

# *Río Bravo - Rio Grande*

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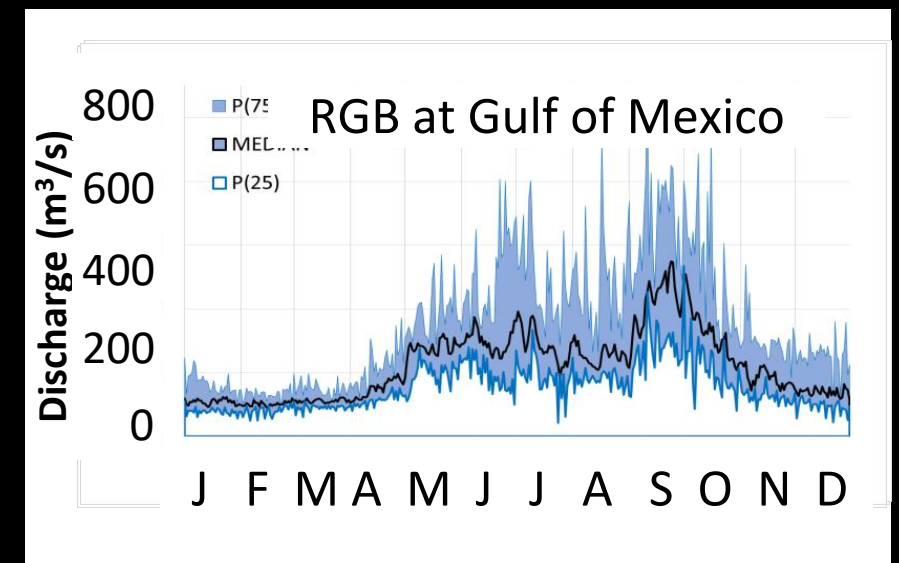
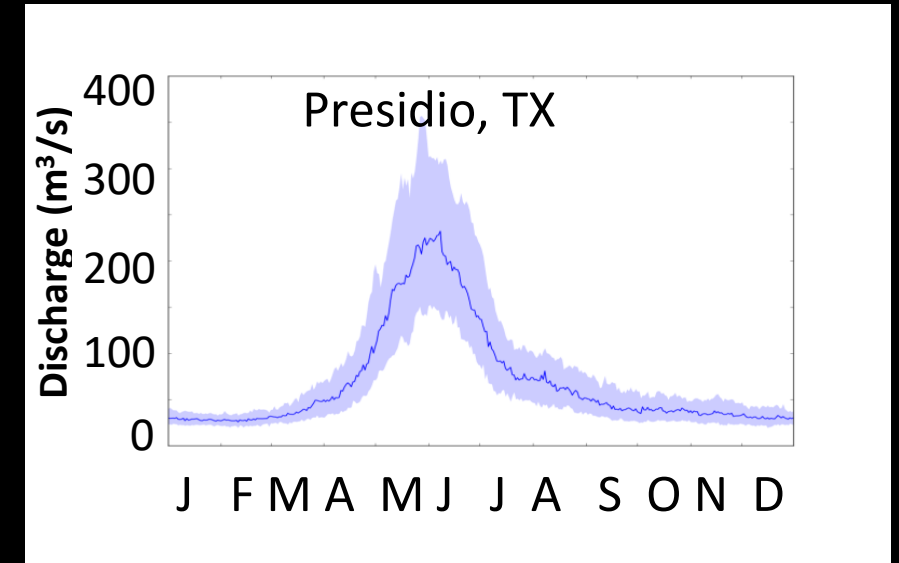
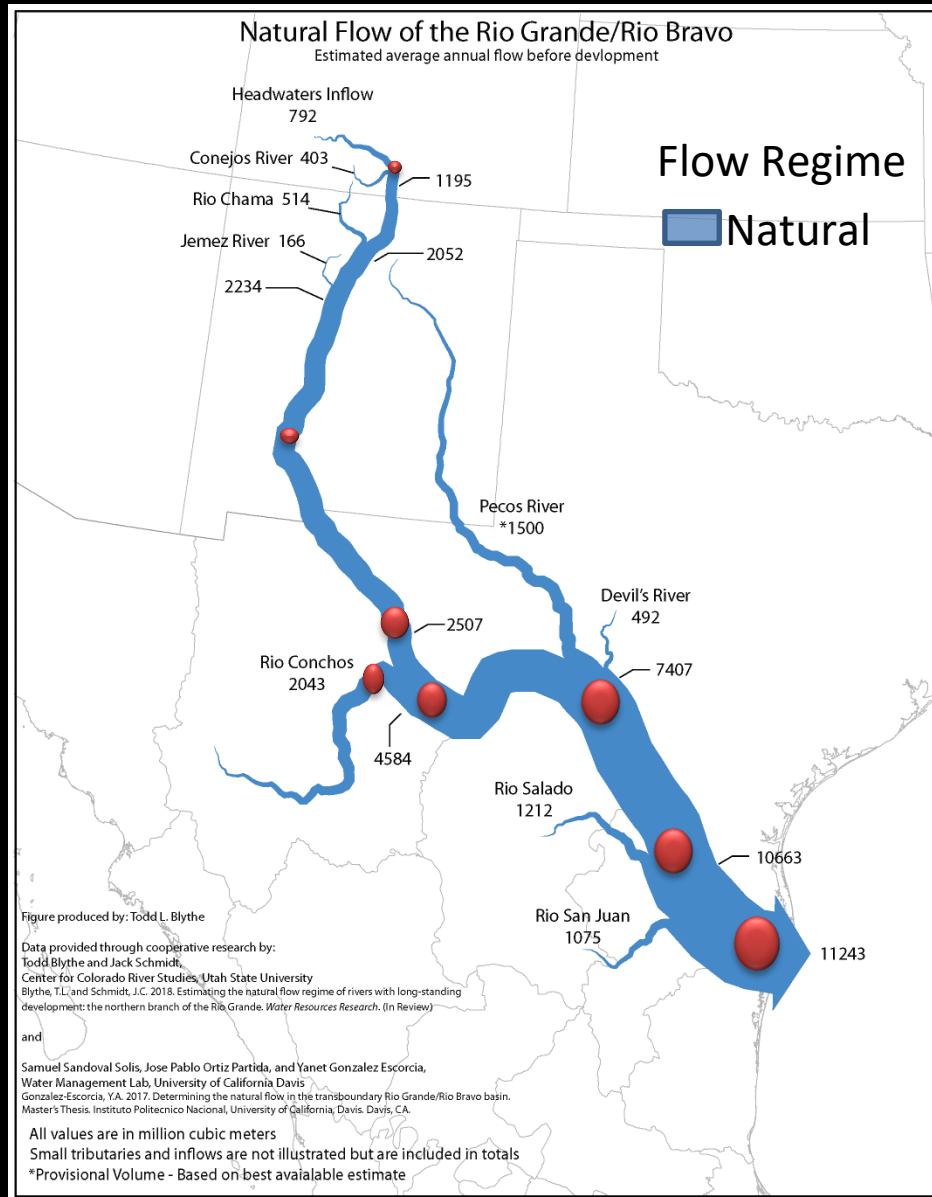


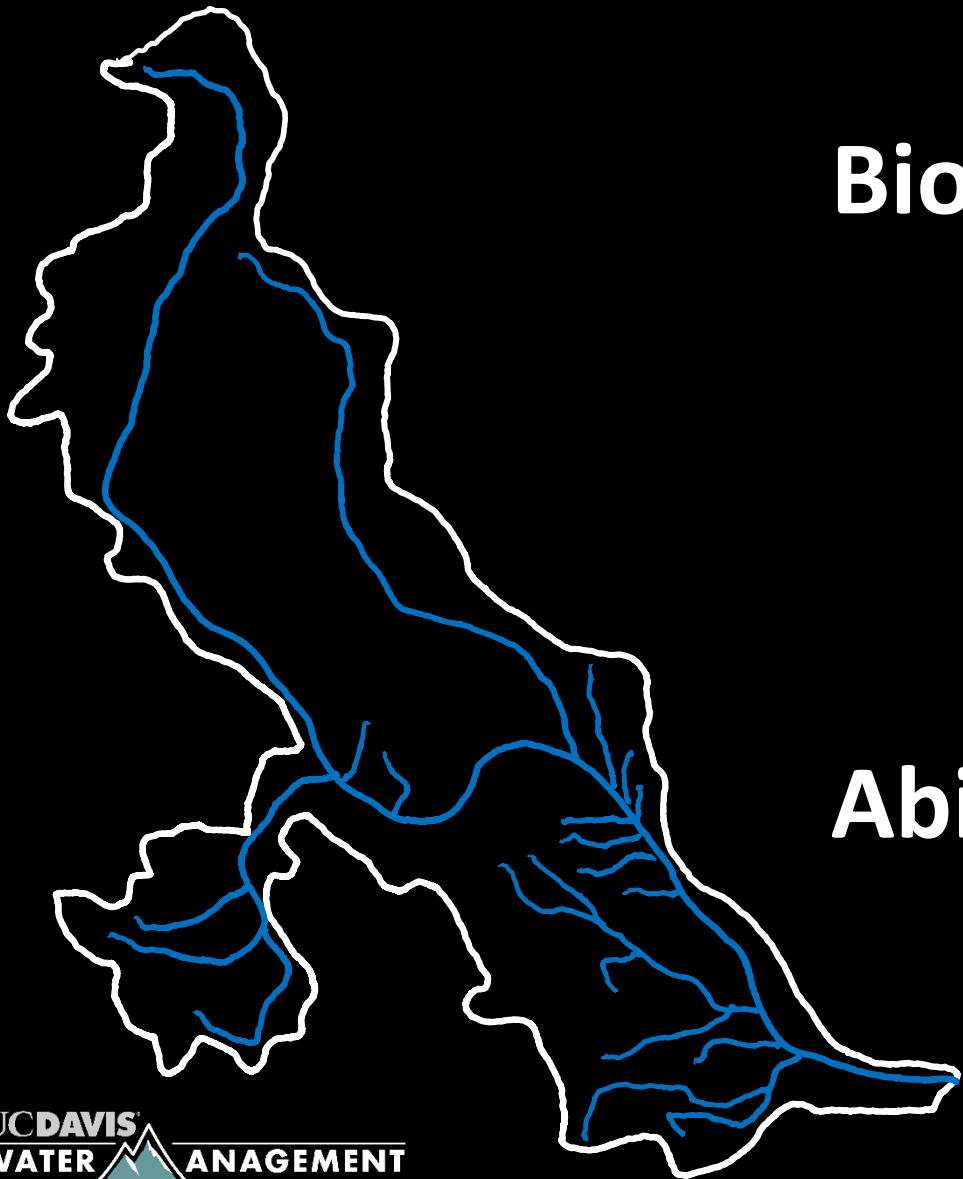


*Question 1:*

*What are the most salient characteristics of these processes (physical, political, institutional, environmental, etc.) in each international basin?*

