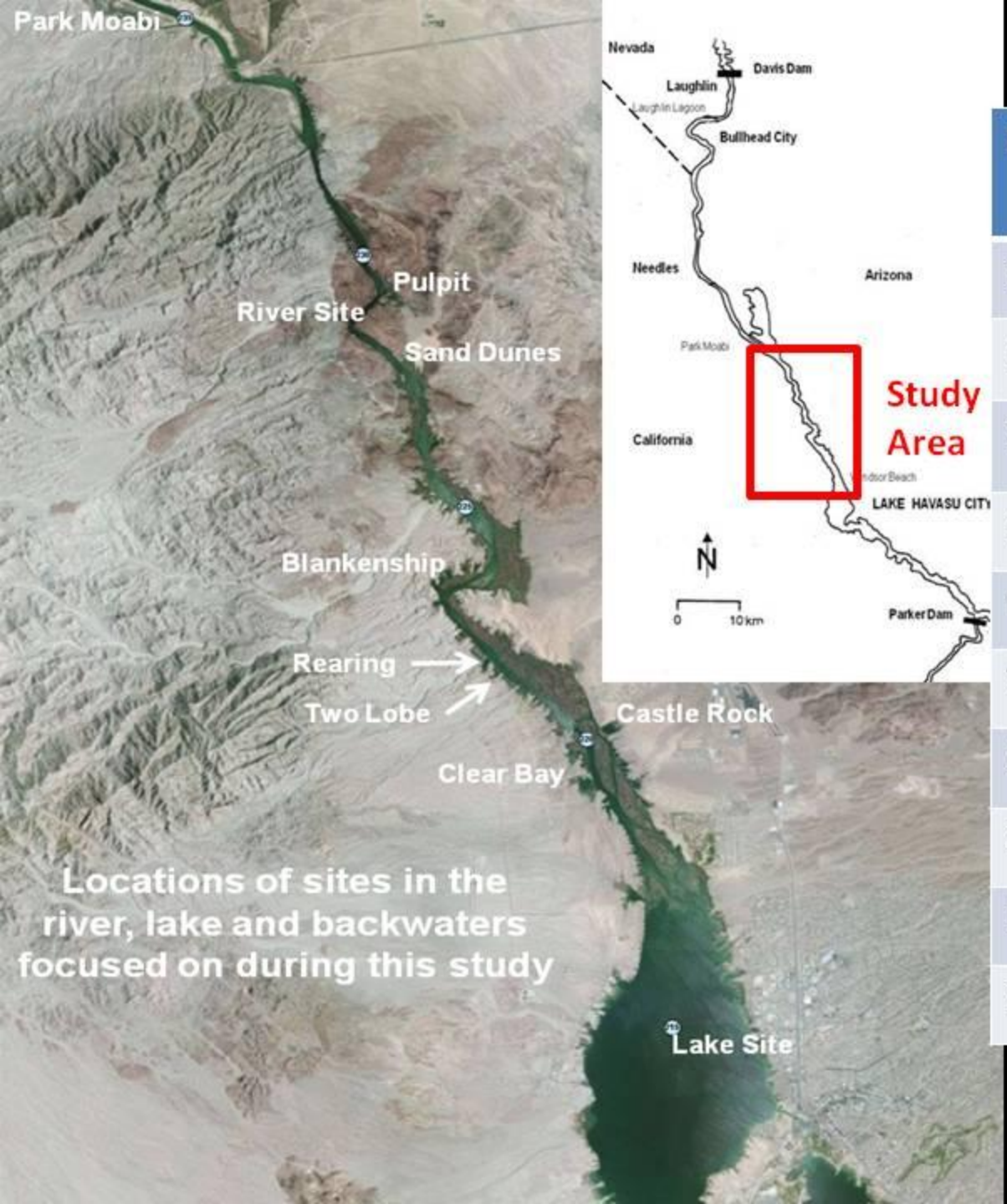
Razorback Sucker Use of Backwaters between Davis and Parker Dams (Lake Havasu)

