

Razorback Sucker



Colorado Pikeminnow

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WIIN Act Group – Brown Bag

PURPOSE:

- 1) Recover Colorado Pikeminnow and Razorback Sucker**
- 2) Provide for water development**

- * Introduce the fish
- * Why the SJRIP was formed
- * Who is the SJRIP
- * What we do
- * Successes
- * Current hot topics



Geography



Razorback Sucker



Colorado Pikeminnow



Colorado Pikeminnow



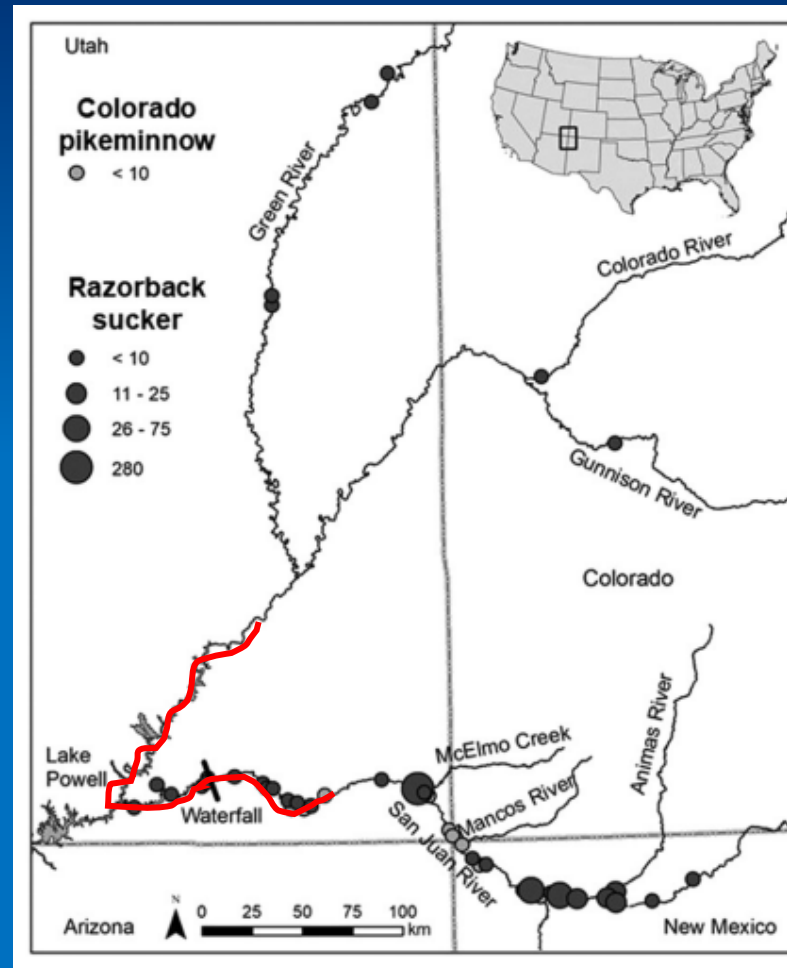
Razorback Sucker



Both are “Big River Fish” and highly migratory



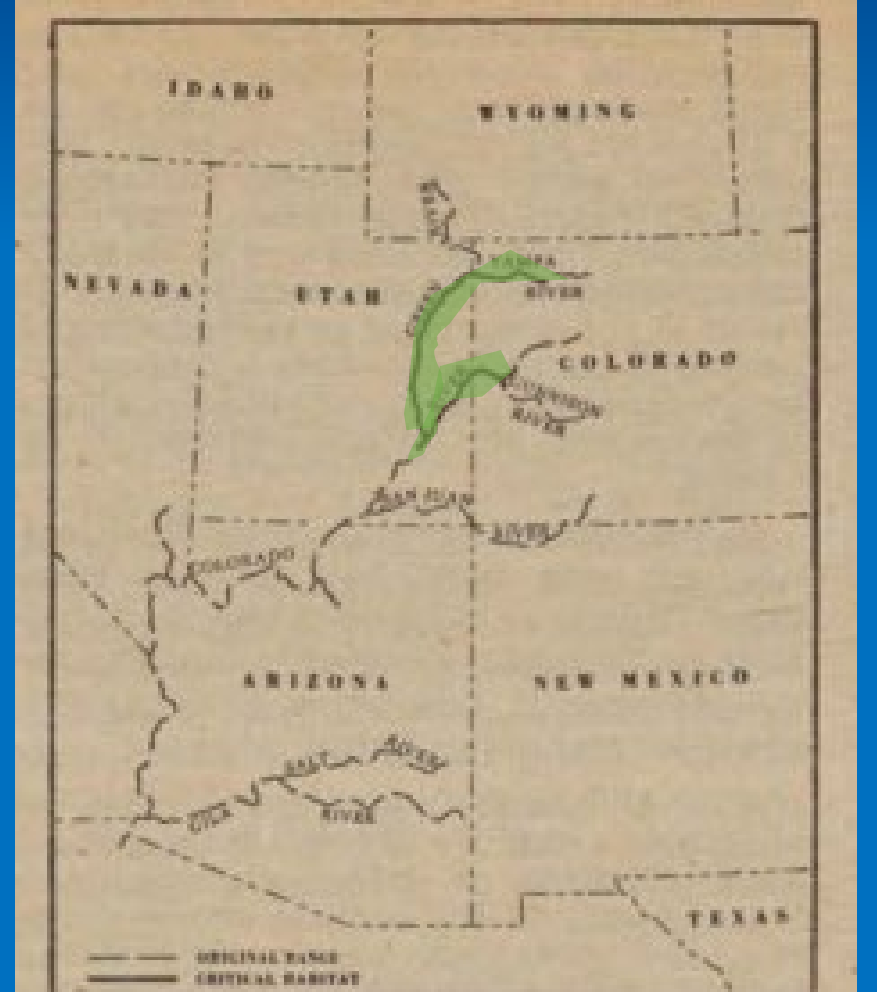
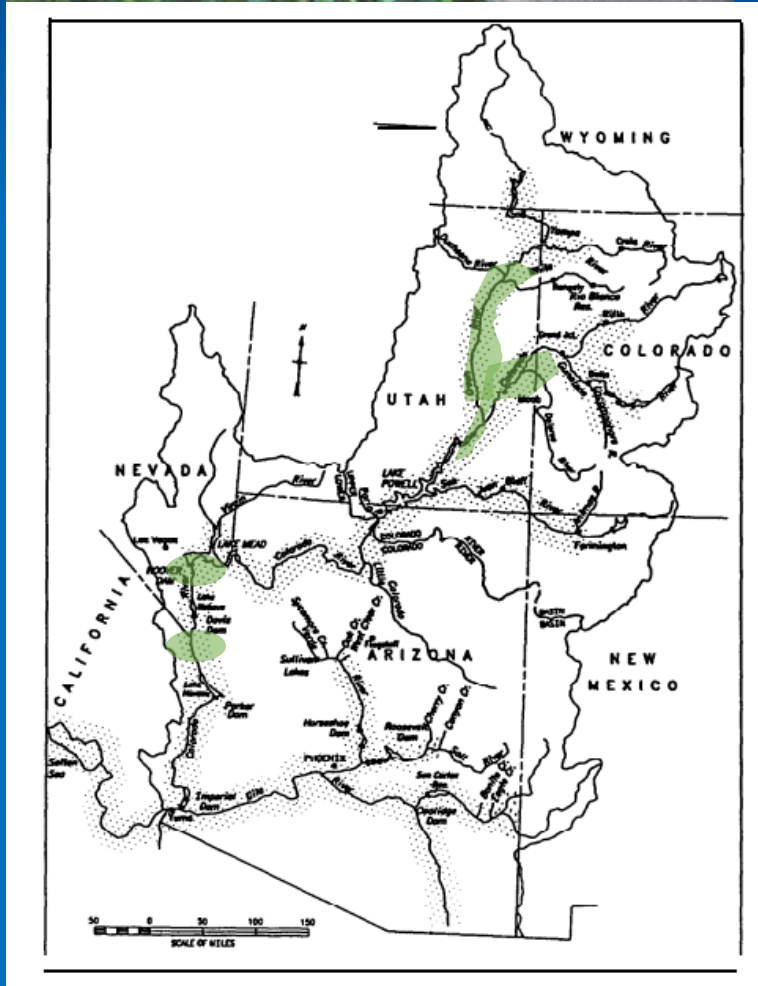
Transbasin movement through Lake Powell