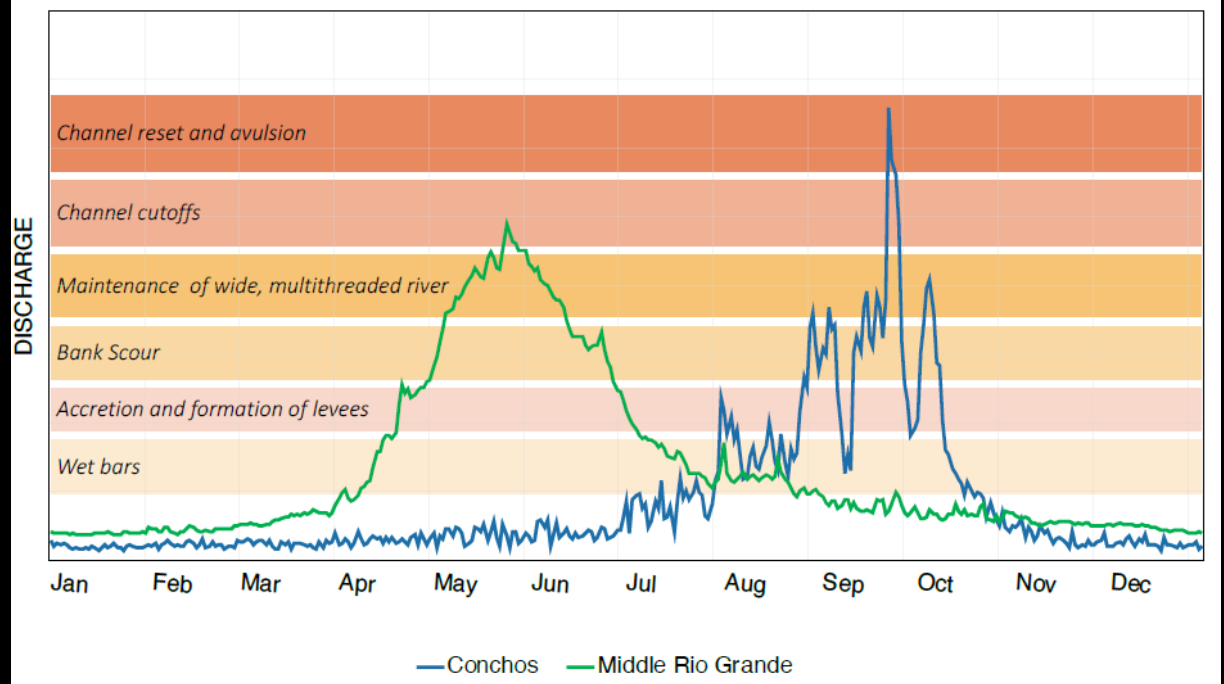
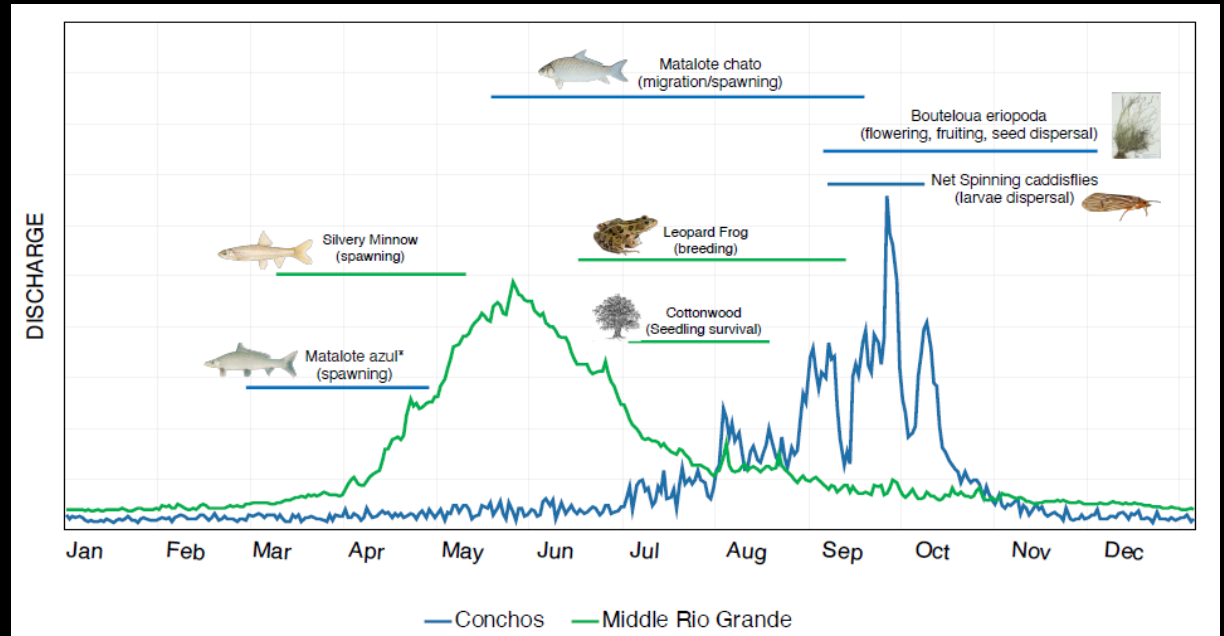
# Natural Hydrology



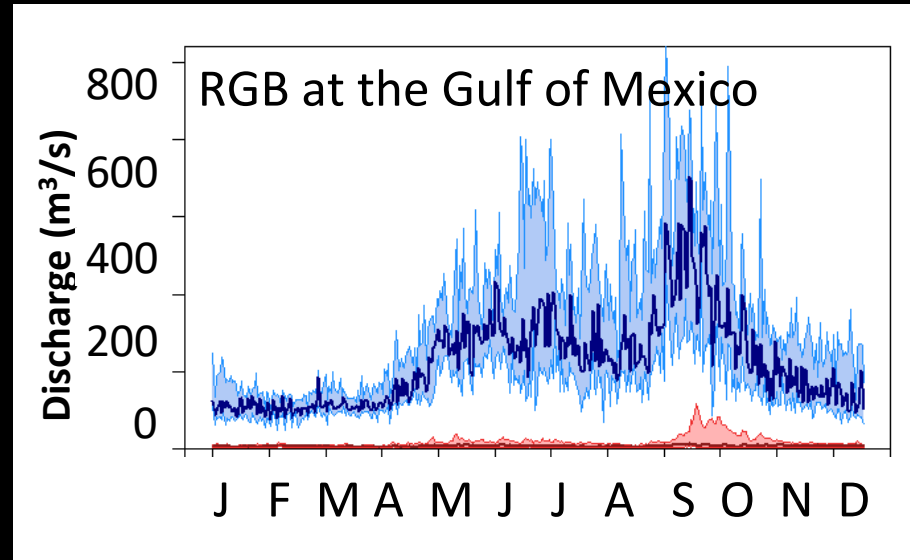
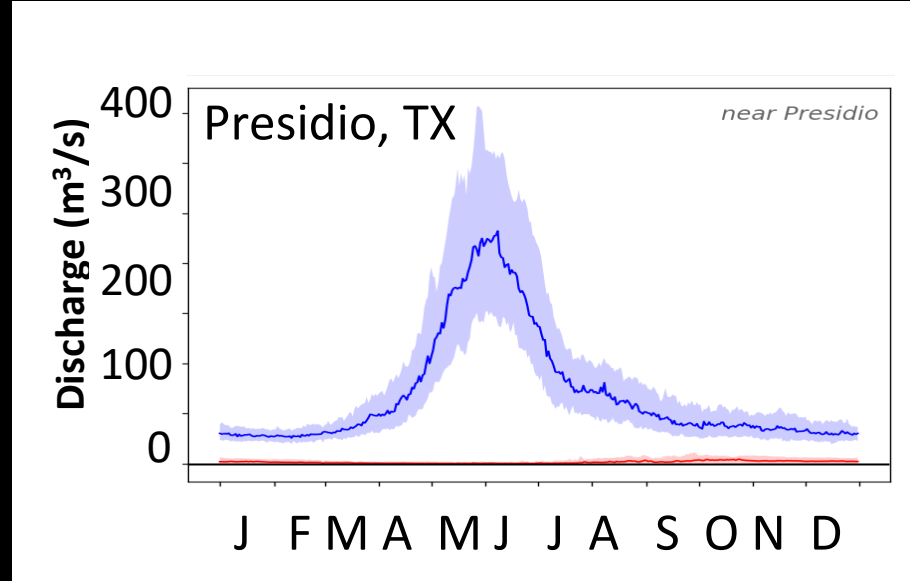
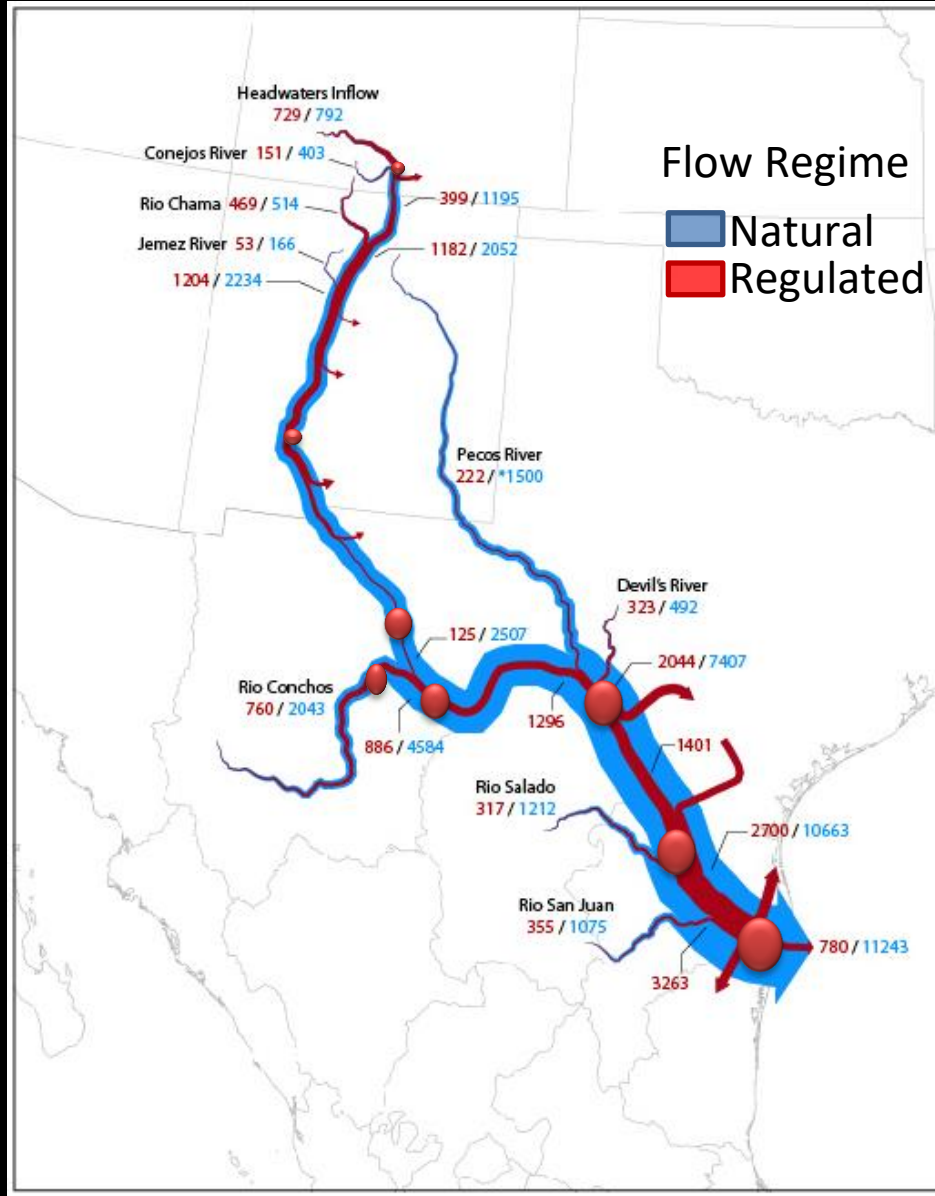


