Lake Mead Fish Hatchery
C.R.A.B. Meeting 2017

NEVADA
DEPARTMENT OF
WILDLIFE

Upper Rearing

Lower Rearing

Fish Reared at LMFH

Razorback Sucker
(Xyrauchen texanus)

Bonytail Chub
(Gila elegans)

Flannelmouth Sucker
(Catostumus latipinnis)

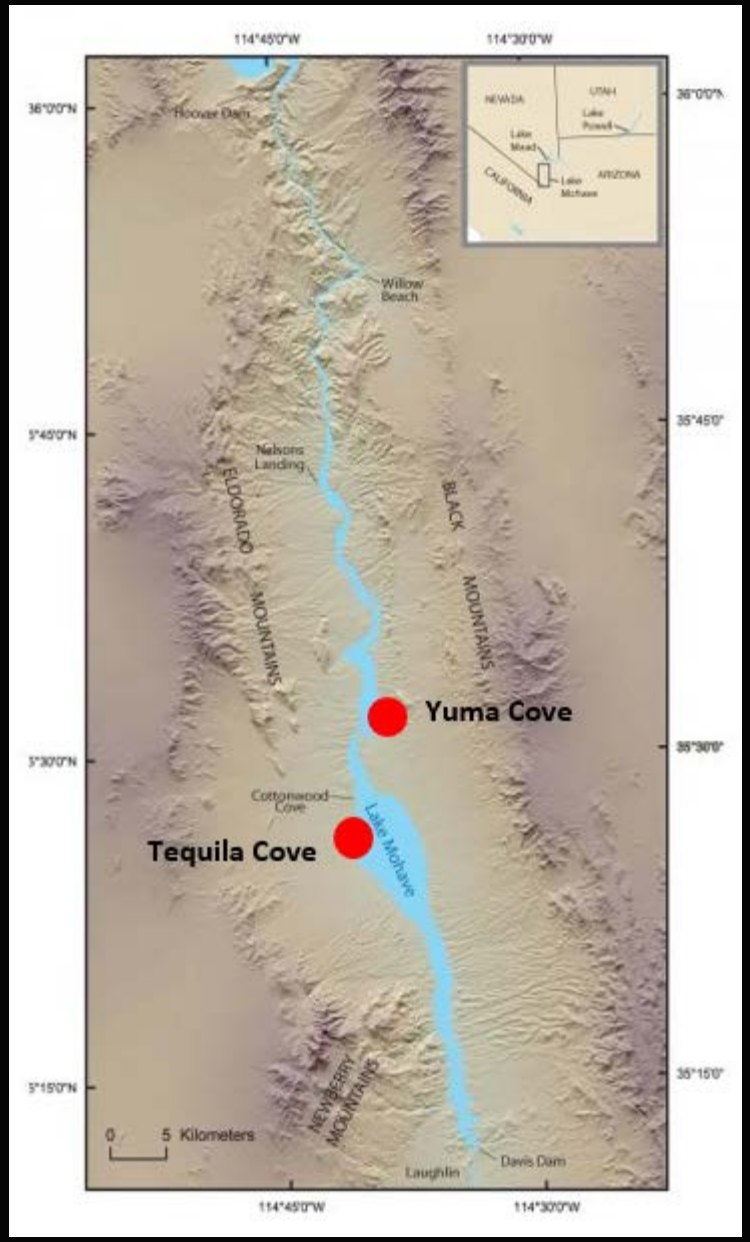
Moapa Dace
(Moapa Coriacea)

Razorback Larval Rearing

Larval Tanks

2015 – present; upgraded larval tanks

Razorback Site Fidelity Study



- 2015 – NDOW Staff collected 1,000 larval Razorback from Yuma Cove and 1,000 from Tequila Cove.
- January 2017 – 1,846/2,000 = .92% mortality.
- Winter 2018 – Planned release.

LMFH Razorback Sucker on Station

Tank	Species	Year Class	Origin	# of Fish	Mean TL (mm)
201	RBS	2015	Lake Mead	40	159.7
202	RBS	2015	Lake Mohave	931	110.8
203	RBS	2015	Lake Mohave	915	116.1
204	RBS	2016	Lake Mohave	827	N/A
207	RBS	2016	Lake Mohave	157	N/A
209	RBS	2014	Lake Mead	31	348.6
210	RBS	2016	Lake Mohave	1170	N/A
302	RBS	2016	Lake Mohave	2701	N/A
303	RBS	2016	Lake Mohave	176	N/A
402	RBS	2015	Lake Mohave	646	239.0
403	RBS	2015	Lake Mohave	565	240.3
404	RBS	2015	Lake Mohave	753	240.2
406	RBS	2011-2012	Lake Mead	258	415.4
407	RBS	2010	Lake Mead	304	447.9
813	RBS	2014	Lake Mohave	894	387.0
814	RBS	2014	Lake Mohave	882	383.4
815	RBS	2014	Lake Mohave	895	355.5
816	RBS	2014	Lake Mohave	893	387.0
817	RBS	2015	Lake Mohave	2522	237.0
818	RBS	2010-2011	Lake Mohave	489	499.7
			Total Fish	16,049	