Rick Wydoski
Jeff Lantow

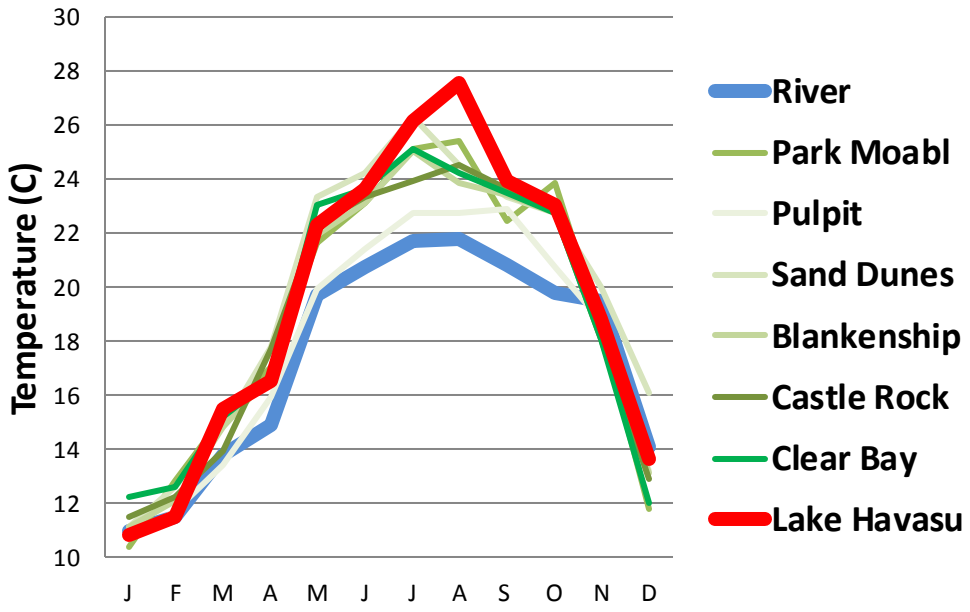
Funded by MSCP



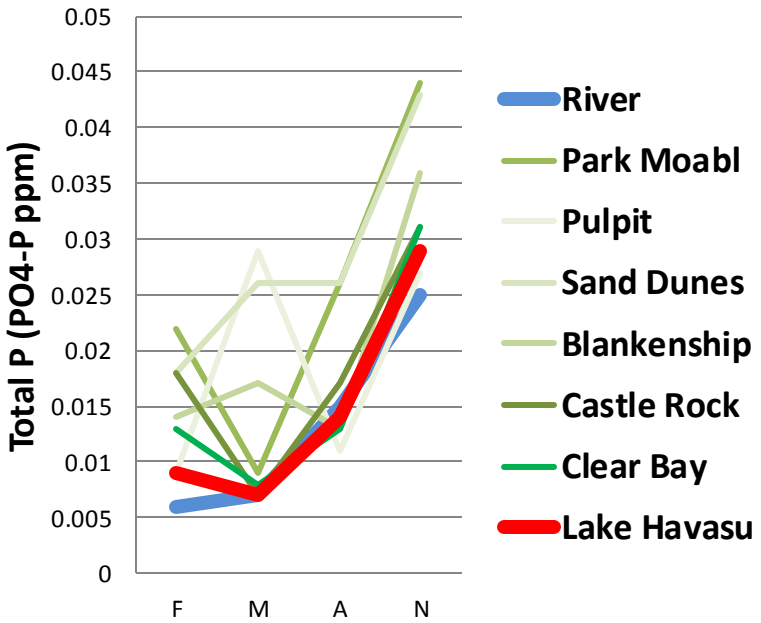
Locations of sites in the river, lake and backwaters focused on during this study

Backwater	Surface(acres)	Mouth (m)
Park Moabi	23.1	40
Pulpit	17.5	90
Sand Dunes	12.3	3
Blankenship	36.3	55
Rearing	8.5	40
Two Lobe	5.0	3
Castle Rock	18.0	3
Clear Bay	28.4	200
River		
Havasu		