For Razorback Sucker

Not detected for Colorado Pikeminnow

Historical and 1990 distributions



Why SJRIP formed



Lake Nighthorse - Durango, Colorado.

Animas La Plata Water Project – Ridges Dam
Long history but finally estimated construction 1990





— BUREAU OF —
RECLAMATION



7-year research
Navajo Reservoir flow recommendations



SJRIP PURPOSE

**Recover Colorado Pikeminnow and Razorback Sucker to the San Juan River Basin
AND
provide for water development**

Repatriate Colorado Pikeminnow and Razorback Sucker

Serves as Endangered Species Act compliance for 356 water projects comprised of ~ 885,510 acre-feet/year

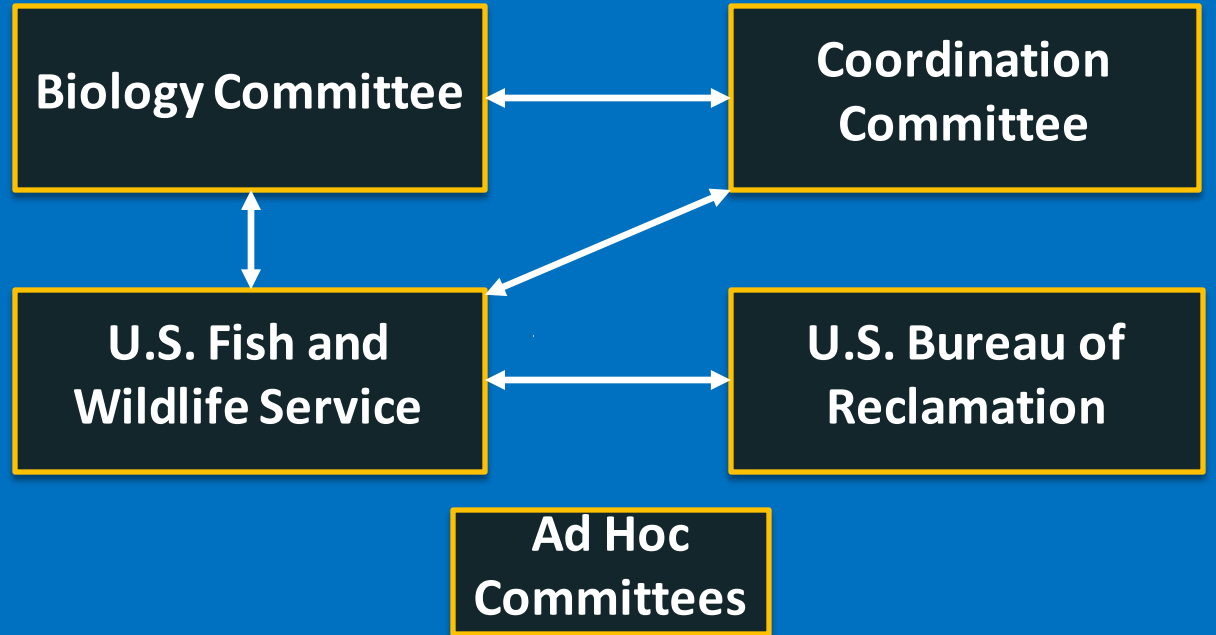
Who is the SJRIP



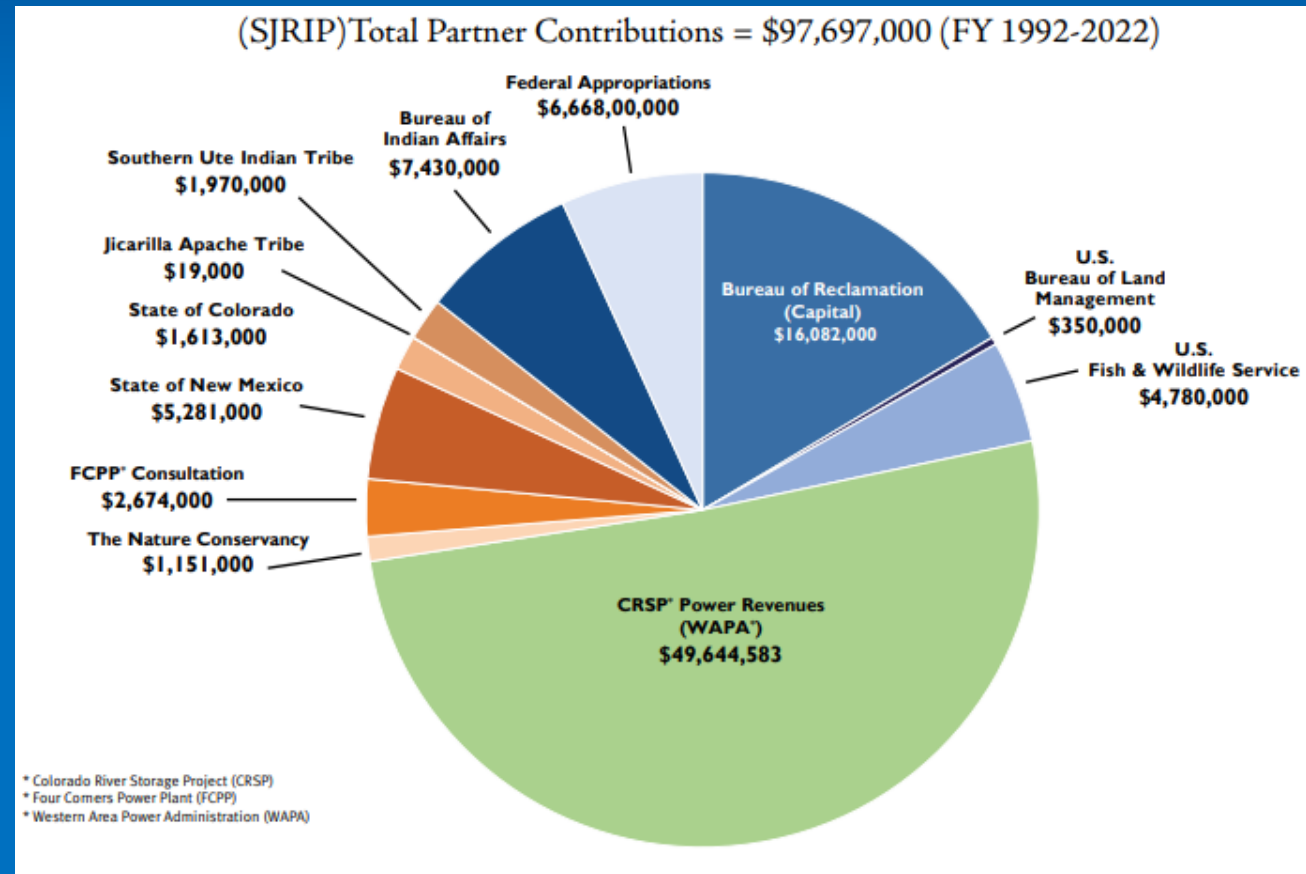
BUREAU OF RECLAMATION



Water Users



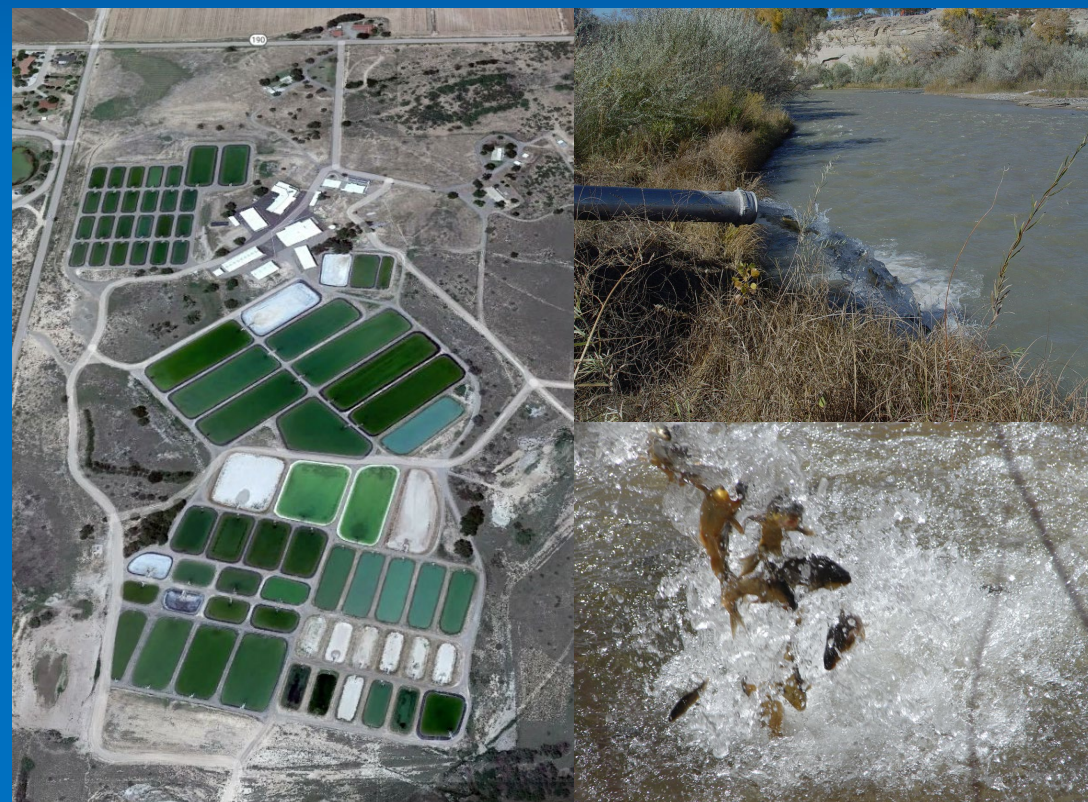
How we go about recovery: Money



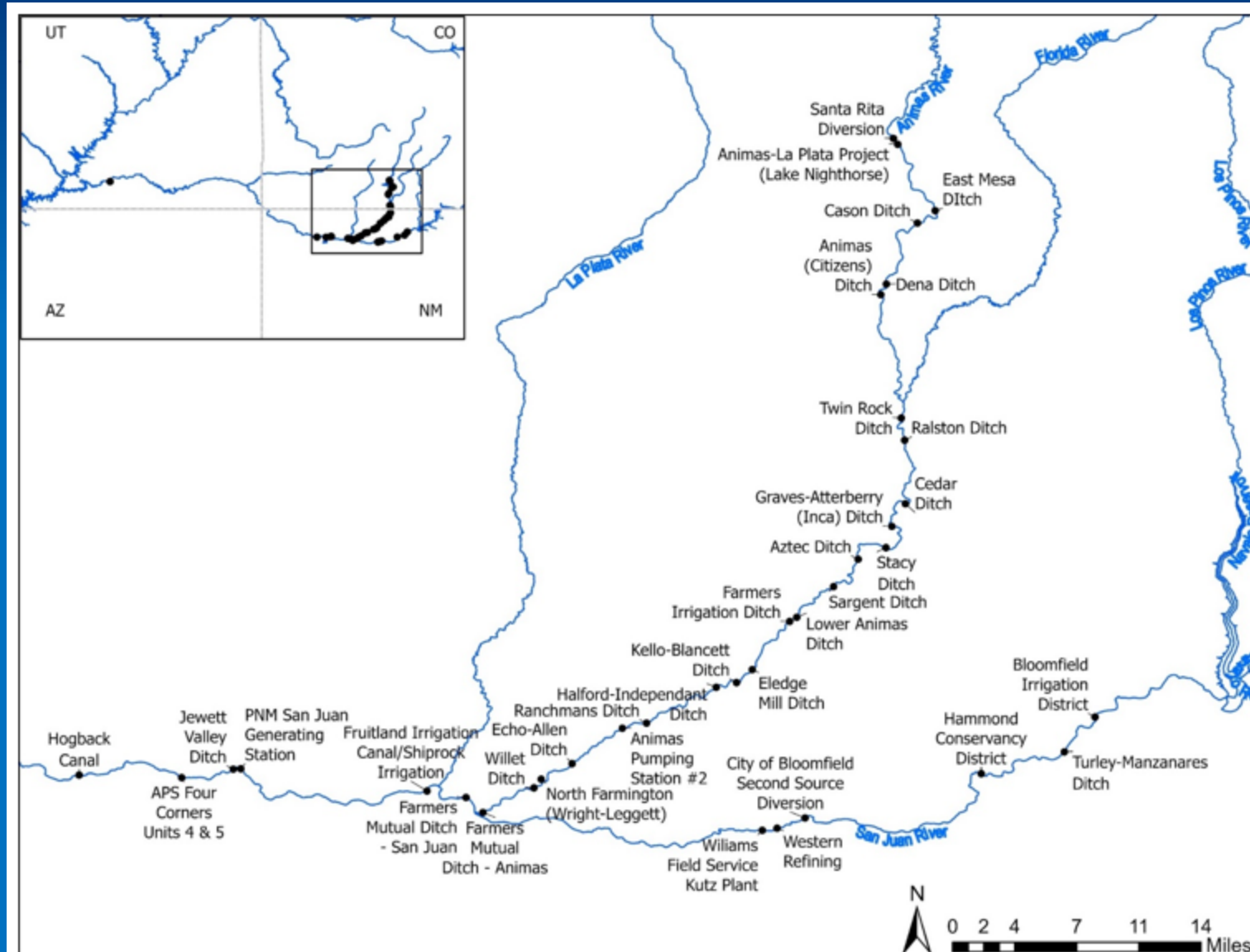
How we go about recovery: Reestablish and remove

