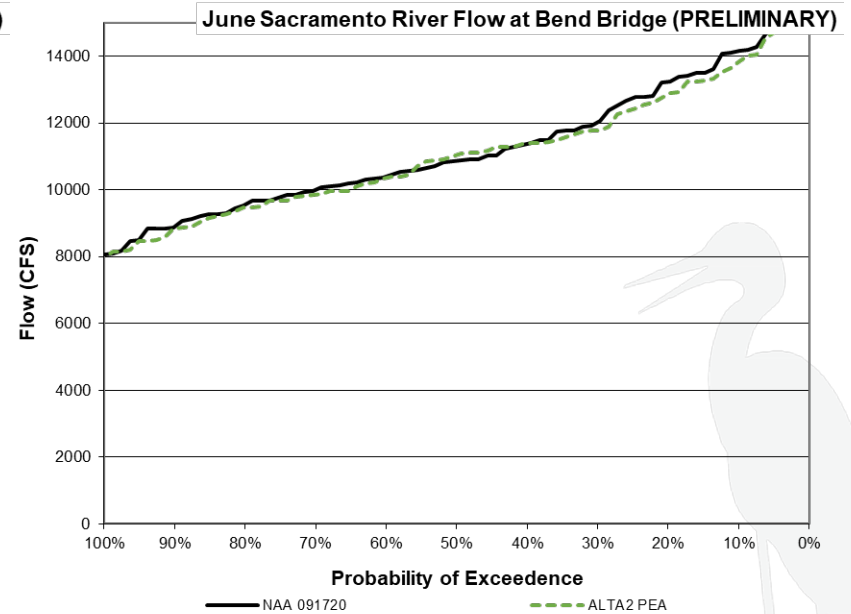
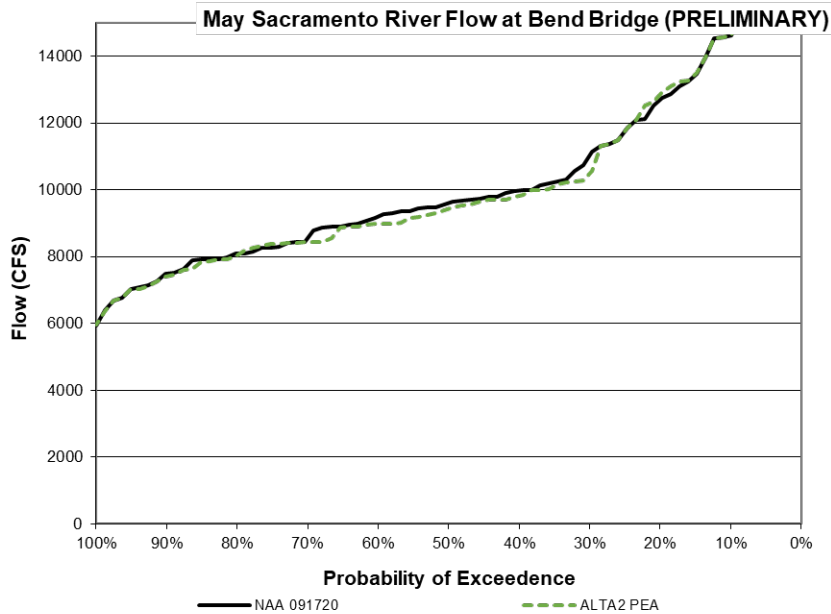




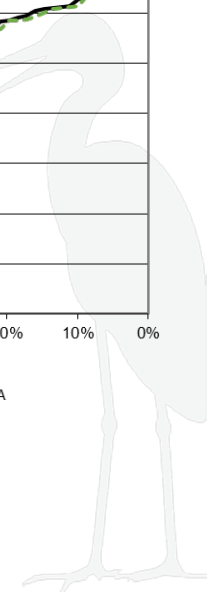
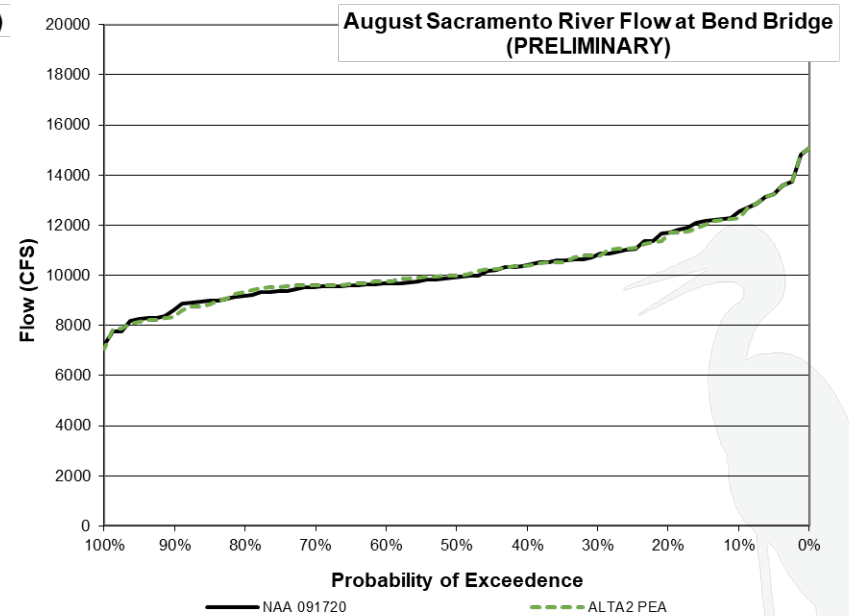
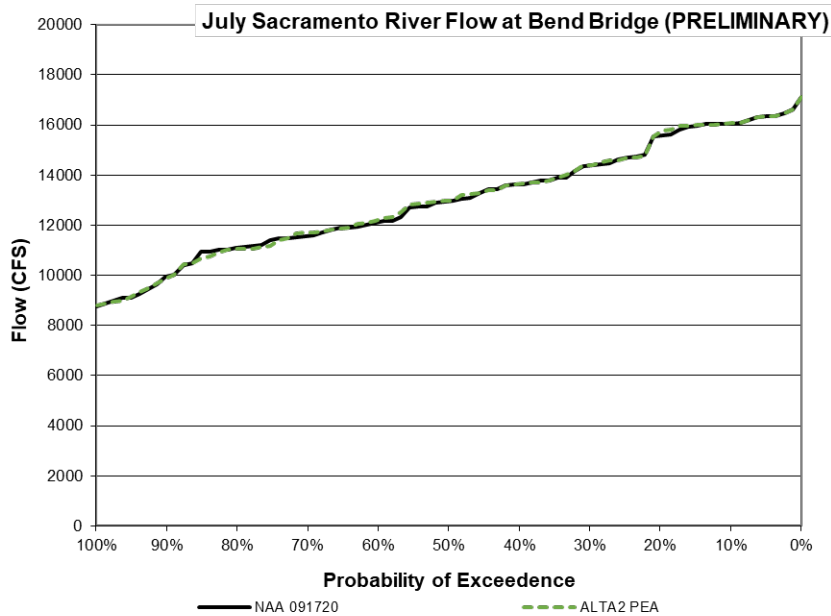
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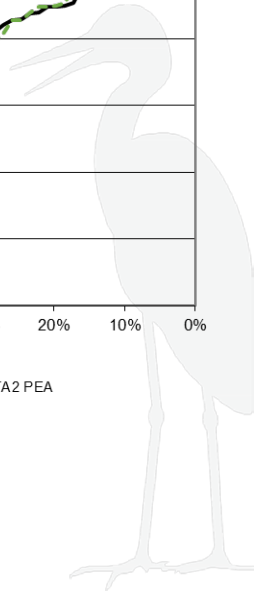
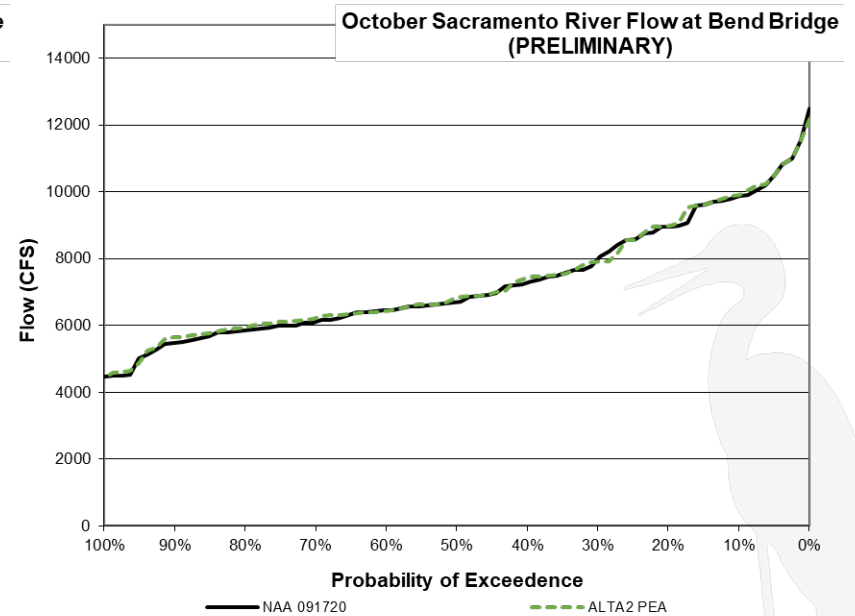
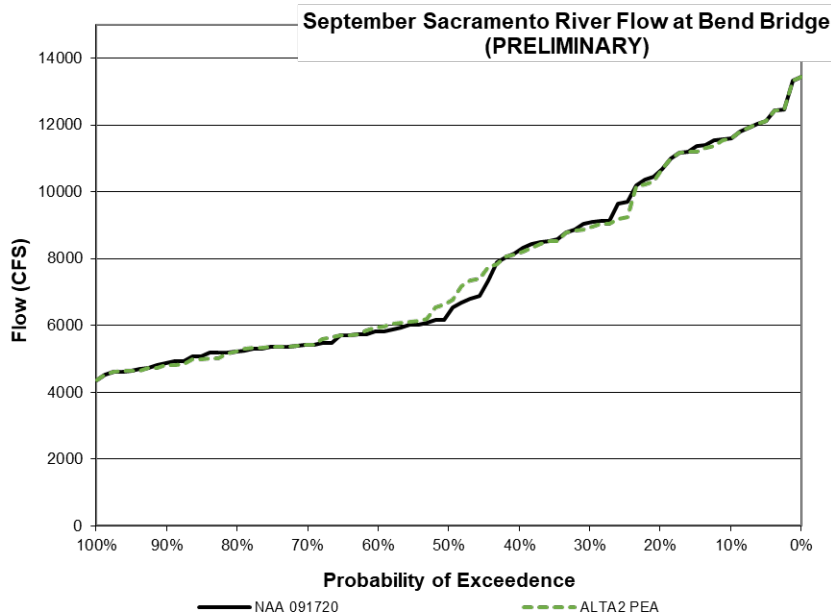
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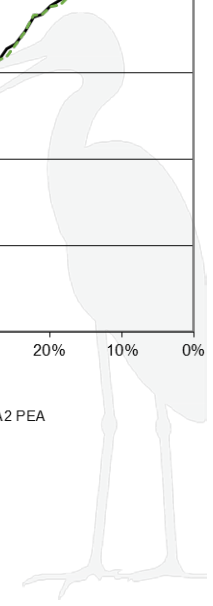
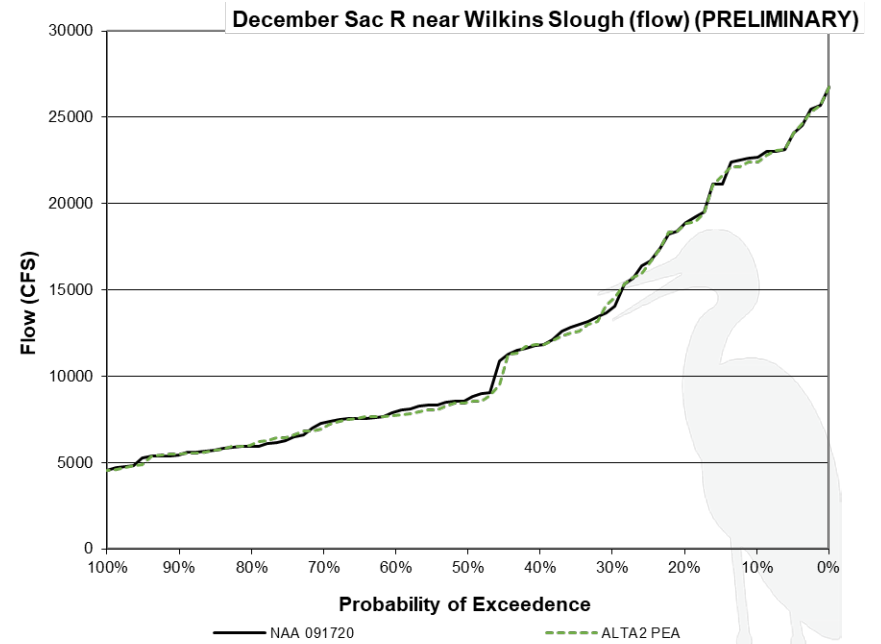
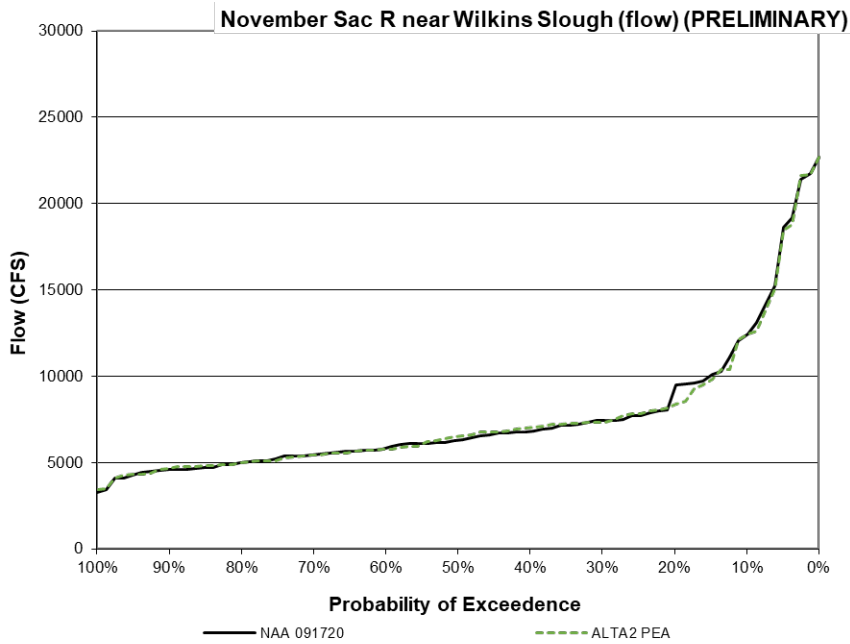
# Bend Bridge flow



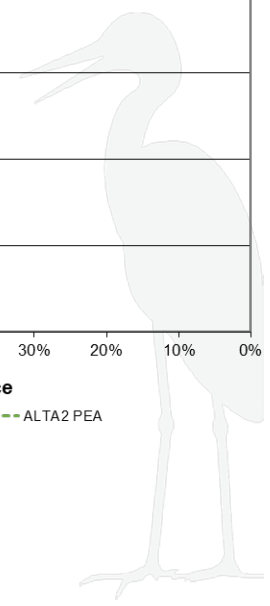
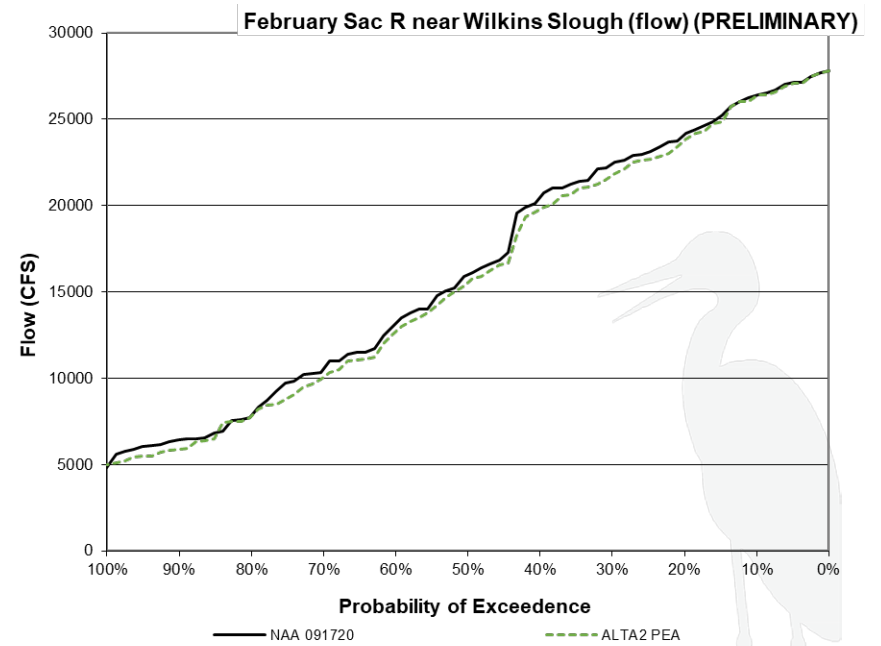
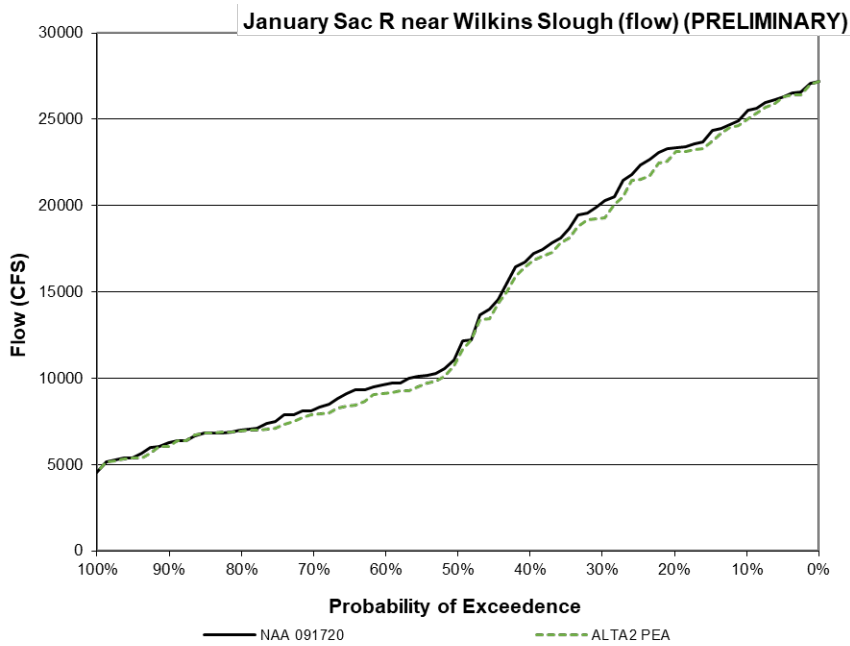
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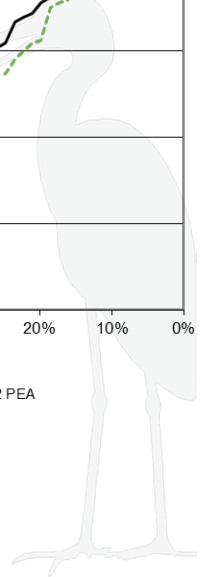
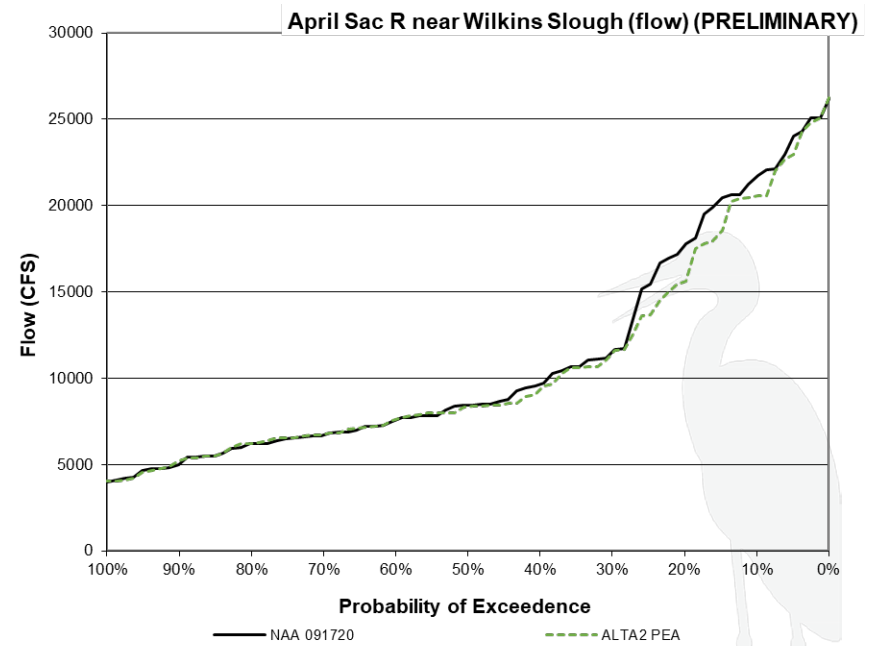
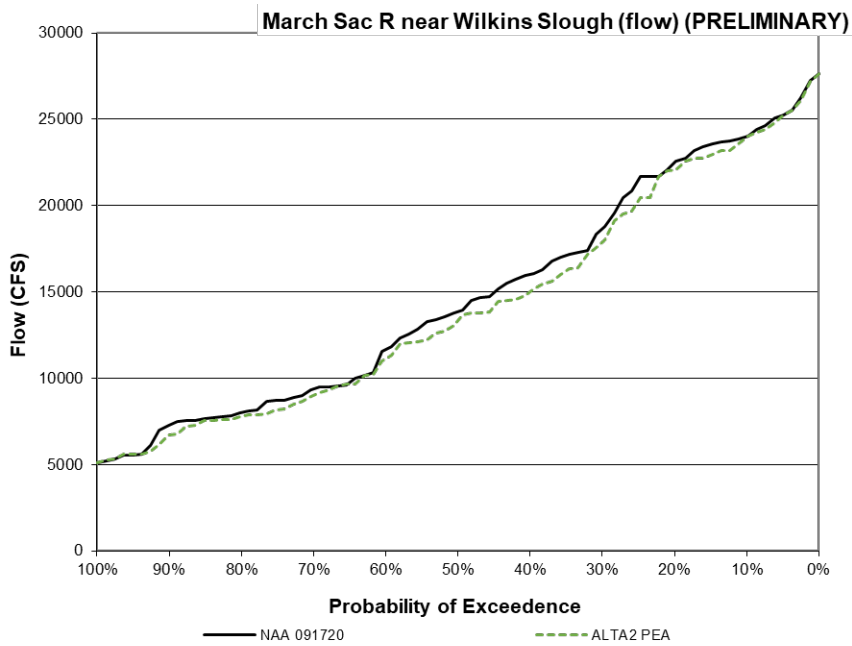
# Wilkins Slough flow