# Biotic

# Abiotic



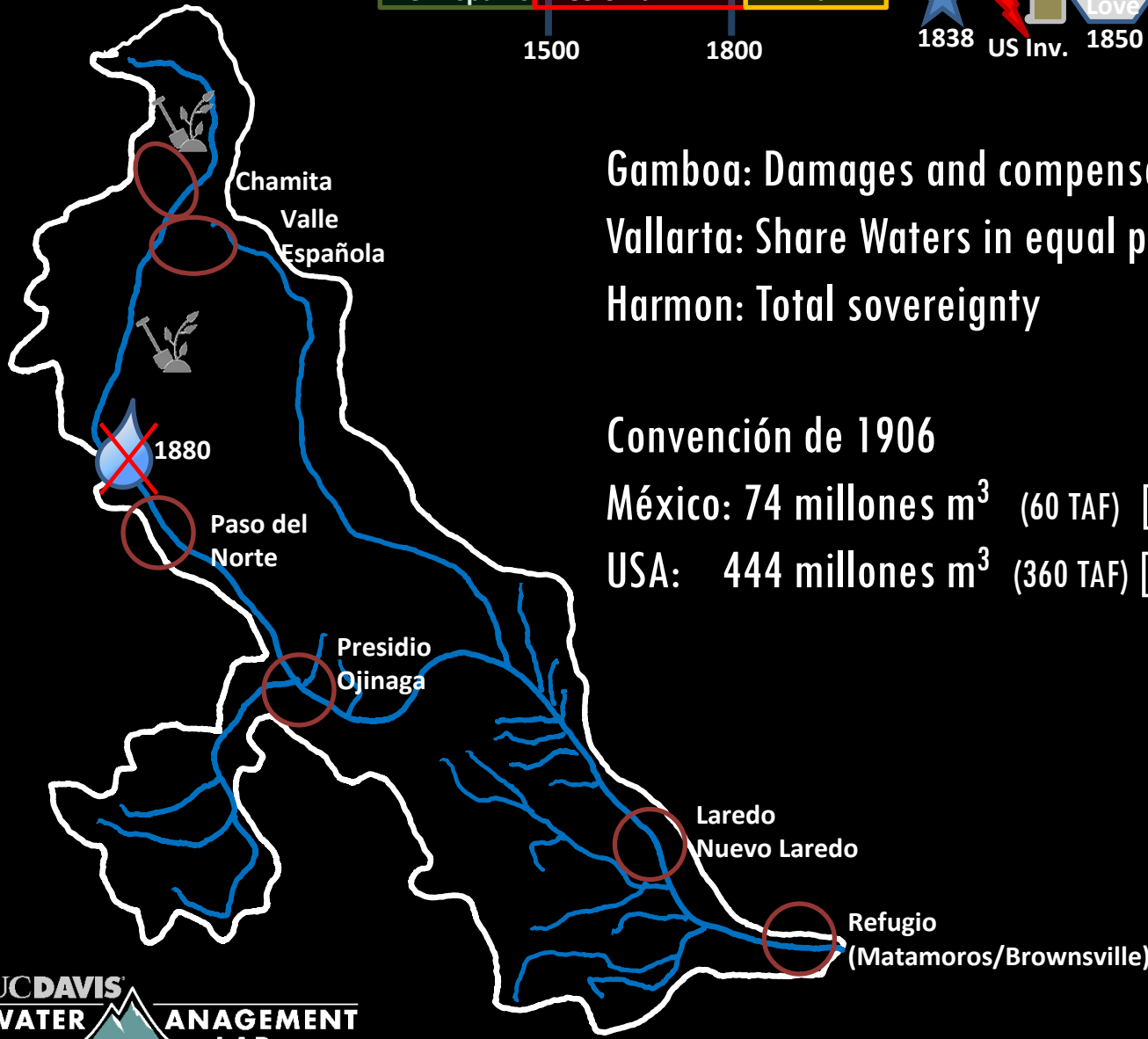
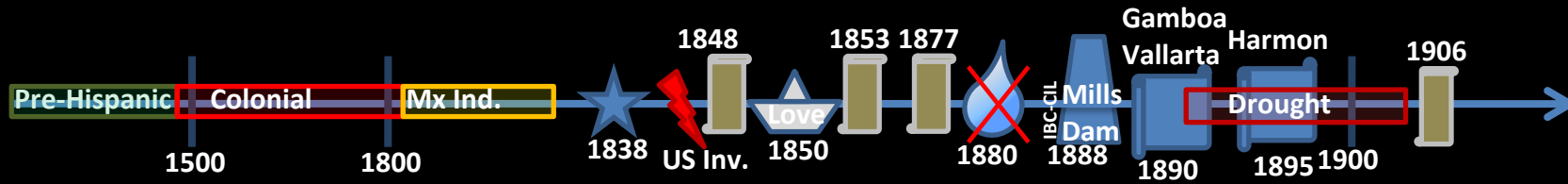
# Modern Hydrology





*Question 2:*

*Which events were relevant to the historical evolution of this processes*



**Gamboa:** Damages and compensations  
**Vallarta:** Share Waters in equal parts  
**Harmon:** Total sovereignty

**Convención de 1906**  
**México:** 74 millones m<sup>3</sup> (60 TAF) [15%]  
**USA:** 444 millones m<sup>3</sup> (360 TAF) [85%]

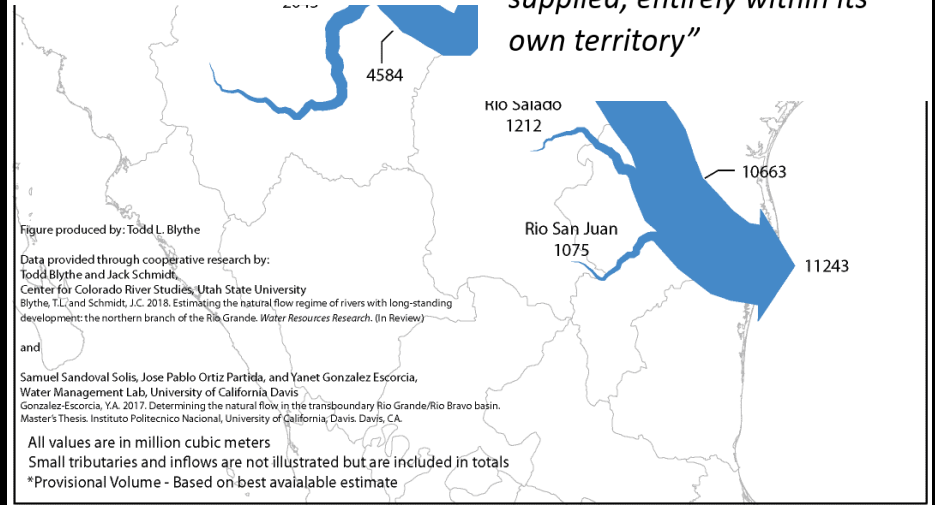
## VALLARTA DOCTRINE HARMON DOCTRINE

*"The sovereignty of one state over a portion of the international river do not authorize the right to use the water of the other state or to cause harm to already established water uses"*

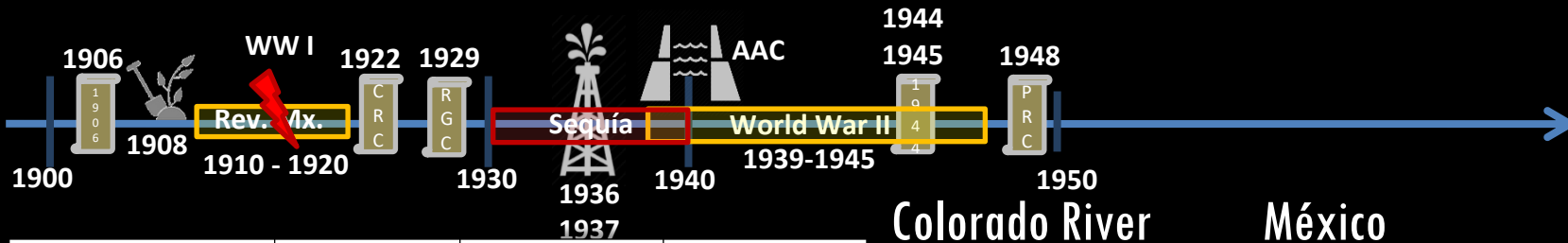
*"The fundamental principle of international law is absolute sovereignty of every nation as against all others, within its own territory"*

