



# **Arrow Reservoir Constant Mid-Elevation Scenario Scoping Evaluation**

**A Project in Progress  
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**March 12, 2015**

**Columbia Basin Regional Advisory Committee**

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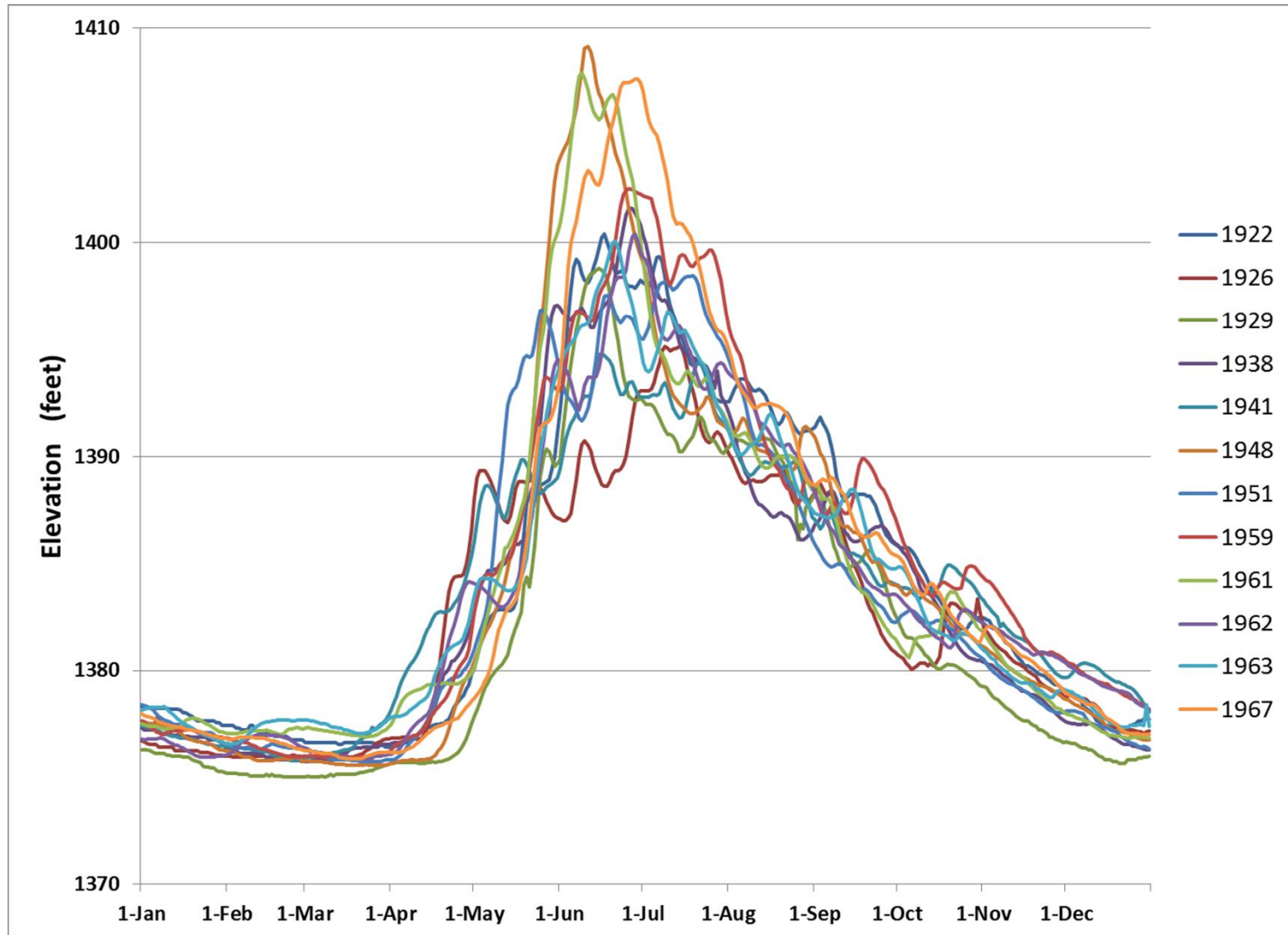
# Arrow Reservoir Management

## Evaluation of 2 Alternative Scenarios

- “ Evaluating two alternative management scenarios for the Arrow Reservoir
- “ Reviewing literature, interviewing stakeholders and knowledgeable persons
- “ Identifying potential benefits and costs, information gaps and potential modifications to the scenarios to increase benefits and/or offset costs
- “ Identifying operations evaluation criteria for assessing future modeling