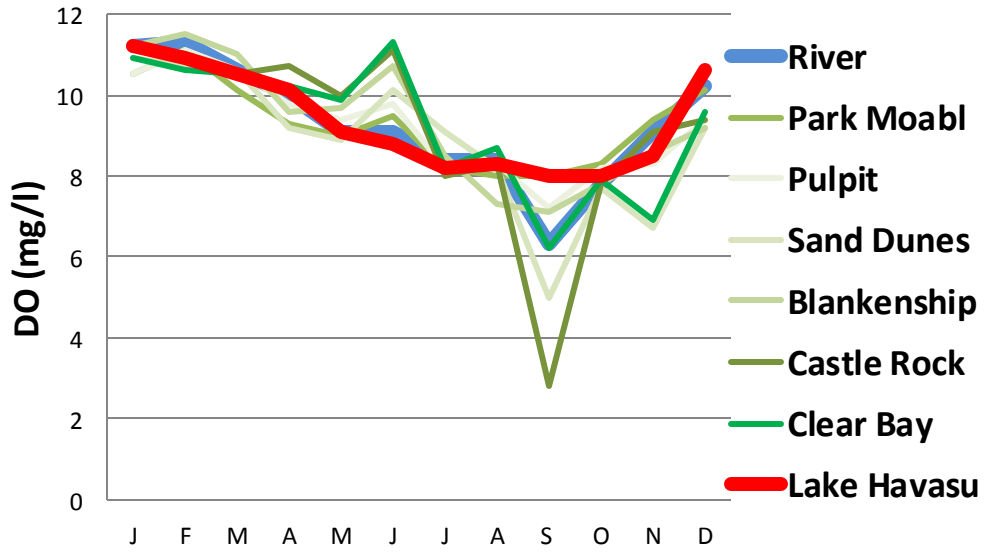
2012 Water Temperatures



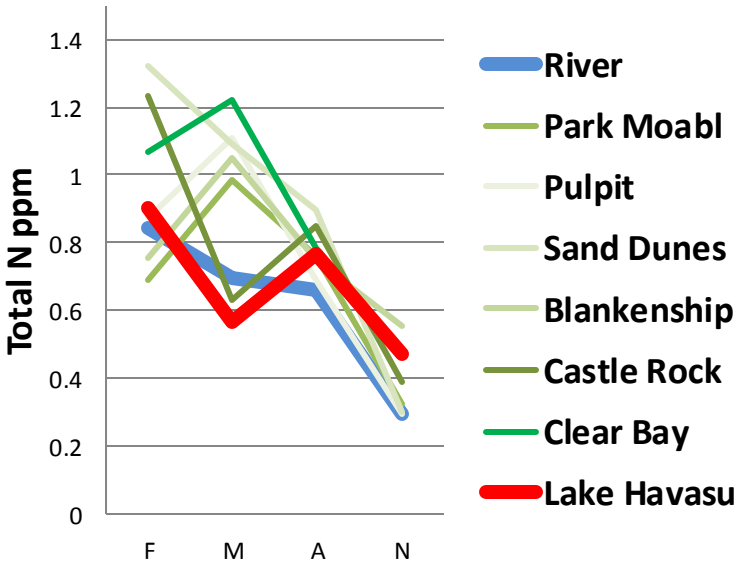
2012 Total Phosphorus Levels



2012 Dissolved Oxygen Levels



2012 Total Nitrogen Levels



November, 2010 to April, 2012

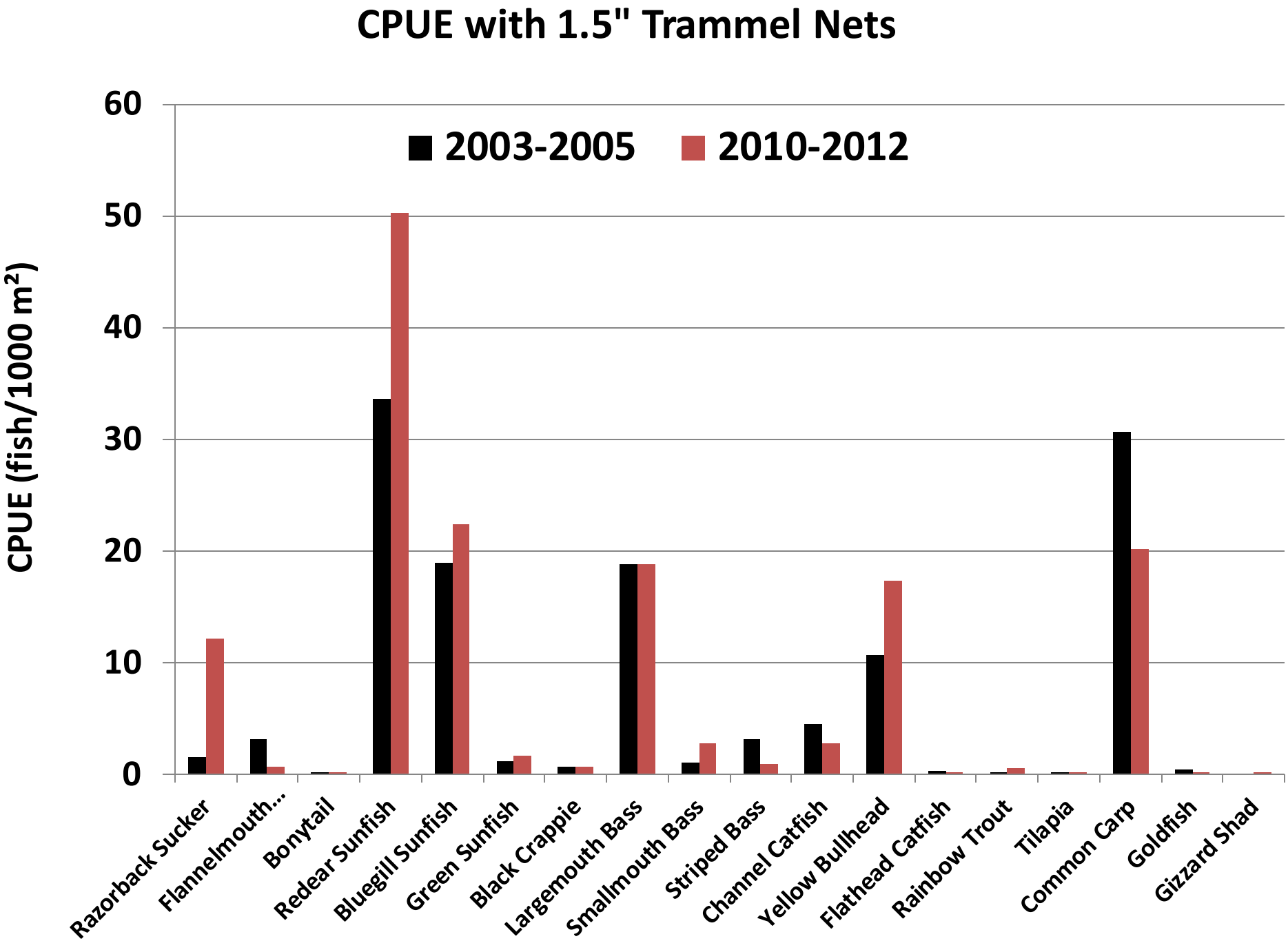
Trammel Netting

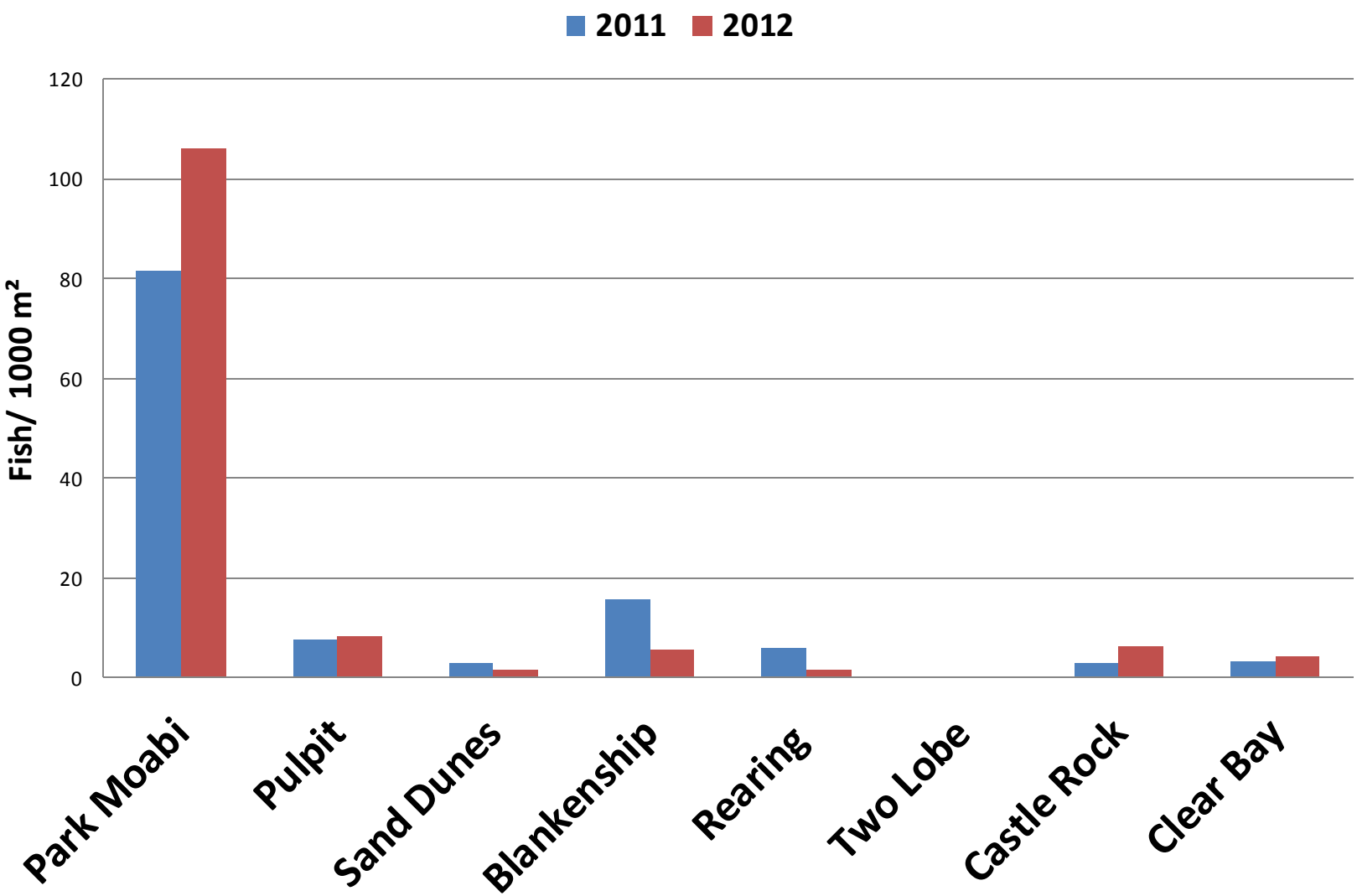
282 overnight trammel net sets were made in backwaters.

4199 fish were captured during this effort.

Majority were red ear and bluegill , largemouth bass, yellow bullhead and carp.

277 razorback suckers were captured.


CPUE with 1.5" Trammel Nets
2003-2005
2010-2012
CPUE (fish/1000 m²)
60
50
40
30
20
10
0
Razorback Sucker
Flannelmouth...
Bonytail
Redear Sunfish
Bluegill Sunfish
Green Sunfish
Black Crappie
Largemouth Bass
Smallmouth Bass
Striped Bass
Channel Catfish
Yellow Bullhead
Flathead Catfish
Rainbow Trout
Tilapia
Common Carp
Goldfish
Gizzard Shad


Razorback CPUE by Backwater
1.5" Trammel Net
2011
2012
Fish/ 1000 m²
120
100
80
60
40
20
0
Park Moabi
Pulpit
Sand Dunes
Blankenship
Rearing
Two Lobe
Castle Rock
Clear Bay