*"water must be divided equitably and rationally between both countries"*

*"Mexico (The U.S.) has no right to burden the development of the US (Mexico) and denying to its habitants the use of a provision which nature has supplied, entirely within its own territory"*

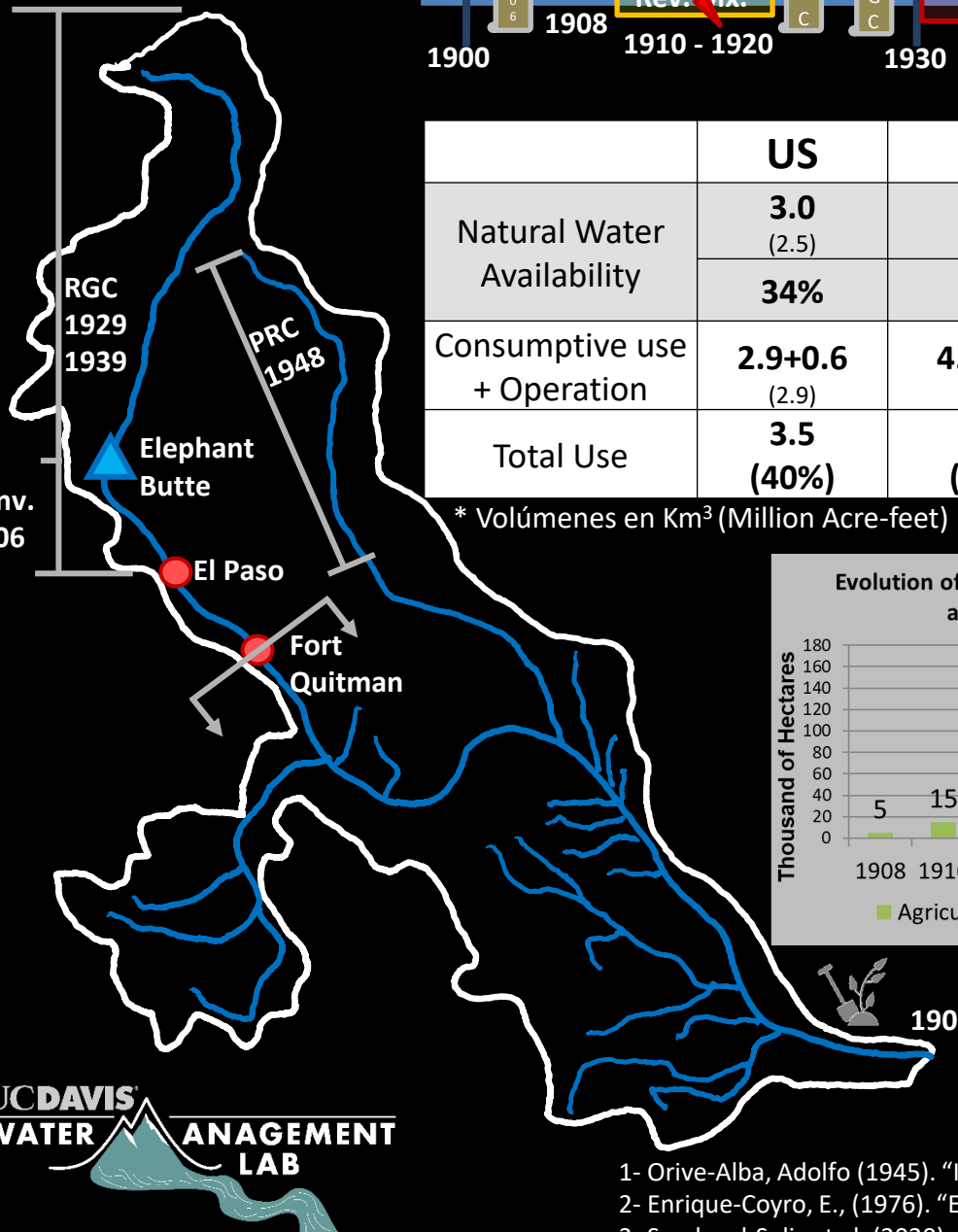
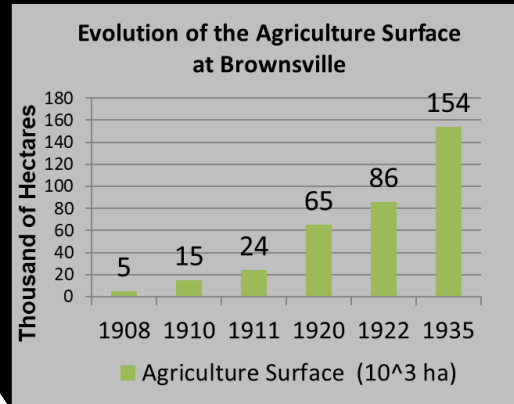


Sandoval-Solis et al. (2020). History of Water Use, Allocation, and Agreements in the Transboundary Rio Grande – Rio Bravo Basin. In preparation



	US	MX	Total
Natural Water Availability	3.0 (2.5)	5.8 (4.7)	8.8 (7.2)
Consumptive use + Operation	2.9+0.6 (2.9)	4.7+0.6 (4.3)	7.6+1.2 (7.2)
Total Use	3.5 <b>(40%)</b>	5.3 <b>(60%)</b>	8.8 <b>(100%)</b>

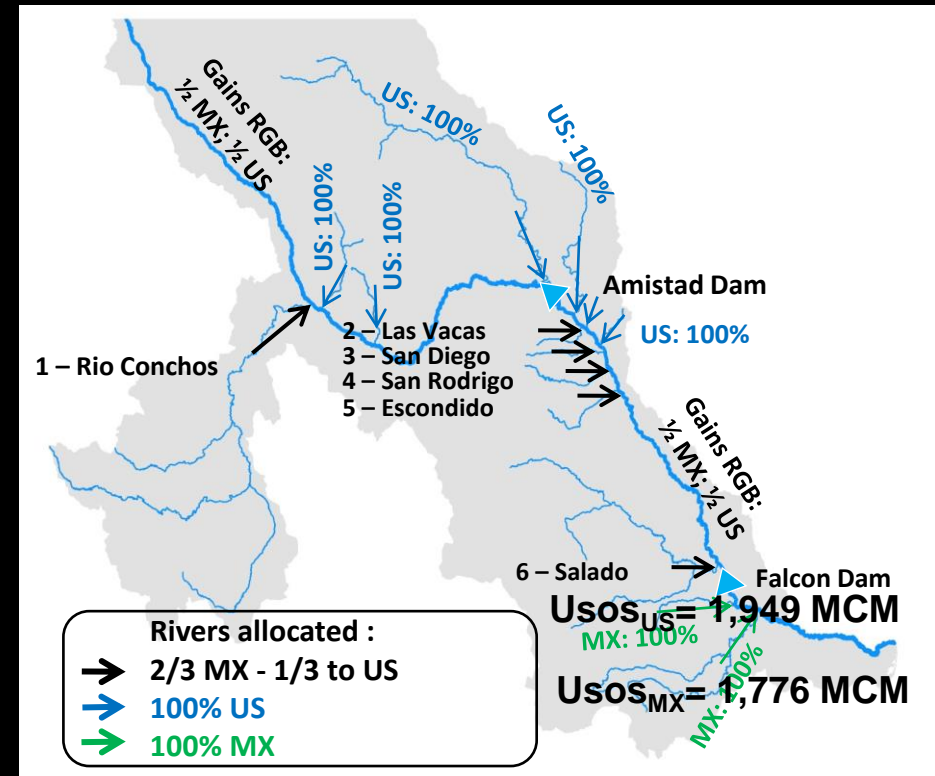
\* Volúmenes en Km<sup>3</sup> (Million Acre-feet)



Colorado River  
Rio Bravo/Grande

México U.S.

