Summary of Lower Colorado River Native Fishes Database Activities for 2015

CAROL A. PACEY AND PAUL C. MARSH

MARSH & ASSOCIATES, LLC

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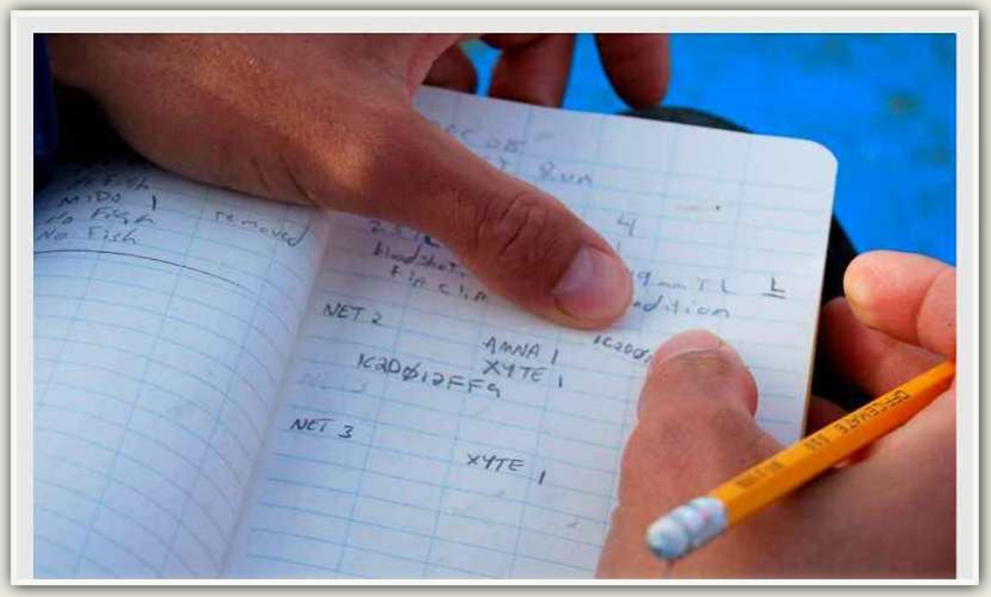
Lower Colorado River Native Fish Database

- **Native Fish Work Group (NFWG) founded in 1990 with all fish stocking and monitoring data centralized at Arizona State University**
- **All data currently centralized at Marsh & Associates LLC**
- **Database currently holds 468K records of PIT-tag data + and records from all LCR MSCP reaches including Reach 1 or Lake Mead**



Lower Colorado River Native Fish Database
PIT Tag records from 1990-2015

Reach	Species	Records
1	CADI	3
	CALA	1,233
	CAXY	37
	XYTE	1,436
2	GIEL	24,322
	XYTE	231,242
3	CALA	2,623
	CAXY	4
	GIEL	57,600
	XYTE	77,938
4&5	GIEL	6,805
	XYTE	25,916
Other	GIEL & XYTE	39,334
	Total	468,493

Current Repatriated Razorback Sucker Population Estimate in Reach 2, Lake Mohave, AZ-NV

*N**	2,230
95% Confidence Interval	
Lower	Upper
922	5,963

Current Repatriated Razorback Sucker Population Estimate in Reach 2, Lake Mohave, AZ-NV

Stocking Year	Collection Year	*N**	95% CI	
			Lower	Upper
2014	2015	2,230	922	5,963
2013	2014	2,525	1,180	5,741
2012	2013	1,854	941	3,782
2011	2012	2,577	1,139	6,284
2010	2011	2,966	1,509	6,063

Razorback Sucker Collected 2015 in Reach 2, Lake Mohave, AZ-NV

Sex	*N* Fish Collected in 2015									Grand Total
	Without PIT Tags				With PIT Tags[a]					
	Feb	Mar	Jul	Total	Feb	Mar	Apr Jun Jul Sep	Dec	Total	
Female	2	5	1	8	15	101	17	10	143	151
Male	1	4	1	6	10	28	6	10	54	60
Juvenile	0	0	0	0	0	1	0	0	1	1
Unknown	0	0	0	0	0	6	5	1	12	12
Total	3	9	2	14	25	136	28	21	210	224

[a]Same-trip captures (*N*=6) included in analysis

Interesting Notes about PIT-tagged Razorback Sucker Collected 2015 in Reach 2, Lake Mohave, AZ-NV

Of 210 collected PIT-tagged fish,

- **208 (99%) were repatriates and 2 (1%) had unknown histories**
- **137 (65%) had year class data which ranged from 1996, 2001-2012 (except 2004)**
- **165 (79%) collected in trammel nets while 35 (17%) collected by electrofishing and 8 (4%) collected in gill nets**
  - **The smallest fish collected in - trammel nets was 34 cm, electrofishing was 51 cm and gill nets was 41 cm**
- **6 (3%) had a second 134 kHz tag inserted**
- **1 (< 1%) had missing collection or stocking data**

PIT-tagged Repatriated Razorback Sucker Reared in Off-site Facilities and Lakeside Backwaters Collected 2015 in Reach 2, Lake Mohave, AZ-NV