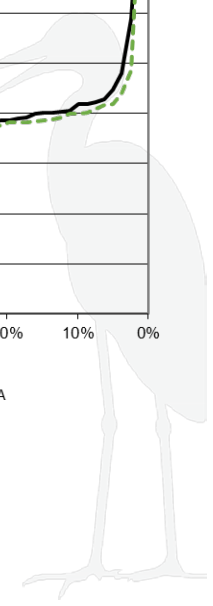
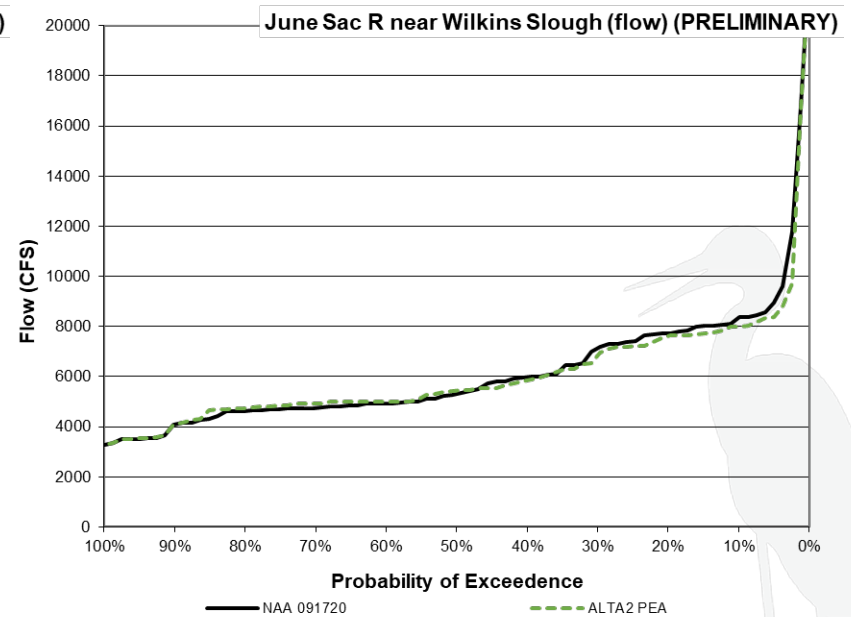
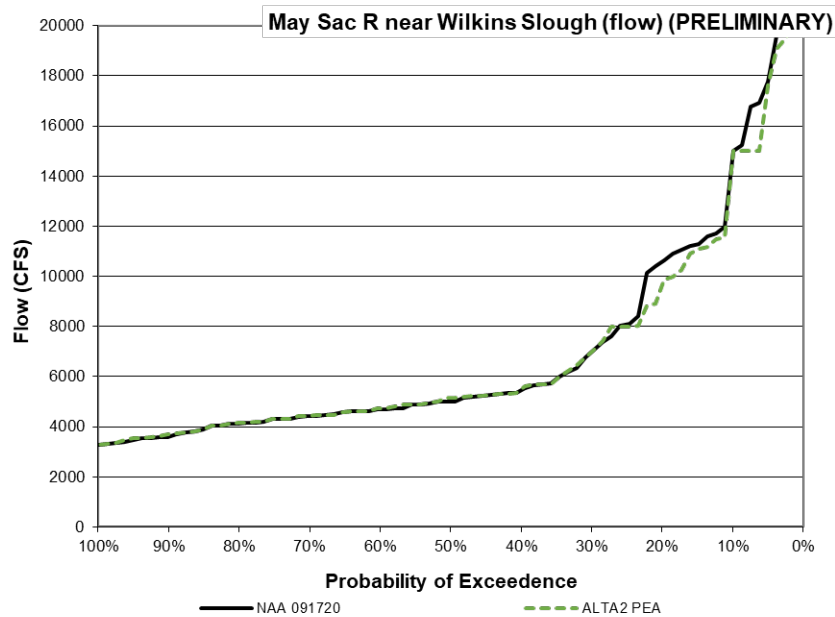
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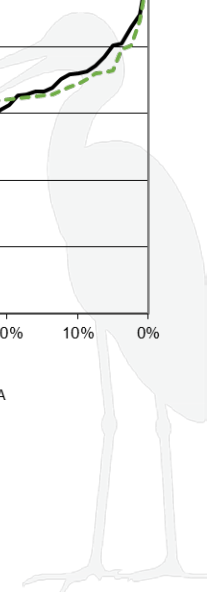
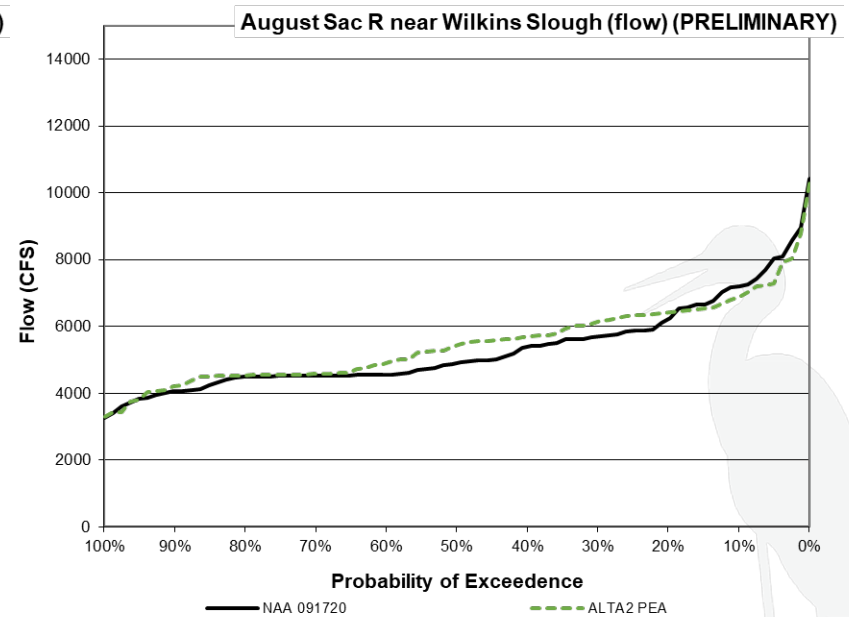
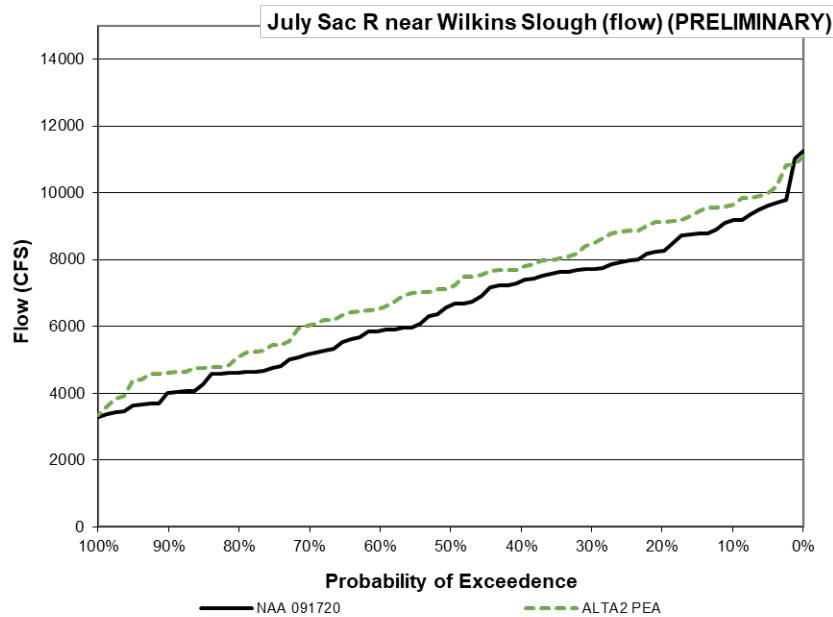


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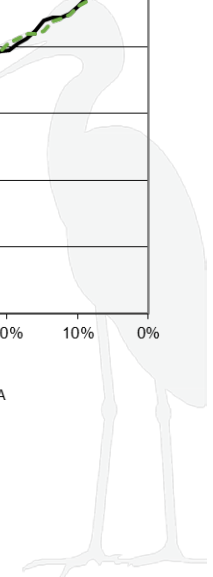
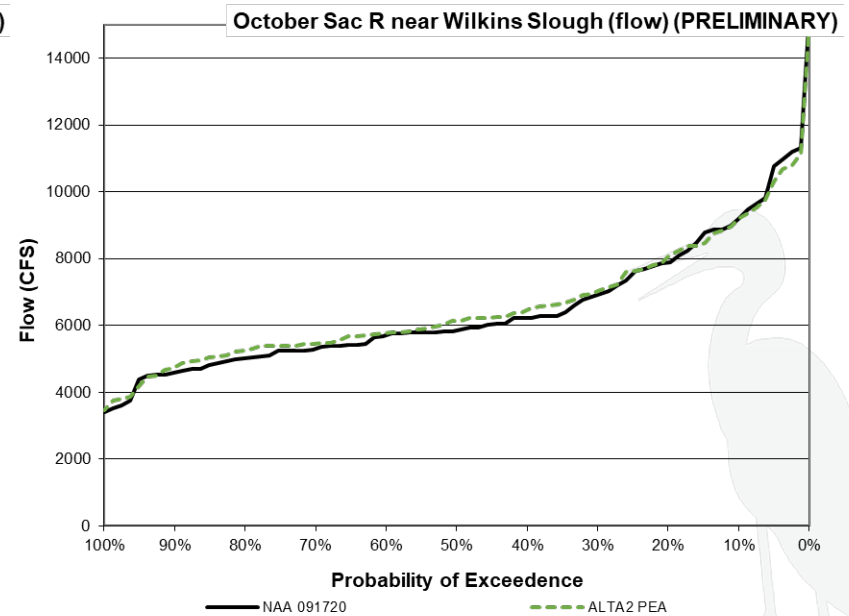
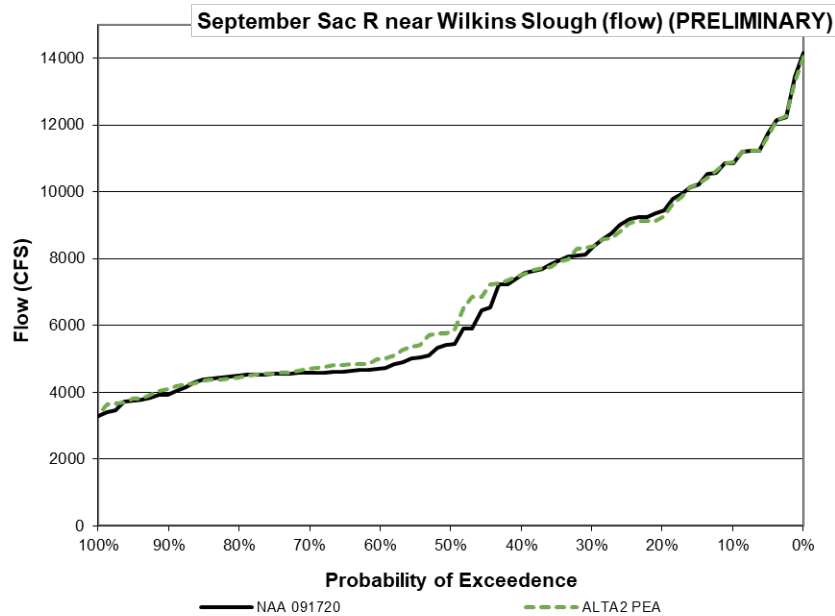




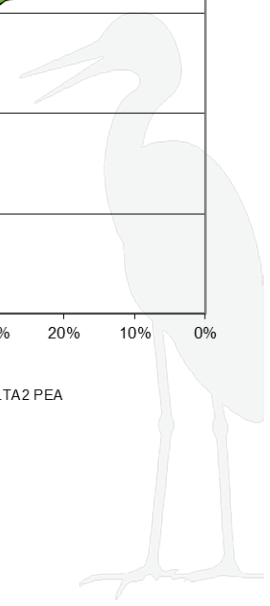
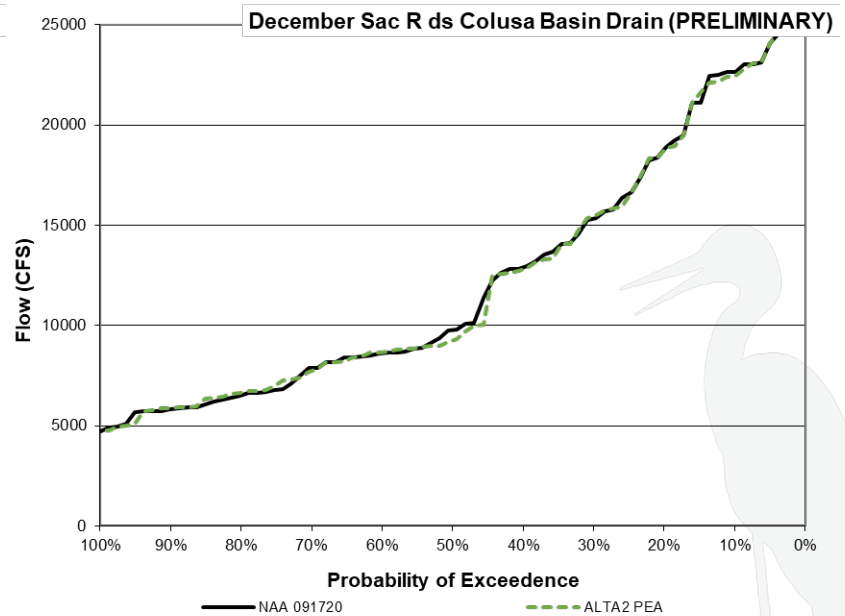
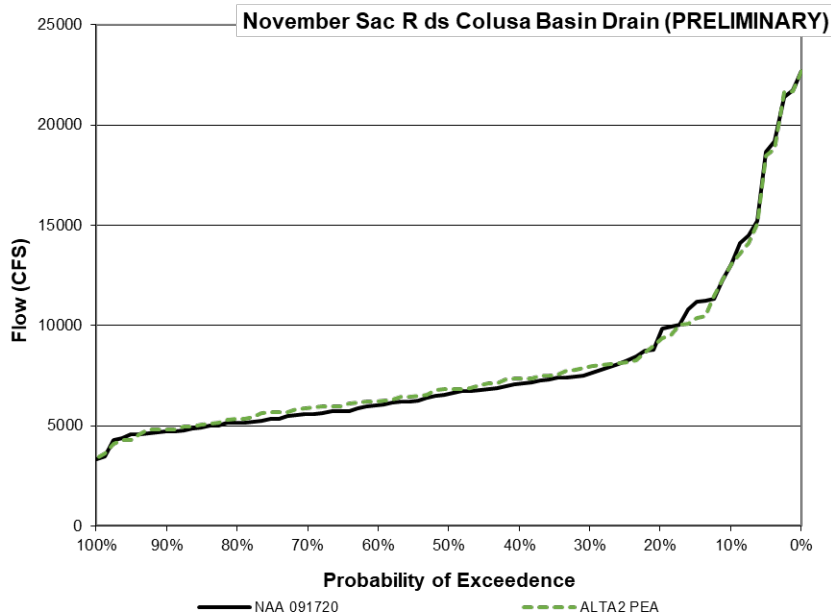
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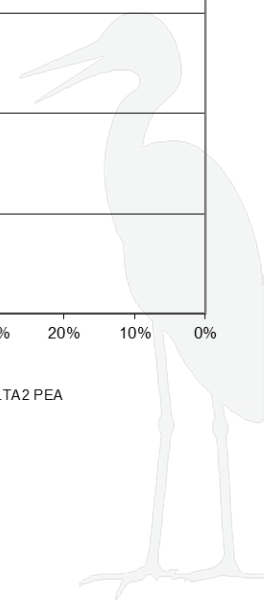
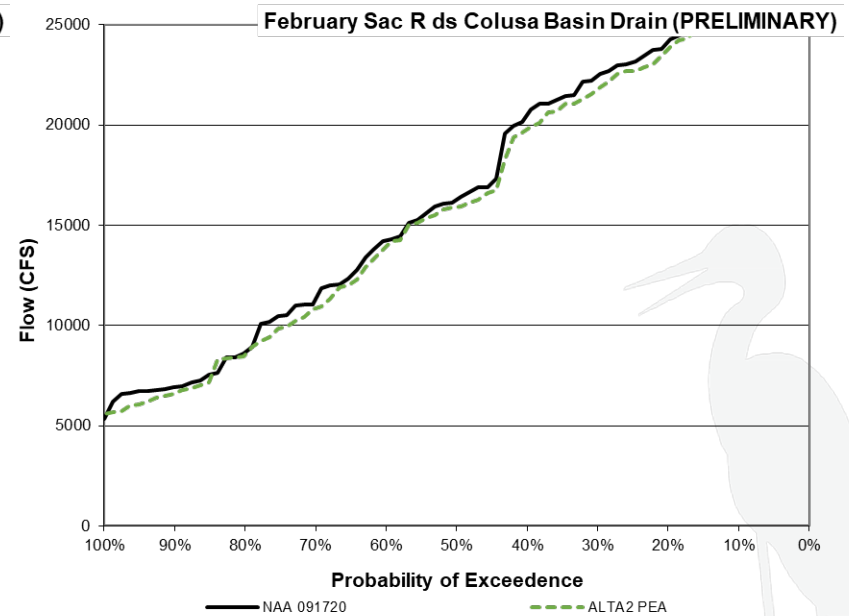
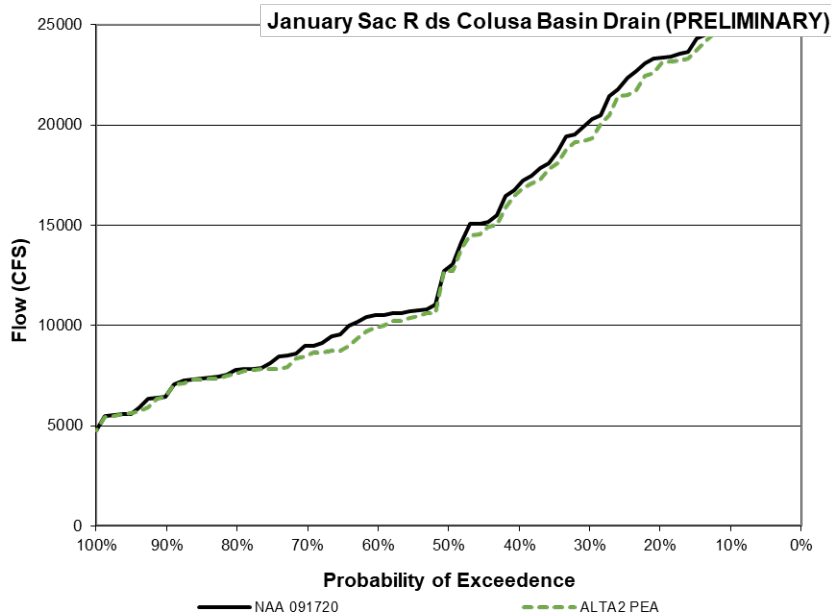
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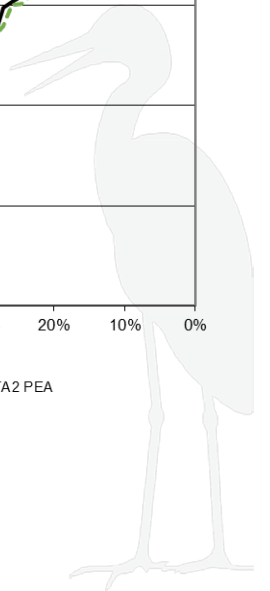
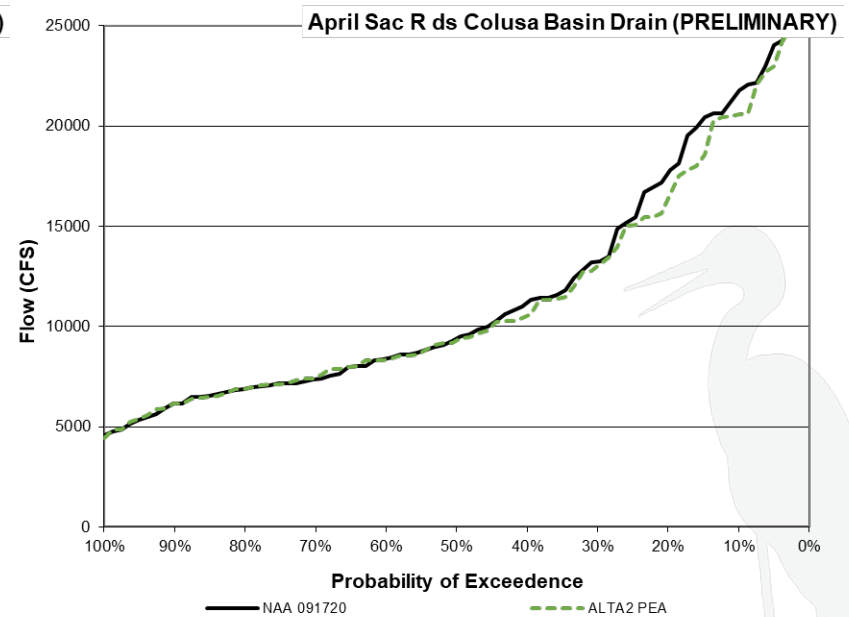
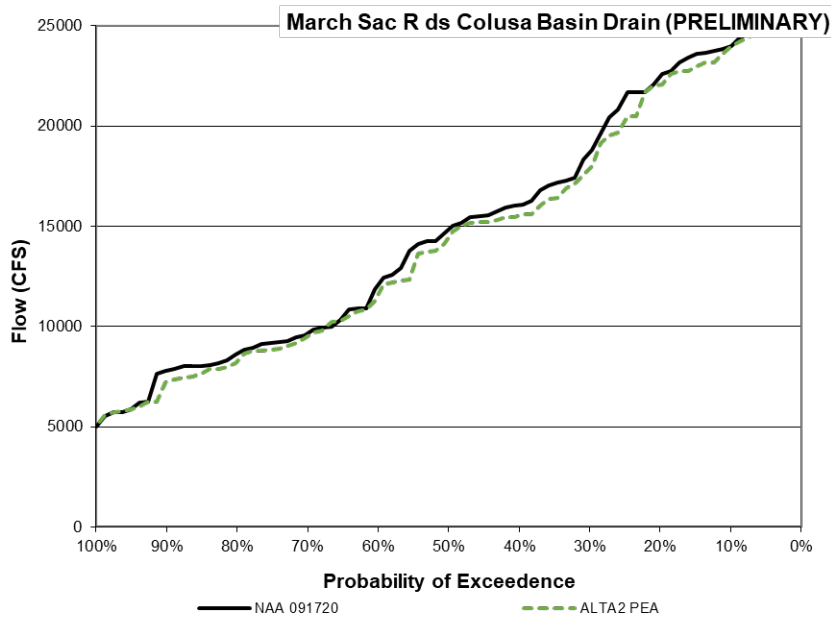
# Sacramento River downstream of Colusa Basin Drain