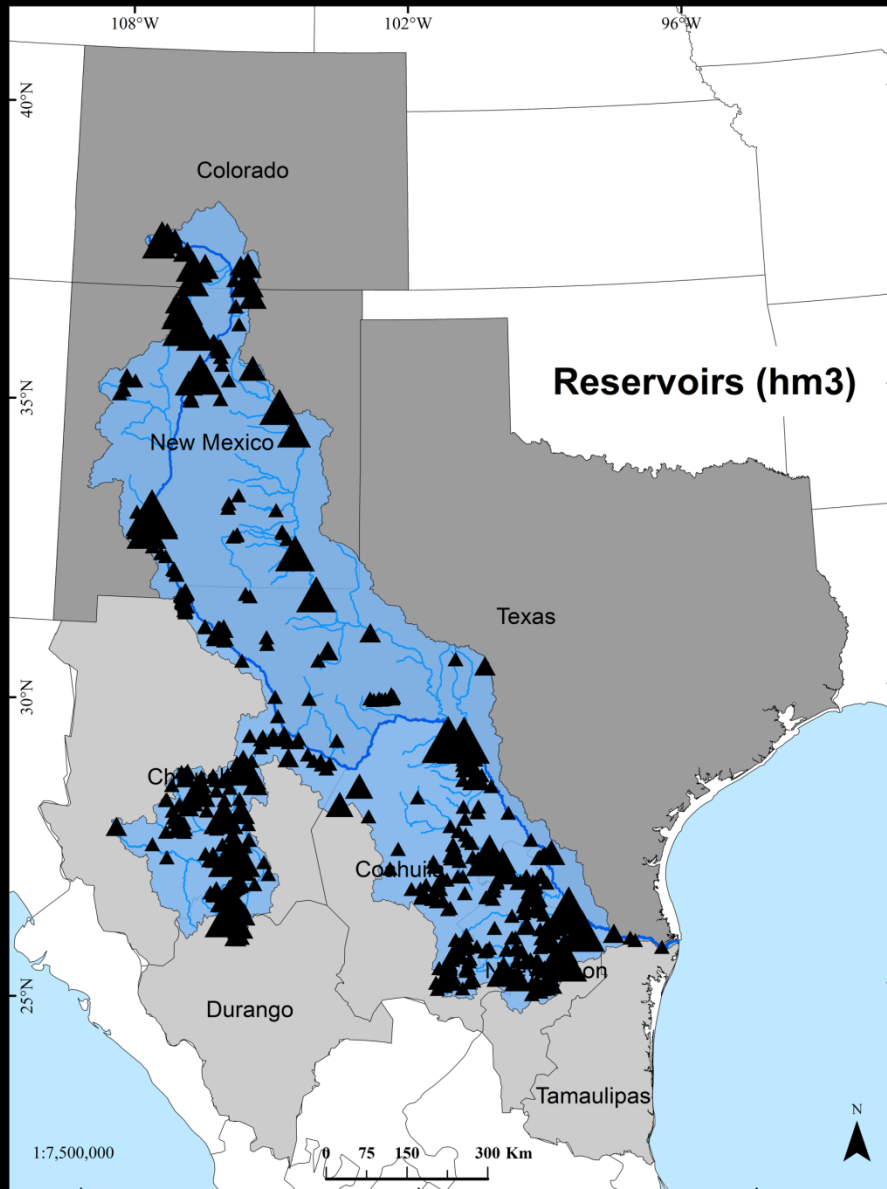
U.S. México



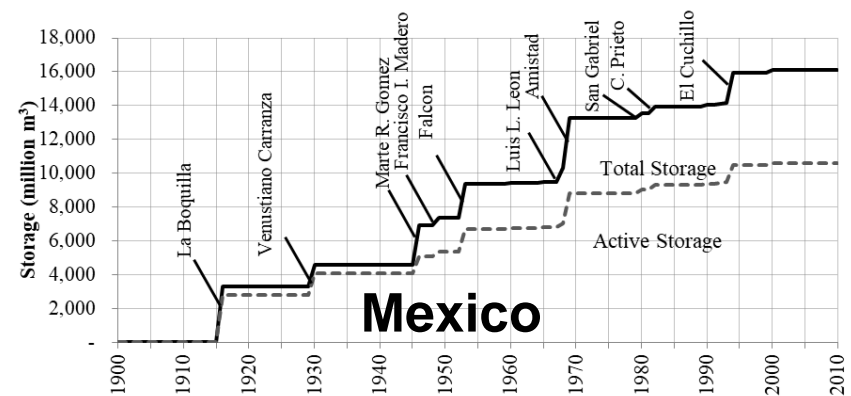
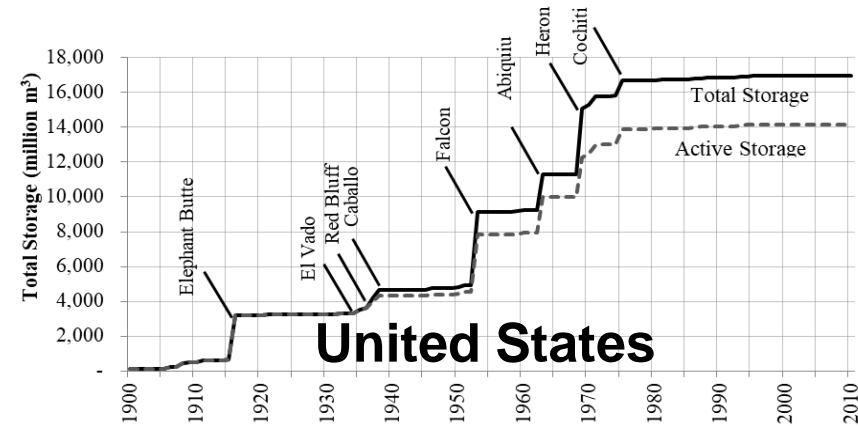
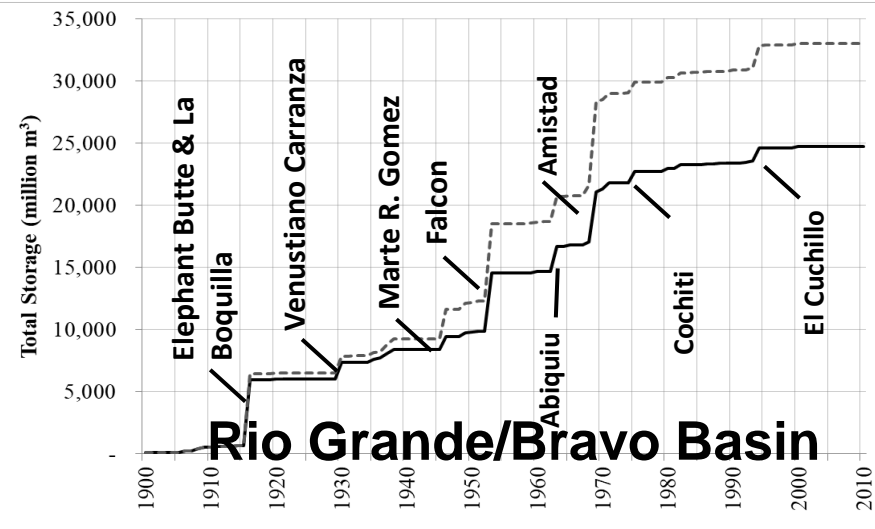
Upper basin (CO,WY,UT)	9.25	(7.5)	(45.5%)
Lower basin (CA,NV,AZ,NM)	9.25	(7.5)	(45.5%)
Mexico (valle de Mexicali)	1.85	(1.5)	( 9.0%)
<b>Total</b>	<b>20.35</b>	<b>(16.5)</b>	<b>(100%)</b>

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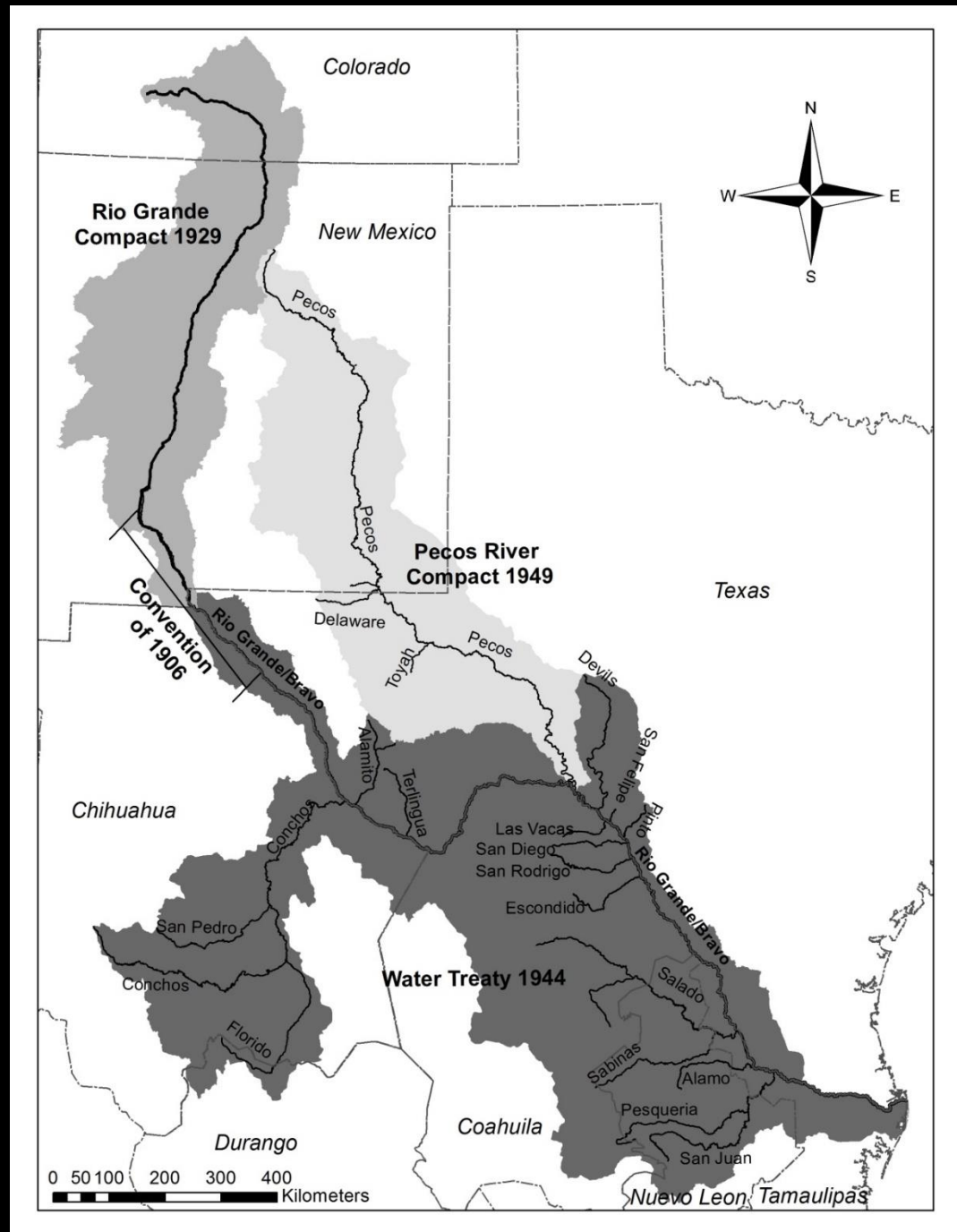
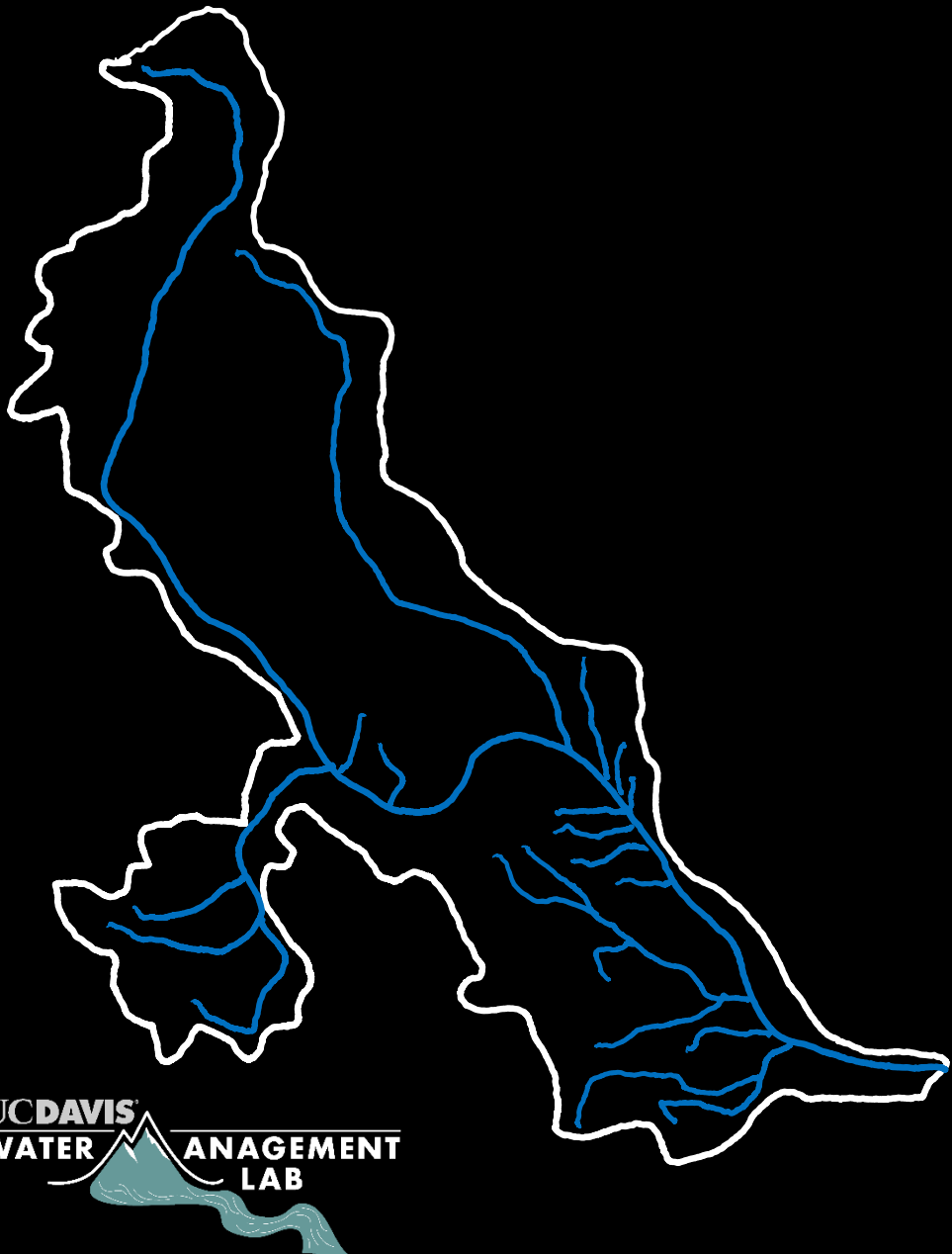
Sandoval-Solis S.(2011). Integrated Water Resources Management for transboundary basins. Case of Study Rio Grande/Bravo Basin. Dissertation. University of Texas at Austin. Austin, TX.