Rearing Type	Total *N* Fish Stocked[a]	Total *N* Fish Collected[a,b] (% Total *N* Fish Stocked, % Total *N* Fish Collected)	*N* fish Collected 2015[c] (% Total *N* Fish Collected, % *N* Fish Collected in 2015)
Off-site Facilities	178,326	2,790 (2, 64)	137 (5, 67)
Lakeside Backwaters	31,922	1,591 (5, 36)	66 (4, 33)
Total	210,248	4,381	203

[a]For all years and includes 2015 data
[b]Includes same trip captures and multiple recaptures
[c]Data from paired stocking-collection data only (*N*=203; 7 fish omitted with unknown or missing stocking or original collection data)

PIT-tagged Repatriated Razorback Sucker Reared in Off-Site Facilities Collected 2015 in Reach 2, Lake Mohave, AZ-NV

Rearing Location (First Year Stocking, Last Year Stocking)	Total *N* Fish Stocked[a]	Total *N* Fish Collected[a,b] (% Total *N* Fish Stocked, % Total *N* Fish Collected)	*N* fish Collected 2015[c] (% Total *N* Fish Collected, % *N* Fish Collected in 2015)
Achii Hanyo FH (2009, 2013)	7,341	210 (3, 7)	26 (12, 19)
Boulder City Golf Course (1995, 2002)	6,907	259 (4, 9)	4 (1, 3)
Boulder City Wetlands Park (1993, 2003)	9,868	719 (7, 26)	19 (3, 14)
Bubbling Ponds FH (1999, 2009)	15,861	299 (2, 11)	14 (5, 10)
SNARRC (1996, 2014)	9,110	100 (1, 4)	15 (15, 11)
Lake Mead FH (2013, 2015)	294	15 (5, 1)	4 (27, 3)
Overton Wildlife Management Area (2014, 2014)	148	5 (2, < 1)	5 (100, 4)
Willow Beach NFH (1996, 2015)	128,797	1,183 (1, 43)	50 (4, 36)
Total	178,326	2,790	137

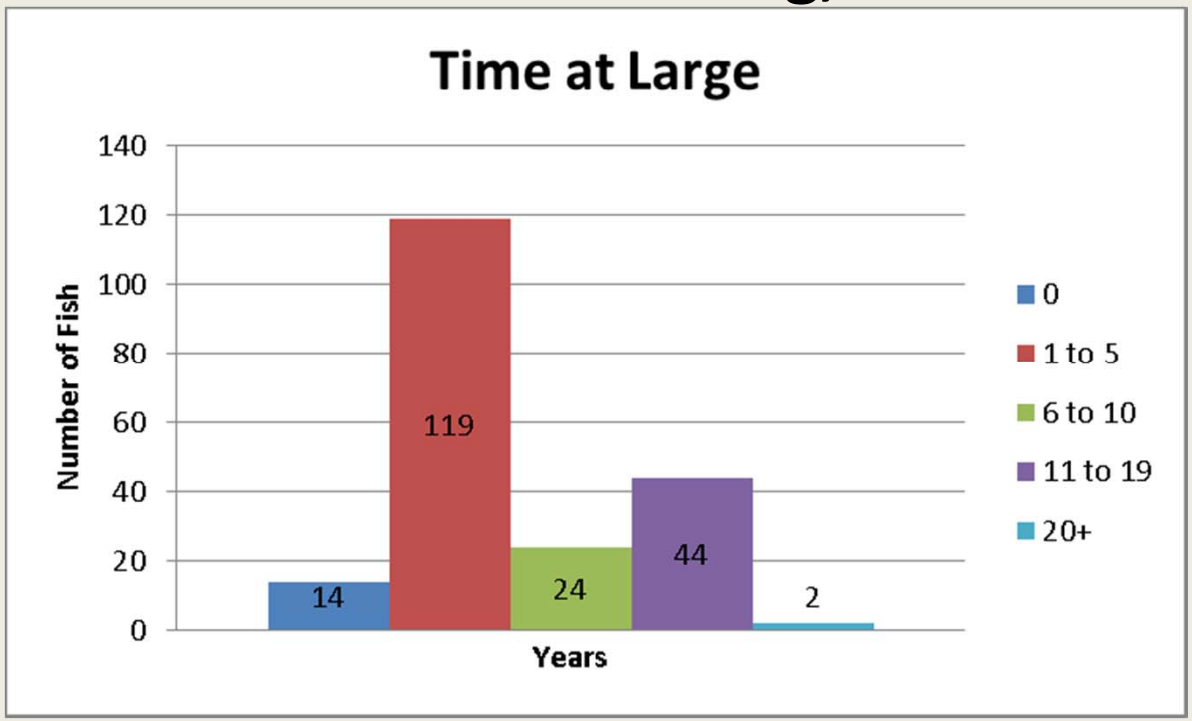
PIT-tagged Repatriated Razorback Sucker Reared in Lakeside Backwaters Collected 2015 in Reach 2, Lake Mohave, AZ-NV