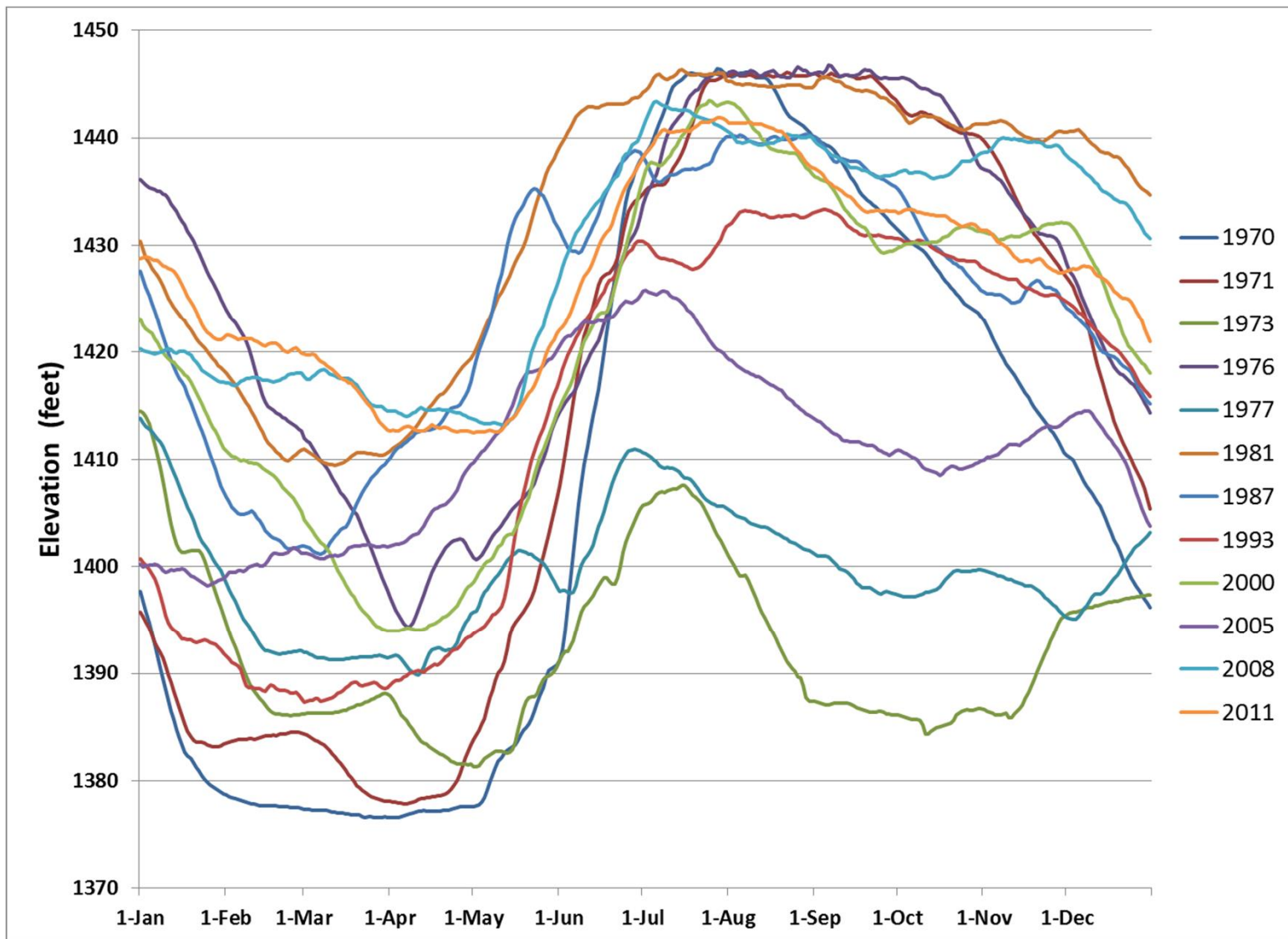
# Historical Context

Representative Annual Elevations of Upper Arrow Lake  
(at Nakusp before the dam)