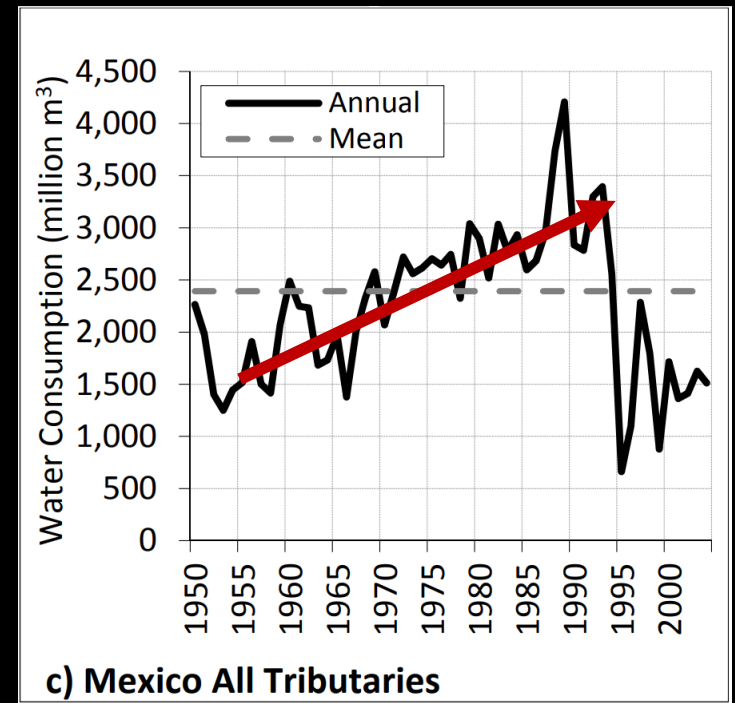
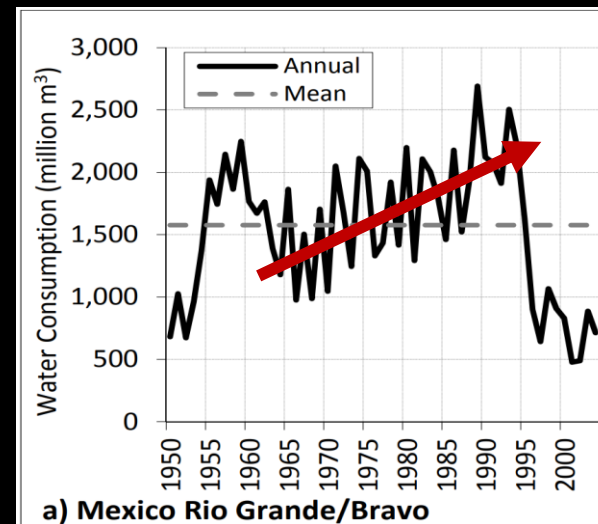
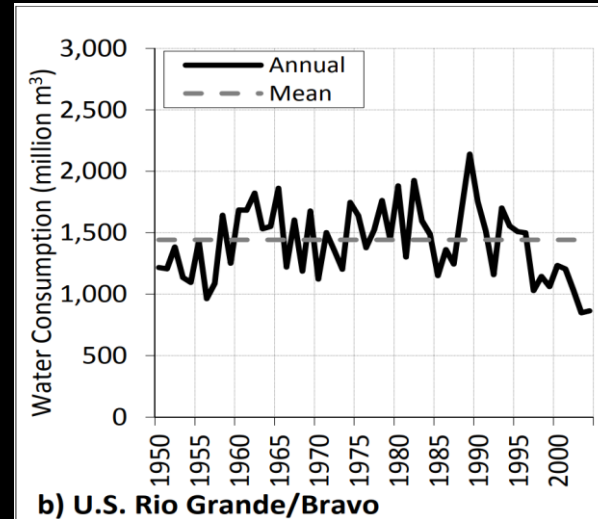
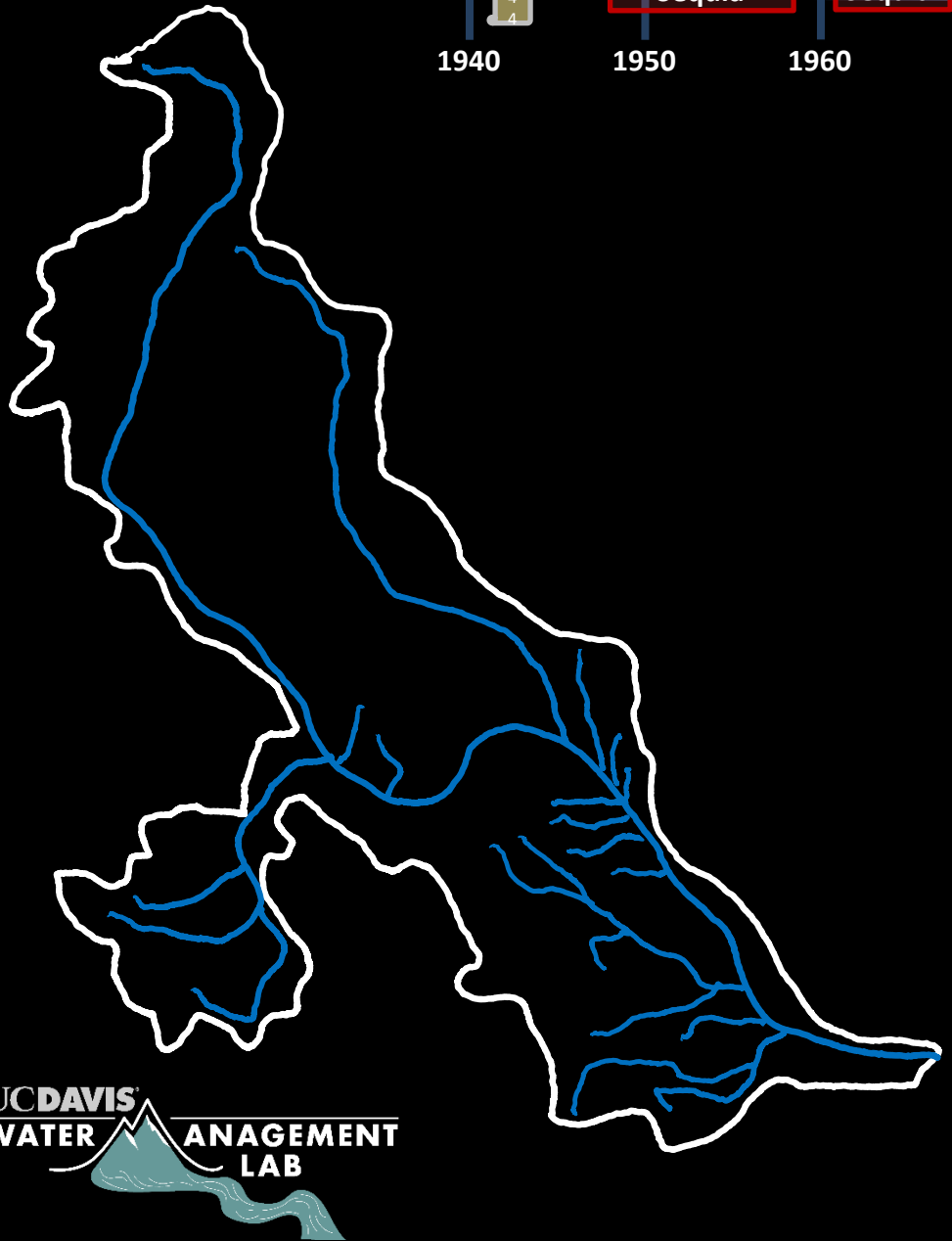
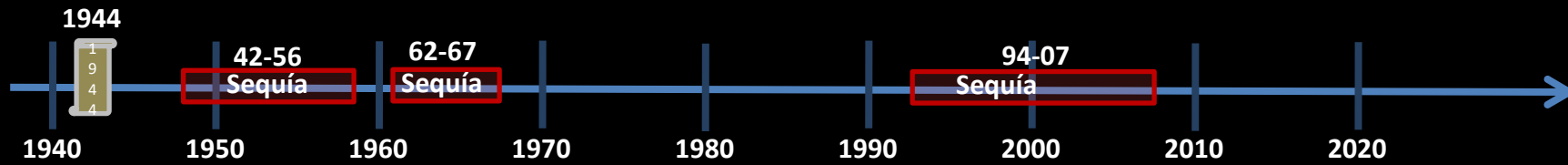