Rearing Location (First Year Stocking, Last Year Stocking)	Total *N* Fish Stocked[a]	Total *N* Fish Collected[a,b] (% Total *N* Fish Stocked, % Total *N* Fish Collected)	*N* fish Collected 2015[c] (% Total *N* Fish Collected, % *N* Fish Collected in 2015)
Arizona Juvenile (1993, 2015)	4,516	225 (5, 14)	12 (5, 18)
Dandy Cove (1994, 2015)	5,937	179 (3, 11)	5 (3, 7)
Davis Cove (1993, 2011)	1,397	80 (6, 5)	2 (3, 3)
Nevada Egg (1996, 2007)	298	21 (7, 1)	1 (5, 1)
North Chemehuevi Cove (1994, 2015)	4,793	239 (5, 15)	15 (6, 23)
South Sidewinder Cove (1994, 2007)	500	45 (9, 3)	1 (2, 1)
Willow Backwater (1993, 2015)	682	37 (5, 2)	4 (11, 6)
Yuma Cove (1992, 2012)	13,799	765 (5, 48)	26 (3, 39)
Total	31,922	1,591	66

Interesting Notes about PIT-tagged Razorback Sucker Collected 2015 in Reach 2, Lake Mohave, AZ-NV

Of the 203 fish with paired stocking-collection data,

- **171 (84%) were ≥ 35 cm TL at stocking while 31 fish (15%) were < 35 cm TL at stocking; one fish had no TL**



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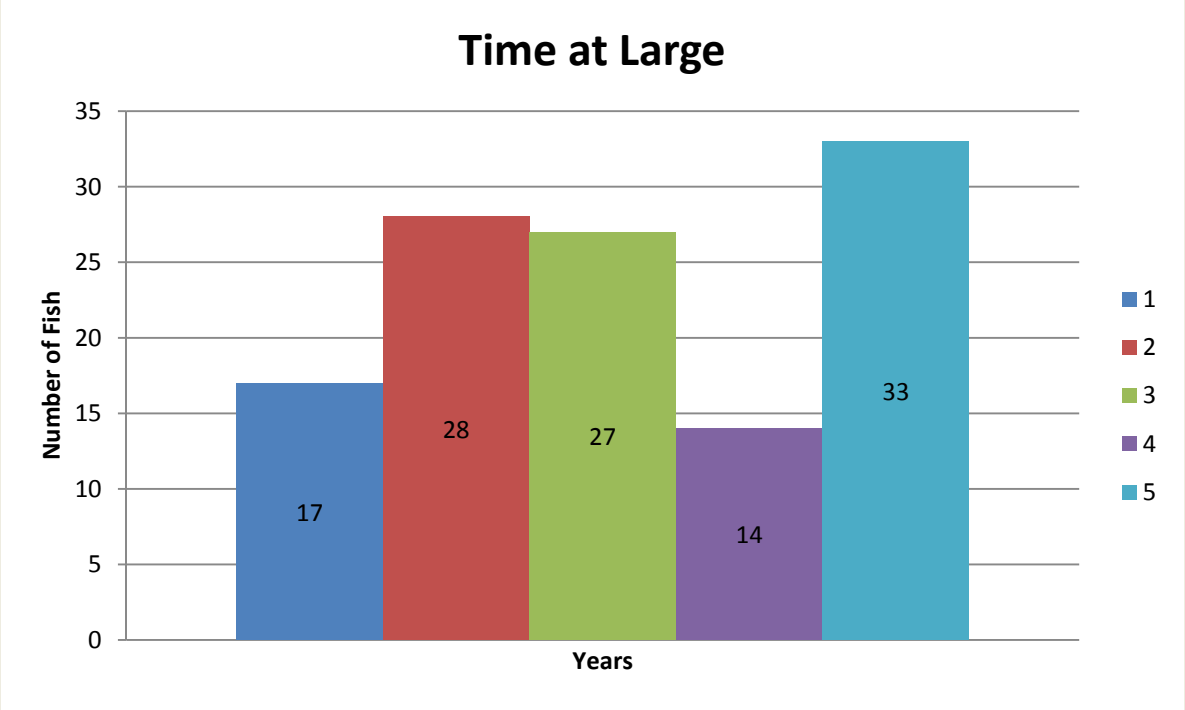

Summary of PIT-tagged Razorback Sucker in LCR MSCP Reaches, 2015

	N Fish by Reach				Total
	1	2	3	4&5	
Stocked	0	14,787 (35 cm TL, ± 30 SD, 30-52 cm TL min-max)	9,840 (36 cm TL, 43 ± SD, 17-57 cm TL min-max)	7,764 (35 cm TL 32 ± SD, 30-54 cm TL min-max)	32,391
Collected	6	249	176	0	431

Acknowledgements

NFWG / LCR MSCP field crews at AZGFD, BR, M&A, NPS, NDOW and volunteers

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Hatchery crews at Achii Hanyo FH, Bubbling Ponds FH, NDOW Overton Management Area, SW Native Aquatic Resources & Recovery Center, Lake Mead FH and Willow Beach NFH