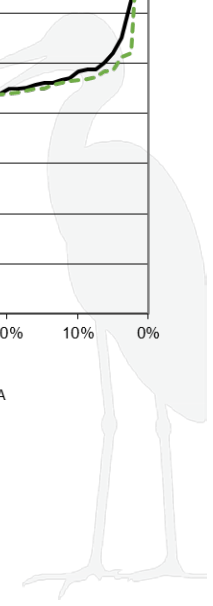
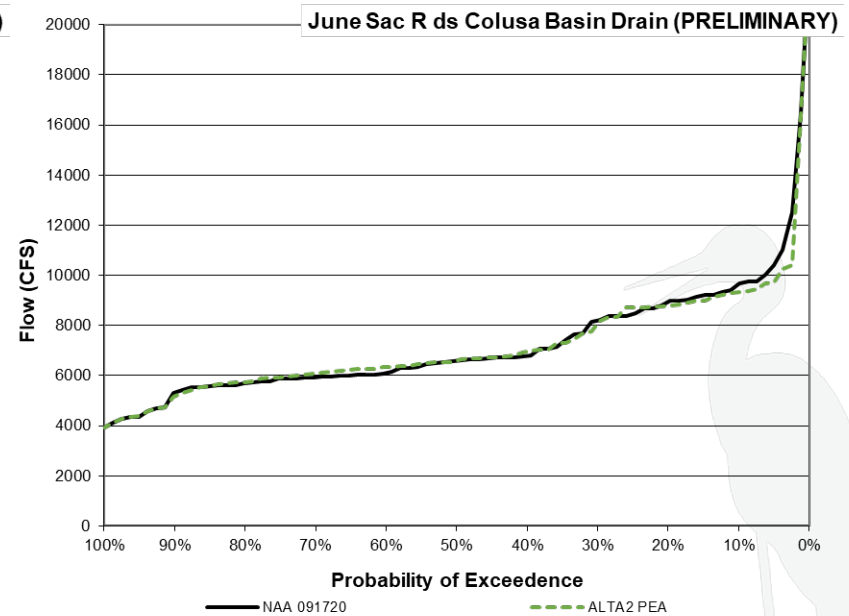
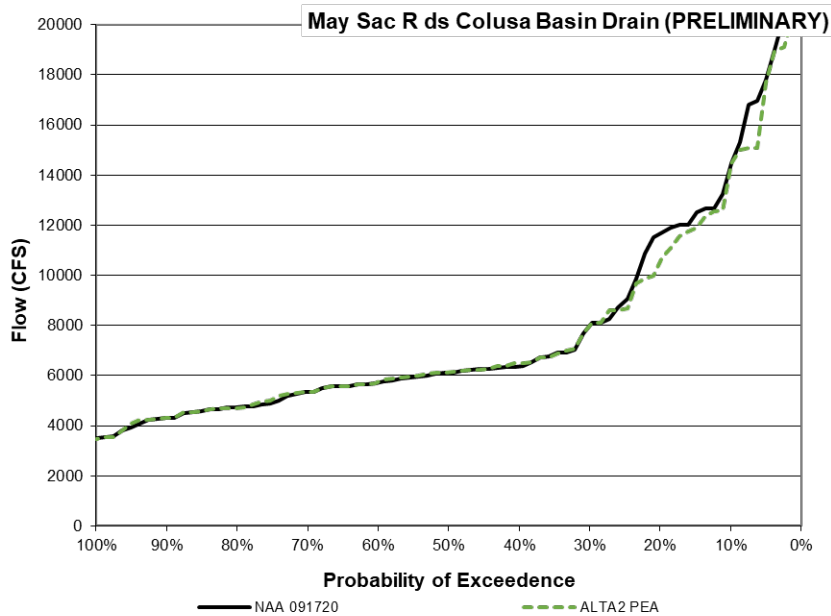
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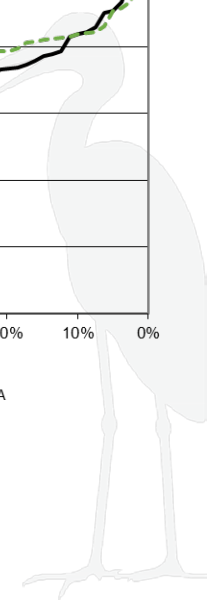
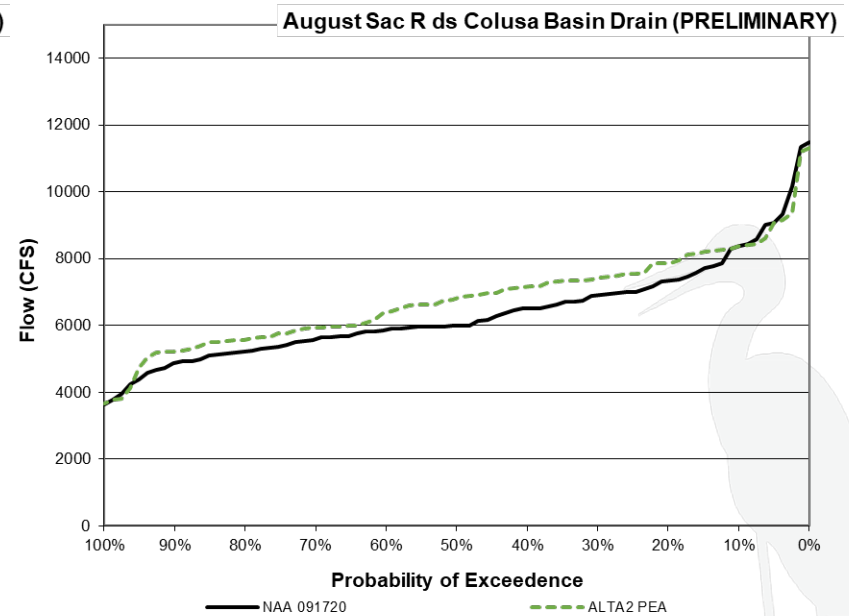
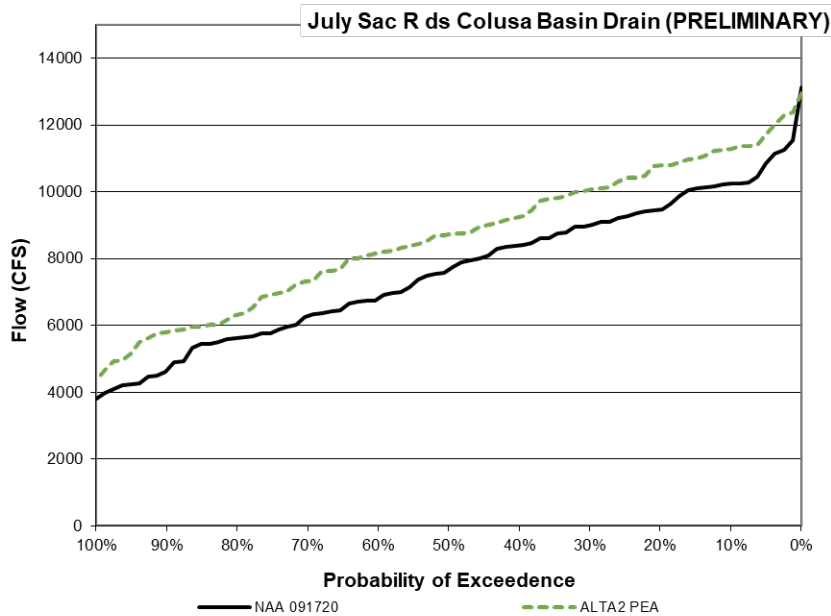
# Sacramento River downstream of Colusa Basin Drain



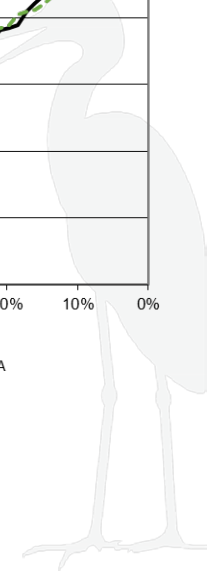
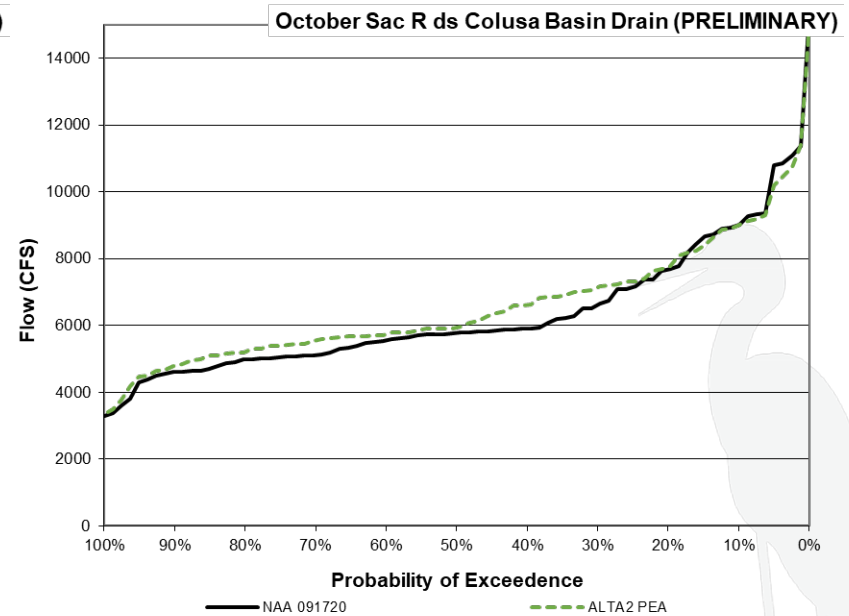
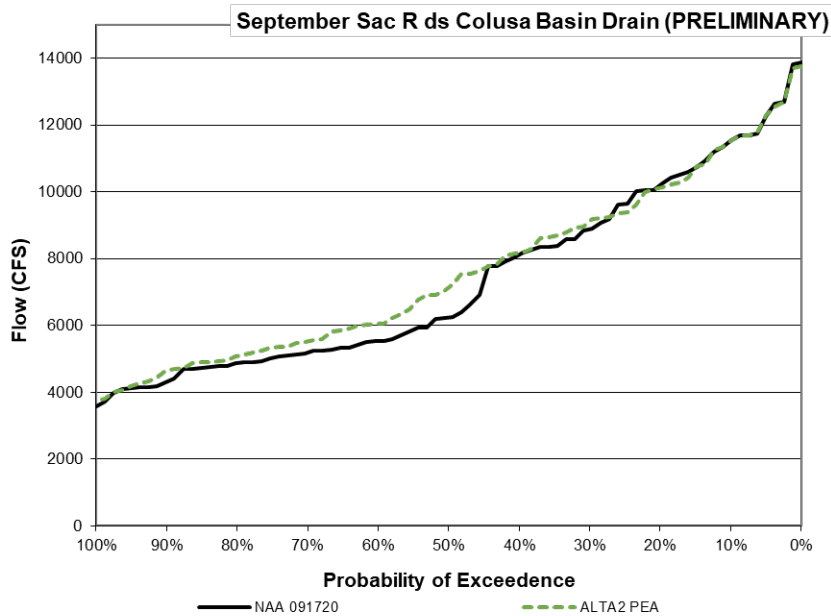
# Sacramento River downstream of Colusa Basin Drain



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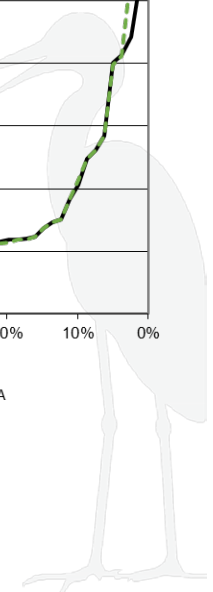
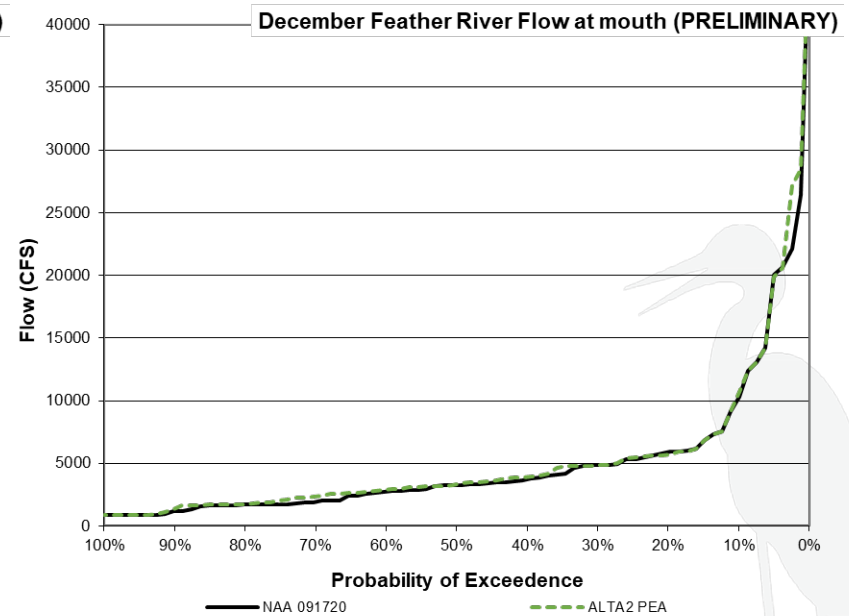
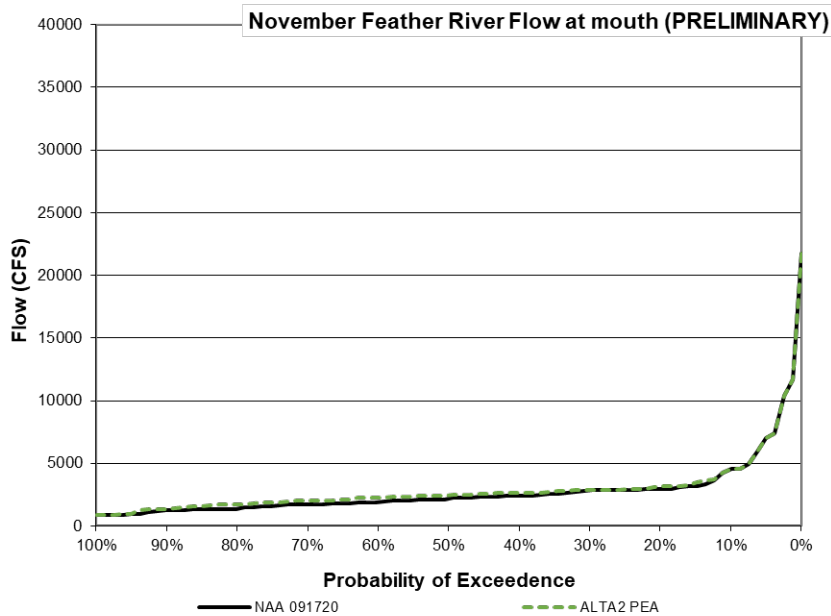


# Sacramento River downstream of Colusa Basin Drain

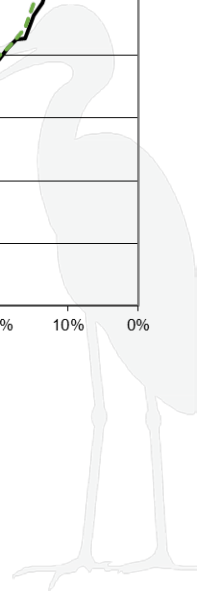
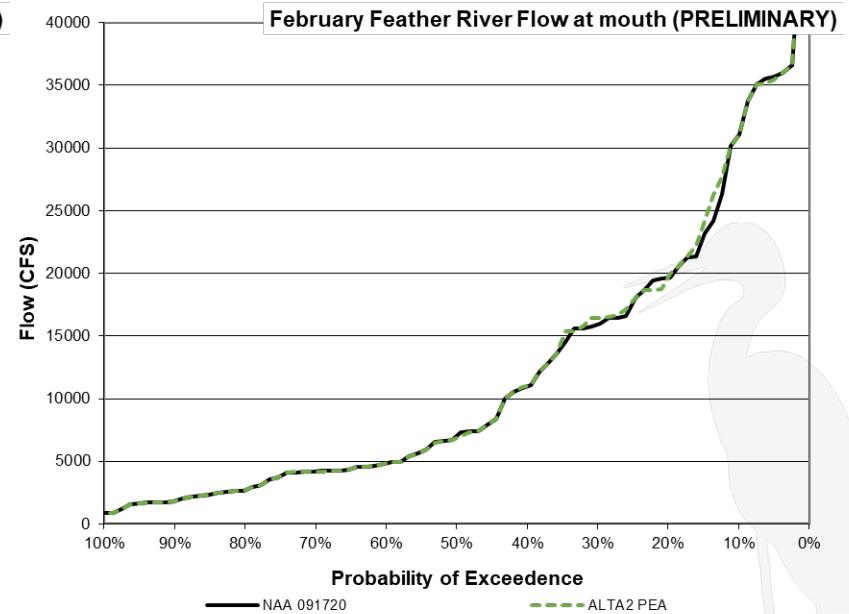
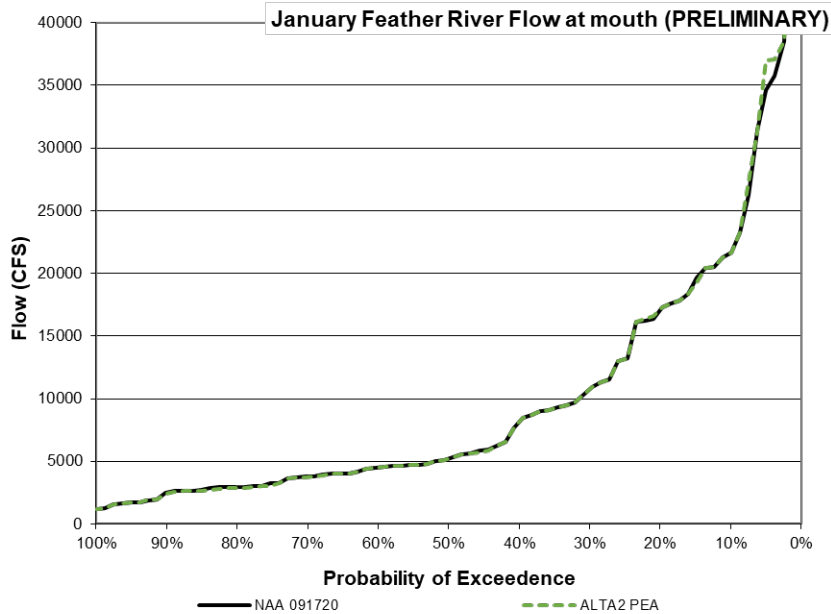




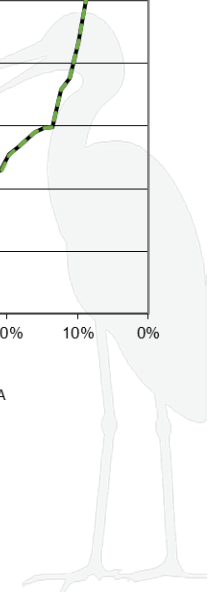
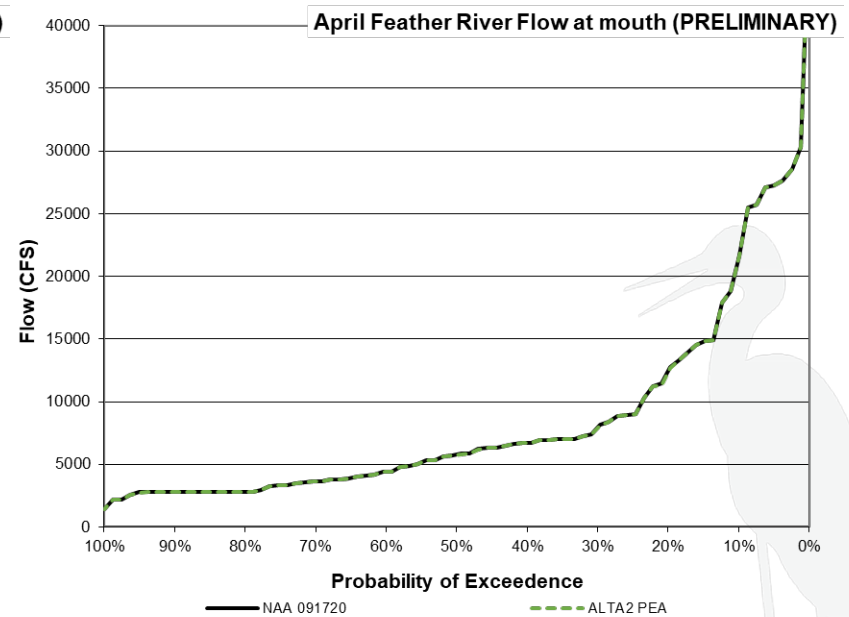
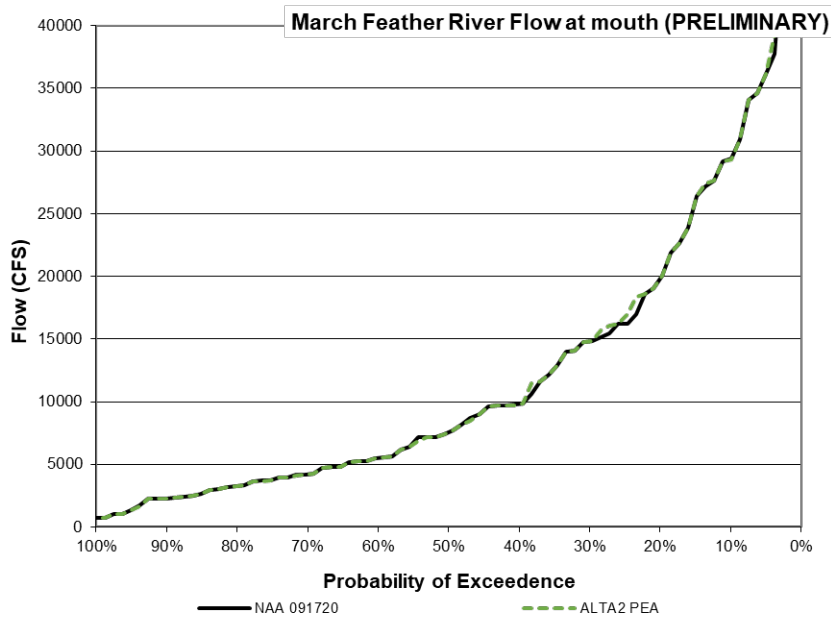
# Feather River at Mouth flow