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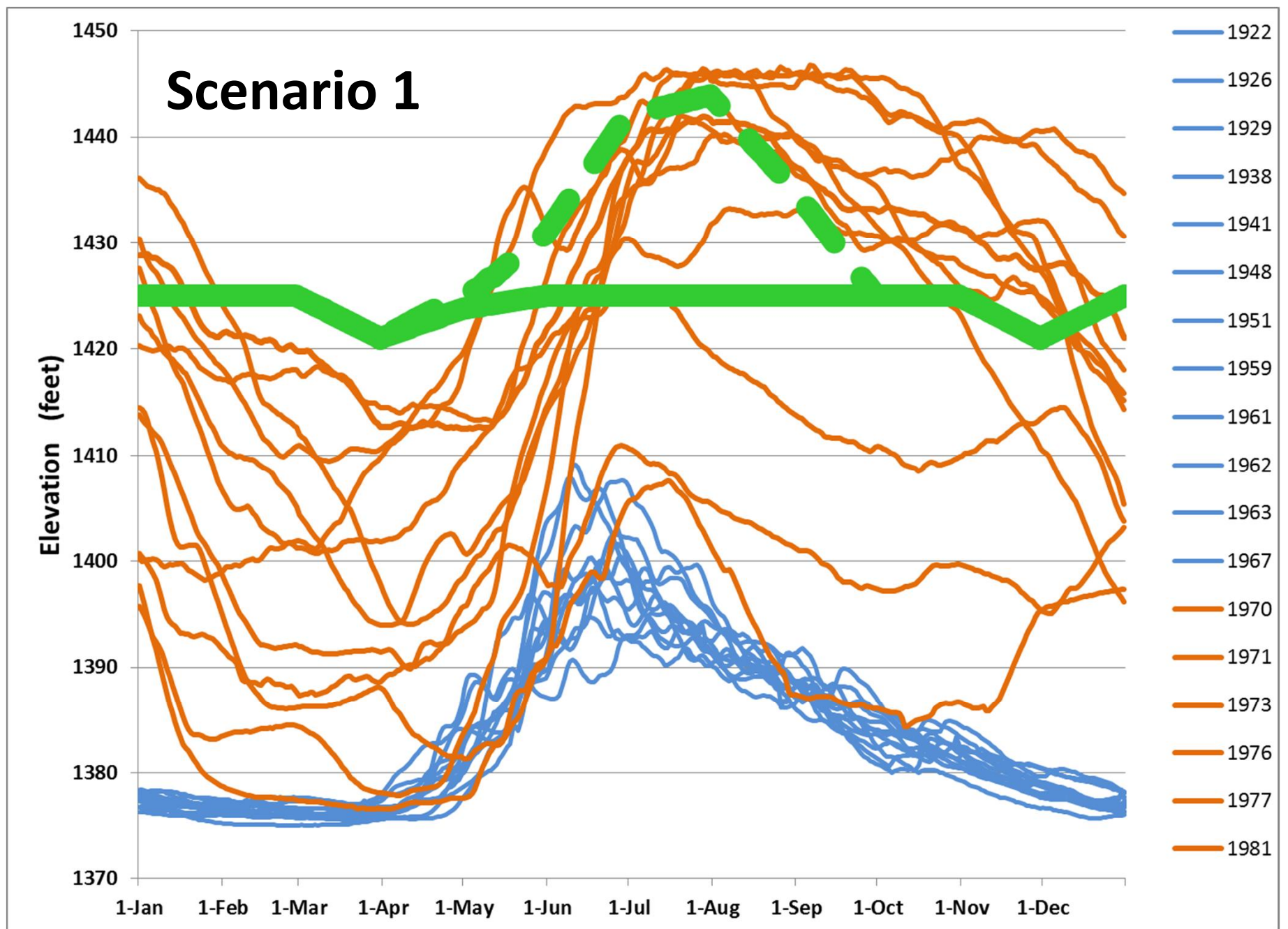
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# Scenario 1