1) Reestablish
endangered fish

2) Remove
nonnative fish



How we go about recovery: Remediate entrainment and passage



How we go about recovery:

3) Entrainment

Hogback irrigation canal



\$3.5 million



How we go about recovery: Remediate passage

4) Passage

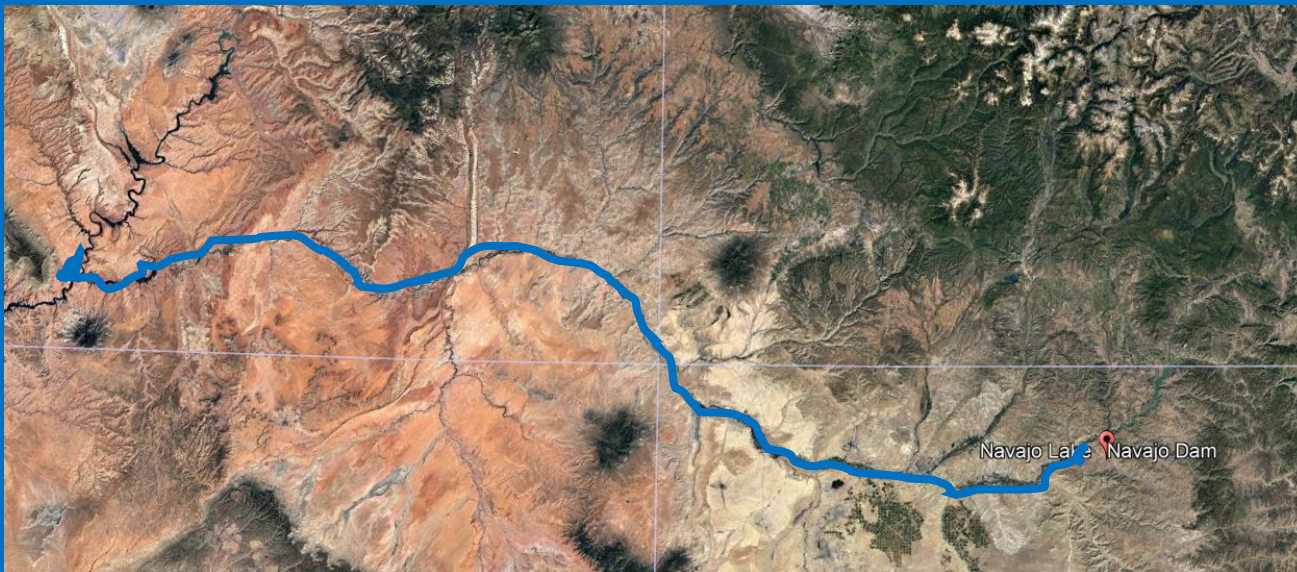
PNM weir



Hogback diversion



How we go about recovery: Navajo Reservoir flow recommendations

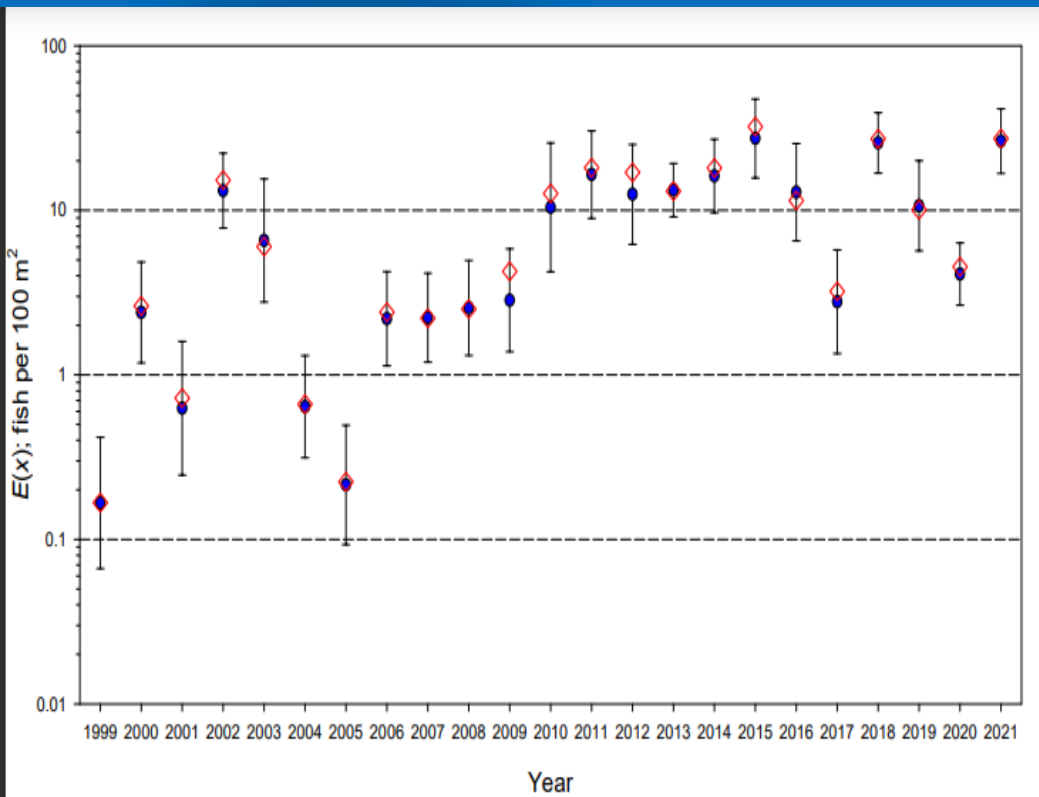


Annual Flow Statistics		# OF DAYS MEETING FLOW				YEARS MEETING GOAL			
YEAR	Hydrograph Released	>9,700 cfs	>7,760 cfs	>4,850 cfs	>2,425 cfs	>9,700 cfs	>7,760 cfs	>4,850 cfs	>2,425 cfs
	<i>Minimum Target</i>	5	10	21	10	10	6	4	2
1993	Non-Standard (pre-flow recs)	4	20	114	128	11	0	0	0
1994		0	12	50	68	12	0	0	0
1995		13	29	74	139	0	0	0	0
1996		0	0	0	36	1	1	1	0
1997		12	36	50	104	0	0	0	0
1998	2-wk	0	4	35	66	1	1	0	0
1999	1-wk	0	1	31	72	2	2	0	0
2000	ns 1-wk	0	0	6	40	3	3	1	0
2001	2-wk	0	4	36	56	4	4	0	0
2002	none	0	0	0	0	5	5	1	1
2003	none	0	0	0	14	6	6	2	0
2004	none	0	0	1	26	7	7	3	0
2005	full+	11	18	52	85	0	0	0	0
2006	1-wk	0	0	8	24	1	1	1	0
2007	2-wk	0	3	21	56	2	2	0	0
2008	3-wk	6	25	62	121	0	0	0	0
2009	1-wk	0	0	20	41	1	1	1	0
2010	none	0	0	0	19	2	2	2	0
2011	1-wk	0	7	12	29	3	3	3	0
2012	1-wk	0	0	6	10	4	4	4	0
2013	none	0	0	0	0	5	5	5	1
2014	none	0	0	0	22	6	6	6	0
2015	none	0	1	16	38	7	7	7	0
2016	30pk/55tot	0	7	35	53	8	8	0	0
2017	40pk/69tot	0	7	49	73	9	9	0	0
2018	none	0	0	0	0	10	10	1	1
2019	MR	6	9	25	63	0	11	0	0
2020	none	0	0	0	0	1	12	1	1
2021	none	0	0	0	4	2	13	2	2