November, 2010 to April, 2012

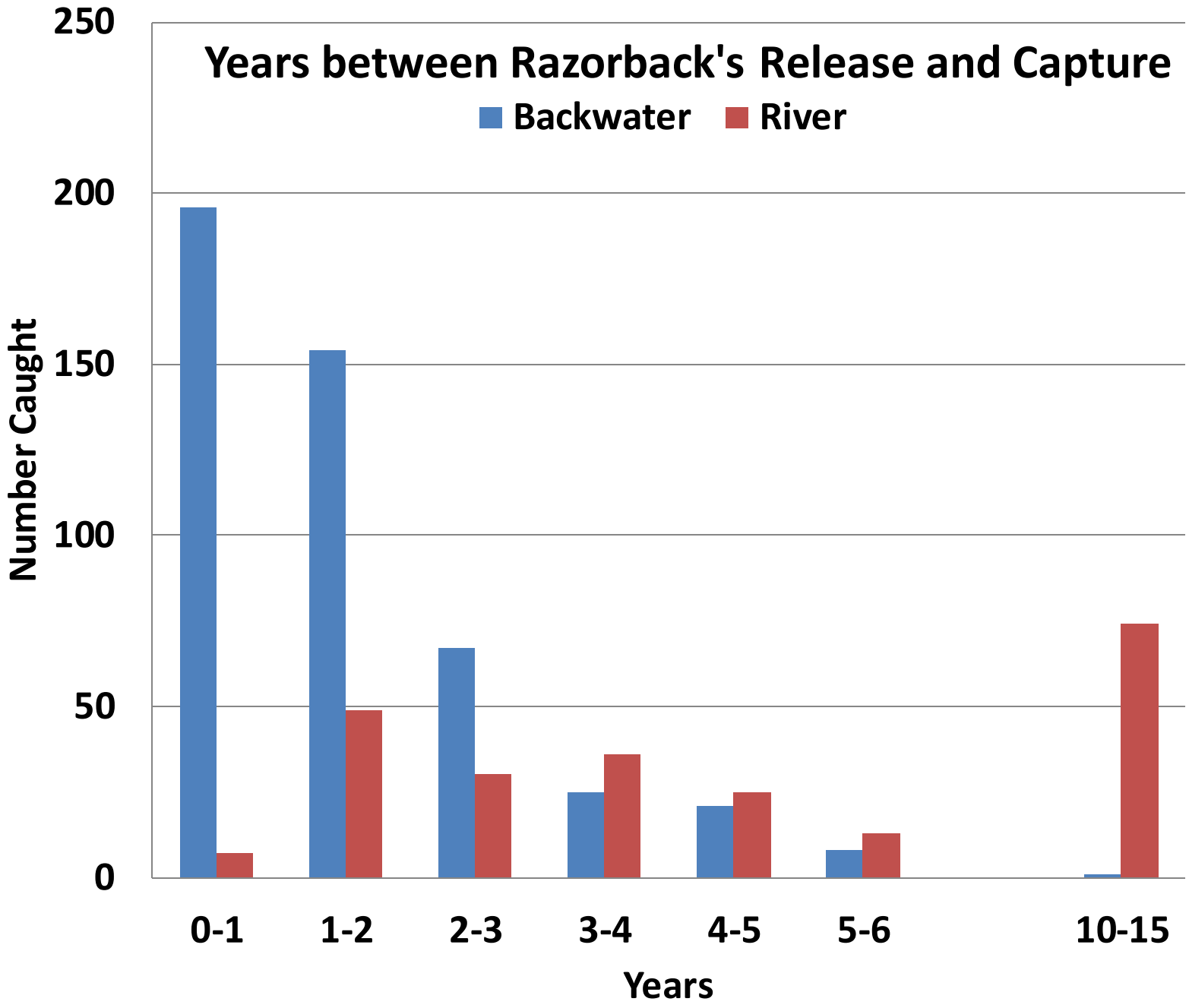
Electrofishing

27 electrofishing efforts were made.

11 in the river

16 in backwaters

459 razorback suckers were captured.


Years between Razorback's Release and Capture
Backwater
River
Number Caught
250
200
150
100
50
0
0-1
1-2
2-3
3-4
4-5
5-6
10-15
Years

Razorback Sucker Population in Lake Havasu				
Year	Population Estimate	M	C	R
2011	4,283 fish (95% CL 3,342 – 6,474)	347	319	25
2012	7,495 fish (95% C.L. 4,719 – 12,491)	362	350	16

LHFIP Razorback Sub-population				
Year	Population Estimate	M	C	R
2011	714 fish (95% CL 336-1643)	75	46	4
2012	439 fish	46	27	2

2013 Plans

Fish Sampling:

Larger Fish with Trammel Nets (Nov, Dec, Feb, Mar)
PIT Tag Razorbacks with Scanners (monthly)
Larval Fish Attracted to Lights (Feb, Mar, Apr)

Habitat Sampling:

Limnological Profiles (monthly)
Nutrients (quarterly)
Zooplantkton (quarterly)
Macroinvertebrates (quarterly)
Aquatic Vegetation (monthly)

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Marsh and Associates