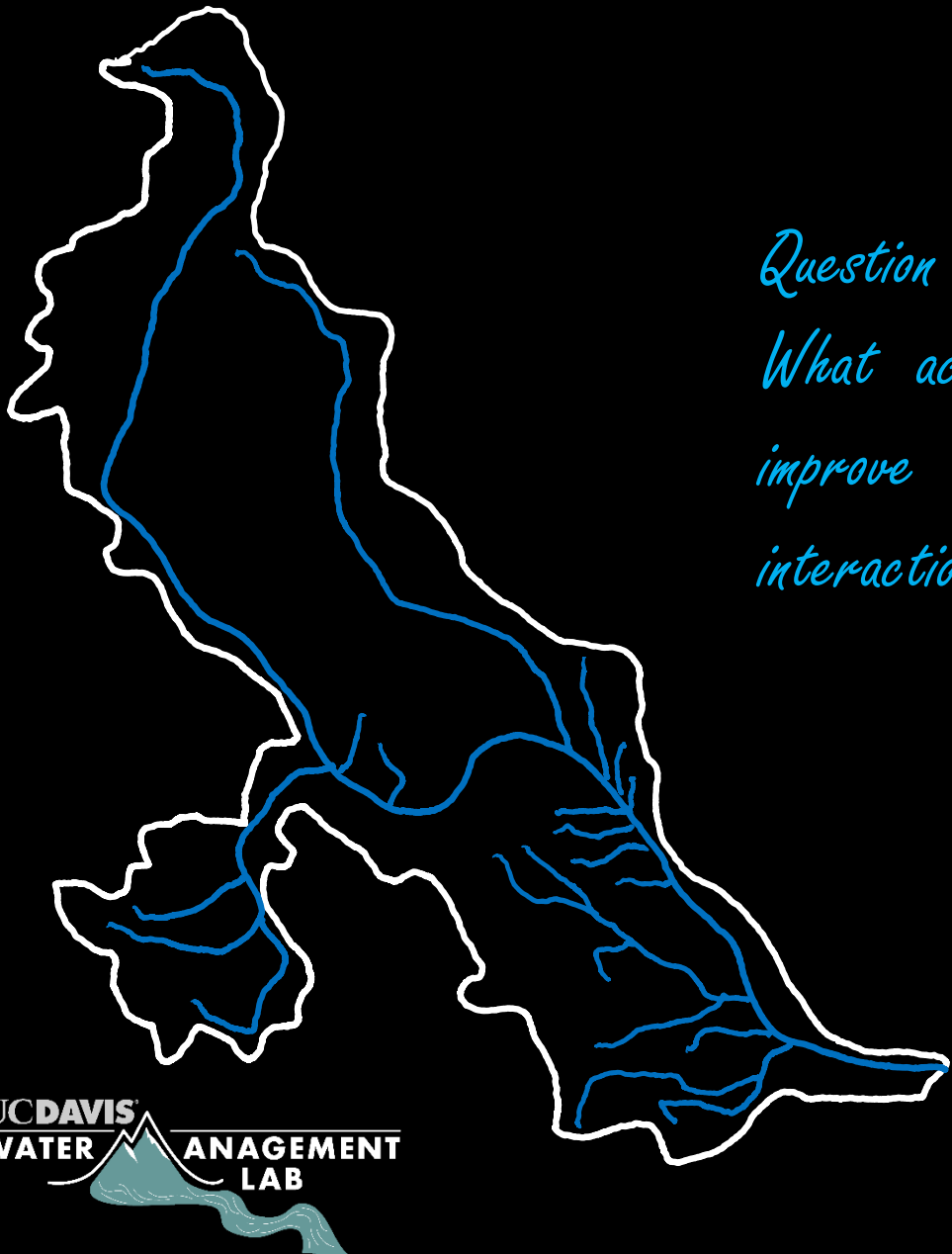


*Question 3:*

*What has been the U.S. and Mexican governments role concerning these processes (policy prescriptions, agreements, projects)?*







*Question 4:*

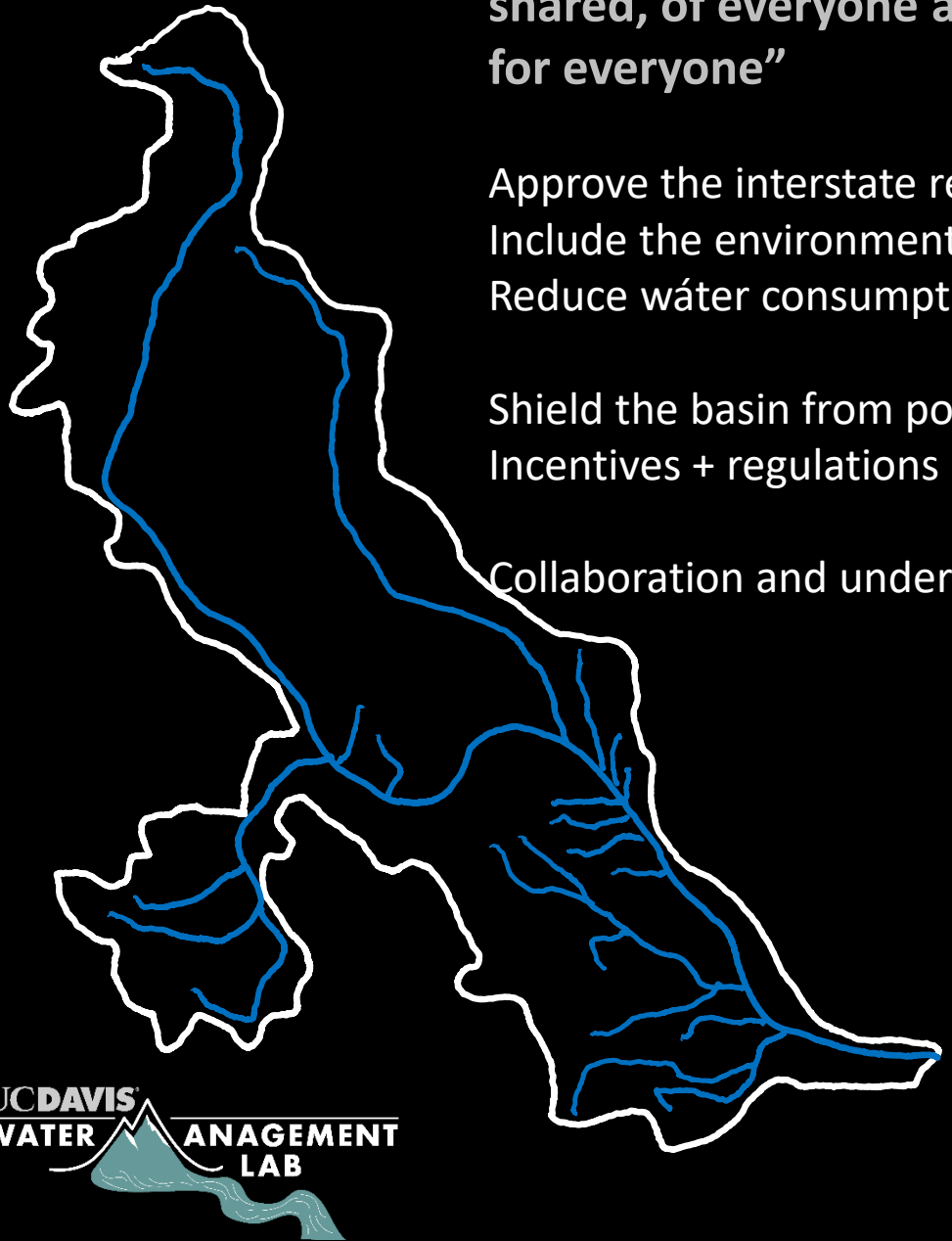
*What actions or policies at the national or binational level could improve outcomes related to groundwater and surface water interactions in either or both basins?*

Shared Basin Vision :  
“Semiarid Basin,  
shared, of everyone and  
for everyone”

Approve the interstate regulation  
Include the environment  
Reduce wáter consumption