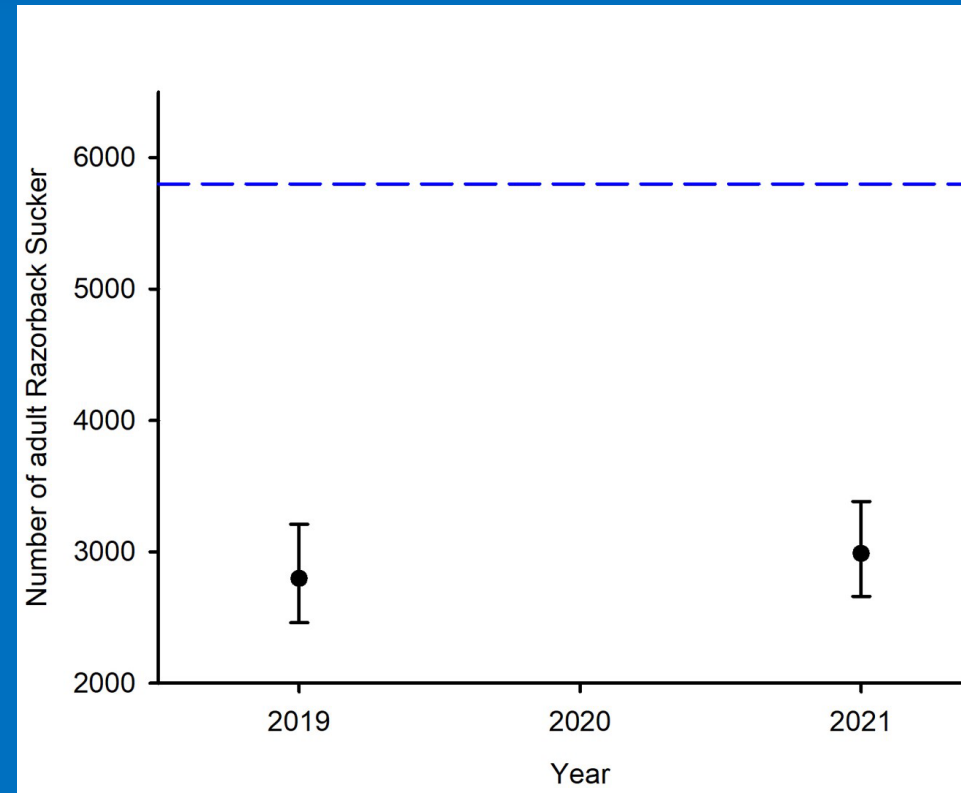
How are we doing? Razorback Sucker



Larvae



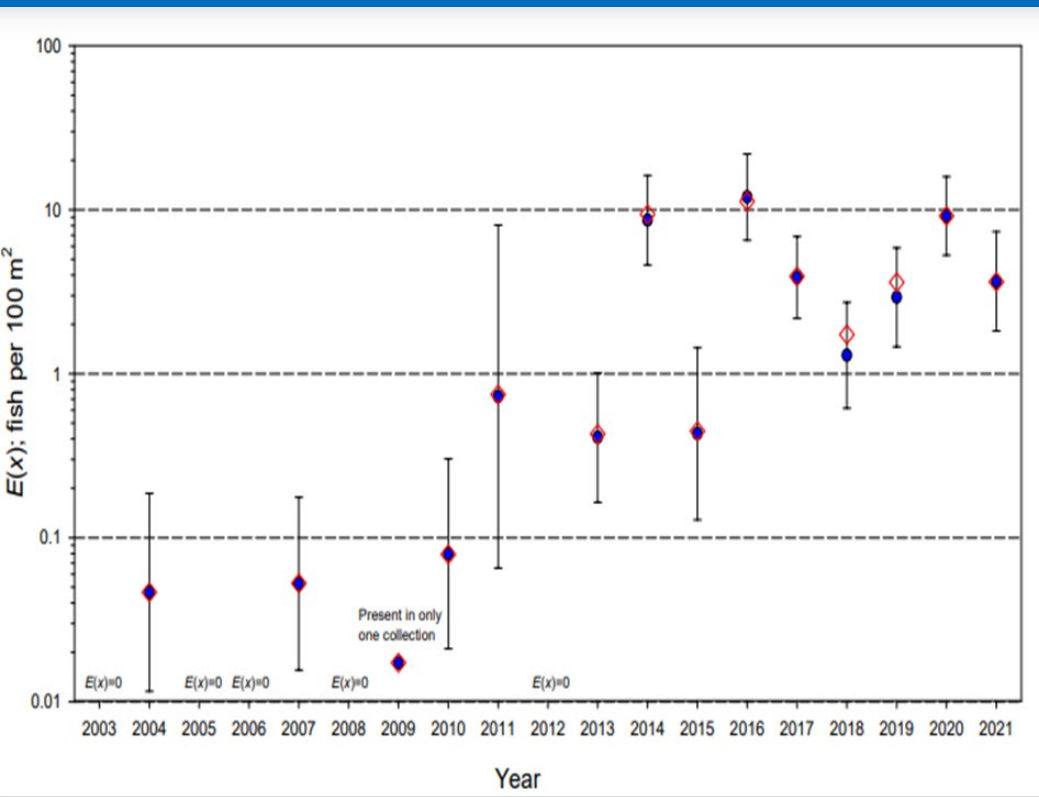
Sub-adults/adults



How are we doing? Colorado Pikeminnow

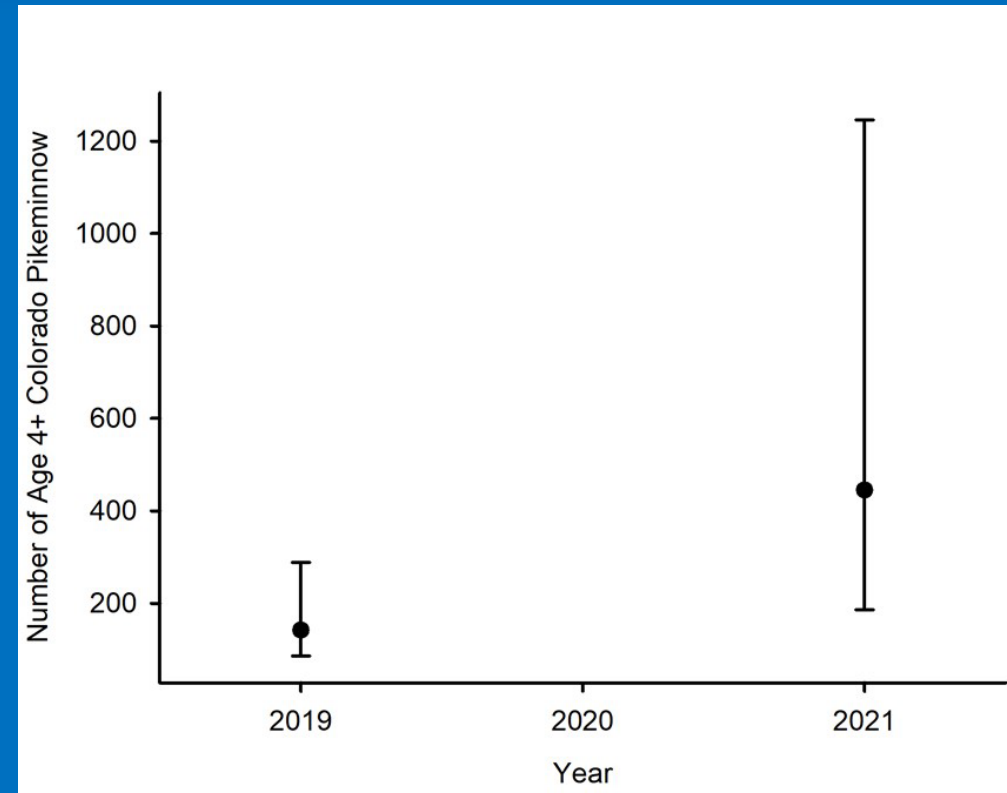


Larvae



juveniles

Sub-adults/adults



Endangered species status

Colorado
Pikeminnow