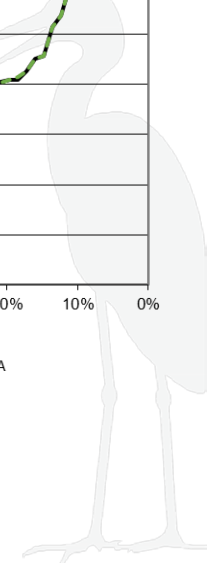
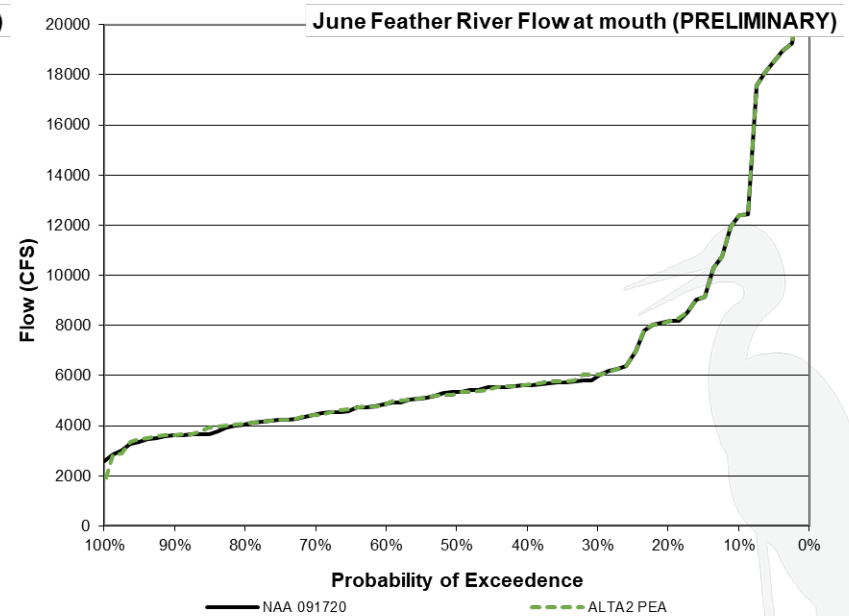
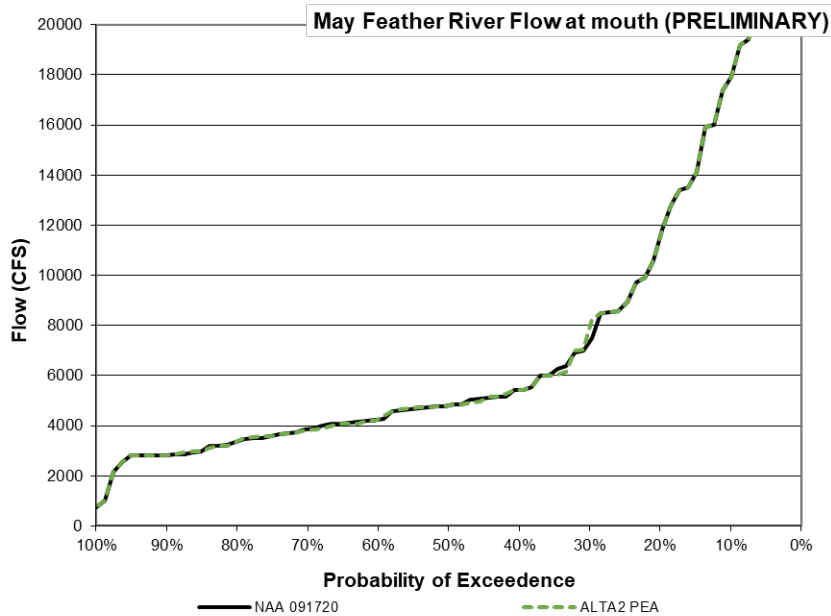
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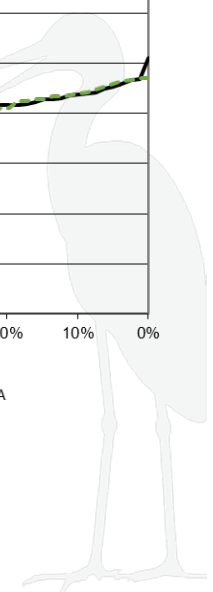
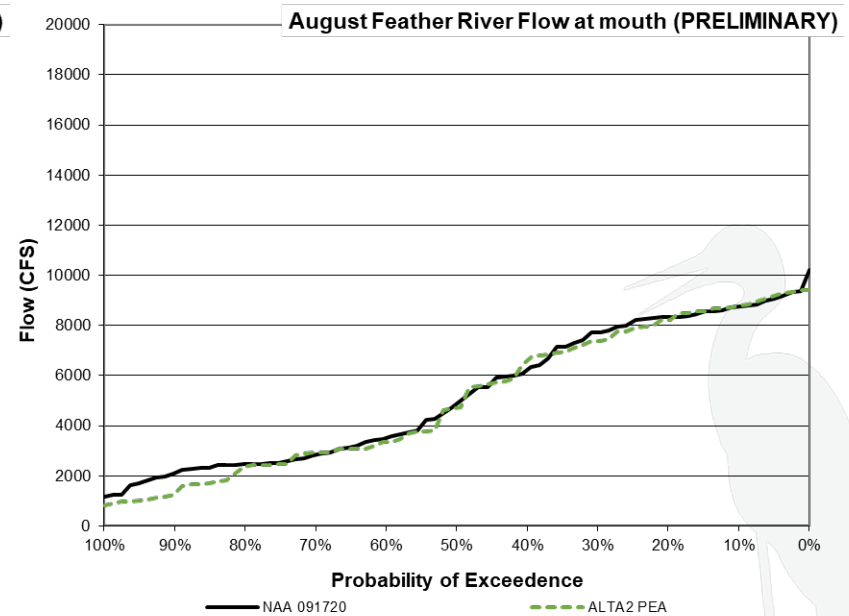
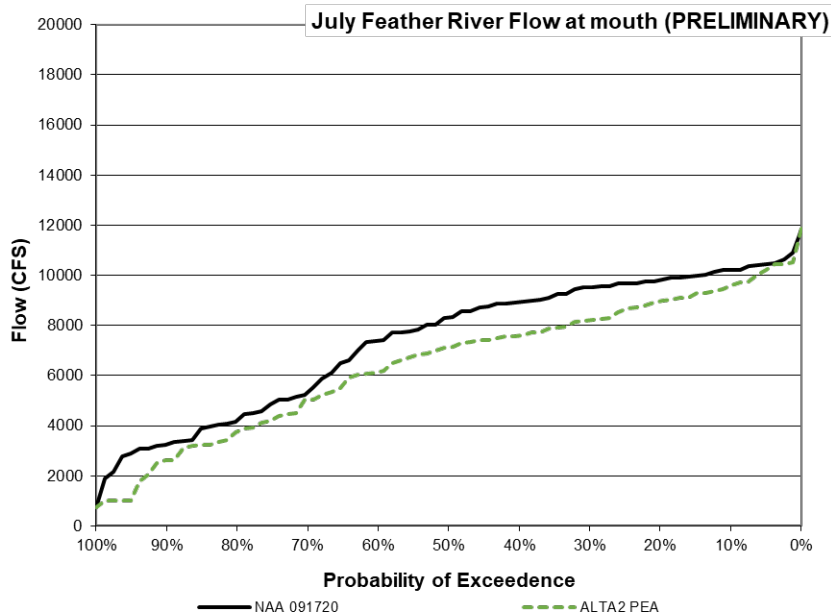
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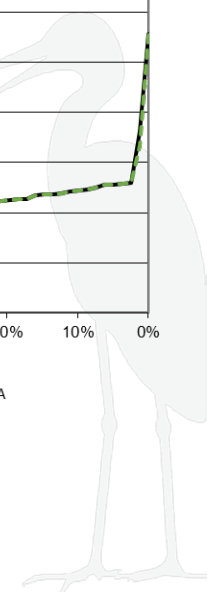
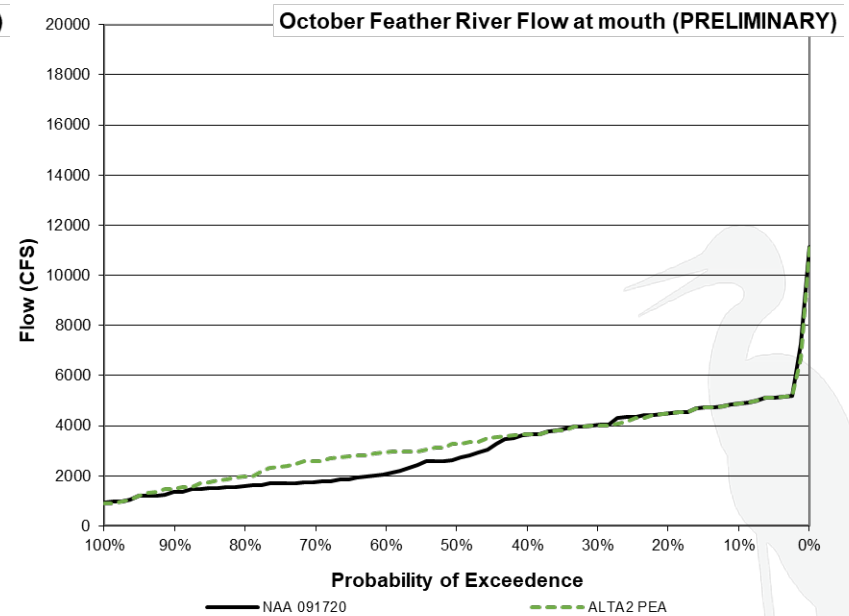
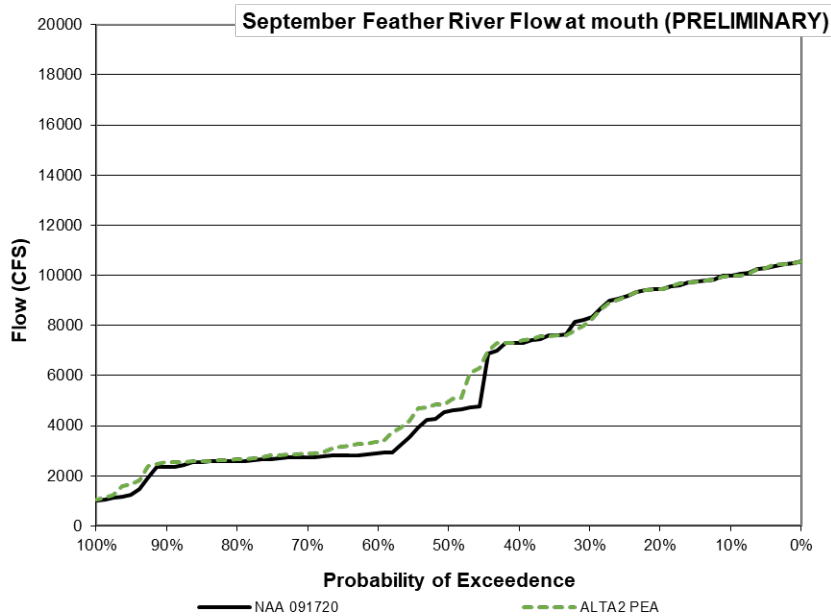
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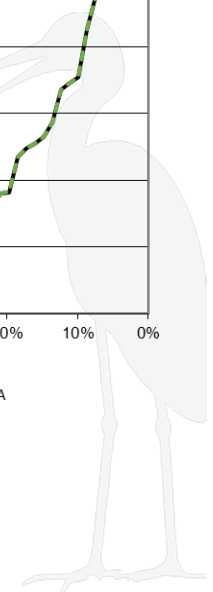
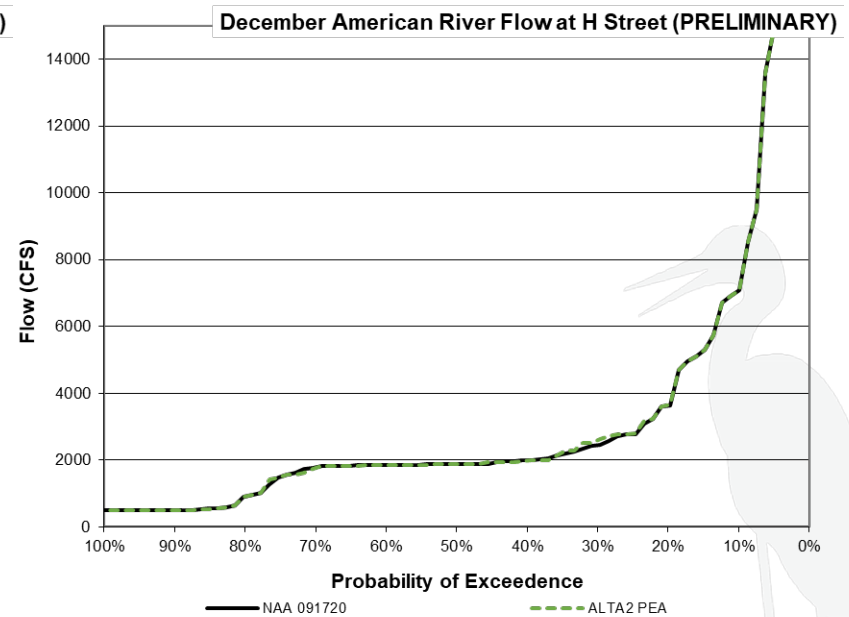
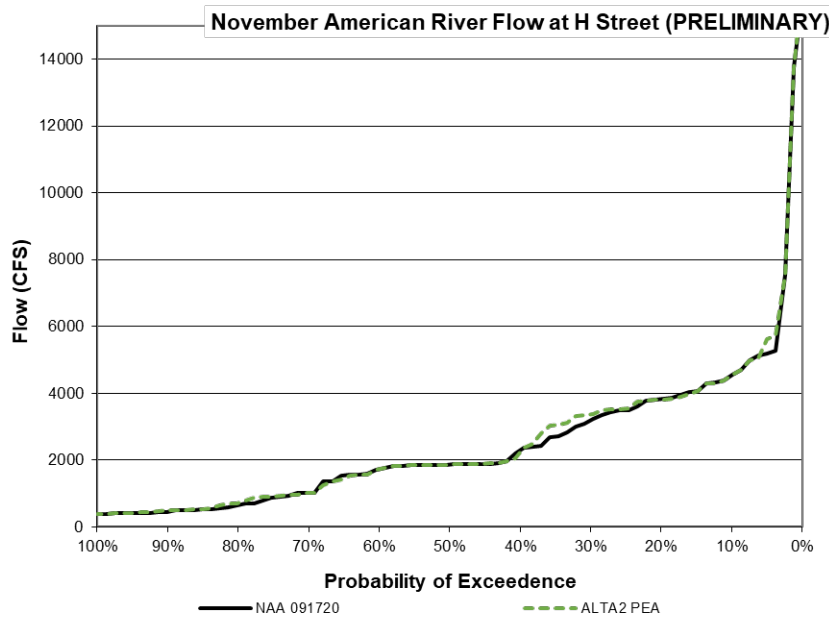
# Feather River at Mouth flow



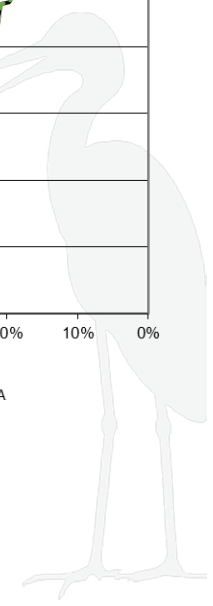
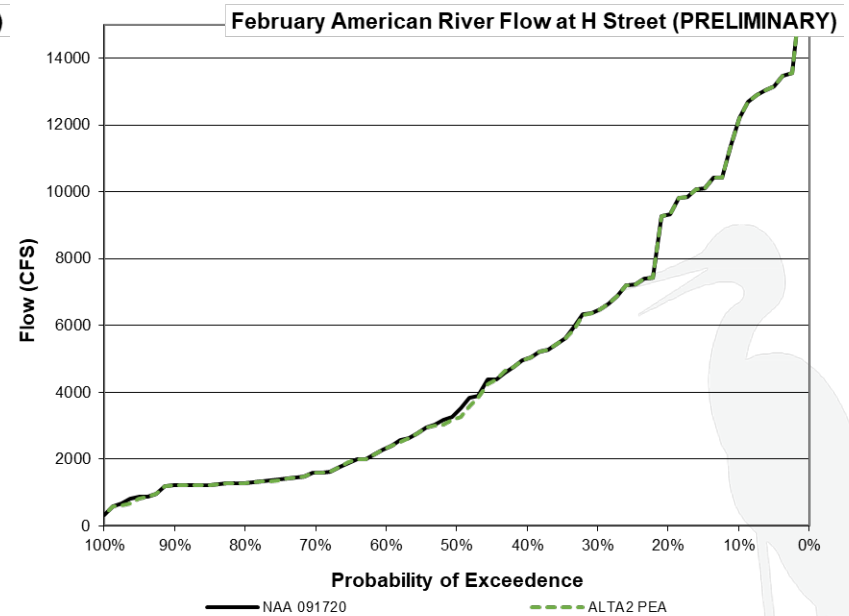
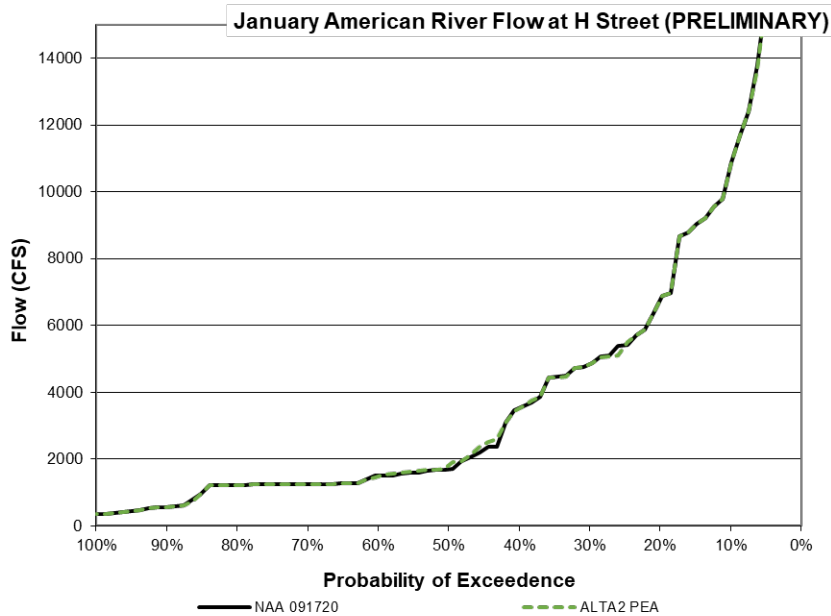
# Feather River at Mouth flow



# American River at H Street flow

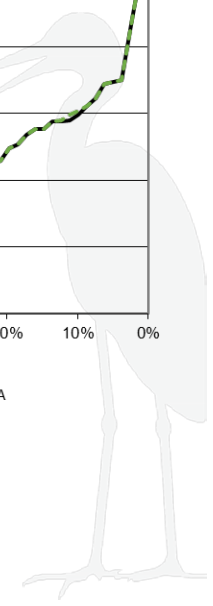
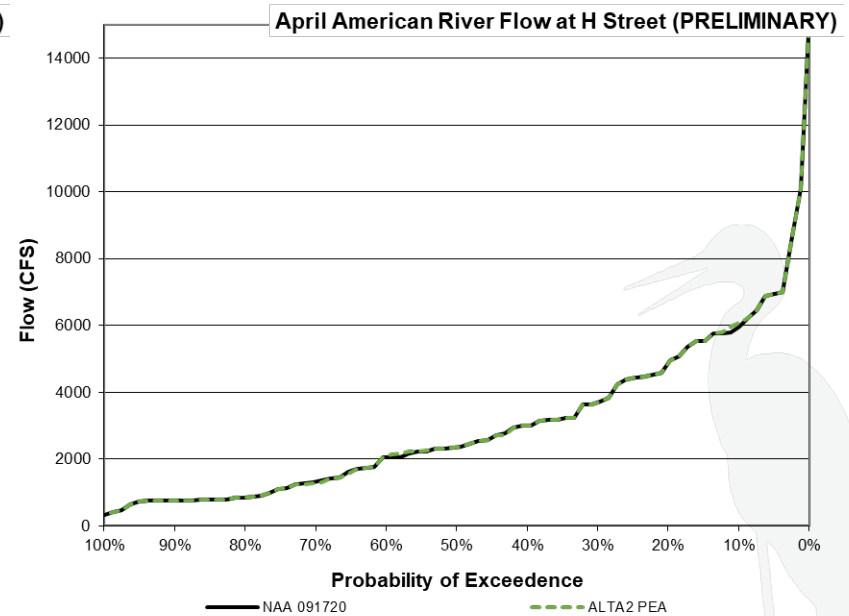
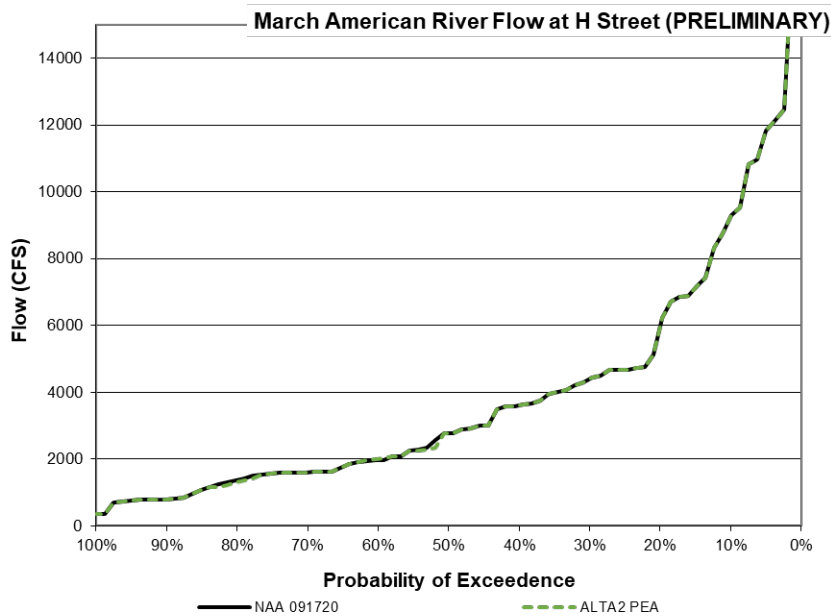


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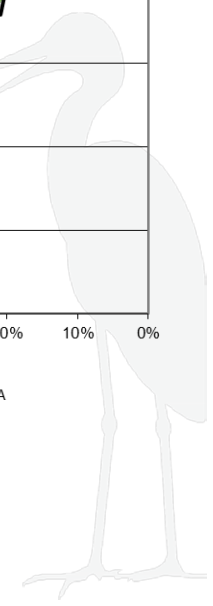
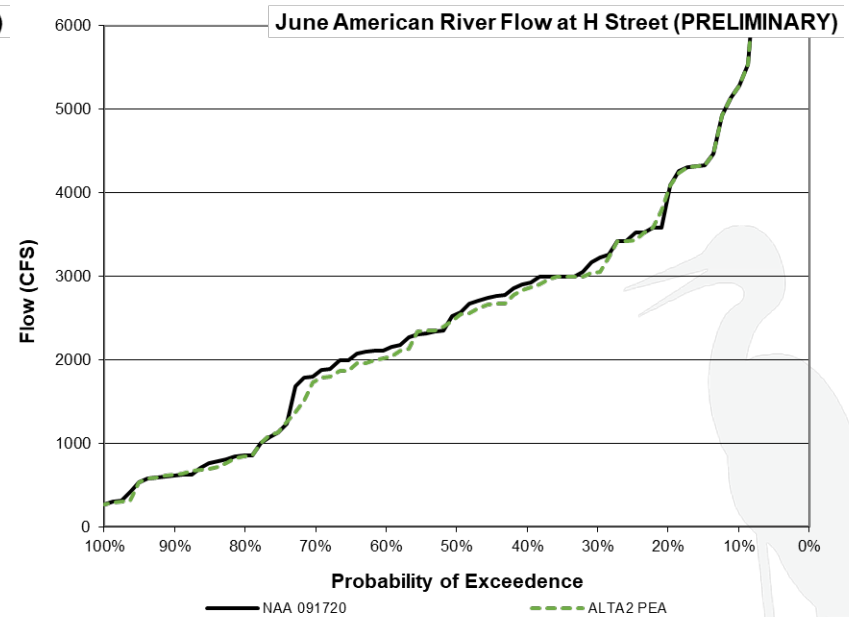
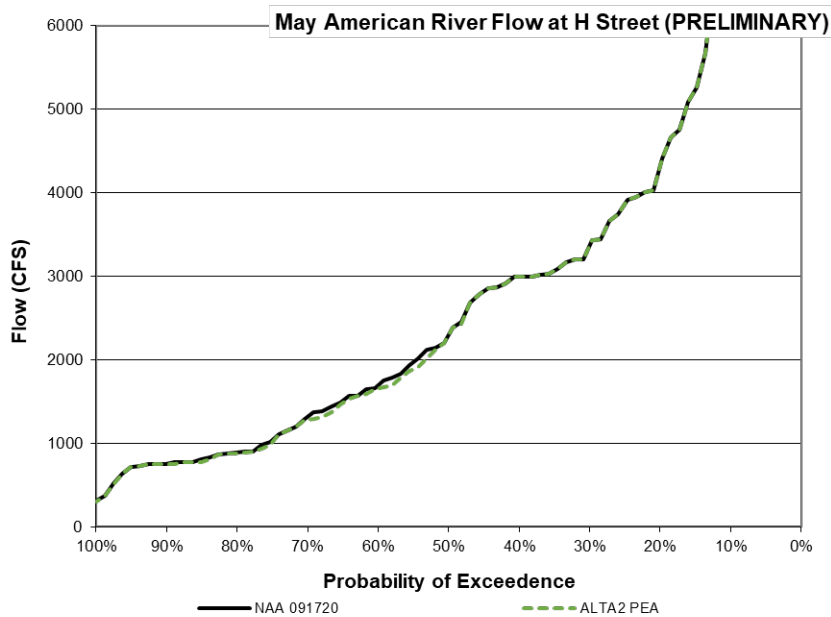




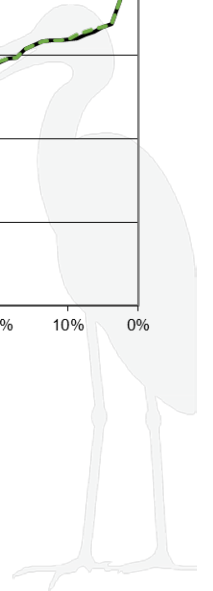
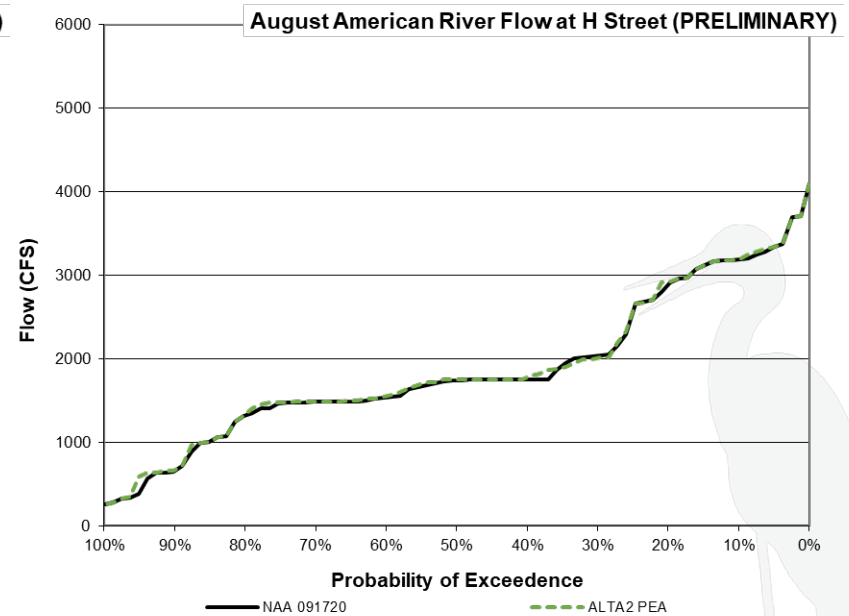
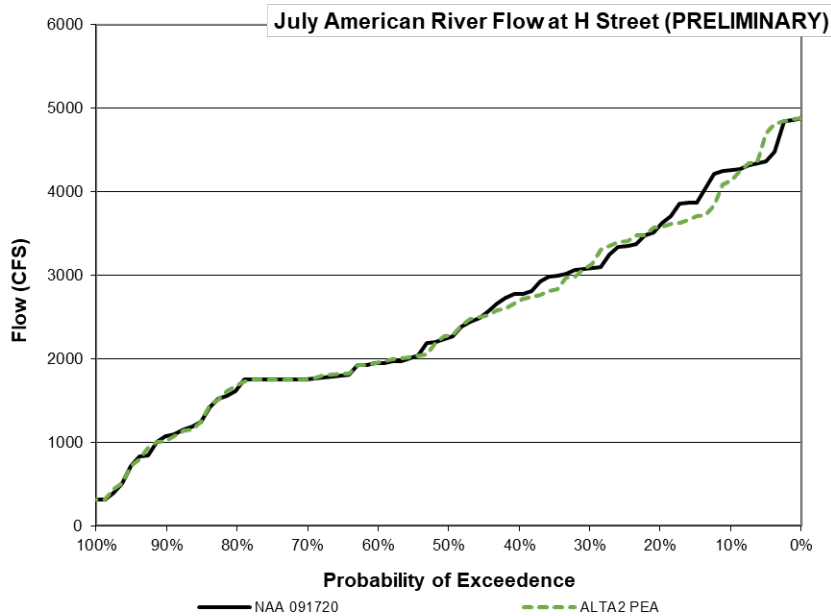
# American River at H Street flow