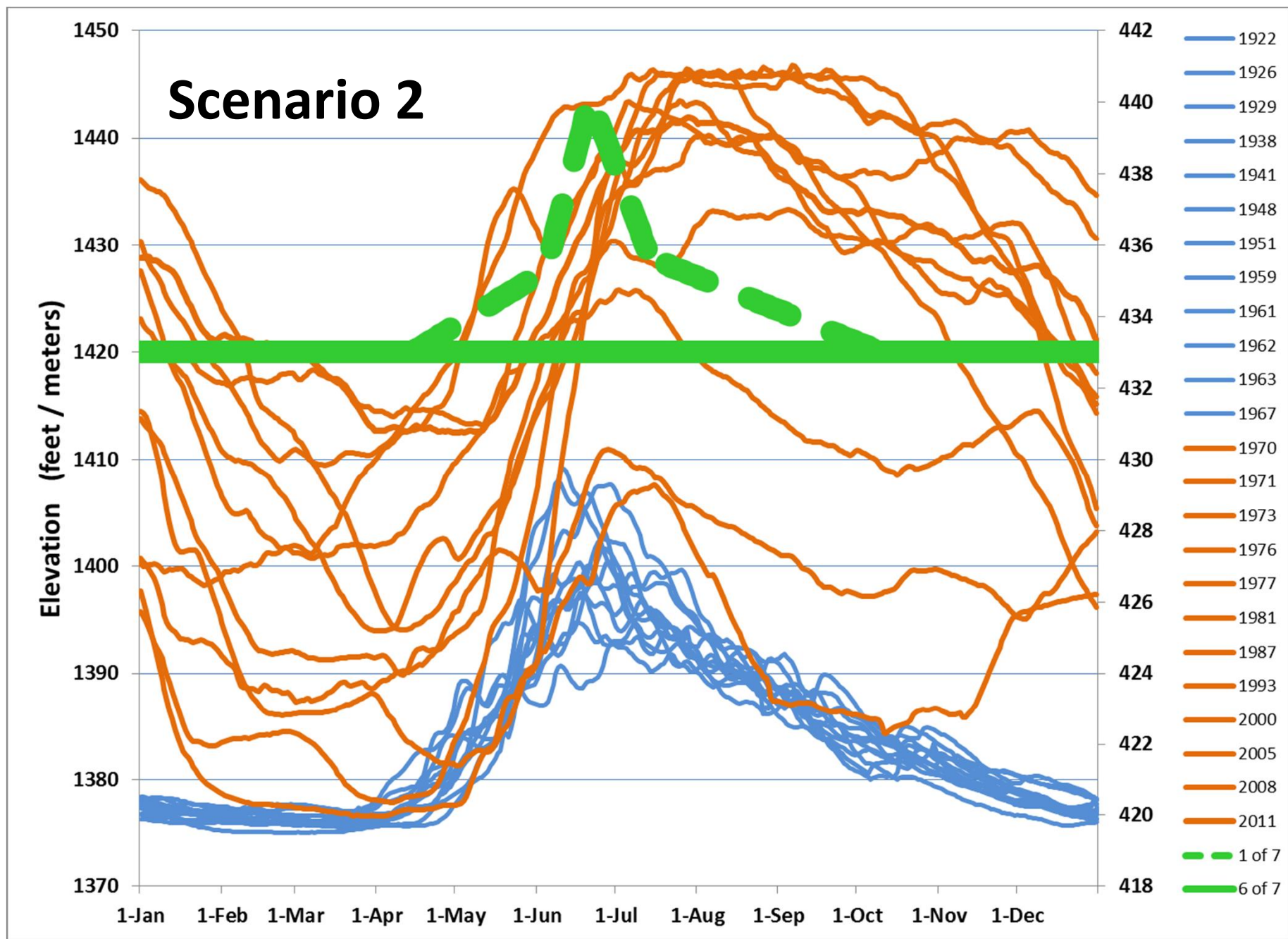
- “ Near full year constant reservoir base elevation of 1425 +/- 2 ft. in 4 of 5 years
- “ Freshet fill to 1444 ft. in 1 in 5 years with a two month drawdown back to 1425
- “ Levels drop to 1421 during limited periods in spring and winter.
- “ Based on Alternative 8TT from BC Hydro CRT Review Technical Studies Report Addendum (2013)





## Scenario 2

- “ Full year constant reservoir base elevation of 1420 +/- 2 ft. in 6 of 7 years
- “ Freshet fill to 1444 ft. in 1 in 7 years with a rapid drawdown back to 1430 ft., and then gradually to 1420 ft.





# Example Assessment Criteria

- “ Vegetation
- “ Wildlife
- “ Agriculture
- “ Recreation
- “ Fish and aquatic resources
- “ Erosion control
- “ Power generation
- “ Navigation
- “ Culture and Heritage

# Evaluating Drawdown Areas Exposed at Various Elevations