Razorback
Sucker

Endangered

Threatened

Recovered



Water development status



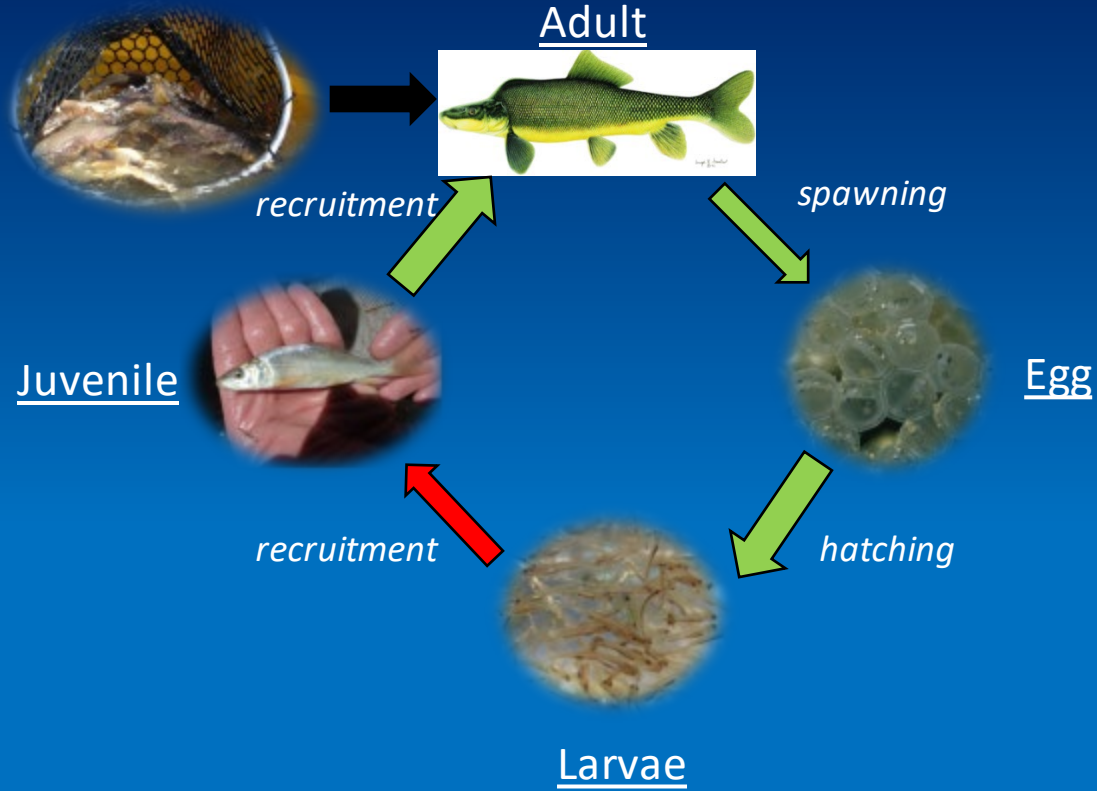
Water
development
continues to
proceed

Persistent Hot Topic Issues



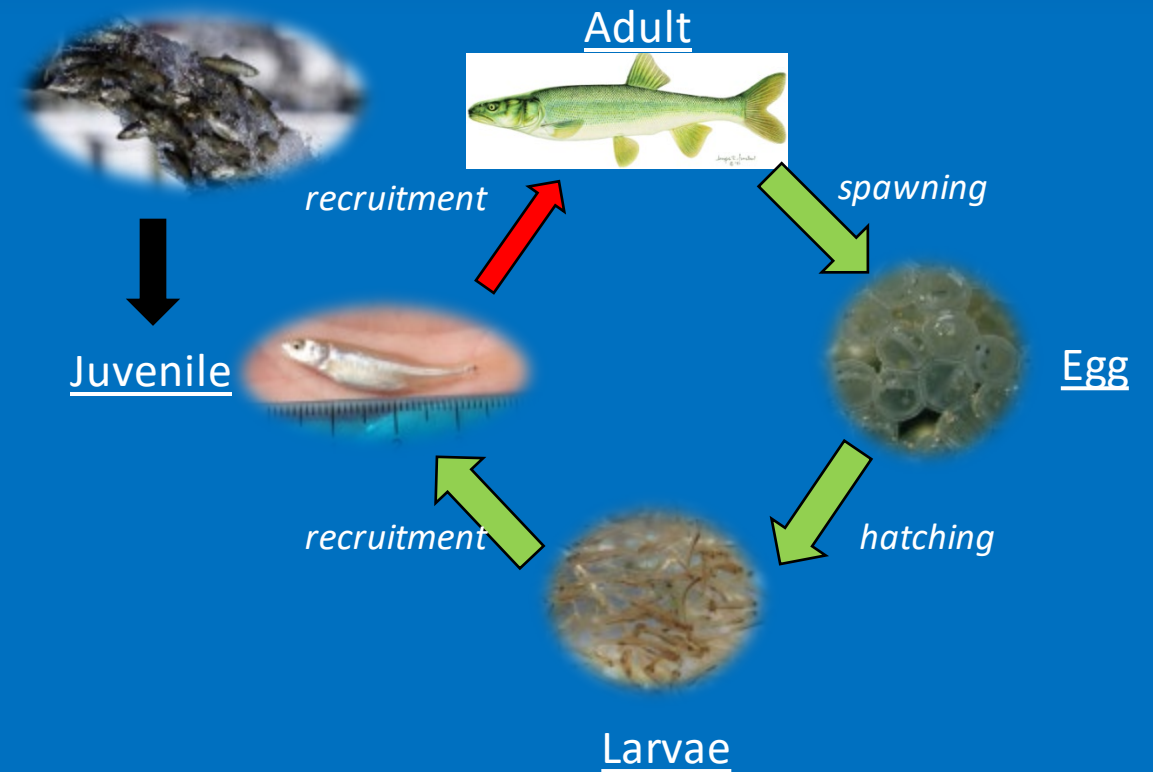
- Species bottlenecks
- Water demands
- Piute Farms waterfall
- Russian olive