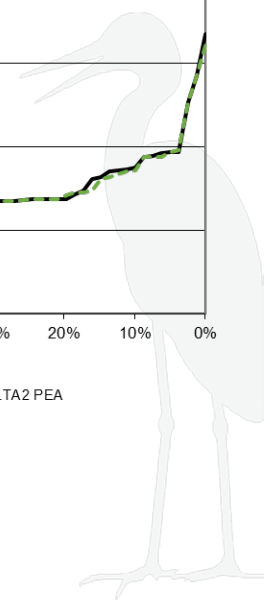
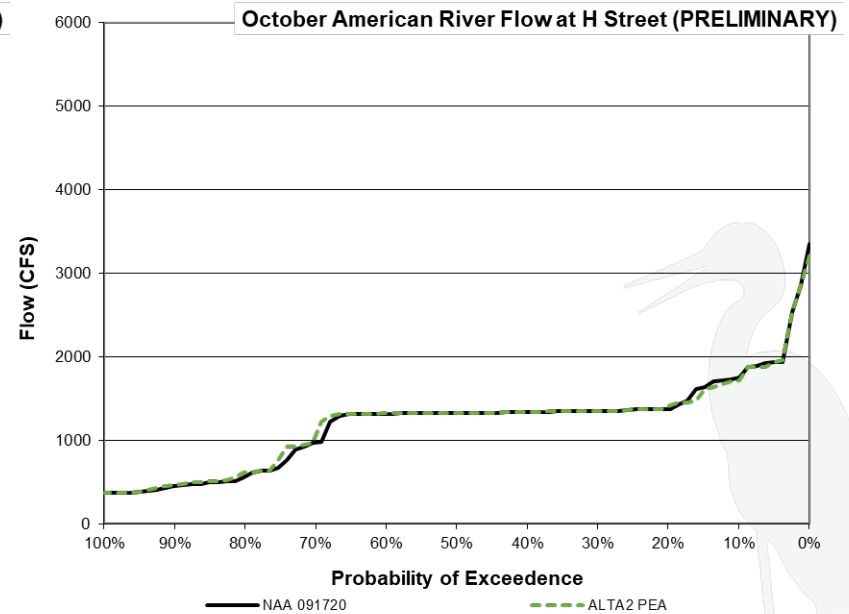
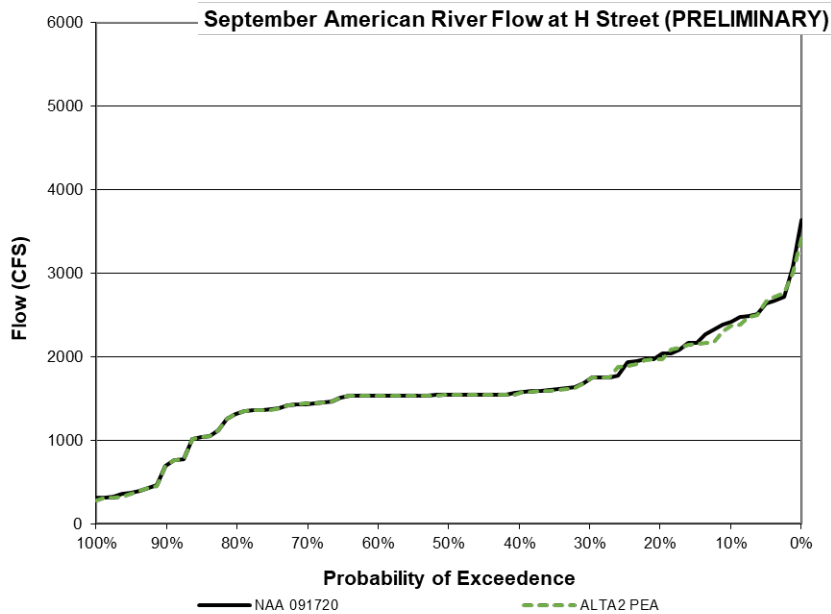
# American River at H Street flow



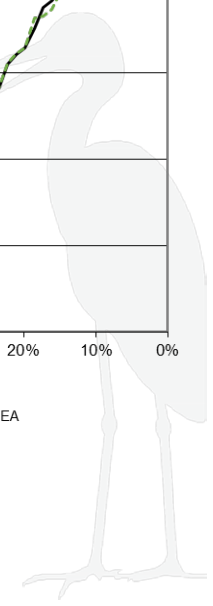
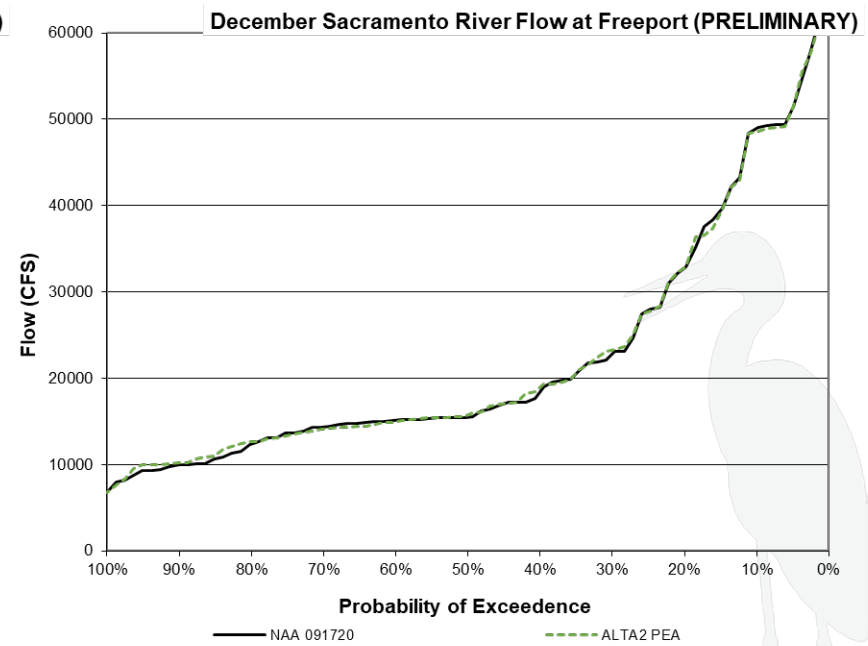
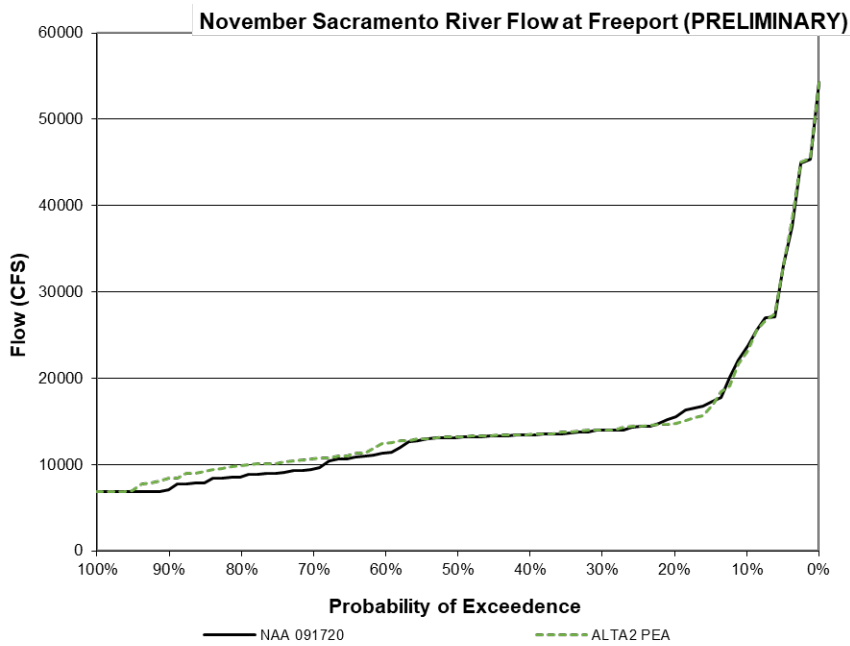
# American River at H Street flow



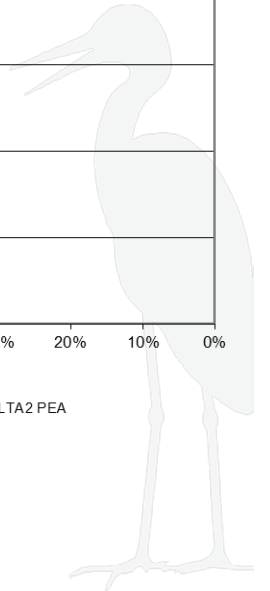
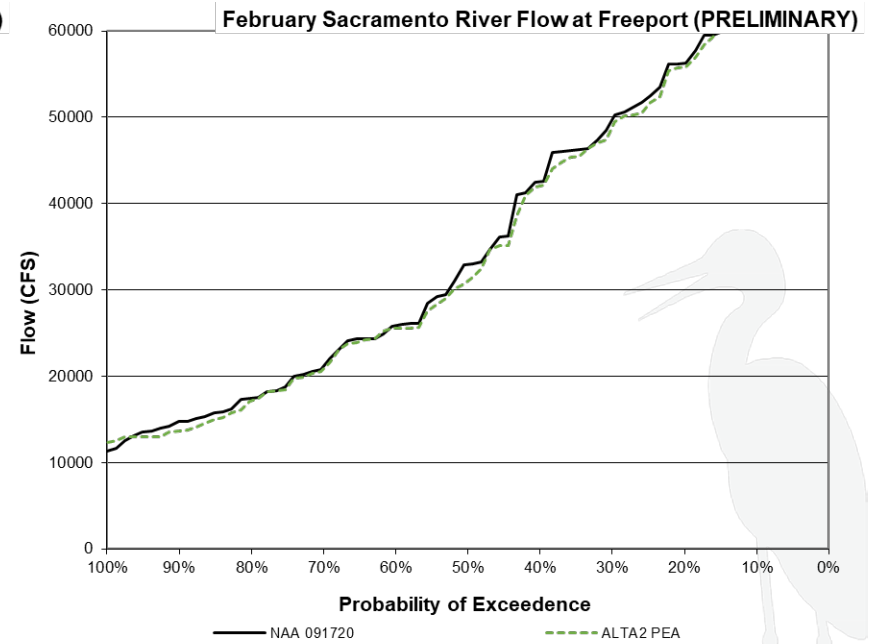
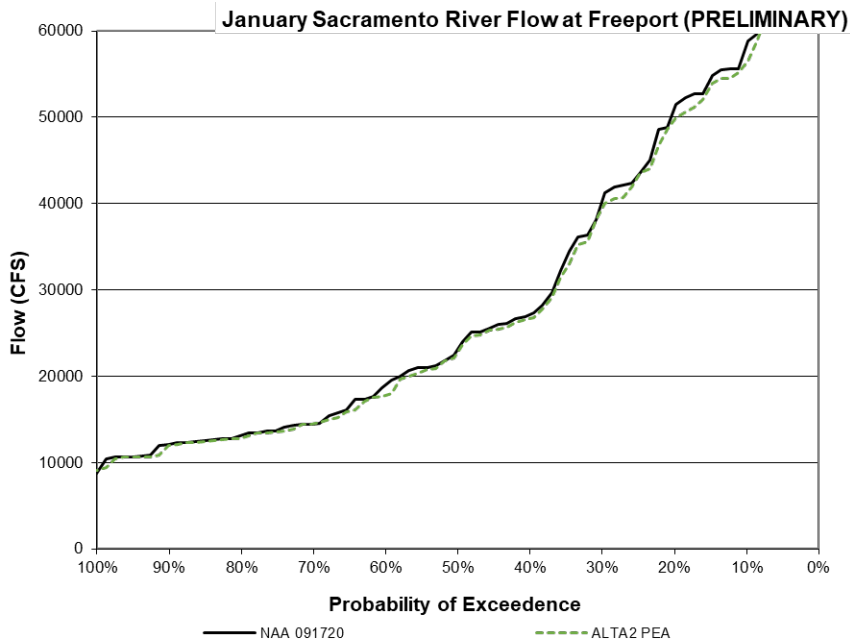
# American River at H Street flow



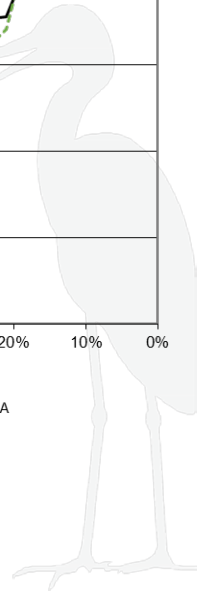
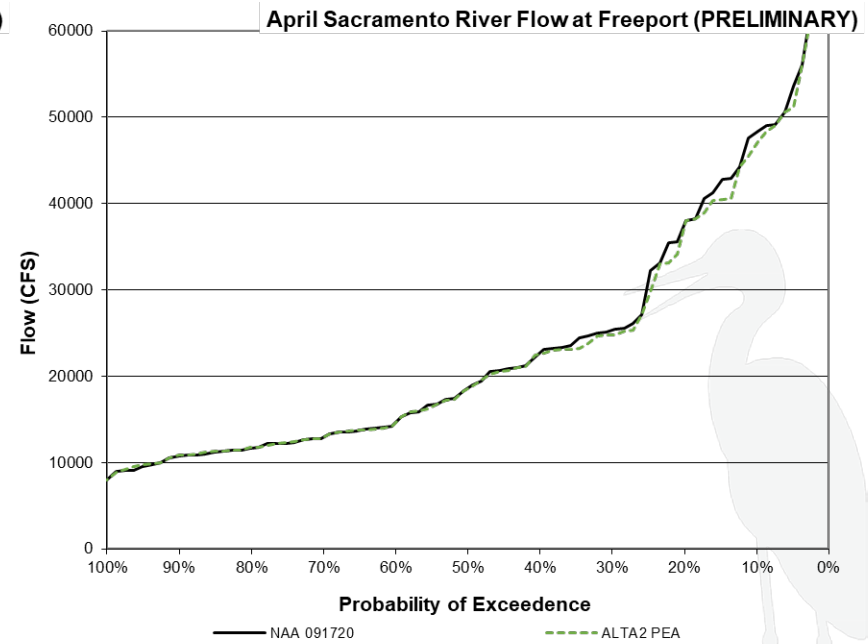
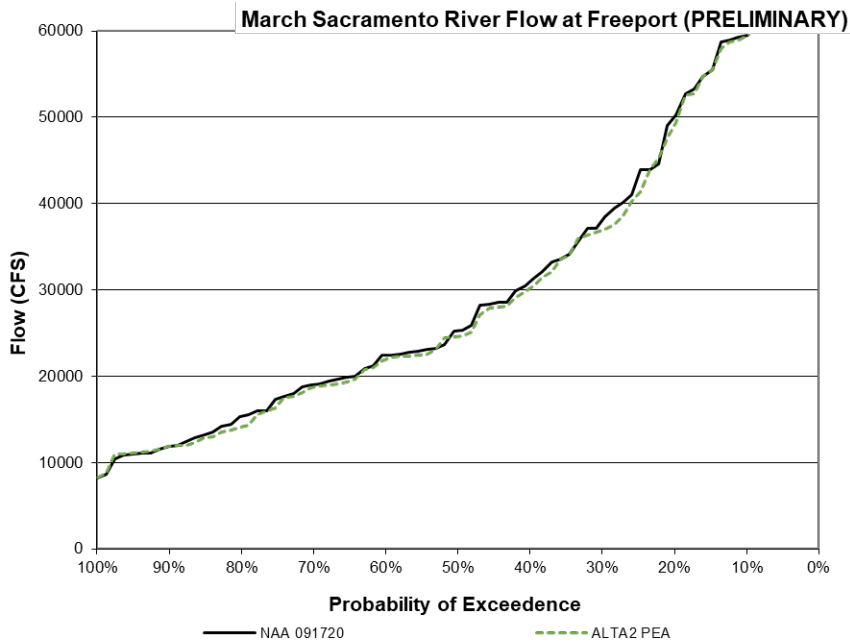
# Freeport flow



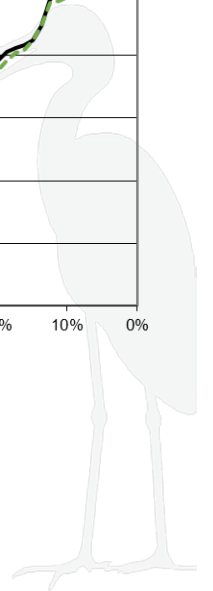
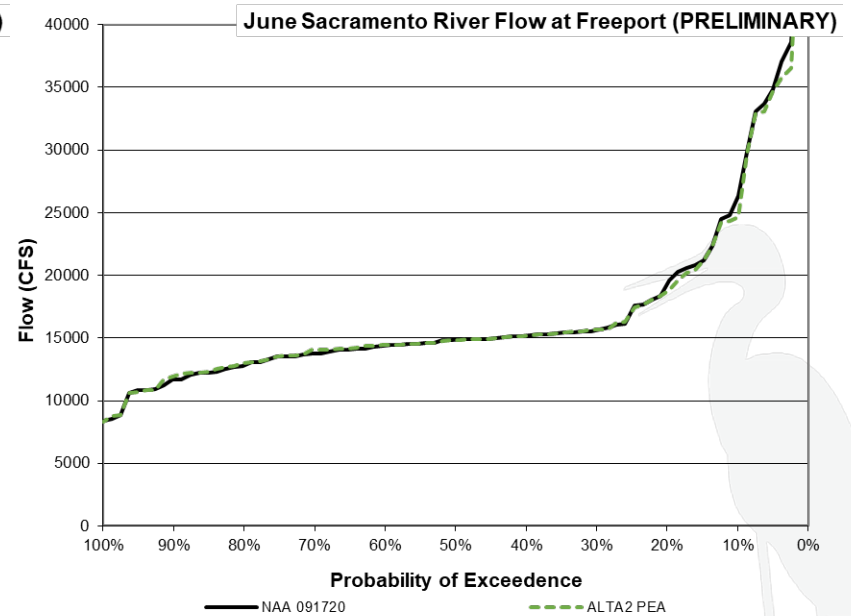
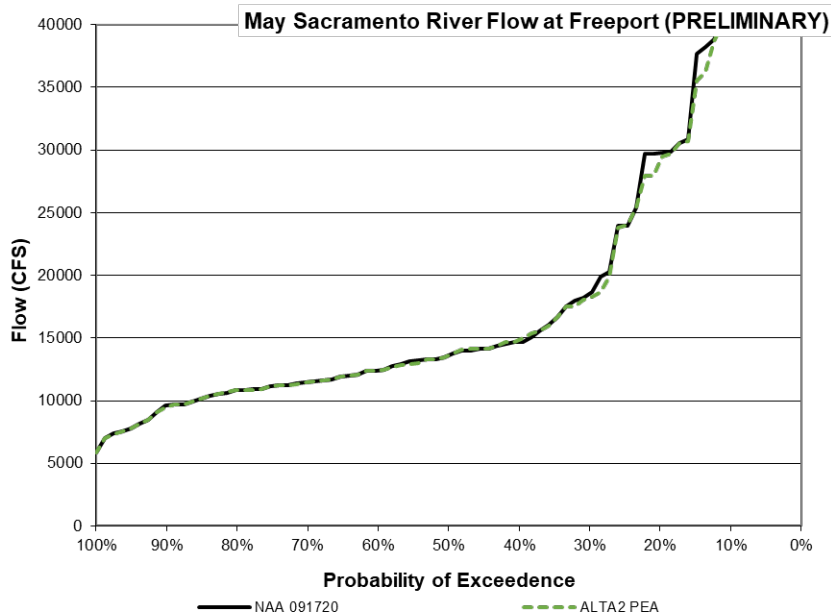
# Freeport flow



# Freeport flow

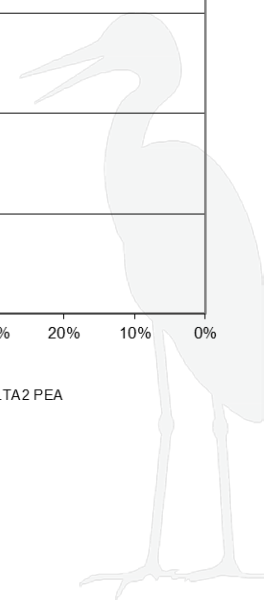
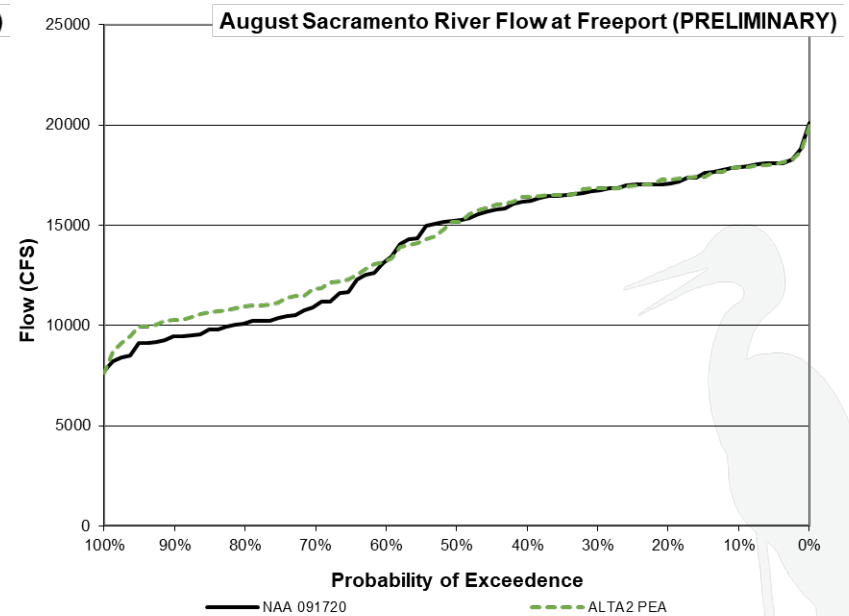
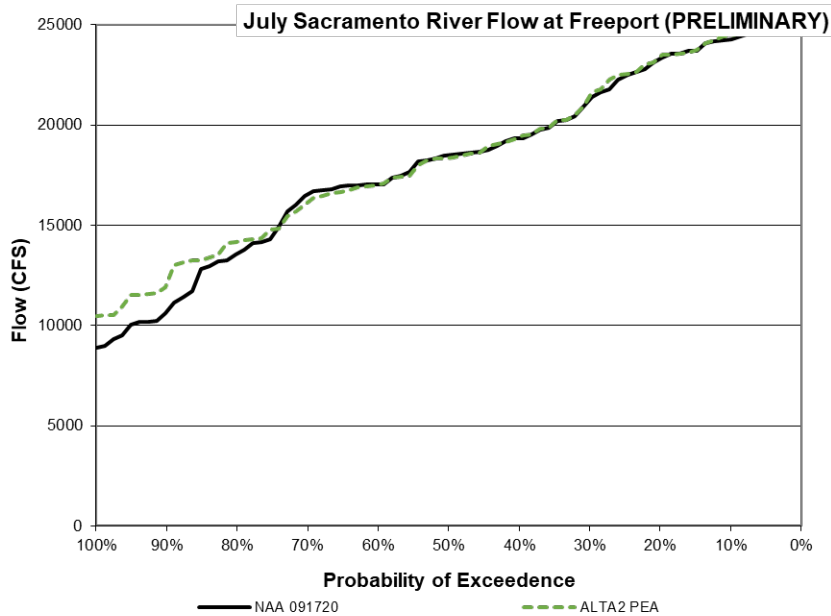