Shield the basin from politics  
Incentives + regulations

Collaboration and understanding



Visión de cuenca : Cuenca semiárida de todos y para todos



# Gracias - Thank you

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Samuel Sandoval



Laura Garza



Pablo Ortiz

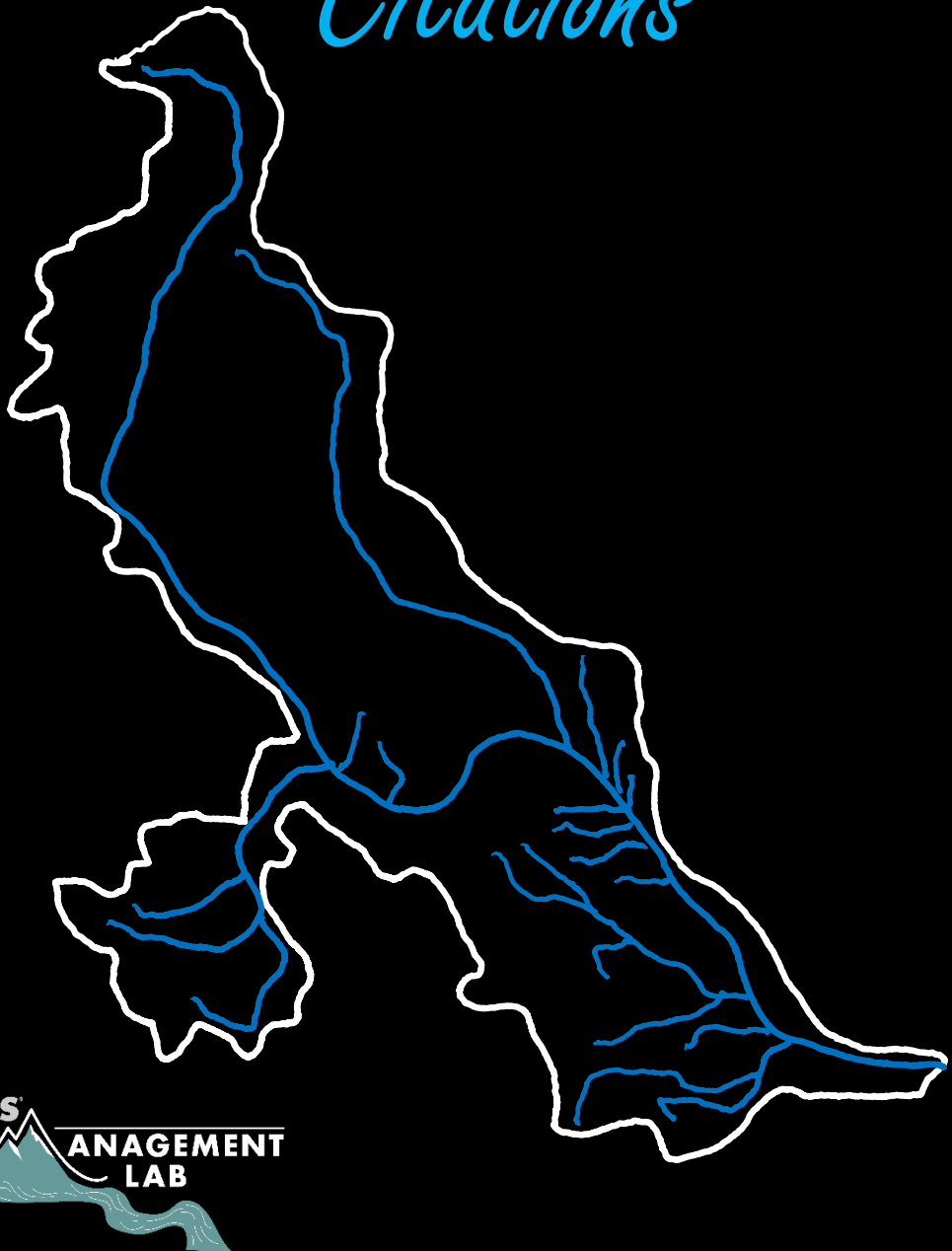


Grace Gómez



Ramón Saiz

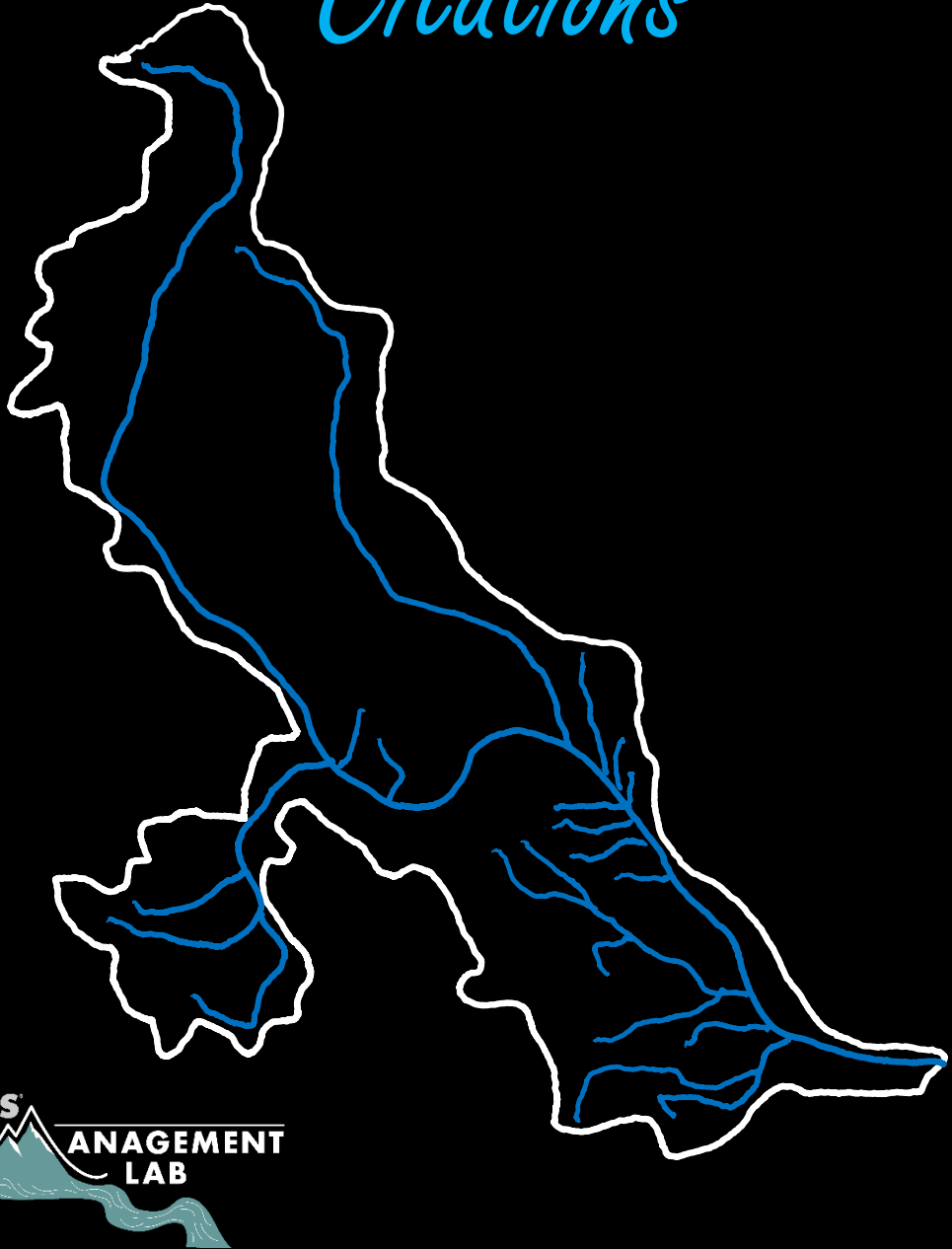
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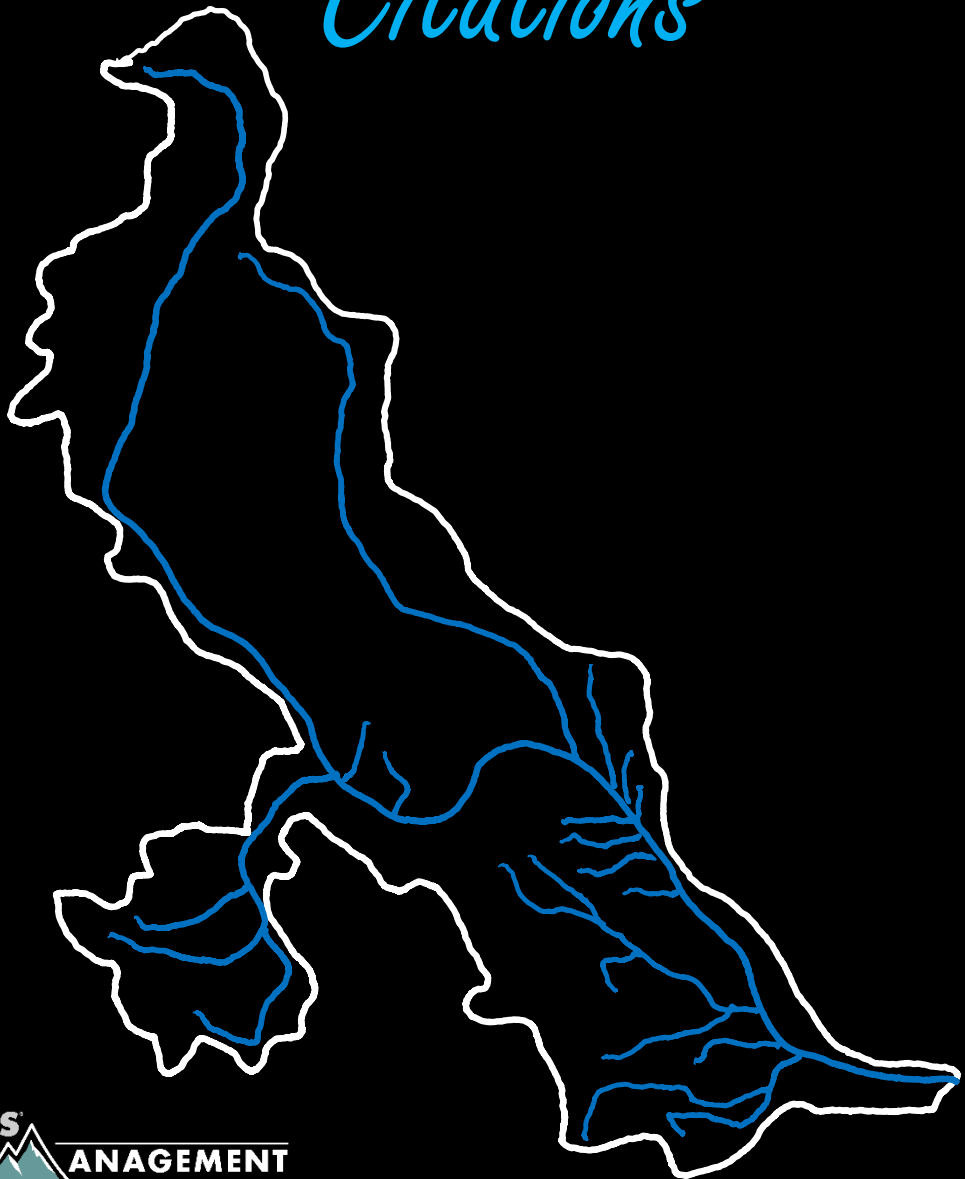
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