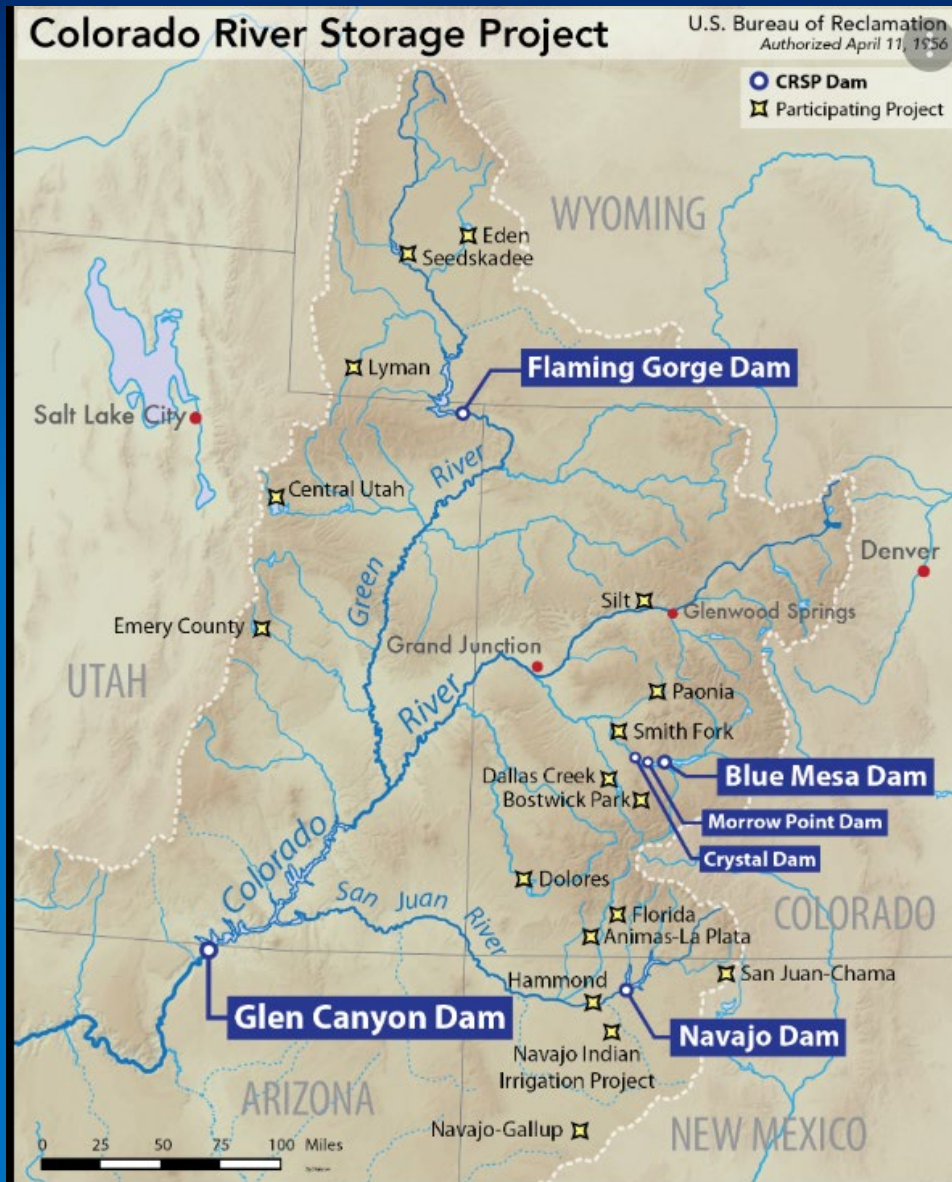
Razorback Sucker



Species bottlenecks

Colorado Pikeminnow

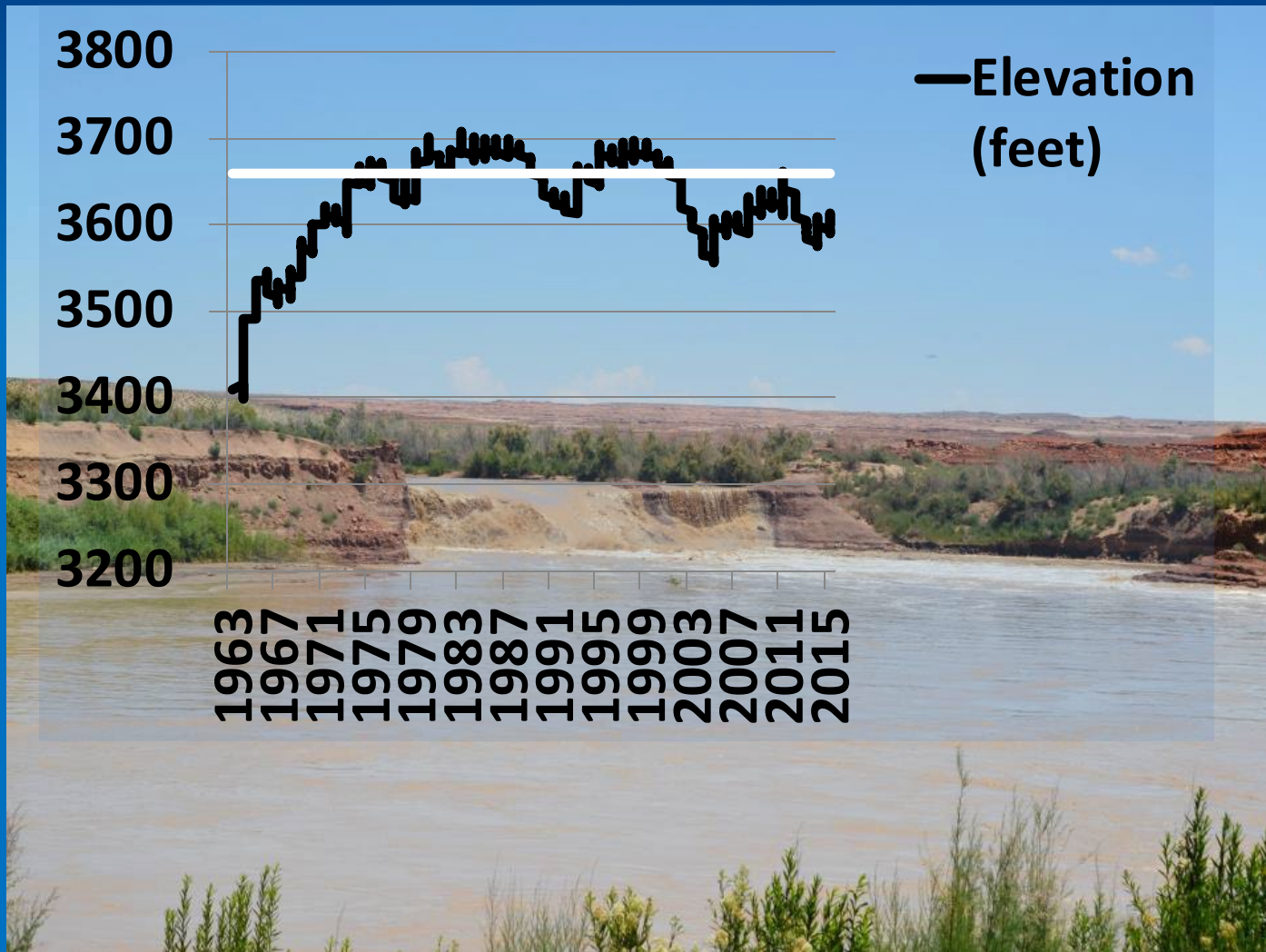




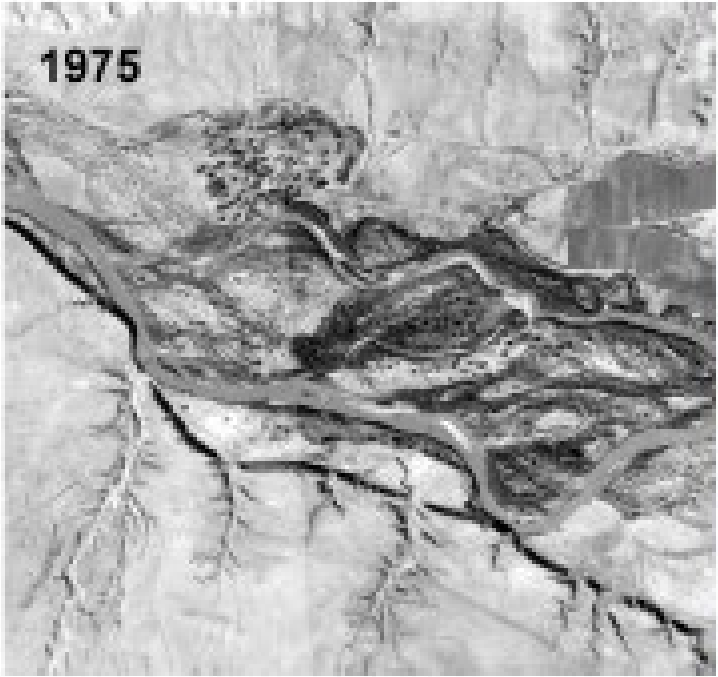
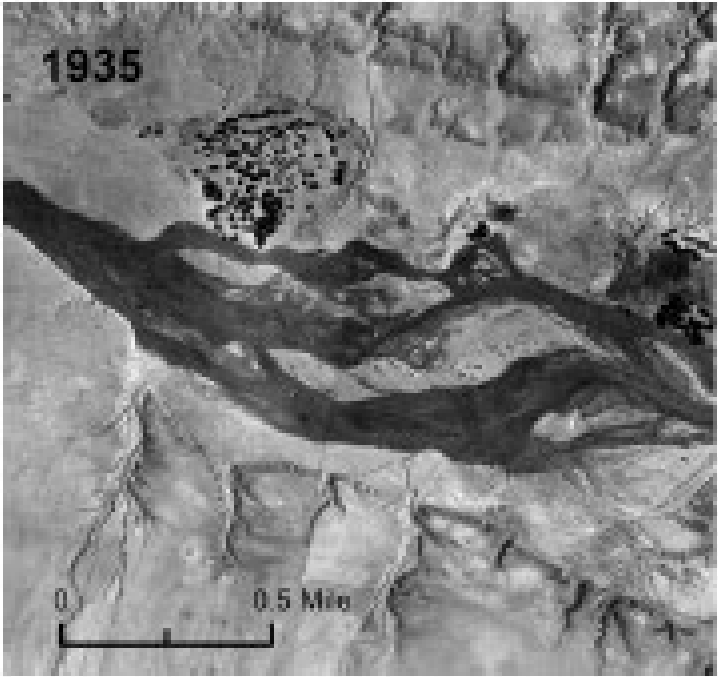
Water demands

- Difficult to meet flow recommendations
- Drought contingency plan releases
- Water rights not fully developed

Piute Farms waterfall Barrier – good and bad



Russian Olive and restricted floodplain





San Juan River, its fishes, Questions?