# Freeport flow

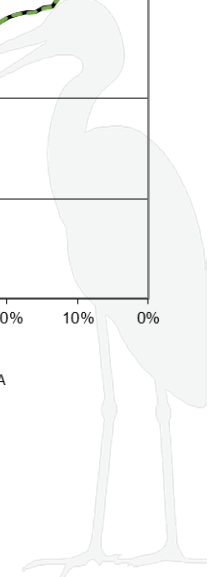
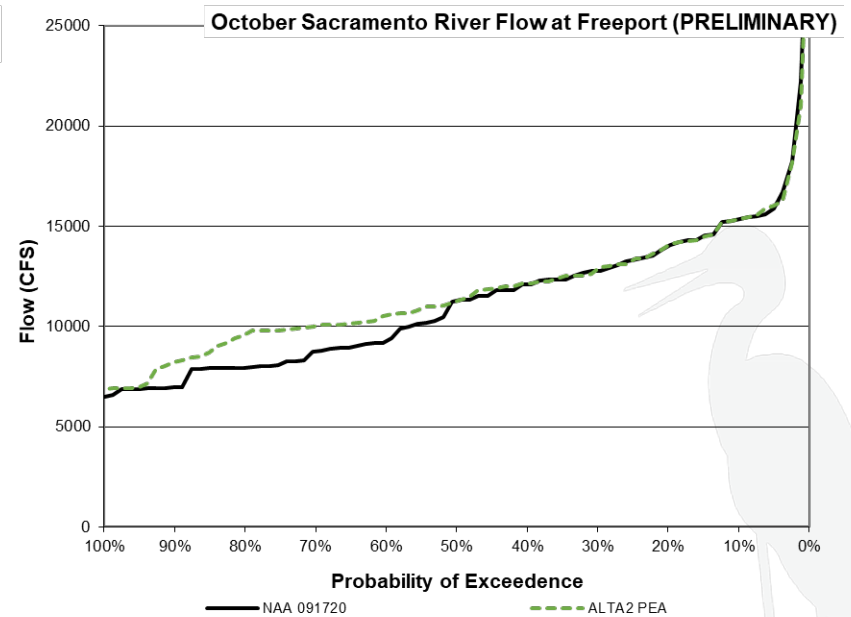
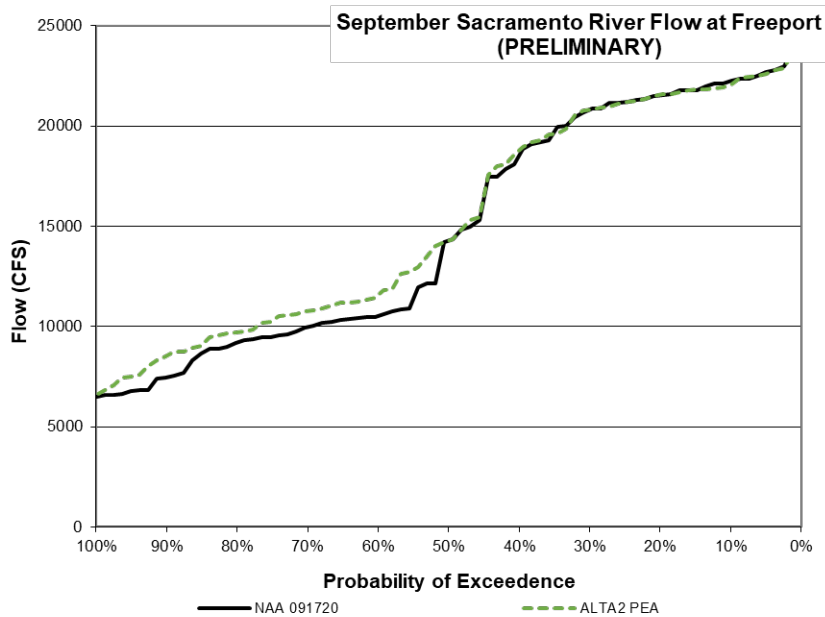




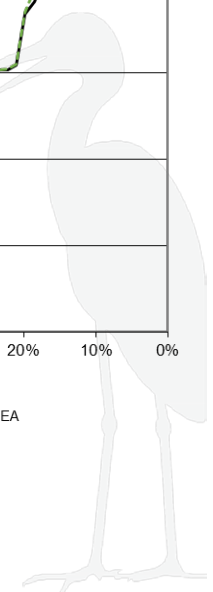
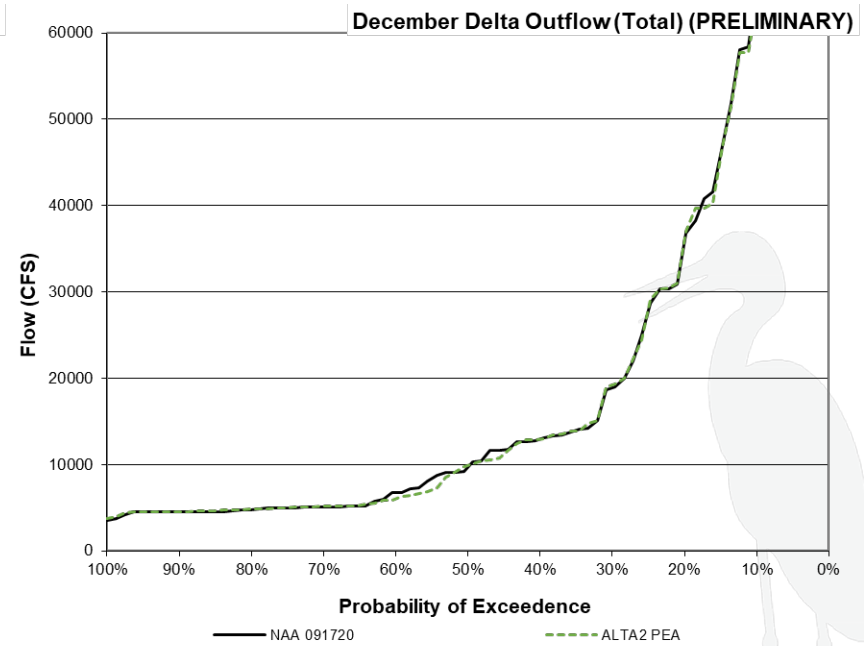
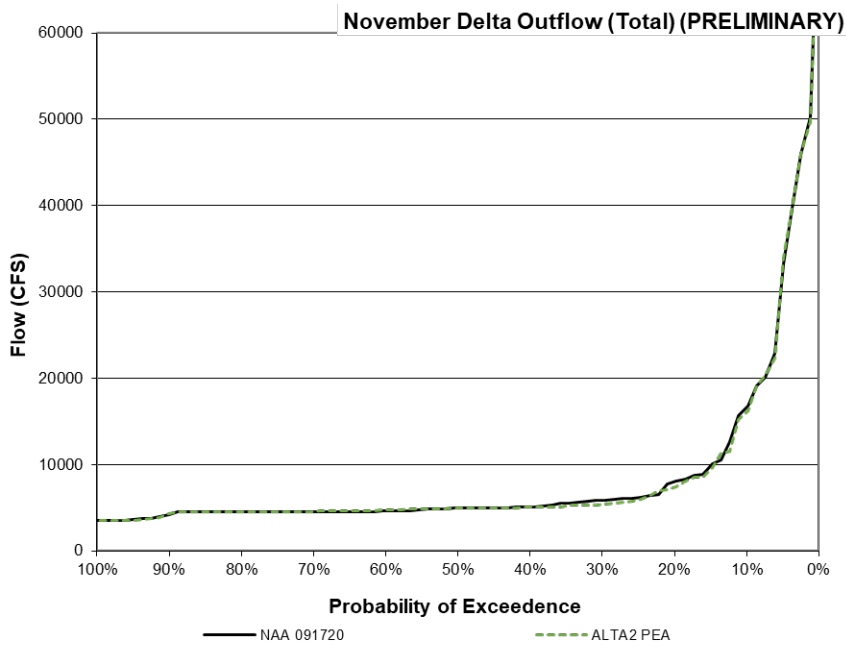
# Freeport flow



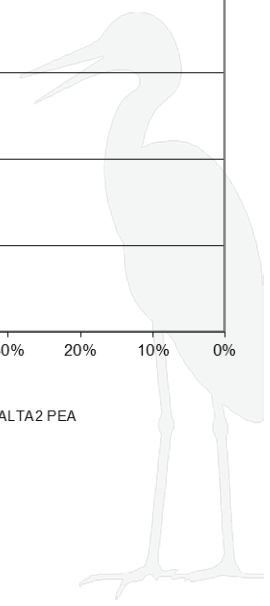
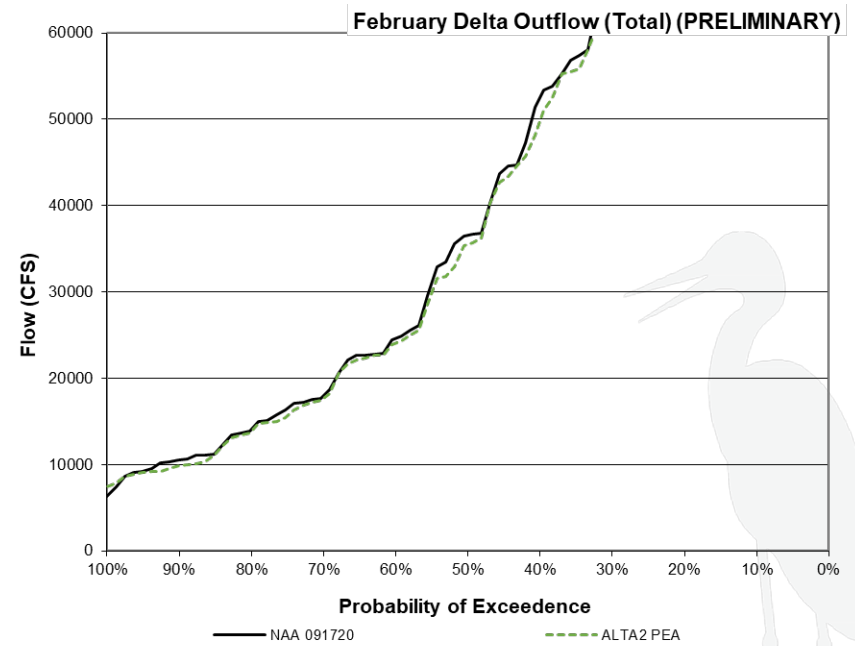
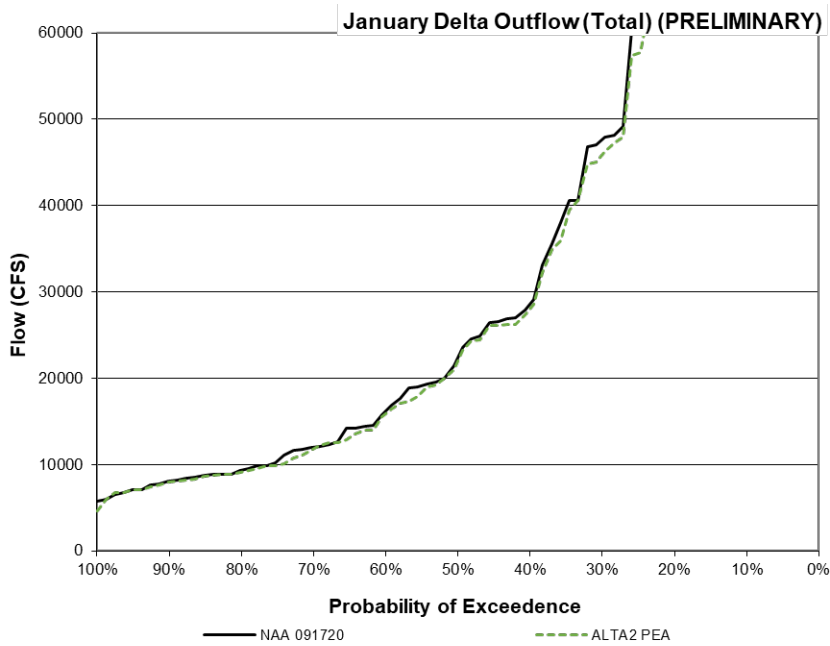
# Freeport flow



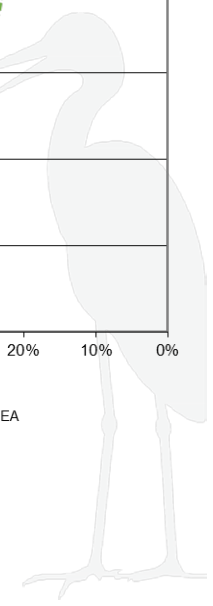
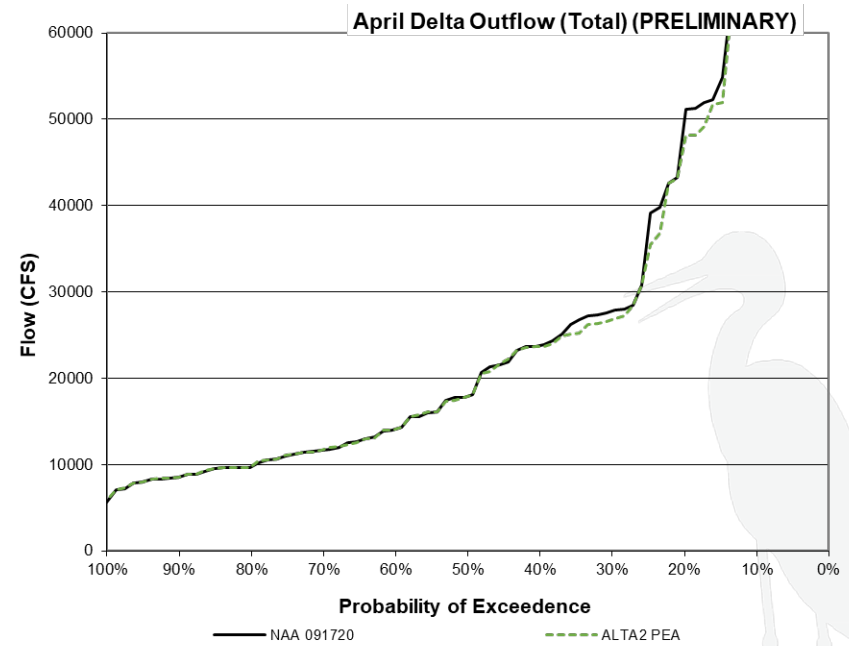
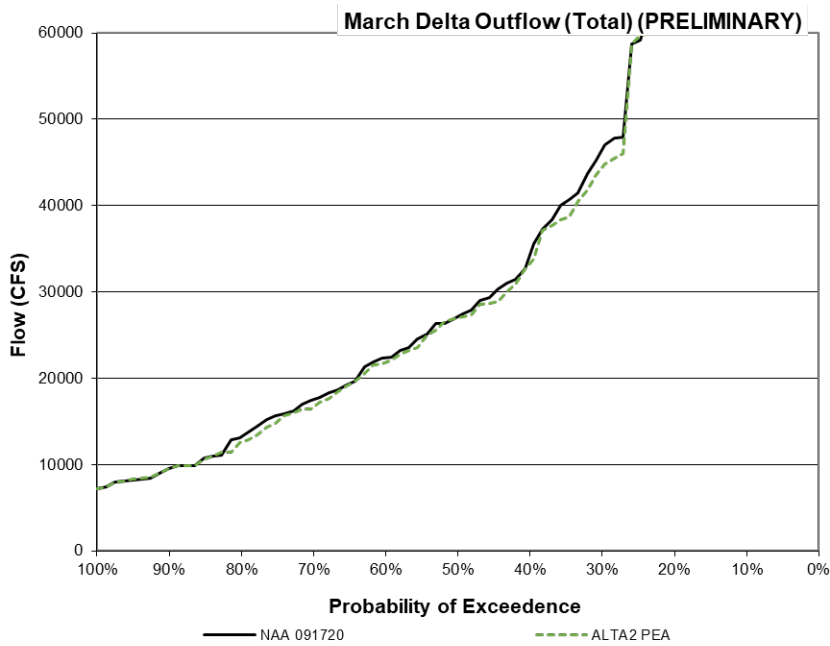
# Delta Outflow



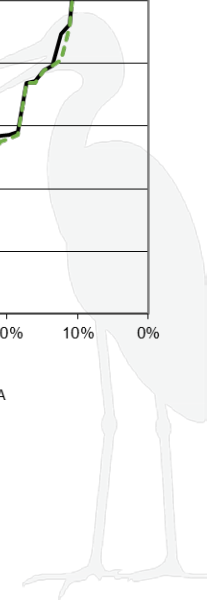
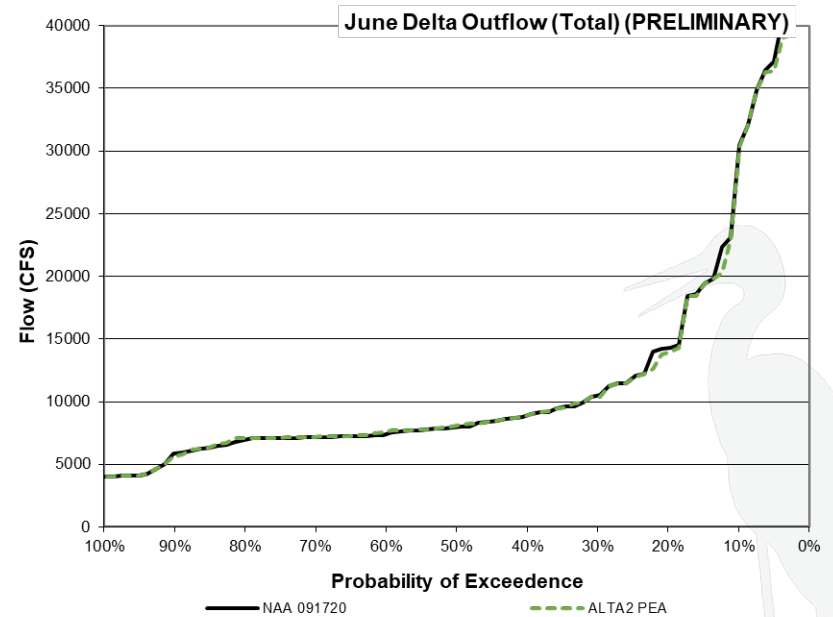
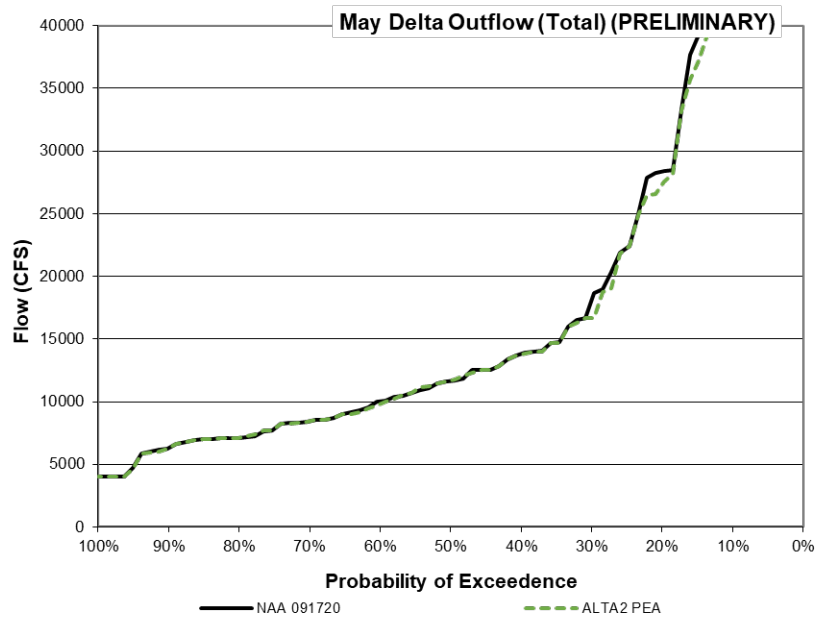
# Delta Outflow



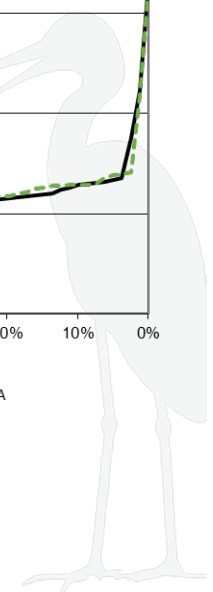
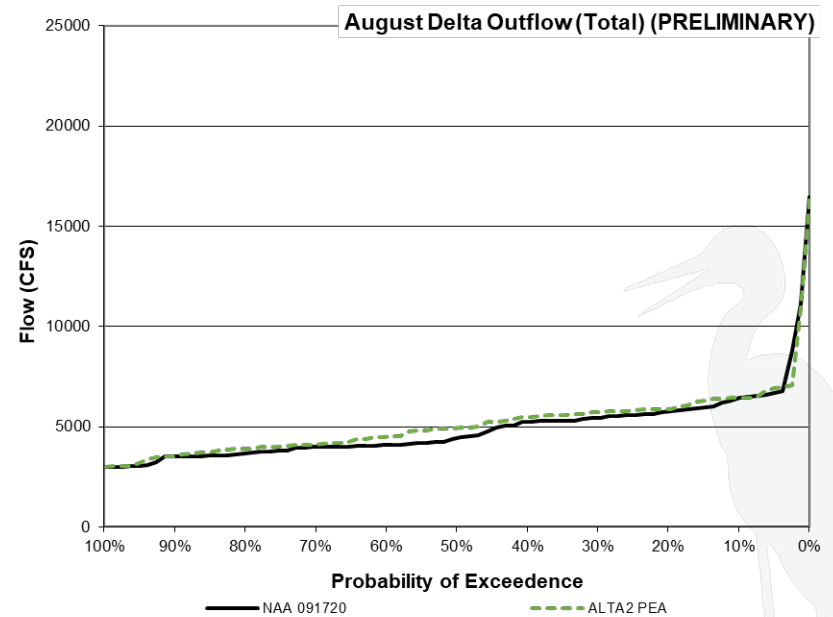
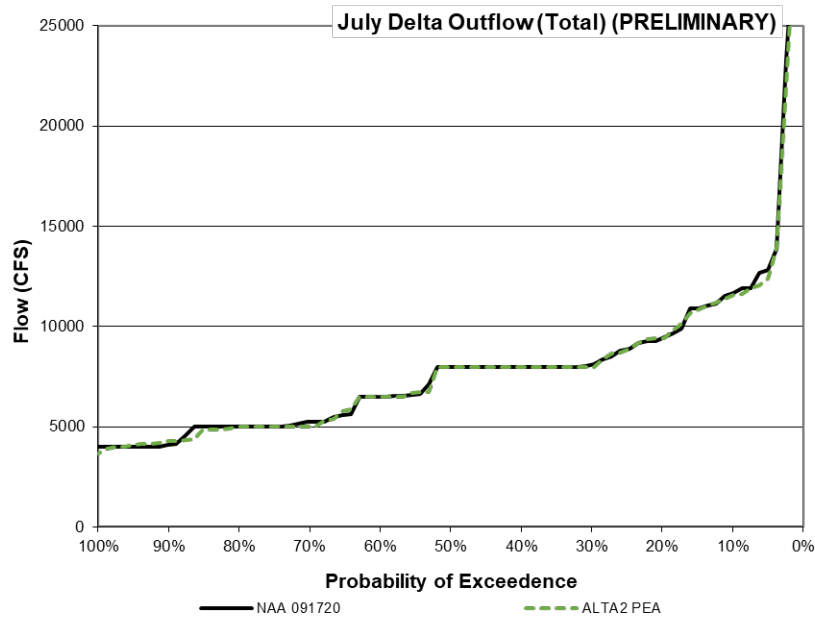
# Delta Outflow