Total Lake Mead RBS	633
Total Lake Mohave RBS	15,416

LMFH Bonytail Chub on Station

Tank	Species	Year Class	Origin	# of Fish	Mean TL (mm)
401	Bonytail	2014	Achii Hanyo	438	304.3
405	Bonytail	2016	Achii Hanyo	4,415*	N/A
408	Bonytail	2014	Achii Hanyo	941	350.2
409	Bonytail	2014	Achii Hanyo	882	341.8
410	Bonytail	2014	Achii Hanyo	939	378.3
802	Bonytail	2013	Achii Hanyo	1,402	312.7
803	Bonytail	2013	Wahweap	3,009	260.1
804	Bonytail	2013	Wahweap	3,001	279.4
805	Bonytail	2013	Wahweap	3,191	245.2
806	Bonytail	2013	Wahweap	2,414	244.0
807	Bonytail	2013	Wahweap	2,449	264.5
808	Bonytail	2013	Wahweap	3,237	236.2
			Total Fish	26,318	

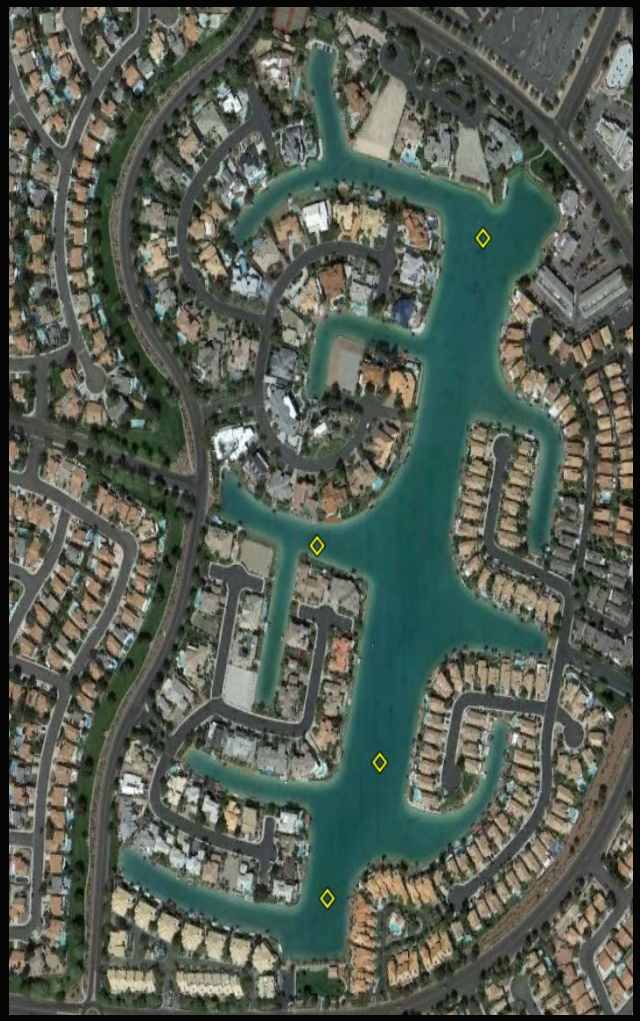
LMFH Moapa Dace on Station

- **May 2015: Received 20 wild caught Dace and 222 F1 Dace from University of Arizona Fish Lab.**

- **January 2017: 336 F1 Dace spawned at LMFH**
  264 F2 Dace spawned at LMFH

Razorback release Lower Grand Canyon February 2016

Sampling Event
Lakes at Sahara, April 2016



Lake Sahara
Las Vegas, NV
30 acres

Lakes at Sahara

Year	Species	Mean TL (mm)	Mean TW (g)
2016	RBS	576.1	2320.7

Sampling Event
Center Pond at Overton Wildlife Management Area, December 2016

Species	# of Fish	Avg. TL (mm)	Avg. Wt (g)
Razorback	8	511.1	3,293.8

2016 Additional Events

Species	Year Class	# of Fish	Destination	Tag	Date Released
BTC	2013	328	Mohave	PIT	January 16th
RBS	2010-2011 2014	2,026	Reach 3	PIT/Sonic/ Radio	February 16-18th
BTC	2013-2014	525	Mohave	PIT/Sonic	April 26th
RBS	2014	900	Imperial Ponds	PIT	December 12th

Upcoming Work Activities 2017

- Continue rearing up to ~9,000 Razorback Sucker larvae and ~6,000 Bonytail Fingerling yearly for future repatriation.
- Begin stocking Bonytail received in FY14 that have attained a TL > 300mm. Approx 4,500 avg 420mm scheduled release Feb 2016.
- Continue spawning of Moapa Dace for research projects.
- Long-term monitoring of Lake Mead RBS population w/BIO-WEST, Inc.
- Flow condition razorback suckers and release into Lake Mohave (Jan/Feb 2017).

Acknowledgements

American Southwest Ichthyological Researchers