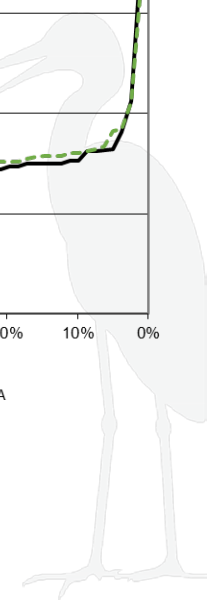
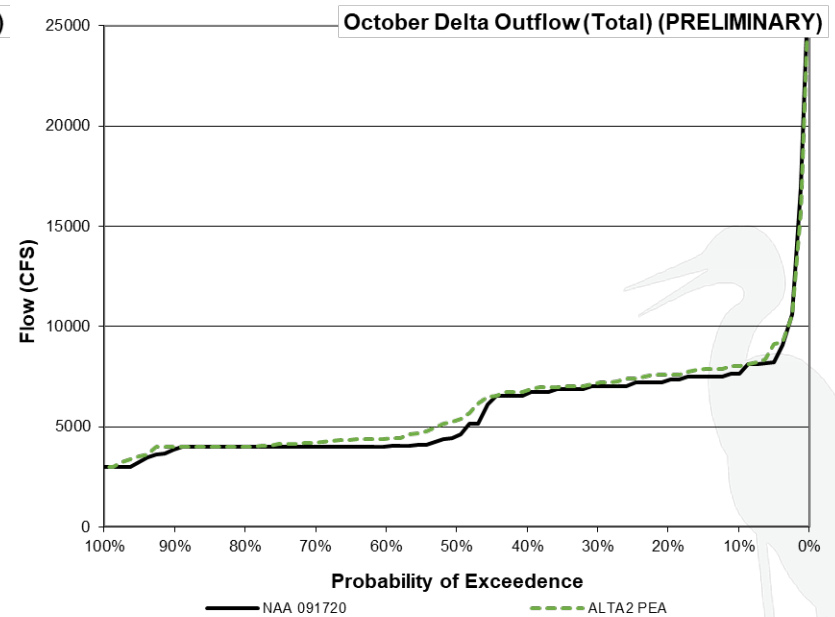
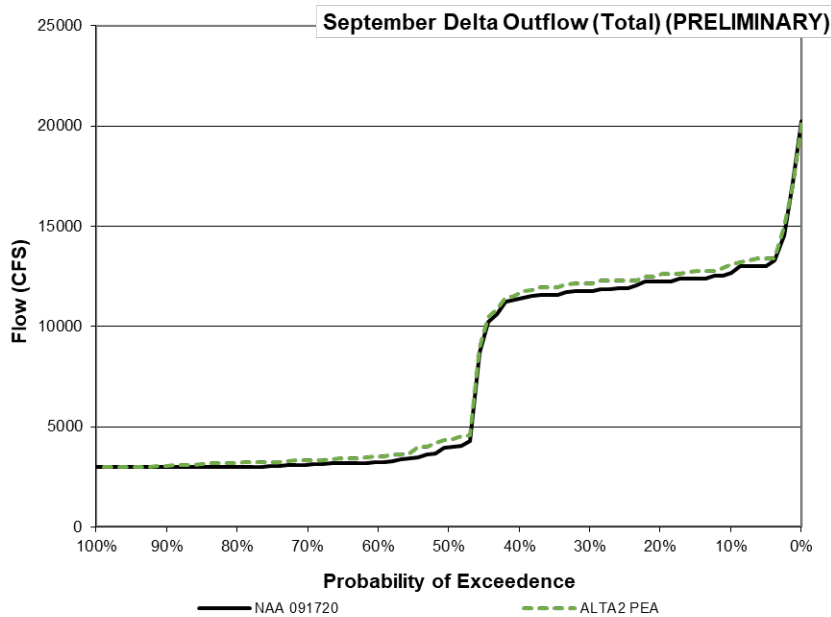
# Delta Outflow



# Delta Outflow



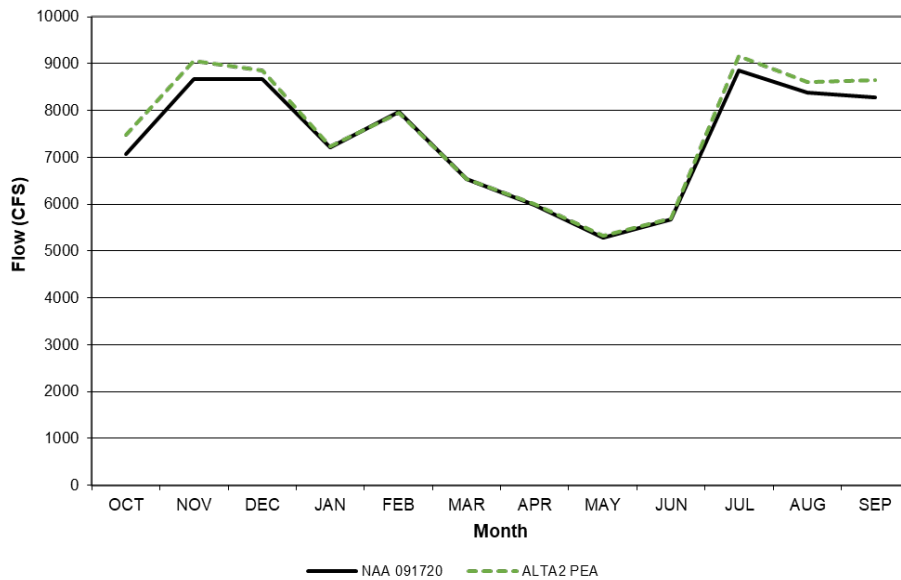
# Delta Outflow



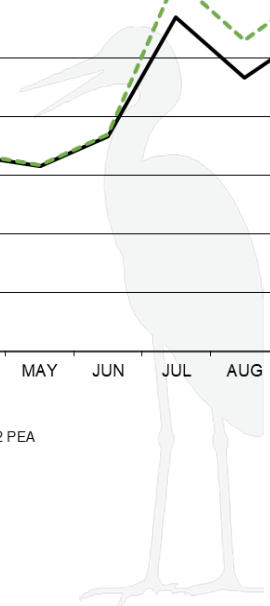
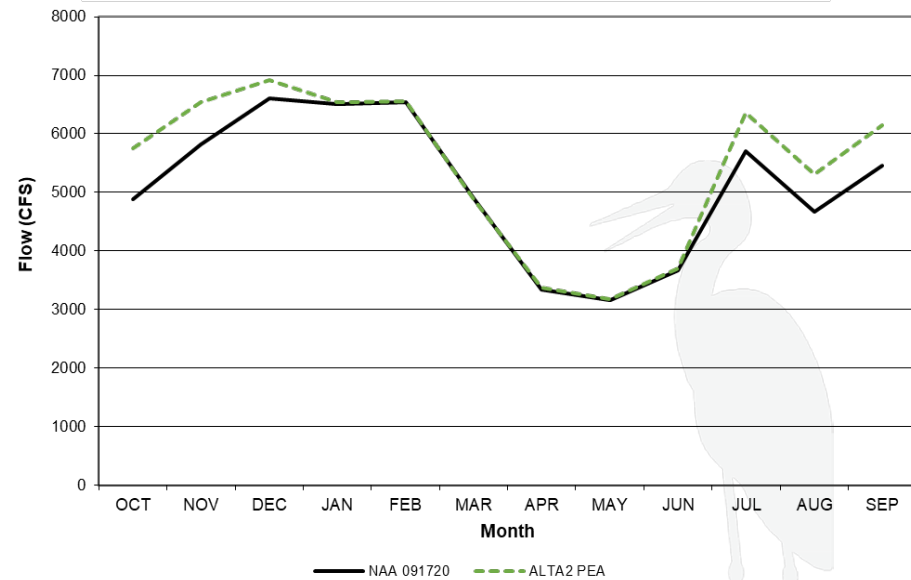


# Delta Exports

Total Exports SWP and CVP (PRELIMINARY) Averages



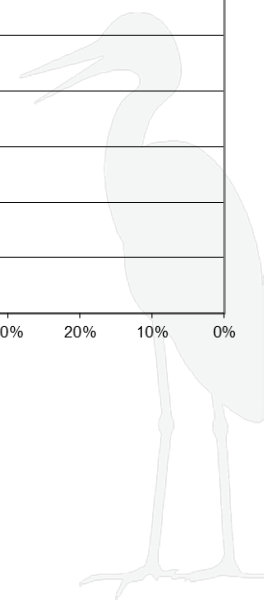
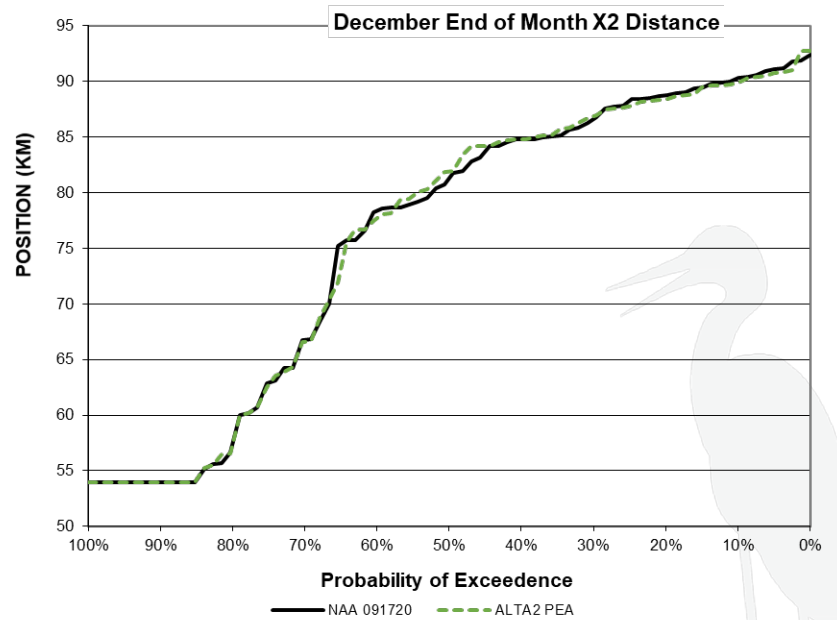
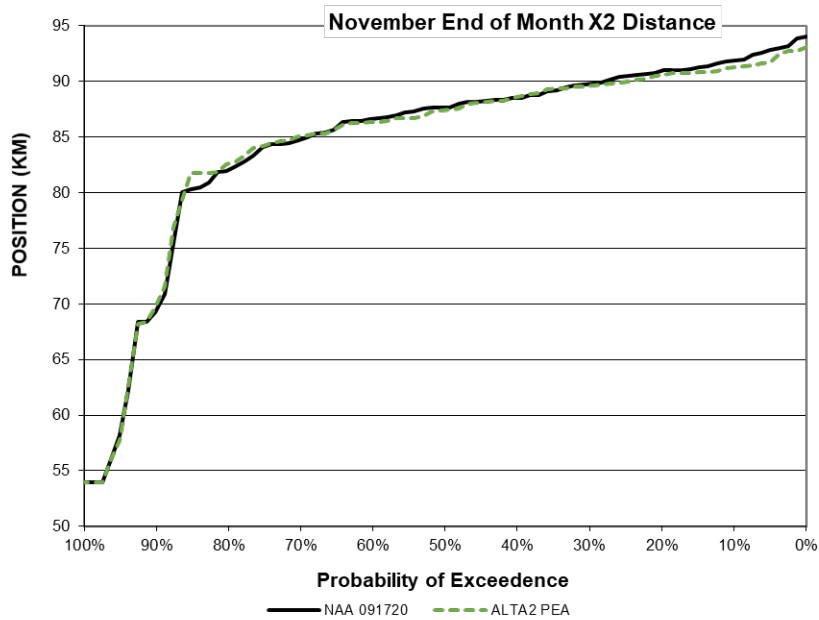
Total Exports SWP and CVP (PRELIMINARY) Dry and Critically Dry Years (40-30-30)



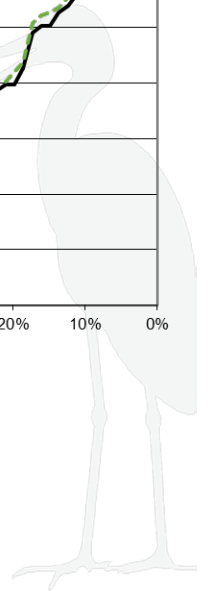
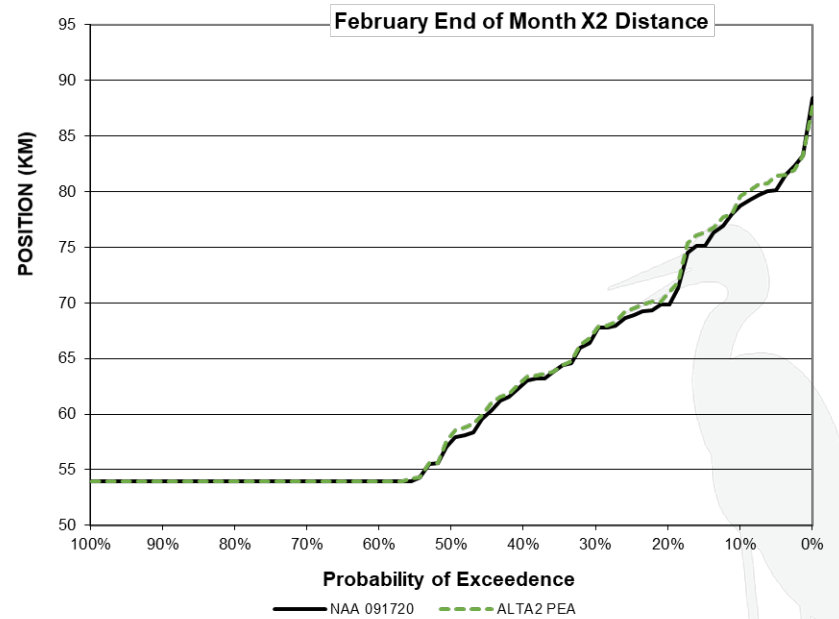
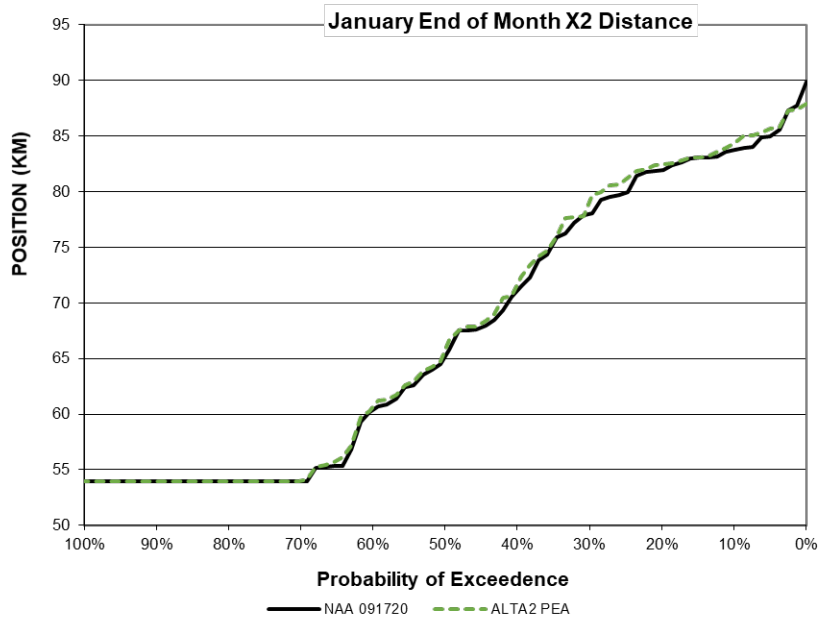
# X2 Results

Preliminary Effects Analysis

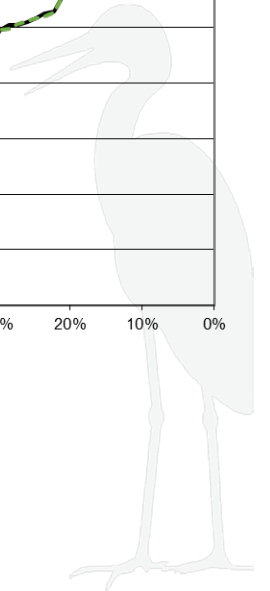
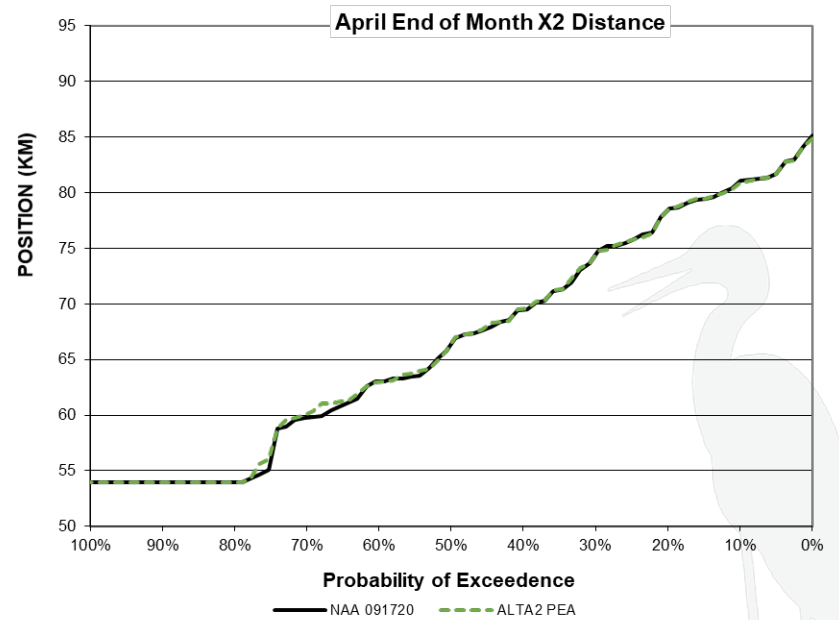
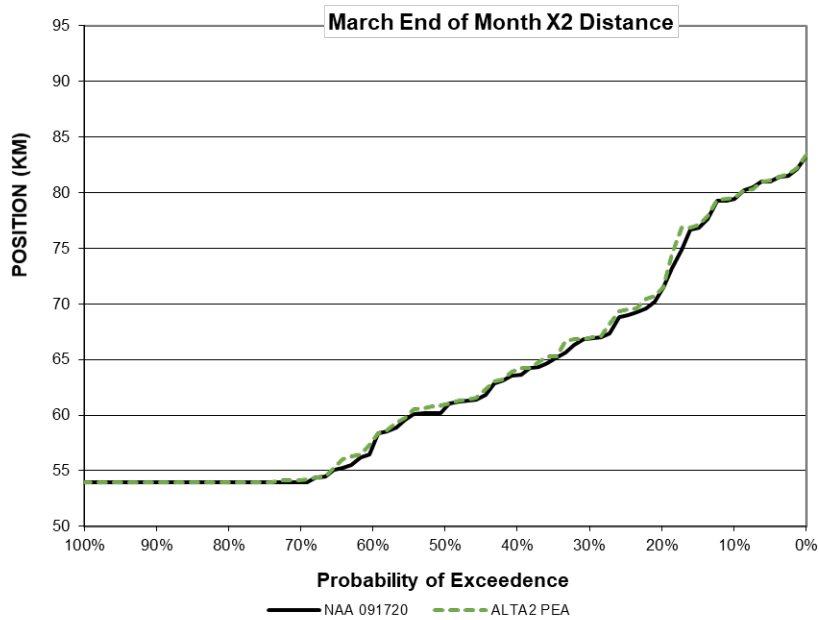
# X2



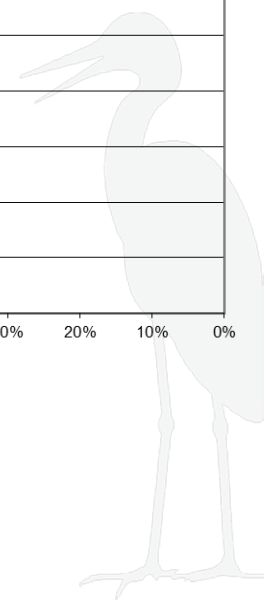
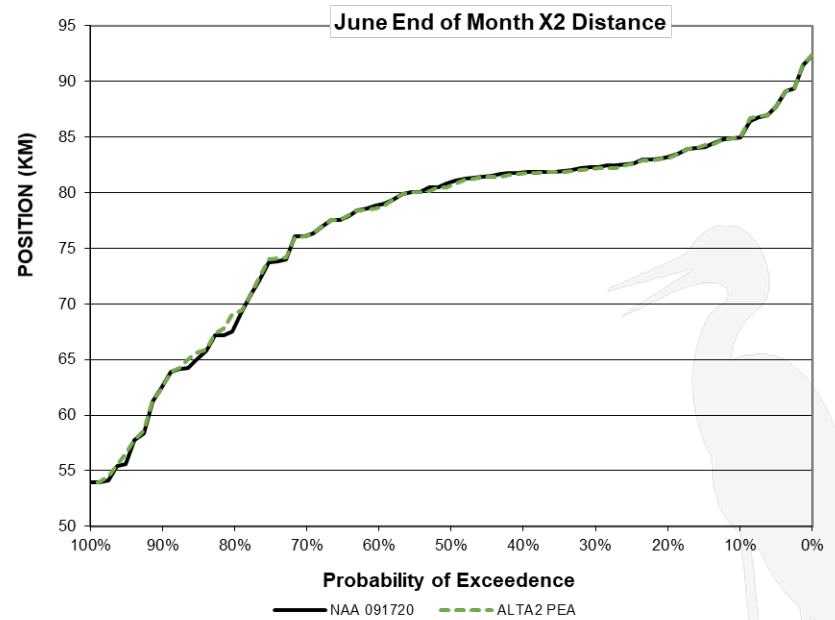
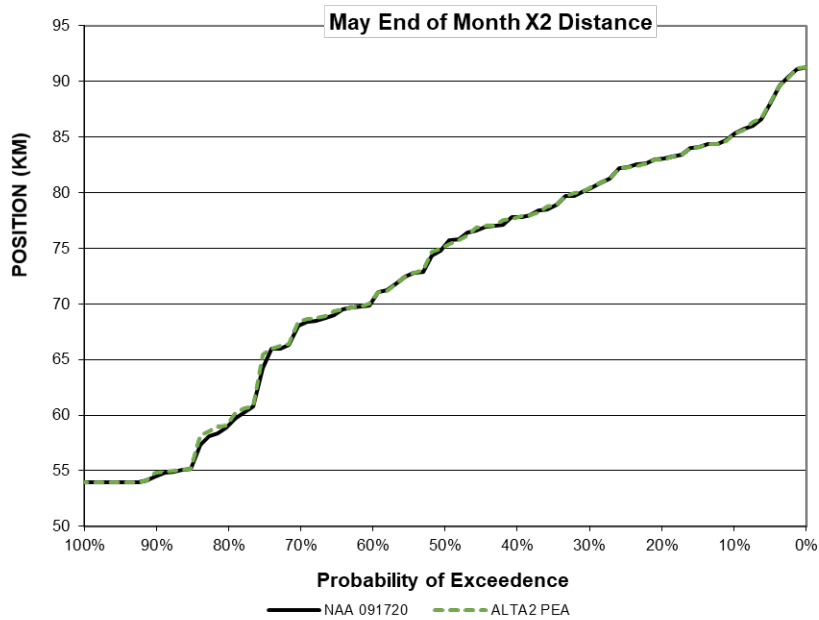
# X2



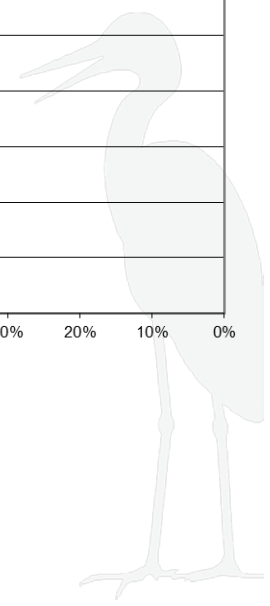
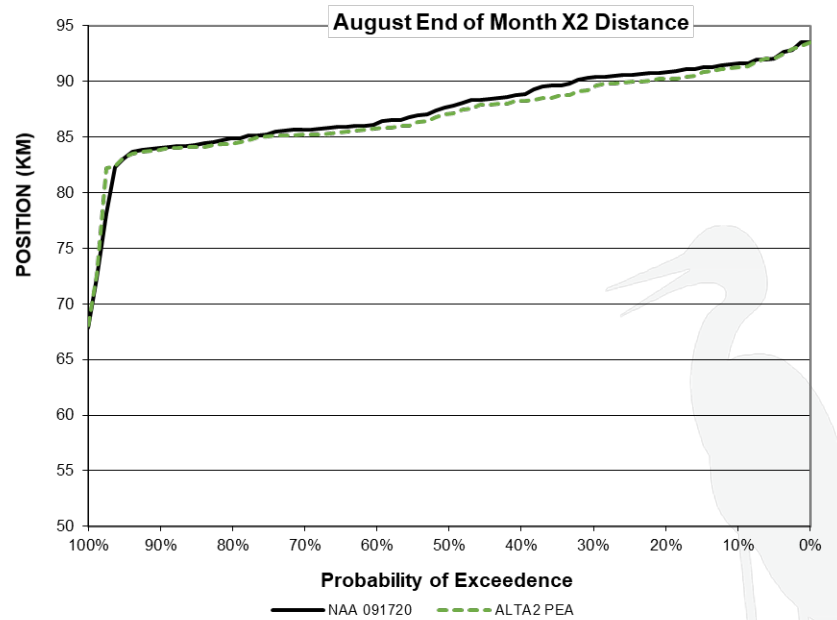
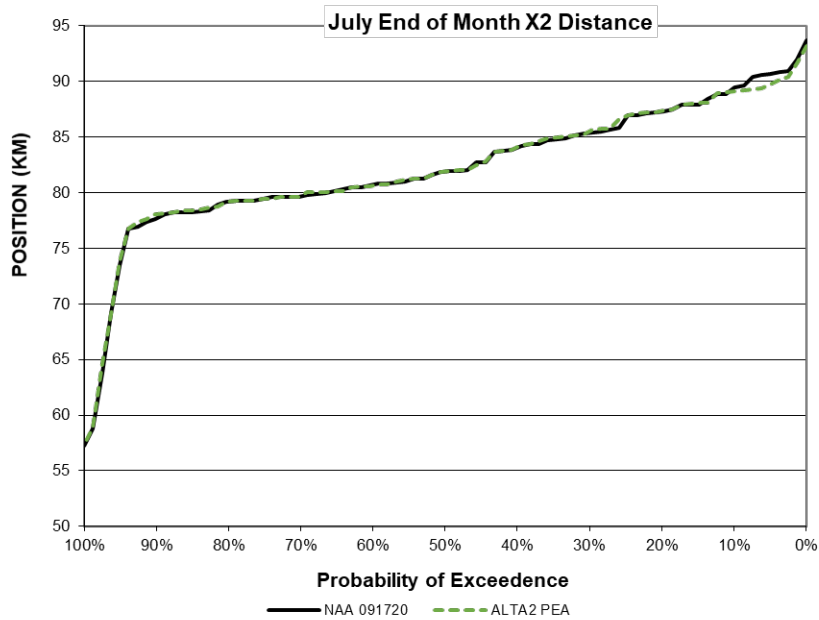
# X2



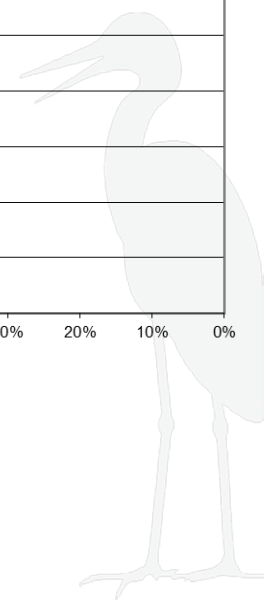
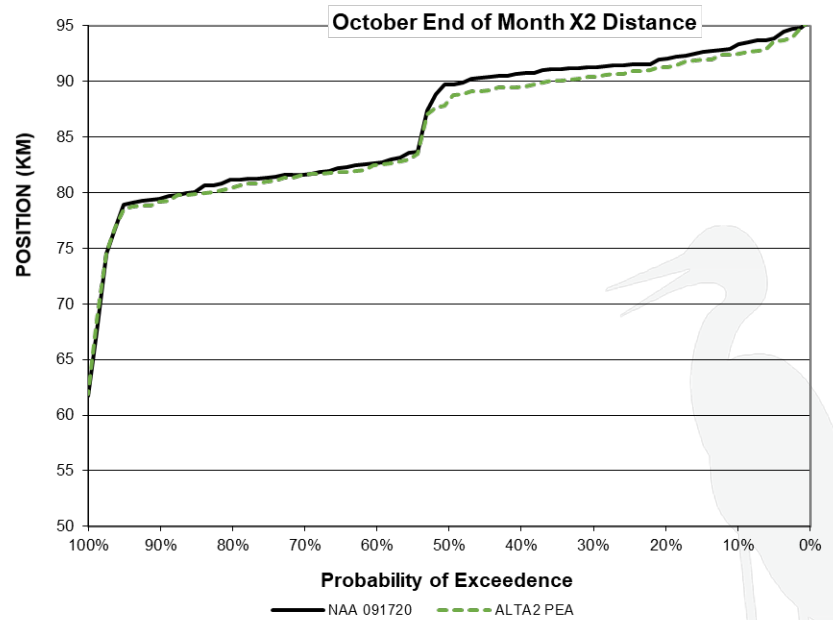
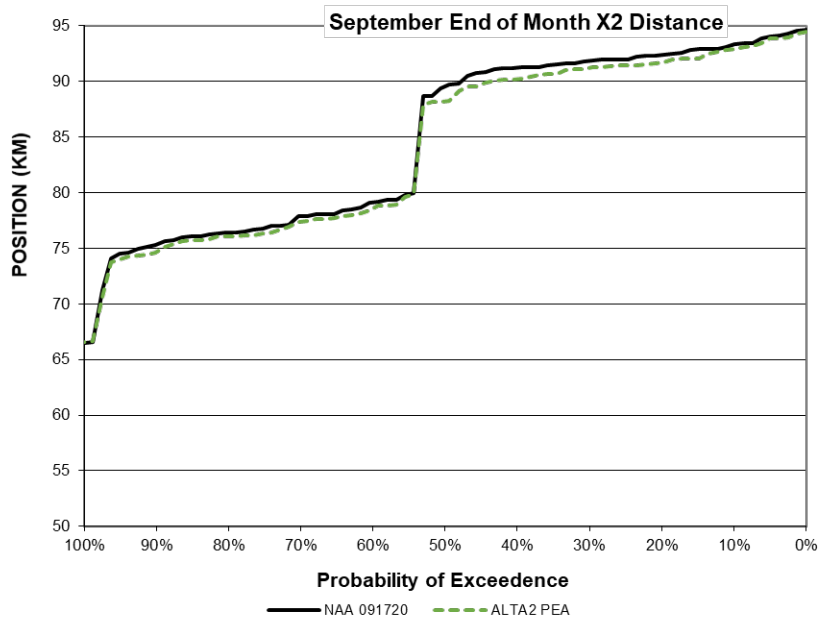
# X2



# X2



# X2

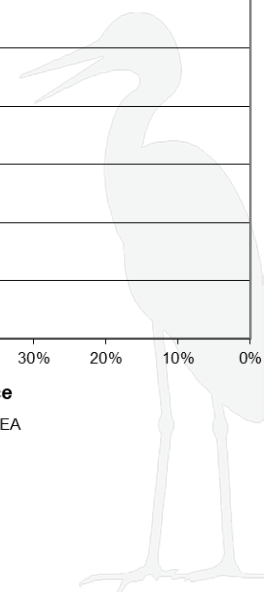
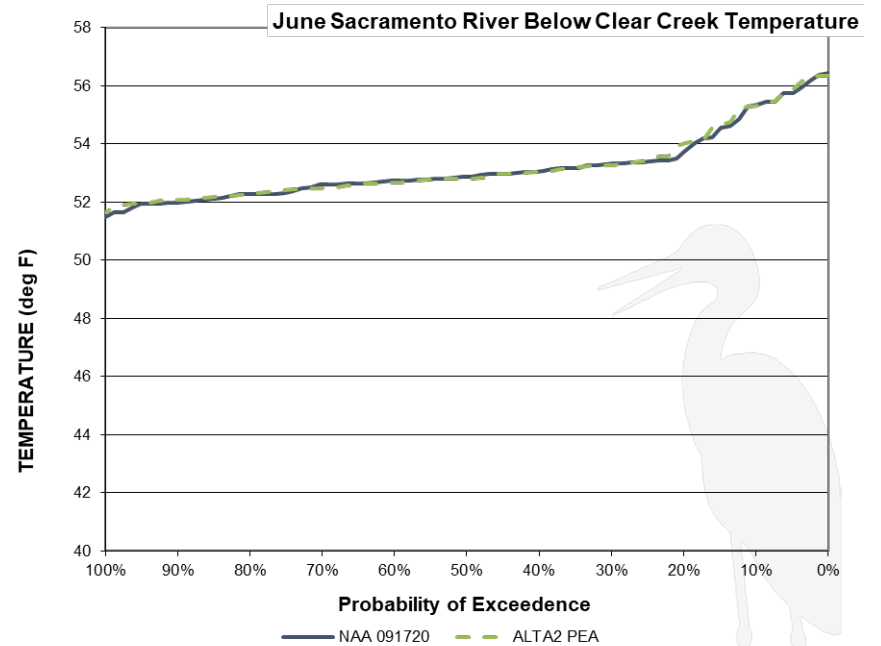
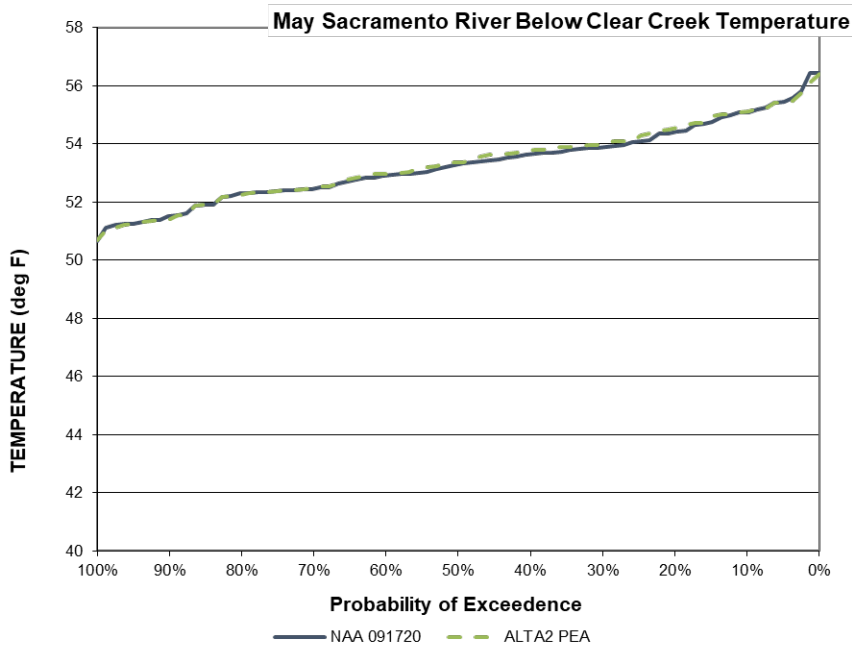




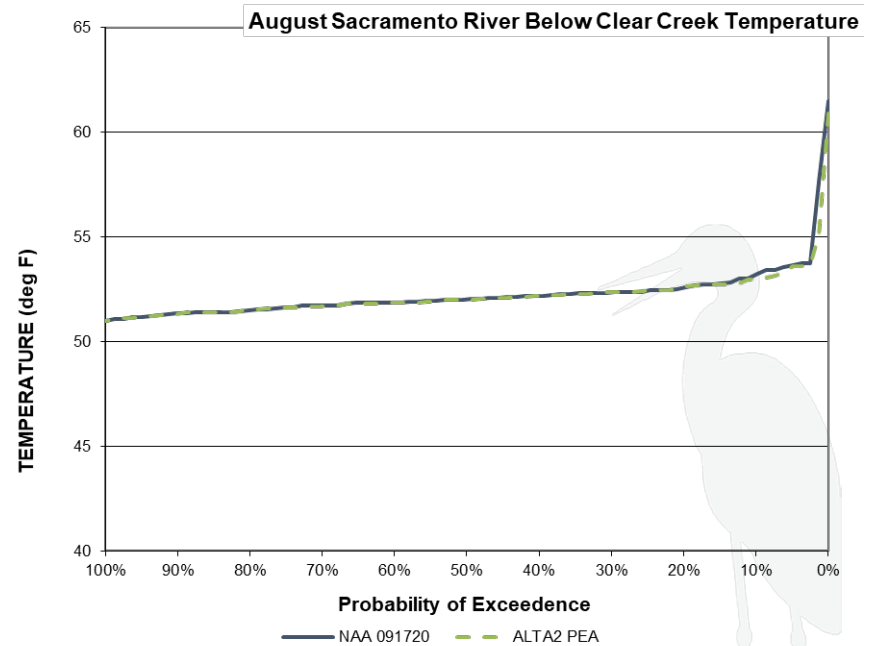
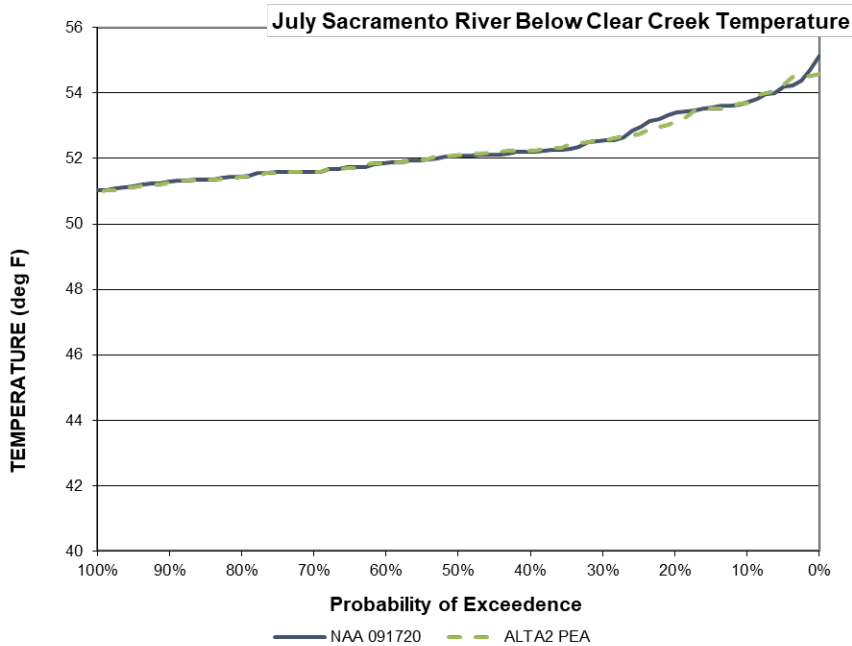
# Temperature Results

Preliminary Effects Analysis

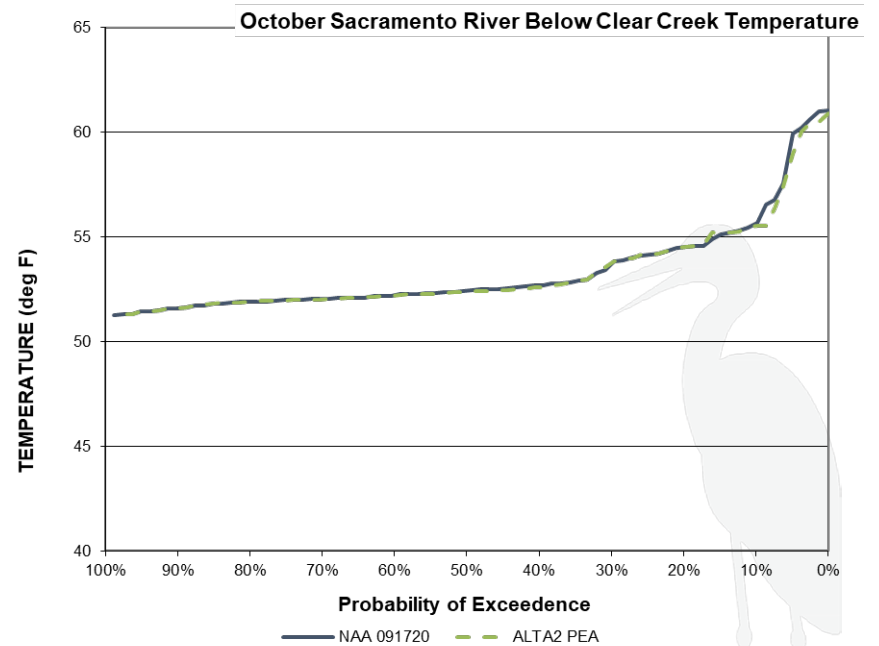
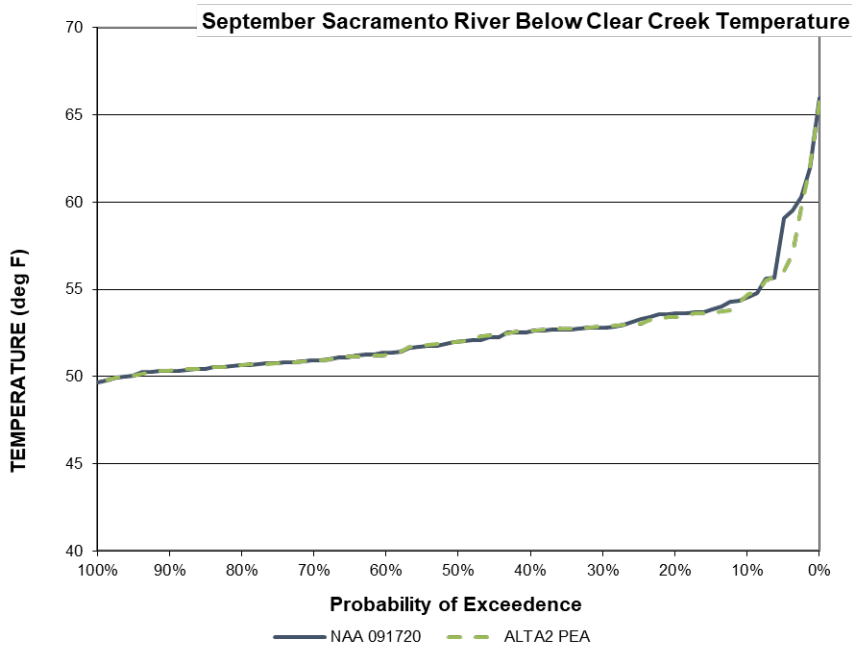
# Sacramento River below Clear Creek Temperature



# Sacramento River below Clear Creek Temperature



# Sacramento River below Clear Creek Temperature

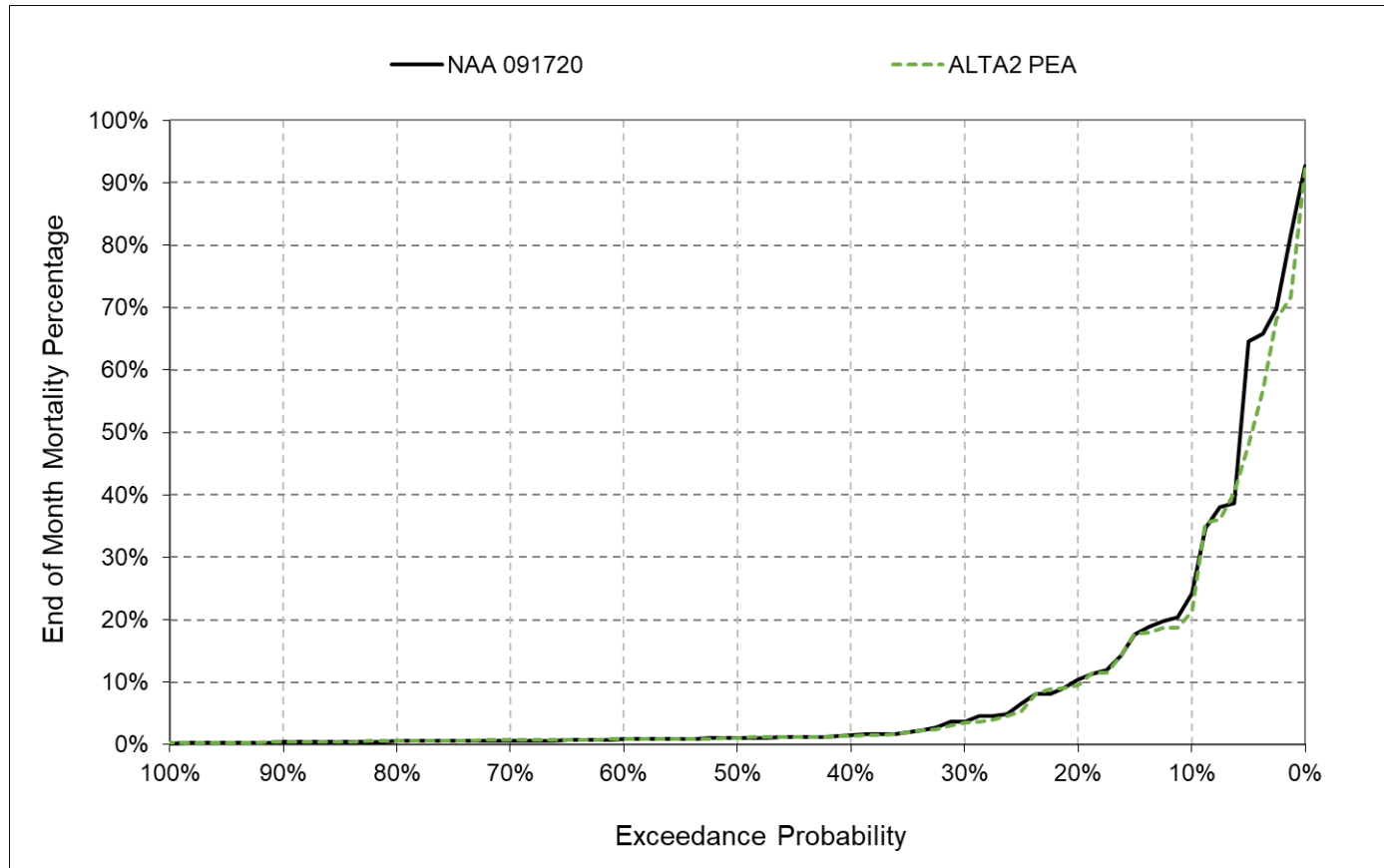


# Temperature-Based Early Life Stage Mortality Results

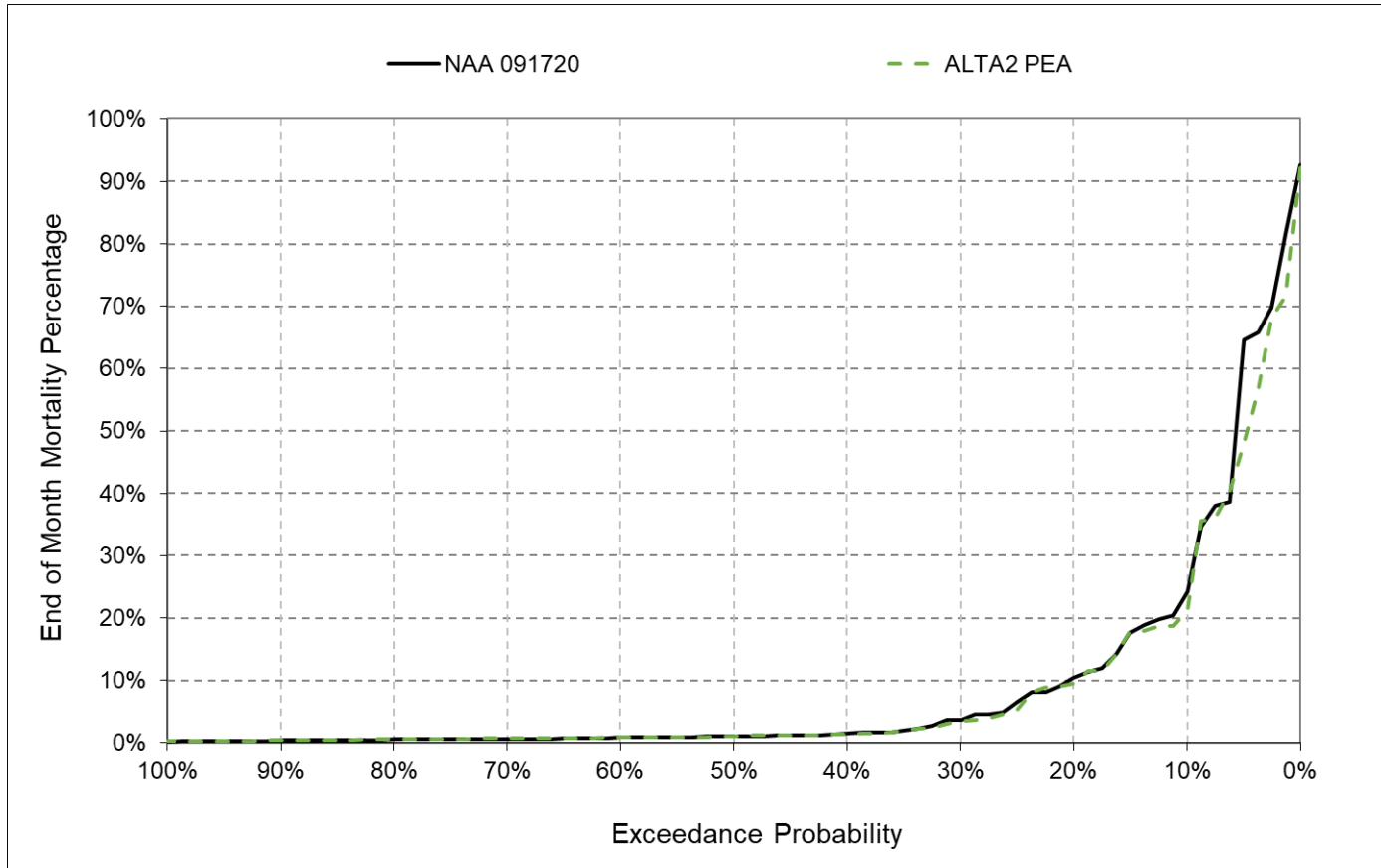
Preliminary Effects Analysis



# Anderson Model Mortality



# Martin Model Mortality



Questions?





# Next Steps